



2021 PRODUCT CATALOG



Including
NEW
PRODUCTS
for **2021**

PRODUCTS AT WORK

Balances & Scales
Moisture Analyzers
Laboratory Equipment
Water Analysis Instruments
Calibration Weights

Ingeniously Practical

www.ohaus.com

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The OHAUS Advantage

For more than a century, the OHAUS name has been synonymous with precision and reliability. Our high-quality balances and scales, laboratory equipment and analytical instruments are designed to meet the evolving needs of a growing range of industries. In addition to supporting the need for precision in every setting, our Ingeniously Practical methodology—demonstrated in all of our products and services—provides tangible benefits that improve accuracy and quality for our customers.

At OHAUS, we have an unwavering dedication to four principles that guide the way we conduct business and support our customers: trust, agility, ingenuity and commitment. That's the OHAUS Advantage, and it's the promise we make to our customers every day.

TRUST

More Than A Century Of Precision & Reliability

Trust is a cornerstone of our relationship with our customers. With more than a century of expertise, we have become a trusted resource for those who rely on precision weighing products and life science equipment. As customer needs have evolved over the decades, our ability to adapt to change and offer the latest practical innovations has contributed to this enduring trust.

Today, we continue to deliver the same level of trusted quality and reliability that our customers have come to expect. While remaining grounded in our deep American roots established by Gustav and Karl Ohaus in 1907, we have expanded into 20 countries across six continents, creating a strong global network positioned to meet customer needs around the world.

AGILITY

Always Evolving

Over the years, OHAUS has brought the quality and value that define our weighing products to a wider range of specialized products, including analytical instruments and laboratory equipment for various industries. Our ability to be agile supports our commitment to embrace and adapt new technologies that benefit our customers.

Through our global network of office locations, representatives, and dealers, we stay on top of industry trends around the world and are positioned to quickly adapt to market changes and customer needs. Together with research/development and advanced manufacturing processes, this knowledge enables us to design and craft every OHAUS product to meet and exceed the demands, trends and expectations of our markets.

INGENUITY

Ingeniously Practical In Meeting Customer Needs

Whether you're looking for traditional weighing products or specialized laboratory or analytical equipment, all OHAUS products are built with ingenuity while also remaining practical in meeting customer needs. In fact, we call our expanded portfolio of products "Ingeniously Practical." To us, this means they offer both pinpoint accuracy and ease of use, and they feature the highest quality while being affordable and durable.

All OHAUS products are rigorously tested to meet national and international safety, quality, and accuracy standards. As an ISO 9001-2015 manufacturer, we maintain our commitment to quality through certifications, listings and ratings such as NTEP, OIML, IP, NEMA and NSF, ensuring legal and operational compliance. Our products are further backed by our extended warranties and ongoing technical support.

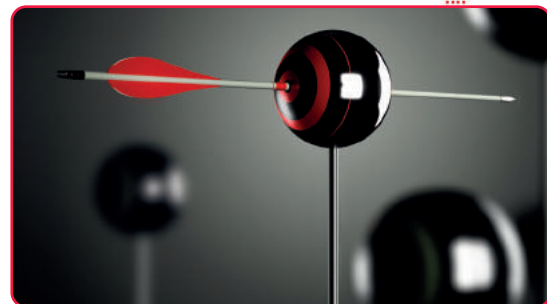
OHAUS products also feature superior mechanical overload protection to protect the weighing cells, while IP and NEMA ratings demonstrate further protection from harsh environments. These protective attributes prolong the life of our equipment.

COMMITMENT

Supporting Our Customers Around The Globe

At OHAUS, we are committed to providing comprehensive customer support, from technical advice and marketing insight to the logistical capacity to meet specific requests and turnaround times. We complement these offerings with onsite training, webinars, video demonstrations and a monthly newsletter.

We believe this commitment means developing a relationship that benefits our customers for the long-term. Our responsive customer service and technical support representatives go the extra mile to provide value-added solutions in a timely manner. With offices in 20 countries, you can receive personalized service and support from anywhere in the world.

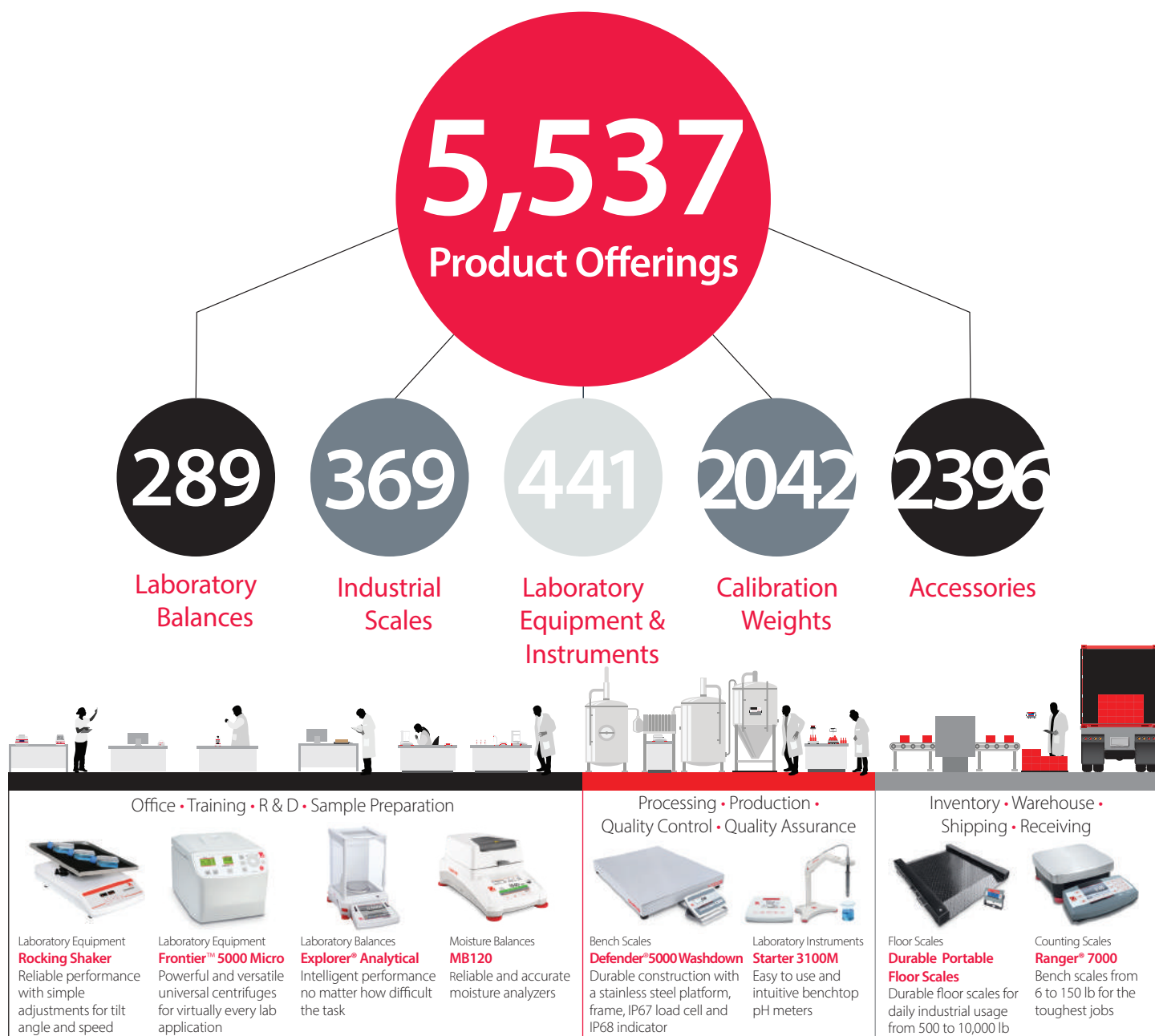


Products at Work

The OHAUS product range is specifically designed to help maximize productivity, across every surface of the workspace. From the office to the warehouse, our Ingeniously Practical portfolio is packed with products made with your customers' needs in mind. Our industry-leading line of scales and balances offer the accuracy, speed, and peace of mind your customers need to Weigh It with ease, while our ever-growing line of laboratory instruments products allows them to Test It with the confidence they need. Introduced in 2017, the OHAUS line of laboratory equipment rounds out the ability to Do More in the lab, offering products ranging from mixers and shakers to clamps and supports—and everything in between.

No matter what your customers' needs are, from research and development to fulfillment and receiving, you can depend on OHAUS for everything you need to let your customers' operations thrive.

Don't stop at just measurement—Do More.



Laboratory Weighing



From our powerhouse flagship Explorer balance to our rugged and practical PR Series, OHAUS has a wide variety of semi-micro, analytical, precision, high-capacity, and moisture balances that are ideal for use in almost every area of your laboratory—and beyond.



	Analytical Balances						Precision Balances				Portables		
	Explorer Semi-Micro	Pioneer Semi-Micro	Explorer	Adventurer	Pioneer	PR Series	Explorer	Adventurer	Pioneer	PR Series	Navigator	Scout	Compass CX/CR
Weighing Capacity Range	51 g - 220 g	82 g - 220 g	120 g - 320 g	120 g - 320 g	80 g - 220 g	64 g - 220 g	220 g - 35000 g	220 g - 8200 g	160 g - 4200 g	320 g - 6200 g	220 g - 20 k g	120 g - 8200 g	220 g - 5,200 g
Readability Range	0.01 mg	0.01 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.001 g - 0.1 g	0.001 g - 0.1 g	0.001 g - 0.1 g	0.001 g - 0.1 g	0.01 g - 1 g	0.001 g - 1 g	0.1 g - 1 g
Parts Counting	●	●	●	●	●	●	●	●	●	●	●	●	
Percent Weighing	●	●	●	●	●	●	●	●	●	●	●	●	
Custom Unit - Factor Entry	●		●	●	●		●	●	●			●*	
Checkweighing	●		●	●			●	●			●	●	
Dynamic Weighing	●	●	●	●	●		●	●	●			●*	
Gross/Net/Tare	●	●	●	●		●	●	●		●			
Totalization	●		●	●			●	●				●	
Statistics	●		●	●			●	●					
Differential Weighing	●		●				●						
Filling	●		●				●						
Mole Weighing												●*	
Density Determination	●	●	●	●	●		●	●	●			●*	
Pipette Calibration	●		●				●*						
High Point	●		●				●						
Display Hold				●				●				●*	
Formulation	●		●	●			●	●					
Ingredient Costing			●				●						
Battery Power							●*				●	●	●
Backlight LCD		●			●	●			●	●	●	●	●*
LCD		●			●	●			●	●	●	●	●
Color Graphics Display	●		●	●			●	●				●*	
Touchscreen	●		●	●			●	●				●*	
Keys		●		●	●	●		●	●	●		●	
Multi Languages	●	●	●	●			●	●				●*	
RS232	●	●	●	●	●	●	●	●	●	●	○	○	
USB - Host	●		●	●			●	●				○	
USB - Device	●	●	●	●	●	○	●	●	●	○	○	○	
Ethernet	○	○	○	○	○	○	○	○	○	○	○	○	
GLP / Time / Date	●	●	●	●	●		●	●	●			●*	
Bluetooth												○	
Internal Calibration	●*	●	●*	●*	●*	●*	●*	●*	●*	●*			
External Calibration	●	●	●	●	●	●	●	●	●	●	●	●	●
AutoCal	●*		●*	●*			●*	●*					
Below Balance Weighing	●	●	●	●	●	●	●	●	●	●		●	
NTEP Certified or Measurement Canada Approved			●*	●*			●*	●*		●		●	
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○ Optional * on specific models

EXPLORER® SEMI-MICRO BALANCES

Advanced Functionality to Suit the Intelligent Research Lab

Display

Full-color VGA graphic display (5.7 in. diagonal), 4-wire resistive touchscreen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Communication

RS232, USB Host, USB Device, optional Ethernet (accessory sold separately) . GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door as option models

Design Features

AutoCal™ fully automatic internal calibration system included on all models, fast stabilization time, four touchless sensors, built-in ionizer with automatic door models, 14 operating languages, save to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby.



Explorer's weighing cells, precision-machined from a solid metal block, together with AutoCal™ provides exceptional accuracy and durability suitable for laboratory and industrial environments.

Features such as four-level user management with password protection, and an uneditable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, optional built-in ionizer and automatic doors, and a frameless draftshield make Explorer balances easy and convenient to use.

Model	Auto Door & Static Ionizer	Capacity	Readability	Pan Size	Item No.	List Price (USD)
EX125D		51 g; 120 g	0.01 mg; 0.1 mg	Ø 3.14 in / Ø 80 mm	30139510	5705
EX125		120 g	0.01 mg	Ø 3.14 in / Ø 80 mm	30139511	7115
EX225D		120 g; 220 g	0.01 mg; 0.1 mg	Ø 3.14 in / Ø 80 mm	30139512	7280
EX225D/AD	•	120 g; 220 g	0.01 mg; 0.1 mg	Ø 3.14 in / Ø 80 mm	30139513	7525
EX225/AD	•	220 g	0.01 mg	Ø 3.14 in / Ø 80 mm	30139514	8230

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Static Ionizer, ION-100A, AM	30130302	1745
Pipette Adjustment Kit, EX Semi-Micro	30252145	1450
Dust Cover, Balance with Draft Shield	30093334	51
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), CBM910	80251932	20
Ink Ribbon, CBM910	80251933	56
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	193
Density Kit, Solids	80253384	780

Accessories	Item No.	List Price (USD)
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Anti-Theft Device, MB AX EX	80850043	232
Ethernet Kit, EX EX-HiCap	83021082	193
Cable, RS422, Extension, EX EX-HiCap	83021083	108
Cable, USB, Type A-B	83021085	193



EXPLORER® ANALYTICAL BALANCES

Advanced Functionality to Suit the Intelligent Research Lab

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232, USB Host, USB Device, optional Ethernet (accessory sold separately). GLP/GMP data output with real-time clock.

Construction

Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and an uneditable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, optional built-in Ionizer and automatic doors, and a frameless draftshield make Explorer balances easy and convenient to use.

Model	Auto Door	Capacity	Readability	Certified Readability	Class	Pan Size	Item No.	List Price (USD)
EX124		120 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	83021331	4255
EX124/AD	•	120 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30061976	4405
EX224		220 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	83021332	4730
EX224/AD	•	220 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30061977	4890
EX324		320 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	83021335	5560
EX324/AD	•	320 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30061978	5750
EX224N*		220 g	0.1 mg	1 mg	I	Ø 3.5 in / Ø 90 mm	83021334	5205
EX224N/AD*	•	220 g	0.1 mg	1 mg	I	Ø 3.5 in / Ø 90 mm	30061998	5830
EX324N*		320 g	0.1 mg	1 mg	I	Ø 3.5 in / Ø 90 mm	83021337	6090
EX324N/AD*	•	320 g	0.1 mg	1 mg	I	Ø 3.5 in / Ø 90 mm	30061999	6360

* Approved Model

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Cable, RS422, 9m, EX EX-HiCap	30078078	153
Dust Cover, Balance with Draft Shield	30093334	51
Auxiliary Display, AD7-RS	30472064	72
Printer, Thermal, STP-103, US	80251992	760
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780

Accessories	Item No.	List Price (USD)
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Anti-Theft Device, MB AX EX	80850043	232
Software, Winwedge	80850080	530
Ethernet Kit, EX EX-HiCap	83021082	193
Cable, RS422, Extension, EX EX-HiCap	83021083	108
Cable, USB, Type A-B	83021085	193



Accumulation



Check-weighing



Density Determination



Differential Weighing



Dynamic Weighing



Filling



Formulation



Gross/Net/Tare



Ingredient Costing



Audible Alerts



Auto Standby



Backlight



Environmental Filters



GLP Data Output



GMP/GLP



Internal Calibration



Level Indicator



Leveling Feet



NTEP Certified



Parts Counting



Peak Hold



Percent Weighing



Pipette Calibration



SQC



Statistics



Totalization



Weighing



Multi-Language



Overload/Underload Indicators



Security Bracket



Software Lockout



Stability Indicator



Time/Date



Touch Screen



Touchless Sensors



Weigh Below Hook



Measurement Canada Approved

EXPLORER® PRECISION BALANCES

Advanced Functionality to Suit the Intelligent Research Lab

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232, USB Host, USB Device, optional Ethernet (accessory sold separately) . GLP/GMP data output with real-time clock.

Construction

Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door (1 mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and an uneditable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen, programmable IR sensors, optional built-in Ionizer and automatic doors, and a frameless draftshield make Explorer balances easy and convenient to use.

Model	AutoCal™	Draftshield	Capacity	Readability	Certified Readability	Class	Pan Size	Item No.	List Price (USD)
EX223/E	•	•	220 g	1 mg	—	—	Ø 5.1 in / Ø 130 mm	30061979	2395
EX223	•	•	220 g	1 mg	—	—	Ø 5.1 in / Ø 130 mm	83021341	2790
EX423/E	•	•	420 g	1 mg	—	—	Ø 5.1 in / Ø 130 mm	30061980	2900
EX423	•	•	420 g	1 mg	—	—	Ø 5.1 in / Ø 130 mm	83021342	3260
EX623	•	•	620 g	1 mg	—	—	Ø 5.1 in / Ø 130 mm	83021348	3990
EX1103	•	•	1100 g	1 mg	—	—	Ø 5.1 in / Ø 130 mm	83021350	4680
EX2202/E	•	•	2200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	30061981	2610
EX2202	•	•	2200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	83021356	3020
EX4202/E	•	•	4200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	30061982	3045
EX4202	•	•	4200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	83021357	3470
EX6202/E	•	•	6200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	30061983	3495
EX6202	•	•	6200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	83021360	3940
EX6201/E	•	•	6200 g	0.1 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	30061984	2800
EX6201	•	•	6200 g	0.1 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	83021361	3270
EX10202	•	•	10200 g	0.01 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	83021362	4675
EX10201	•	•	10200 g	0.1 g	—	—	7.5 in x 8 in / 190 mm x 200 mm	83021365	3590
EX423N*	•	•	420 g	1 mg	0.01 g	II	Ø 5.1 in / Ø 130 mm	83021344	3645
EX1103N*	•	•	1100 g	1 mg	0.01 g	I	Ø 5.1 in / Ø 130 mm	83021352	5105
EX4202N*	•	•	4200 g	0.01 g	0.1 g	II	7.5 in x 8 in / 190 mm x 200 mm	83021359	3815
EX10202N*	•	•	10200 g	0.01 g	0.1 g	I	7.5 in x 8 in / 190 mm x 200 mm	83021364	5105
EX10201N*	•	•	10200 g	0.1 g	0.1 g	I	7.5 in x 8 in / 190 mm x 200 mm	83021367	3945

* Approved Model



EXPLORER® PRECISION BALANCE ACCESSORIES

Advanced Functionality to Suit the Intelligent Research Lab



Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Cable, RS422, 9m, EX EX-HiCap	30078078	153
Auxiliary Display, AD7-RS	30472064	72
Printer, Thermal, STP-103, US	80251992	760
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193

Accessories	Item No.	List Price (USD)
Anti-Theft Device, MB AX EX	80850043	232
Software, Winwedge	80850080	530
Ethernet Kit, EX EX-HiCap	83021082	193
Cable, RS422, Extension, EX EX-HiCap	83021083	108
Draft Shield Kit, EX	83021084	940
Cable, USB, Type A-B	83021085	193
Column Kit, EX	83021102	167
In-Use-Cover, Terminal, EX	83033633	85

EXPLORER® HIGH CAPACITY BALANCES

Advanced Functionality to Suit the Intelligent Research Lab

Display

5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232, USB Host, USB Device, optional Ethernet (accessory sold separately). GLP/GMP data output with real-time clock.

Construction

Modular design, IP54 metal base, die-cast top housing, stainless steel pan, up-front level indicator, integral weigh below hook, calibration lock, two touchless sensors, terminal housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and an uneditable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large color touchscreen and programmable IR sensors make Explorer High-Capacity balances easy and convenient to use.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
EX12001	12000 g	0.1 g	14.8 in x 12.2 in / 377 mm x 311 mm	30057099	3970
EX24001	24000 g	0.1 g	14.8 in x 12.2 in / 377 mm x 311 mm	30057100	4835
EX35001	35000 g	0.1 g	14.8 in x 12.2 in / 377 mm x 311 mm	30057101	5680

Accessories	Item No.	List Price (USD)
Rechargeable Battery, EX-HiCap R71	30041295	388
Wheel Kit, Set (4), EX-HiCap	30041470	167
Printer, Impact, SF40A, AM	30064203	990
Cable, RS422, 9m, EX EX-HiCap	30078078	153
Column Kit, EX-HiCap	30078082	153
Auxiliary Display, AD7-RS	30472064	72
Printer, Thermal, STP-103, US	80251992	760
In-Use-Cover, Terminal, EX	83033633	85

Accessories	Item No.	List Price (USD)
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Anti-Theft Device, MB AX EX	80850043	232
Software, Winwedge	80850080	530
Ethernet Kit, EX EX-HiCap	83021082	193
Cable, RS422, Extension, EX EX-HiCap	83021083	108



ADVENTURER® ANALYTICAL BALANCES

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	AutoCal™	Capacity	Readability	Certified Readability	Class	Pan Size	Item No.	List Price (USD)
AX124	•	120 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30100600	3095
AX124/E		120 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30100601	2570
AX224	•	220 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30100602	3415
AX224/E		220 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30100603	2830
AX324	•	320 g	0.1 mg	—	—	Ø 3.5 in / Ø 90 mm	30100604	3735
AX224N*	•	220 g	0.1 mg	1 mg	I	Ø 3.5 in / Ø 90 mm	30100630	3625

* Approved Model

Accessories	Item No.	List Price (USD)
Paper Roll, Set (2), 57.5mm, SF40A	12120799	19
Printer, Impact, SF40A, AM	30064203	990
Dust Cover, Balance with Draft Shield	30093334	51
SP In-Use-Cover wo DS AX	30111777	30
SP In-Use-Cover DS AX	30111792	30
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), Thermal, STP103	80251931	22

Accessories	Item No.	List Price (USD)
Printer, Thermal, STP-103, US	80251992	760
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Anti-Theft Device, MB AX EX	80850043	232
Cable, USB, Type A-B	83021085	193



Accumulation



Check-weighing



Density Determination



Display Hold



Dynamic Weighing



Formulation



Backlight



Environmental Filters



GLP Data Output



GMP/GLP



Internal Calibration



Level Indicator



Leveling Feet



Multi-Language



NTEP Certified



Parts Counting



Percent Weighing



Statistics



Totalization



Weighing



Gross/Net/Tare



Overload/Underload Indicators



Security Bracket



Software Lockout



Stability Indicator



Time/Date



Touch Screen



Weigh Below Hook



Measurement Canada Approved

ADVENTURER® PRECISION BALANCES

Intuitive Balances Designed for a Variety of Needs

Display

4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

Communication

RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	AutoCal™	Draftshield	Capacity	Readability	Pan Size	Item No.	List Price (USD)
AX223	•	•	220 g	1 mg	Ø 5.1 in / Ø 130 mm	30100605	1865
AX223/E		•	220 g	1 mg	Ø 5.1 in / Ø 130 mm	30100606	1495
AX423	•	•	420 g	1 mg	Ø 5.1 in / Ø 130 mm	30100607	2255
AX423/E		•	420 g	1 mg	Ø 5.1 in / Ø 130 mm	30100608	1845
AX523	•	•	520 g	1 mg	Ø 5.1 in / Ø 130 mm	30100609	2465
AX523/E		•	520 g	1 mg	Ø 5.1 in / Ø 130 mm	30100610	2030
AX622	•		620 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30122632	1415
AX422/E			420 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30127981	1045
AX822/E			820 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30127983	1230
AX1502	•		1520 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100611	1730
AX1502/E			1520 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100612	1335
AX2202	•		2200 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100613	1840
AX2202/E			2200 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100614	1440
AX4202	•		4200 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100615	2310
AX4202/E			4200 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100616	1870
AX5202	•		5200 g	0.01 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100617	2620
AX2201/E			2200 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30248912	1180
AX4201	•		4200 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30122634	1525
AX4201/E			4200 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30122635	1335
AX8201	•		8200 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100618	1785
AX8201/E			8200 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100619	1495



Approved models and accessories on next page.

ADVENTURER® PRECISION BALANCES

Intuitive Balances Designed for a Variety of Needs

Model	AutoCal™	Draftshield	Capacity	Readability	Certified Readability	Class	Pan Size	Item No.	List Price (USD)
AX223N/E*		•	220 g	1 mg	0.01 g	II	Ø 5.1 in / Ø 130 mm	30100631	1655
AX423N*	•	•	420 g	1 mg	0.01 g	II	Ø 5.1 in / Ø 130 mm	30100632	2410
AX423N/E*		•	420 g	1 mg	0.01 g	II	Ø 5.1 in / Ø 130 mm	30100633	1975
AX523N/E*		•	520 g	1 mg	0.01 g	II	Ø 5.1 in / Ø 130 mm	30100634	2190
AX622N/E*			620 g	0.01 g	0.1 g	II	7.7 in × 6.9 in / 195 mm × 175 mm	30100635	1280
AX1502N/E*			1520 g	0.01 g	0.1 g	II	7.7 in × 6.9 in / 195 mm × 175 mm	30100636	1440
AX2202N/E*			2200 g	0.01 g	0.1 g	II	7.7 in × 6.9 in / 195 mm × 175 mm	30100637	1600
AX4202N/E*			4200 g	0.01 g	0.1 g	II	7.7 in × 6.9 in / 195 mm × 175 mm	30122655	2030
AX8201N/E*			8200 g	0.1 g	1 g	II	7.7 in × 6.9 in / 195 mm × 175 mm	30100639	1600

* Approved Model

Accessories	Item No.	List Price (USD)
Paper Roll, Set (2), 57.5mm, SF40A	12120799	19
Printer, Impact, SF40A, AM	30064203	990
Dust Cover, Balance with Draft Shield	30093334	51
SP In-Use-Cover wo DS AX	30111777	30
SP In-Use-Cover DS AX	30111792	30
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), Thermal, STP103	80251931	22

Accessories	Item No.	List Price (USD)
Printer, Thermal, STP-103, US	80251992	760
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Anti-Theft Device, MB AX EX	80850043	232
Cable, USB, Type A-B	83021085	193



PIONEER® SEMI-MICRO BALANCES

Affordable Balance to Achieve Reliable Results

Display

Backlit Liquid Crystal Display (LCD); second line display for additional information or guidance (dot matrix)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, plastic top housing, removable stainless steel pan, glass draftshield, integrated weigh-below hook, security bracket, calibration lock and in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

PX features a second line display for additional information/guidance, and USB/RS232 connectivity for easy communication. Draftshield models feature a static removal (ESR) bar for convenient grounding.

Model	AutoCal™	Draftshield	Capacity	Readability	Pan Size	Item No.	List Price (USD)
PX85	•	•	82 g	0.01 mg	3.15 in / 80 mm	30475733	4195
PX225D	•	•	82 g; 220 g	0.01 mg; 0.1 mg	3.15 in / 80 mm	30475734	4850

Accessories	Item No.	List Price (USD)
Paper Roll, Set (2), 57.5mm, SF40A	12120799	19
Printer, Impact, SF40A, AM	30064203	990
Dust Cover, Balance with Draft Shield	30093334	51
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), Thermal, STP103	80251931	22
Printer, Thermal, STP-103, US	80251992	760
Sinker Glass for Density Determination	83034024	650
Cable, USB, Type A-B	83021085	193
Anti-Theft Device	80850043	232

Accessories	Item No.	List Price (USD)
Static Ionizer, ION-100A, AM	30130302	1745
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530
In-Use-Cover, PX	30372546	46



Density Determination



Dynamic Weighing



Gross/Net/Tare



Parts Counting



Percent Weighing



Weighing



Backlight



Environmental Filters



Internal Calibration



Level Indicator



Leveling Feet



Overload Protection



Security Bracket



Software Lockout



Stability Indicator



Weigh Below Hook

PIONEER® ANALYTICAL BALANCES

Affordable Balance to Achieve Reliable Results

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, plastic top housing, removable stainless steel pan, glass draftshield, integrated weigh-below hook, security bracket, calibration lock and in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

PX features a second line display for additional information/guidance, and USB/RS232 connectivity for easy communication. Draftshield models feature a static removal (ESR) bar for convenient grounding.

Model	InCal	Draftshield	Capacity	Readability	Pan Size	Item No.	List Price (USD)
PX84/E		•	82 g	0.1 mg	3.54 in / 90 mm	30429845	1725
PX84	•	•	82 g	0.1 mg	3.54 in / 90 mm	30429837	1985
PX124/E		•	120 g	0.1 mg	3.54 in / 90 mm	30429846	1990
PX124	•	•	120 g	0.1 mg	3.54 in / 90 mm	30429838	2275
PX224/E		•	220 g	0.1 mg	3.54 in / 90 mm	30429847	2210
PX224	•	•	220 g	0.1 mg	3.54 in / 90 mm	30430053	2505

Accessories	Item No.	List Price (USD)
Paper Roll, Set (2), 57.5mm, SF40A	12120799	19
Printer, Impact, SF40A, AM	30064203	990
Dust Cover, Balance with Draft Shield	30093334	51
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), Thermal, STP103	80251931	22
Printer, Thermal, STP-103, US	80251992	760
Sinker Glass for Density Determination	83034024	650
Cable, USB, Type A-B	83021085	193
Anti-Theft Device	80850043	232

Accessories	Item No.	List Price (USD)
Static Ionizer, ION-100A, AM	30130302	1745
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530
In-Use-Cover, PX	30372546	46



PIONEER® PRECISION BALANCES

Affordable Balance to Achieve Reliable Results

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, plastic top housing, removable stainless steel pan, glass draftshield, integrated weigh-below hook, security bracket, calibration lock and in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

PX features a second line display for additional information/guidance, and USB/RS232 connectivity for easy communication. Draftshield models feature a static removal (ESR) bar for convenient grounding.

Model	InCal	Draftshield	Capacity	Readability	Pan Size	Item No.	List Price (USD)
PX163/E		•	160 g	1 mg	4.72 in / 120 mm	30429848	1000
PX163	•	•	160 g	1 mg	4.72 in / 120 mm	30429839	1245
PX323/E		•	320 g	1 mg	4.72 in / 120 mm	30429849	1165
PX323	•	•	320 g	1 mg	4.72 in / 120 mm	30429840	1400
PX523/E		•	520 g	1 mg	4.72 in / 120 mm	30430057	1475
PX523	•	•	520 g	1 mg	4.72 in / 120 mm	30430054	1720
PX1602/E			1600 g	0.01 g	7.09 in / 180 mm	30430058	965
PX1602	•		1600 g	0.01 g	7.09 in / 180 mm	30430055	1180
PX2202/E			2200 g	0.01 g	7.09 in / 180 mm	30429850	1055
PX2202	•		2200 g	0.01 g	7.09 in / 180 mm	30429841	1275
PX3202/E			3200 g	0.01 g	7.09 in / 180 mm	30429851	1275
PX3202	•		3200 g	0.01 g	7.09 in / 180 mm	30429842	1505
PX4202/E			4200 g	0.01 g	7.09 in / 180 mm	30429852	1440
PX4202	•		4200 g	0.01 g	7.09 in / 180 mm	30429843	1690
PX2201/E			2200 g	0.1 g	7.09 in / 180 mm	30430059	895
PX2201	•		2200 g	0.1 g	7.09 in / 180 mm	30430056	1095
PX4201/E			4200 g	0.1 g	7.09 in / 180 mm	30429853	1035
PX4201	•		4200 g	0.1 g	7.09 in / 180 mm	30429844	1240

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Dust Cover, Balance with Draft Shield	30093334	51
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), Thermal, STP103	80251931	22
Printer, Thermal, STP-103, US	80251992	760
Sinker Glass for Density Determination	83034024	650
Cable, USB, Type A-B	83021085	193
Anti-Theft Device	80850043	232

Accessories	Item No.	List Price (USD)
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Density Kit, Solids	80253384	780
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530
In-Use-Cover, PX	30372546	46



Density Determination



Dynamic Weighing



Gross/Net/Tare



Parts Counting



Percent Weighing



Weighing



Backlight



Environmental Filters



Internal Calibration



Level Indicator



Leveling Feet



Overload Protection



Security Bracket



Software Lockout



Stability Indicator



Weigh Below Hook

PR SERIES

Economical Balances For Routine Weighing Applications

Display

Backlit liquid crystal display (LCD)

Communication

RS-232 port (standard), USB or Ethernet (via an interface kit)

Construction

ABS housing, stainless steel pan, glass draftshield (milligram models only), weigh below hook, security lock interface, LFT lockout switch

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, software overload/underload indicator, stability indicator



The PR is equipped with 3 essential weighing modes, RS-232 connectivity for data transfer and storage, and internal calibration (in select models), making it ideal for routine weighing applications.

Equipped with an easy-to-read, bright backlit display and a simple user interface, the PR is incredibly easy to operate, with almost no training required.

The PR's small footprint saves desktop space while providing a large weighing surface. The PR is durably constructed, and features a stainless steel pan to withstand day-to-day use in the workplace.

Model	InCal	Draftshield	Capacity	Readability	Certified Readability	Class	Pan Size	Item No.	List Price (USD)
PR64/E		•	62 g	0.1 mg	—	—	4.72 in / 120 mm	30430060	1460
PR124	•	•	120 g	0.1 mg	—	—	4.72 in / 120 mm	30529065	1900
PR124/E		•	120 g	0.1 mg	—	—	4.72 in / 120 mm	30529066	1680
PR224	•	•	220 g	0.1 mg	—	—	4.72 in / 120 mm	30430061	2100
PR224/E		•	220 g	0.1 mg	—	—	4.72 in / 120 mm	30430062	1870
PR223/E		•	220 g	1 mg	—	—	7.09 in / 180 mm	30529239	925
PR523/E		•	520 g	1 mg	—	—	7.09 in / 180 mm	30430063	1250
PR1602/E			1600 g	0.01 g	—	—	7.09 in / 180 mm	30529067	850
PR2202/E			2200 g	0.01 g	—	—	7.09 in / 180 mm	30430064	975
PR4202/E			4200 g	0.01 g	—	—	7.09 in / 180 mm	30430065	1215
PR2201/E			2200 g	0.1 g	—	—	7.09 in / 180 mm	30529238	755
PR4201/E			4200 g	0.1 g	—	—	7.09 in / 180 mm	30430066	875
PR323N/E*		•	320 g	1 mg	0.01 g	II	4.72 in / 120 mm	30455605	1130
PR523N/E*		•	520 g	1 mg	0.01 g	II	4.72 in / 120 mm	30455606	1440
PR523N*	•	•	520 g	1 mg	0.01 g	II	4.72 in / 120 mm	30452494	1670
PR322N/E*		•	320 g	0.01 g	0.01 g	II	4.72 in / 120 mm	30515026	1130
PR522N/E*		•	520 g	0.01 g	0.01 g	II	4.72 in / 120 mm	30515027	1440
PR822N/E*			820 g	0.01 g	0.1 g	III	7.09 in / 180 mm	30455607	930
PR2202N/E*			2200 g	0.01 g	0.1 g	II	7.09 in / 180 mm	30455668	1035
PR5202N/E*			5200 g	0.01 g	0.1 g	II	7.09 in / 180 mm	30455670	1450
PR2201N/E*			2200 g	0.1 g	0.1 g	II	7.09 in / 180 mm	30455671	1060
PR5201N/E*			5200 g	0.1 g	0.1 g	II	7.09 in / 180 mm	30515038	1085
PR6201N/E*			6200 g	0.1 g	1 g	III	7.09 in / 180 mm	30455673	1160

* Approved Model



Gross/Net/Tare



Parts Counting



Percent Weighing



Weighing



Backlight



Environmental Filters



Internal Calibration



Level Indicator



Leveling Feet



Overload Protection



Security Bracket



Software Lockout



Stability Indicator



Weigh Below Hook



NTEP Certified



Measurement Canada Approved

PR SERIES ACCESSORIES

Economical Balances For Routine Weighing Applications

Accessories	Item No.	List Price (USD)
Paper Roll, Set (2), 57.5mm, SF40A	12120799	19
Printer, Impact, SF40A, AM	30064203	990
Auxiliary Display, AD7-RS	30472064	72
Paper Roll, (1), Thermal, STP103	80251931	22
Printer, Thermal, STP-103, US	80251992	760
Anti-Theft Device	80850043	232

Accessories	Item No.	List Price (USD)
Cable, RS232,CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530

SCOUT® STX TOUCHSCREEN

Setting New Standards in Laboratory & Industrial Weighing

Display

4.3" (109 mm) full-color VGA graphic touchscreen display with user-controlled brightness

Communication

RS232, USB Host, USB Device, Ethernet or Bluetooth® (available as accessories)

Construction

ABS housing, stainless steel pan, ABS draftshield (1 mg models only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

Design Features

Stability indicator, stackable design with included stacking and storage cover (excluding 1 mg models), mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, span calibration mass included on models up to 620 g capacity



Large, intuitive, color touchscreen display allows for easy operation—guiding the user through every step of the weighing application.

Advanced weighing technology allows for one-second stabilization time for increased productivity.

Integrated overload protection system rated at ten times the capacity protects the balance in demanding environments.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
STX123	120 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253005	795
STX223	220 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253006	890
STX222	220 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253007	580
STX422	420 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253008	815
STX622	620 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253009	955
STX1202	1200 g	0.01 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253010	1090
STX2202	2200 g	0.01 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253011	1220
STX421	420 g	0.1 g	Ø 4.7 in / Ø 120 mm	30253012	330
STX621	620 g	0.1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253013	488
STX2201	2200 g	0.1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253014	620
STX6201	6200 g	0.1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253015	990
STX8200	8200 g	1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253016	510

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990	Stacking & Storage Cover, x6, STX SPX	30268987	66
RS232 Kit, STX SPX ST3100M	30268982	167	Stacking & Storage Cover, x1, STX SPX	30268988	23
USB Kit, Host, STX SPX	30268983	167	Density Kit, STX	30269020	22
USB Kit, Device, STX SPX ST3100M	30268984	116	Anti-Theft Device, MB AX EX STX SPX	80850043	232
Bluetooth Kit, STX SPX	30268985	150	Carrying Case, Scout	30269021	131
Ethernet Kit, STX SPX	30268986	181			



SCOUT® SPX

Setting New Standards in Laboratory & Industrial Weighing

Display

Liquid crystal display (LCD) with backlight

Communication

RS232, USB Host, USB Device, Ethernet or Bluetooth® (available as accessories)

Construction

ABS housing, stainless steel pan, ABS draftshield (1 mg models only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

Design Features

Stability indicator, stackable design with optional stacking & storage cover (excluding 1 mg models), mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, span calibration mass included on models up to 620 g capacity



Large backlit display improves readability in low light conditions and is easier to view from a distance.

Integrated overload protection and impact-resistant pan allow the balance to operate efficiently in demanding environments.

Increase productivity with advanced weighing technology and stabilization time as fast as one-second.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
SPX123	120 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253017	695
SPX223	220 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253018	780
SPX222	220 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253019	510
SPX422	420 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253020	715
SPX622	620 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253021	835
SPX1202	1200 g	0.01 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253022	955
SPX2202	2200 g	0.01 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253023	1070
SPX421	420 g	0.1 g	Ø 4.7 in / Ø 120 mm	30253024	282
SPX621	620 g	0.1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253025	417
SPX2201	2200 g	0.1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253026	525
SPX6201	6200 g	0.1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253027	865
SPX8200	8200 g	1 g	5.5 in × 6.7 in / 140 mm × 170 mm	30253028	435

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
RS232 Kit, STX SPX ST3100M	30268982	167
USB Kit, Host, STX SPX	30268983	167
USB Kit, Device, STX SPX ST3100M	30268984	116
Bluetooth Kit, STX SPX	30268985	150
Ethernet Kit, STX SPX	30268986	181

Accessories	Item No.	List Price (USD)
Stacking & Storage Cover, x6, STX SPX	30268987	66
Stacking & Storage Cover, x1, STX SPX	30268988	23
Density Kit, STX	30269020	22
Anti-Theft Device, MB AX EX STX SPX	80850043	232
Carrying Case, Scout	30269021	131



SCOUT® SJX

Legal-for-Trade Portable Balances Ideal for Jewelry Weighing

Display

Liquid crystal display (LCD) with backlight

Communication

RS232, USB Host, USB Device, Ethernet or Bluetooth® (available as accessories)

Construction

ABS housing, stainless steel pan, ABS draftshield (1mg model only), weigh below hook, transportation lock, manual calibration lock switch, security slot, adjustable leveling feet, illuminated up-front level indicator

Design Features

Stability indicator, mechanical and software overload/underload protection, low battery indicator, auto shut-off, auto tare, scoop and weight on 64g model



Legal-for-Trade compliant balances are suitable for countertop retail applications. Manual internal settings allow for easy calibration.

Expanded connectivity options including RS232, USB host, USB device, Ethernet and Bluetooth® allow for convenient data logging and communication.

Advanced weighing technology ensures reliable, repeatable weighing results.

Model	Capacity	Readability	Certified Readability	Class	Pan Size	Item No.	List Price (USD)
SJX323N/E*	64 g	1 mg	0.01 g	II	Ø 3.7 in / Ø 93 mm	30253054	700
SJX622N/E*	620 g	0.01 g	0.1 g	III	Ø 4.7 in / Ø 120 mm	30253055	875
SJX1502N/E*	1500 g	0.01 g	0.1 g	II	5.5 in x 6.7 in / 140 mm x 170 mm	30253056	1015
SJX6201N/E*	6200 g	0.1 g	1 g	III	5.5 in x 6.7 in / 140 mm x 170 mm	30253057	900

*Approved Model

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990	Stacking & Storage Cover, x6, STX SPX	30268987	66
RS232 Kit, STX SPX ST3100M	30268982	167	Stacking & Storage Cover, x1, STX SPX	30268988	23
USB Kit, Host, STX SPX	30268983	167	Density Kit, STX	30269020	22
USB Kit, Device, STX SPX ST3100M	30268984	116	Anti-Theft Device, MB AX EX STX SPX	80850043	232
Bluetooth Kit, STX SPX	30268985	150	Carrying Case, Scout	30269021	131
Ethernet Kit, STX SPX	30268986	181			



NAVIGATOR® SERIES

Rugged, Multi-Purpose Balances for a Wide Range of General Weighing Applications

Display

Backlit liquid crystal display (LCD)

Communication

RS232, USB, or Ethernet (available as accessories)

Construction

ABS housing, stainless steel pan, transportation lock, menu and calibration lock switch, slip-resistant and adjustable feet, leveling bubble.

Design Features

Mechanical and software overload/underload protection, touchless sensor, user selectable print and communication options



Navigator offers essential weighing applications at a competitive price point.

Advanced weighing technology offers one-second stabilization for fast and accurate weighing results, improving operator efficiency, productivity and throughput.

Overload protection system that can withstand loads up to four times the rated capacity safeguards the balance.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
NV222	220g	0.01g	Ø145 mm / 5.7 in	30456410	371
NV422	420g	0.01g	Ø145 mm / 5.7 in	30456411	473
NV221	220g	0.1g	190 × 144 mm / 7.5 × 5.7 in	30456412	216
NV621	620g	0.1g	190 × 144 mm / 7.5 × 5.7 in	30456413	318
NV1201	1200g	0.1g	190 × 144 mm / 7.5 × 5.7 in	30456414	360
NV2201	2200g	0.1g	190 × 144 mm / 7.5 × 5.7 in	30456415	400
NVT2201	2200g	0.1g	230 × 174 mm / 9.1 × 6.9 in	30456416	400
NVT4201	4200g	0.1g	230 × 174 mm / 9.1 × 6.9 in	30456417	500
NVT2200	2200g	1.0g	230 × 174 mm / 9.1 × 6.9 in	30456418	376
NVT6200	6200g	1.0g	230 × 174 mm / 9.1 × 6.9 in	30456419	494
NVT12000	12000g	1.0g	230 × 174 mm / 9.1 × 6.9 in	30456420	535
NVT22000	22000g	1.0g	230 × 174 mm / 9.1 × 6.9 in	30456421	640

Accessories	Item No.	List Price (USD)
USB Interface	83032108	167
RS232 Interface	83032107	167
Ethernet Interface	83032109	167
Carrying Case	30467963	109
Adapter with plugs (EU-US-UK-AU-KR)	30467987	39



COMPASS™ CX

Energy-Efficient Portable Scale for Workplace and In-the-Field Weighing

Display

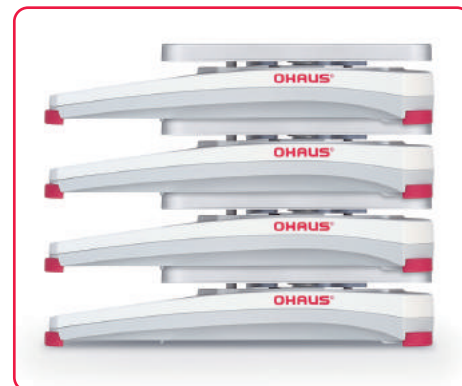
Liquid Crystal Display (LCD) with backlight

Construction

ABS housing, stainless steel pan, transportation lock, slip-resistant feet

Design Features

Stability indicator, mechanical and software overload/underload protection, low battery indicator, auto shut-off



Alkaline batteries provide up to 1,000 hours of continuous use, making for energy efficient weighing in the workplace, classroom, etc.

Large backlit display increases readability in low-light conditions and makes it easier to view results from a distance.

Slim, space-saving design allows for stackable storage for up to four scales.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
CX221	220 g	0.1 g	5.6 in × 5 in / 142 mm × 128 mm	30428199	168
CX221P*	220 g	0.1 g	5.6 in × 5 in / 142 mm × 128 mm	30467746	181
CX621	620 g	0.1 g	5.6 in × 5 in / 142 mm × 128 mm	30428200	174
CX1201	1,200 g	0.1 g	5.6 in × 5 in / 142 mm × 128 mm	30428201	184
CX2200	2,200 g	1 g	5.6 in × 5 in / 142 mm × 128 mm	30428202	168
CX2200P*	2,200 g	1 g	5.6 in × 5 in / 142 mm × 128 mm	30467747	181
CX5200	5,200 g	1 g	5.6 in × 5 in / 142 mm × 128 mm	30428203	198
CX5200F**	5,200 g	1 g	5.6 in × 5 in / 142 mm × 128 mm	30467762	228
CX5200P*	5,200 g	1 g	5.6 in × 5 in / 142 mm × 128 mm	30467761	198

*Models followed by the letter "P" include a postal chart

**Models followed by the letter "F" include a carrying case

Accessories	Item No.	List Price (USD)
Carrying Case	30467763	66
Bowl, 1050 mL	80850075	55
Adapter, 5V 1A, US plug	30330714	25
Adapter, 5V 1A, AU plug	30333865	26
Adapter, 5V 1A, UK plug	30333867	26
Carat Bowl XS	12102565	22
Carat Bowl	30020842	33



Weighing



Display Hold



Auto Shut-Off



Battery Power



Overload Protection



Shipping Lock



Stability Indicator



Stackable

COMPASS™ CR

Quality Portable Electronic Scales Suitable for Everyday Weighing

Display

Liquid crystal display (LCD)

Construction

ABS housing and pan, transportation lock, slip-resistant feet

Design Features

Mechanical and software overload/underload protection, auto shut-off



Intuitive two-button design makes for easy operation.

Slim, space-saving design allows for stackable storage.

Enlarged weighing platform can adequately handle large samples and a variety of objects.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
CR221	220 g	0.1 g	5.2 in × 5 in / 132 mm × 125 mm	30428204	117
CR621	620 g	0.1 g	5.2 in × 5 in / 132 mm × 125 mm	30428205	122
CR2200	2,200 g	1 g	5.2 in × 5 in / 132 mm × 125 mm	30428206	117
CR5200	5,200 g	1 g	5.2 in × 5 in / 132 mm × 125 mm	30428207	161

Accessories	Item No.	List Price (USD)
Carrying Case	30467763	66
Bowl, 1050 mL	80850075	55
Adapter with plugs (EU-US-UK-AU-KR)	30467987	39



HH SERIES

Convenient, Compact and Portable Weighing in a Functional Design

Display

Liquid crystal display (LCD)

Construction

ABS housing and pan, protective snap-on cover

Design Features

Overload/underload indicators, external push-button calibration



HH is available in capacities ranging from 120 g to 320g and is ideal for a variety of general, on-the-go weighing applications for many industries.

A backlit display illuminates the screen for viewing in dim lighting conditions, and a power-saving automatic shut-off feature conserves battery life.

Among HH's protective features are durable ABS housing and a snap-on cover for protection during storage and transportation.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
HH120	120 g	0.1 g	3.25 in x 3 in / 83 mm x 76 mm	71142842	228
HH120D	60 g / 120 g	0.2 g	3.25 in x 3 in / 83 mm x 76 mm	71142841	192
HH320	320 g	0.1 g	3.25 in x 3 in / 83 mm x 76 mm	71142844	284



PS SERIES

High Performance Portable Weighing in the Palm of Your Hand

Display

Liquid crystal display (LCD)

Construction

ABS housing and protective sliding pan

Design Features

Software overload/underload indicators, auto shut-off



The one-piece combination pan and cover slides back when being used to weigh and forward when not in use to protect the buttons and display during storage and transportation.

One of the smallest portable balances on the market, PS can easily fit in to a standard shirt pocket.

The "pop-out" design of the battery compartment provides simple and fast battery replacement.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
PS121	120 g	0.1 g	2.5 in x 2.5 in / 64 mm x 64 mm	80104060	75
PS251	250 g	0.1 g	2.5 in x 2.5 in / 64 mm x 64 mm	80104061	97



YA SERIES

Portable Precision Weighing in a Compact Case

Display

Backlit liquid crystal display (LCD)

Construction

ABS housing, stainless steel pan, protective cover

Design Features

Mechanical and software overload indicator, auto shut-off



A hinged cover, sturdy plastic housing and stainless steel weighing pan protect the small balance from damage.

With an extremely fast stabilization time, your results will appear quickly on the blue backlit LCD display.

Powered by two 'AAA' batteries, a power-saving auto shut-off feature helps to conserve battery life.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
YA102	100 g	0.01 g	2.8 in × 2 in / 70 mm × 50 mm	80251910	113
YA302	300 g	0.05 g	2.8 in × 2 in / 70 mm × 50 mm	80251911	98
YA501	500 g	0.1 g	2.8 in × 2 in / 70 mm × 50 mm	80251912	70

Weighing

Auto Shut-Off

Backlight

Battery Power

Hinged Cover

Low Battery Indicator

Overload/Underload Indicators



Moisture Analyzer Selector Guide



Moisture Analyzers				
	MB120	MB90	MB27	MB23
Weighing Capacity Range	120 g	90 g	90 g	110 g
Readability Range	0.001 g	0.001 g	0.001 g	0.01 g
Halogen	•	•	•	
Infrared				•
Color Graphics Display	•	•		
Backlit LCD			•	•
Touchscreen	•	•		
% Moisture	•	•	•	•
% Solids	•	•	•	•
External Calibration	•	•	•	•
GLP / Time / Date	•	•		
RS232	•	•	•	•
Temperature Range	40-230 °C	40-200 °C	50-160 °C	50-160 °C
Page No.	27	28	29	30

MB120

Faster, Smarter, More Efficient Moisture Analysis

Display

4.3" TFT color touchscreen display

Communication

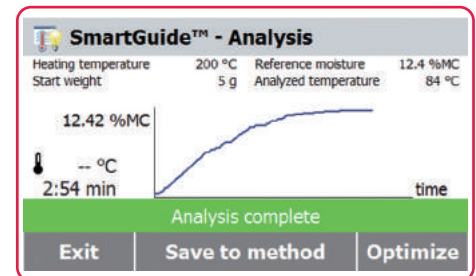
RS232, USB Host and USB Device (included)

Construction

Metal base, ABS top housing, halogen heat source, stainless steel pan support, stainless steel pan handler, in-use cover

Design Features

Seven shut-off criteria (manual, timed, autofree %/s, autofree mg/s, A30, A60 and A90), four drying profiles (standard, fast, ramp and step), storage for up to 100 methods and 1000 test results for all methods, temperature guide, 40 °C to 230 °C heating temperature range (1°C increments), 13 operational languages



The MB120 removes the guesswork and simplifies method creation and development; SmartGuide™ helps to analyze the sample and automatically create a method with the optimal drying temperature.

Removing a major roadblock to lab efficiency, the MB120 utilizes four pre-set drying profiles, customizable shut-off criteria, and drying temperatures up to 230 °C to reduce time and improve workflow.

Take control of your data with our internal memory capable of storing 100 methods and 1,000 measurements. Our intuitive User Management system makes exporting and sharing direct and simple.

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	List Price (USD)
MB120	120 g	1 mg	0.01%	90 mm	30241165	5105

Accessories	Item No.	List Price (USD)
Pan Holder, MB90 MB120	30246947	71
In-Use-Cover, Accessory, MB90 MB120	30284478	80
Scoop, Accessory, MB90 MB120	30284477	51
Temperature Calibration Kit	11113857	585
Anti-Theft Device	80850043	232
Pan, Aluminum, Set (80), MB Series	80850086	66
Filter, Glass Fiber, Set (200)	80850087	103

Accessories	Item No.	List Price (USD)
Cage, Sample, MB Series	80252477	104
Pan, Reusable, Set (3), 7 mm, MB Series	80252478	87
Pan, Reusable, Set (3), 14 mm, MB Series	80252479	91
Printer, Impact, SF40A	30064203	990
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Printer, Thermal, STP-103, US	80251992	760
Software, Winwedge	80850080	530



MB90

Combining Speed and Precision in One Moisture Analyzer —Test More Samples in Less Time

Display

4.3" TFT color touchscreen display

Communication

RS232 with GLP/GMP data output, USB Host and USB Device (included)

Construction

Metal base, ABS top housing, halogen heat source, stainless steel pan support, stainless steel pan handler, in-use cover

Design Features

Three shut-off criteria (manual, timed or auto), two drying profiles (standard and fast), storage for up to two methods, 40 °C to 200 °C heating temperature range (1°C increments), 13 operational languages



Halogen heating increases efficiency for faster results.

Intuitive touchscreen menu offers step-by-step guidance for any application.

Tool-free cleaning for easy maintenance.

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	List Price (USD)
MB90	90 g	1 mg	0.01%	90 mm	30241164	4020

Accessories	Item No.	List Price (USD)
Pan Holder, MB90 MB120	30246947	71
In-Use-Cover, Accessory, MB90 MB120	30284478	80
Scoop, Accessory, MB90 MB120	30284477	51
Temperature Calibration Kit	11113857	585
Anti-Theft Device	80850043	232
Pan, Aluminum, Set (80), MB Series	80850086	66
Filter, Glass Fiber, Set (200)	80850087	103

Accessories	Item No.	List Price (USD)
Cage, Sample, MB Series	80252477	104
Pan, Reusable, Set (3), 7 mm, MB Series	80252478	87
Pan, Reusable, Set (3), 14 mm, MB Series	80252479	91
Printer, Impact, SF40A	30064203	990
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Printer, Thermal, STP-103, US	80251992	760
Software, Winwedge	80850080	530



Moisture Analysis



Percent Moisture



Percent Solid



Weighing



Temperature



Audible Alerts



Auto Shut-Off



Backlight



GLP Data Output



GMP/GLP



Time/Date



Hinged Cover



Level Indicator



Leveling Feet



Multi-Language



Security Bracket



Stability Indicator



Software Lockout

MB27

The Affordable High Capacity Moisture Analyzer

Display

Backlit liquid crystal display (LCD)

Communication

RS232 (included)

Construction

Halogen heat source, ABS housing, metal pan support, metal pan handler, in-use cover

Design Features

3 shut off criteria (manual, timed or auto), 1 standard heating profile, 50° to 160 °C heating range (5 °C increments)



With 0.01%, 0.001g readability, the MB27 Moisture Analyzer is suitable for most applications.

Halogen heating and dual weight-temperature calibration provide fast, reliable results.

User-friendly touch-button design for easy operation.

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	List Price (USD)
MB27	90 g	1 mg	0.01%	90 mm	30251683	3000

Accessories	Item No.	List Price (USD)
Temp. Calibration Kit, MB Series	11113857	585
Holder, Pan, MB23 MB27	11113873	138
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US	80251992	760
In-Use-Cover, MB23 MB27	80252475	40
Pan Holder MB23 MB27	80252476	80
Cage, Sample, MB Series	80252477	104
Pan, Reusable, Set (3), 7 mm, MB Series	80252478	87

Accessories	Item No.	List Price (USD)
Pan, Reusable, Set (3), 14 mm, MB Series	80252479	91
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Cable, SF42-AV DV MB Ranger	80500571	193
Anti-Theft Device, MB AX EX	80850043	232
Software, Winwedge	80850080	530
Pan, Aluminum, Set (80), MB Series	80850086	66
Filter, Glass Fiber, Set (200)	80850087	103



MB23

Redefining Value in Moisture Analysis

Display

Backlit liquid crystal display (LCD)

Communication

RS232 (included)

Construction

Infrared heat source, ABS housing, metal pan support, metal pan handler, in-use cover

Design Features

3 shut off criteria (manual, timed or auto), 1 standard heating profile, 50° to 160 °C heating range (5 °C increments)



Glass-less infrared heating increases efficiency for faster results.

User-friendly touch-button design for easy operation.

Compact design suits any workspace.

Model	Capacity	Readability	Moisture Readability	Pan Size	Item No.	List Price (USD)
MB23	110 g	10 mg	0.10%	Ø 3.5 in / Ø 90 mm	83999801	3000

Accessories	Item No.	List Price (USD)
Temp. Calibration Kit, MB Series	11113857	585
Holder, Pan, MB23 MB27	11113873	138
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US	80251992	760
In-Use-Cover, MB23 MB27	80252475	40
Pan Holder MB23 MB27	80252476	80
Cage, Sample, MB Series	80252477	104
Pan, Reusable, Set (3), 7 mm, MB Series	80252478	87

Accessories	Item No.	List Price (USD)
Pan, Reusable, Set (3), 14 mm, MB Series	80252479	91
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Cable, SF42-AV DV MB Ranger	80500571	193
Anti-Theft Device, MB AX EX	80850043	232
Software, Winwedge	80850080	530
Pan, Aluminum, Set (80), MB Series	80850086	66
Filter, Glass Fiber, Set (200)	80850087	103



D500M

Economical Mechanical Bench Scale for Basic Industrial Applications

Display

Easy-to-read, dual-side flat beam with a shadow-proof poise

Construction

Epoxy painted steel, phenolic wheels



Heavy-duty mechanical epoxy-painted steel construction makes D500M highly durable for industrial applications.

Phenolic wheels allow for mobility and a beam lock is integrated to protect the indicator when the scale is in motion.

Counterpoise weights allow for a maximum capacity of 1,000 lbs.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D500M	1000 lb	0.5 lb	0.5 lb	28.13 in x 19.25 in / 714 mm x 489 mm	80252735	1455



Weighing



NTEP
Certified

HEAVY DUTY SOLUTION

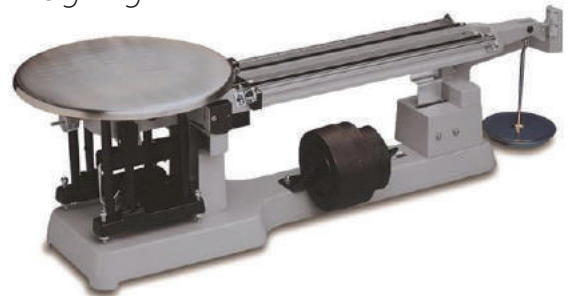
The Industry Standard for Precision and High Capacity Mechanical Weighing

Display

Front and rear indicator plate

Construction

Metal base and beam, stainless steel pan



Oversized stainless steel platform to accommodate large samples or containers.

A lockable Tare feature allows the operator to tare the balance once for multiple weighing procedures for containers up to 2270g.

Covers protect the self-aligning bearings which require little to no maintenance.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
1119-D0	20 kg	1 g	Ø 11 in / Ø 279 mm	80000000	2495

Accessories	Item No.	List Price (USD)
Weight Set, Metric, 1119-D0	80780008	248



Weighing

FIELD TEST

Accurate Weighing Even Under Adverse Conditions

Display

Sliding poise and graduated beam

Construction

Metal base and beam, oversized stainless steel pan

Design Features

Magnetic damping, positive load stops



The Field Test scale is available to provide weighing results rain or shine. Without the restrictions of connecting the scale to an outlet, weighing can be conducted in any setting.

The large stable pan will hold oversized samples without tipping, and the weighted base keeps the entire scale extremely steady.

The portable Field Test scale can be easily moved from location to location around your work site with the integrated carrying handle.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
2400-12	36 lb	0.01 lb	Ø 11 in / Ø 279 mm	80000038	1595
2400-11	16 kg	5 g	Ø 11 in / Ø 279 mm	80000008	1540



Weighing

TRIPLE BEAM PRO®

Best-in-Class Mechanical Balance

Display

Easy-to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Two notched and tiered beams, positive poise positioning, spring loaded zero adjust compensator, self-aligning beam design, magnetic damping to minimize oscillation and speed weighing, security loop, included weight set and storage compartment. Includes rod & clamp assembly for below balance weighing.



The unique, easy-grip carrying handle is ergonomically designed to allow for effortless movement around the classroom.

A convenient compartment provides a place to store the included weight set when not in use, preventing the weights from becoming lost.

Prevent theft and accidental dropping by securing the balance to a desk or bench top with the security loop or Kensington-type lock (sold separately).

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
TP2611 with Rod and Clamp	2610 g	0.1 g	5.8 in × 5.8 in / 147 mm × 147 mm	80621692	229
Accessories		Item No.	List Price (USD)		
Kit, Rod and Clamp		80780011	74		
Dust Cover, Triple Beam		80780017	40		
Weight Set, 2 × 1 kg, 1 × 500 g		80780108	72		
Anti-Theft Device, SP PA AV NV		80850000	89		
Anti-Theft Device, MB AX EX		80850043	232		

TRIPLE BEAM 700 SERIES

The Standard by Which All Other Mechanical Balances Are Measured

Display

Easy-to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Easy-to-read notched and tiered beams, self-aligning beam design, magnetic damping to minimize oscillation and speed weighing, zero adjust compensator



Superior magnetic damping provides stable results three times faster than any other three-beam balance on the market.

Five weighing pans of different sizes and designs can accommodate materials for a variety of weighing applications.

A counterbalancing knob provides quick zeroing of the balance while a self-aligning beam helps ensure accurate results.

Model	Triple Beam	Capacity	Readability	Pan Size	Pan Height	Pan Type	Item No.	List Price (USD)
720-00		610 g	0.1 g	12 in × 6 in / 30.5 mm × 152 mm	2.75 in / 70 mm	Polypropylene Scoop	80000032	341
720-S0		610 g	0.1 g	12 in × 7.4 in / 305 mm × 188 mm	1.7 in / 43 mm	Stainless Steel Scoop	80000033	396
710-00		610 g	0.1 g	Ø 6 in / Ø 152 mm	—	Removable Pan	80000011	290
750-S0		610 g	0.1 g	Ø 6 in / Ø 152 mm	—	Fixed Pan	80000012	159
760-00	•	610 g	0.1 g	Ø 6 in / Ø 152 mm	—	Fixed Pan	80000013	299
710-T0	•	610 g	0.1 g	Ø 6 in / Ø 152 mm	—	Removable Pan	80000031	354
730-00		610 g	0.1 g	Ø 9 in / Ø 229 mm	6 in / 152 mm	Animal Container	80000034	427

Accessories	Item No.	List Price (USD)
Subject Box	80000053	104
Scoop and Counter Weight	80780001	61
Scoop, PP, 0.8 l	80780006	40
Kit, Rod and Clamp	80780011	74
Scoop and Counter Weight, Poly	80780014	56
Scoop and Counter Weight, SST	80780015	131

Accessories	Item No.	List Price (USD)
Scoop and Counter Weight, 1.75 l	80780016	59
Dust Cover, Triple Beam	80780017	40
Weight Set, 2 × 1 kg, 1 × 500 g	80780108	72
Anti-Theft Device, SP PA AV NV	80850000	89
Clamp, Gas Cylinder	80850312	99



TRIPLE BEAM JUNIOR

All the Benefits of a Triple Beam, Just for Younger Students

Display

Easy to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Notched and tiered beams, magnetic damping, zero adjust compensator



The notched and tiered beams provide for easy reading of measurement results.

Prevent theft and accidental dropping by securing the balance to a desk or bench top with the security loop or Kensington-type lock (sold separately).

The zero adjust compensator ensures the balance is at zero and weighing results will be accurate.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
TJ611	610 g	0.1 g	Ø 5.9 in / Ø 150 mm	80252052	155
Accessories		Item No.	List Price (USD)		
Dust Cover, Triple Beam		80780017	40		
Anti-Theft Device, SP PA AV NV		80850000	89		



TRIPLE BEAM DIAL-O-GRAM® I600 SERIES

The Standard by Which All Others Are Measured

Display

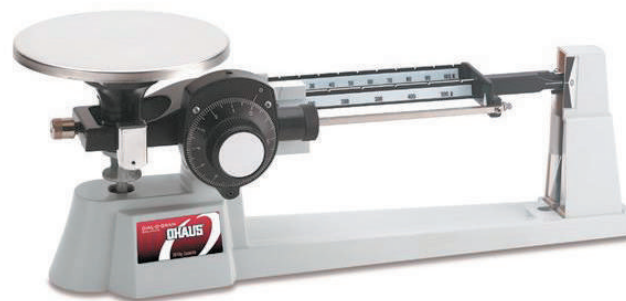
Easy-to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Counterbalancing knob for quick zeroing, positive poise positioning for repeatable results, self-aligning beam design, magnetic damping to minimize oscillation and speed weighing.



Superior magnetic damping provides three times faster stability reading than any other three-beam balance on the market.

Vernier dial convenience.

Counterbalancing knob for quick zeroing, self-aligning beam design.

Model	Tare Beam	Capacity	Readability	Pan Size	Pan Type	Item No.	List Price (USD)
1650-00	•	610 g	0.1 g	Ø 6 in / Ø 152 mm	Fixed Plate	80000006	374
1610-00	•	610 g	0.1 g	Ø 6 in / Ø 152 mm	Removable Pan	80000036	433
1650-W0	•	2610 g	0.1 g	Ø 6 in / Ø 152 mm	Fixed Plate and attachment weights	80000037	433

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Scoop, Flat Bottomed, SST, 0.6 l	80250400	74	Scoop and Counter Weight, 1.75 l	80780016	59
Scoop and Counter Weight	80780001	61	Dust Cover, Triple Beam	80780017	40
Scoop, PP, 0.8 l	80780006	40	Weight Set, 2 x 1 kg, 1 x 500 g	80780108	72
Kit, Rod and Clamp	80780011	74	Anti-Theft Device, SP PA AV NV	80850000	89
Scoop and Counter Weight, Poly	80780014	56	Clamp, Gas Cylinder	80850312	99
Scoop and Counter Weight, SST	80780015	131			



Weighing

DIAL-O-GRAM® AND CENT-O-GRAM® 300 SERIES

Extremely Precise Mechanical Balance with Precise Readability

Display

Easy-to-read deep-notched, tiered beams and dial plates

Construction

Metal base and beam, stainless steel pan

Design Features

Self-aligning beam design, magnetic damping to minimize oscillation and speed weighing, zero adjust compensator



With aluminum pressure castings for the base and beam assembly, agate bearings, steel knife-edges, and stainless steel pan, the Dial-O-Gram is built to the highest standard of quality.

The three-point base, special floating bearing principle and beam design eliminates the need for level adjustments.

The self-aligning beam ensures accurate results are garnered effortlessly.

Model	Capacity	Readability	Beams	Pan Size	Pan Height	Pan Type	Item No.	List Price (USD)
310-00	310 g	0.01 g	2 Beams with Dial	Ø 3.5 in / Ø 89 mm	0.5 in / 13 mm	Removable Pan	80000009	420
311-00	311 g	0.01 g	4 Beams	Ø 3.5 in / Ø 89 mm	0.5 in / 13 mm	Removable Pan	80000010	347

Accessories	Item No.	List Price (USD)
Dust Cover, Dial-O-Gram Cent-O-Gram	80780005	40
Anti-Theft Device, SP PA AV NV	80850000	89



HARVARD JUNIOR

Two Pan Balance Designed to Teach Comparative Weighing

Display

Steel pointer

Construction

ABS base, pans and bowls, metal beam

Design Features

Manual damping device, spring-loaded zero adjust compensator Includes teacher-developed activity guide



The easy-grip carrying handle will help students and teacher alike securely move the balances around the classroom.

The balances can be stacked to minimize the amount of storage space needed, and the lock feature protects the balance from damage when in storage.

An eight-piece weight set and bowls that fit on the weighing pans are included with every Harvard Junior.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
HJ2001	2000 g	0.5 g	Ø 6 in / Ø 150 mm	80252050	131

HARVARD TRIP®

Two Pan Balance Designed for Comparative Weighing

Display

Deep notched and tiered beams

Construction

All-metal base and beam, stainless steel pan

Design Features

Weight set (2000 g model, accessory sold separately), built-in sliding masses, magnetic damping, self-aligning beam design and floating agate bearings, counterbalancing knob for quick zeroing, hardened steel edges



The built-in sliding masses make weighing very simple and quick.

Magnetic damping minimizes oscillation and helps speed up weighing.

A counterbalancing knob provides quick zeroing of the balance while floating agate bearings help ensure accurate results.

Model	Capacity	Readability	Beams	Pan Size	Item No.	List Price (USD)
1450-SD	2000 g	0.1 g	Singe Beam	Ø 6.2 in / Ø 152 mm	80000003	387
1550-SD	2000 g	0.1 g	2 Beams	Ø 6.2 in / Ø 152 mm	80000004	415
1560-SD	2000 g	0.1 g	2 Beams and Tare Beam	Ø 6.2 in / Ø 152 mm	80000005	434

Accessories	Item No.	List Price (USD)
Scoop, PP, 0.8 l	80780006	40
Kit, Rod and Clamp	80780011	74
Scoop and Counter Weight, Poly	80780014	56
Scoop and Counter Weight, SST	80780015	131

Accessories	Item No.	List Price (USD)
Scoop and Counter Weight, 1.75 l	80780016	59
Anti-Theft Device, SP PA AV NV	80850000	89
Weight Set, 1 kg-1 g, ASTM 6, CYL	80850115	488
Dust Cover, Storage, Harvard	80850262	40



Weighing

SCHOOL BALANCE

The Young Scientist's First Balance

Display

Plastic pointer

Construction

ABS base, beam, and pans

Design Features

Zero adjust compensator



WARNING:
CHOKING HAZARD – Small parts.
Not for children under 3 yrs.

Large, washable pans provide optimal space for samples to be weighed.

18-piece, color coded stackable plastic mass set included.

Front and rear pointers allow students to view results from both sides of the balance.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
SB1200	2000 g	0.5 g	5.5 in × 5.5 in / 140 mm × 140 mm	80000029	67



PRIMER® BALANCE

The Scale for Budding Scientists

Display

Plastic pointer

Construction

ABS base, beam, and pans

Design Features

Large, washable weighing pans, dual pointers, 18 piece stackable plastic mass set



An activity guide with 16 exercises is included with every Primer balance.

The easy-to-slide zero adjustment weight makes ensuring the balance is ready for weighing very simple.

Front and rear pointers allow students to view results from both sides of the balance.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
80410-00	2000 g	1 g	4 in × 4 in / 102 mm × 102 mm	80000024	49



SPRING SCALES

Producing Reproducible Results at Unbeatable Prices

Display

Dial plates

Construction

ABS housing with metal face plate, pointer, spring and hook

Design Features

Large bright colored dial face, easy-to-read black graduations on a frosted aluminum background



Pull type spring scales feature an internal spring mechanism and offer a versatile and inexpensive way to display measurements in grams, ounces, pounds and Newtons.

Dial type spring scales offer a versatile and inexpensive weight determination in classrooms, laboratories, field studies and much more.

Demonstration spring scales offer a large faceplate for easy viewing and are ideal for all basic weighing applications.

Model	Capacity	Readability	Type	Item No.	List Price (USD)
8001-MA	9 oz / 250 g	0.25 oz / 10 g	Pull	80000039	24
8002-MA	18 oz / 500 g	0.5 oz / 20 g	Pull	80000041	24
8004-MA	72 oz / 2000 g	2 oz / 50 g	Pull	80000044	24
8001-MN	250 g / 2.5 N	10 g / 0.1 N	Pull	80000014	23
8002-MN	500 g / 5 N	20 g / 0.2 N	Pull	80000015	23
8003-MN	1000 g / 10 N	25 g / 0.25 N	Pull	80000016	23
8004-MN	2000 g / 20 N	50 g / 0.5 N	Pull	80000017	23
8008-MN	5000 g / 50 N	100 g / 1 N	Pull	80000018	23
8261-M0	100 g	1 g	Pull	80000025	26
8262-M0	200 g	2 g	Pull	80000026	26
8263-M0	500 g	5 g	Pull	80000027	26
8264-M0	1000 g	10 g	Pull	80000028	26
8265-M0	2000 g	20 g	Pull	80000052	26
8001-PN	0.56 lb / 2.5 N	0.02 lb / 0.1 N	Pull	80000040	27
8002-PN	1.12 lb / 5 N	0.04 lb / 0.2 N	Pull	80000042	27
8003-PN	2.25 lb / 10 N	0.05 lb / 0.25 N	Pull	80000043	27
8004-PN	4.5 lb / 20 N	0.125 lb / 0.5 N	Pull	80000045	27
8008-PN	11.25 lb / 50 N	0.25 lb / 1 N	Pull	80000046	27
8011-MA	9 oz / 250 g	0.125 oz / 2 g	Dial	80000047	37
8012-MA	18 oz / 500 g	0.25 oz / 5 g	Dial	80000048	37
8014-MA	2000 g / 72 oz	20 g / 0.5 oz	Dial	80000049	37
8011-MN	250 g / 2.5 N	2 g / 0.02 N	Dial	80000019	36
8012-MN	500 g / 5 N	5 g / 0.05 N	Dial	80000020	36
8014-MN	2000 g / 20 N	20 g / 0.2 N	Dial	80000022	36
8013-MN	1000 g / 10 N	10 g / 0.1 N	Dial	80000021	37
8016-00	20 N	1 / 2 N	Dial	80000023	72
8015-00	22 hg	1 / 2 hg	Dial	80000050	72
8018-50	50 N	2 N	Dial	80000051	80

OHAUS RELOADING SCALES

The Original OHAUS Reloading Scales are Back

Display

Notched cast metal beams with large markings for easy reading using poises.

Construction

Cast metal housing and beams, stainless steel fine poises, hardened steel beam pivots, agate bearings, hanging metal pan support, gold-colored scoops with handle and spout

Design Features

Scales include single leveling foot, ounce-to-grain conversion label for quick reference and large zero indicator.



Equipped with cast metal beams designed with widespaced deep notches to prevent accidental poise movement. Self-aligning agate bearings with steel beam pivots guarantee sensitivity to 0.1 grain.

Removable pan with handle and spout. Pan supports cradle the pan so that it doesn't tip off when weighing cases, loaded cartridges, arrows etc. Ounce to grain conversion labels for quick reference.

Die-cast bases with large leveling feet for extra stability and durable stainless steel poises. Mechanical design allows for use on the bench or at the practice range—battery or AC power not needed.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
5-0-2	505 grains	0.1 grains	2" diameter	30332165	96
5-0-5	511 grains	0.1 grains	2" diameter	30393272	108



Weighing

Industrial Weighing



OHAUS offers a full line of products designed for industrial applications, including sophisticated, newly released software for our most powerful products. From shipping scales up to 10,000 lb floor scales, OHAUS has a product for use in every area of your facility.



NEW

	Compact Bench Scales									Counting Scales			Modular Bench & Floor Scales					
	Ranger 7000	Ranger 4000	Ranger 3000	Valor 7000	Valor 4000	Valor 3000	Valor 2000	Valor 1000 (V12)	Catapult 1000	Ranger 7000	Ranger Count 4000	Ranger Count 3000	VX/VN Floor	Drum Scale	Defender 5000	Defender 3000	CKW	ES / SD
Weighing Capacity Range (lb)	6 to 150	6 to 60	3 to 60	3 to 60	3 to 30	0.4 to 13.2	3 to 60	6 to 60	20 to 165	6 to 150	6 to 60	3 to 60	2,500 to 10,000	500 to 2,500	5 to 1,000	30 to 660	6 to 60	13 to 440
lb, oz, lb:oz	All	All	All	All	All	All	All	All	lb	All	All	All	All	All	All	All	All	ES-all SD lb
kg or g	•	•	•	•	•	•	•	•	kg	•	•	•	•	•	•	•	•	ES-all SD - kg
Parts Counting	•	•	•							•	•	•	•	•	•	•	•	•
Checkweighing	•	•	•	•	•		•*			•	•	•		•	•		•	
Percent Weighing	•	•	•	•	•	•				•	•				•		•	
Display Hold / Dynamic Weighing	•	•	•							•	•			•	•		•	
Totalization / Accumulation		•	•	•	•						•	•		•	•		•	SD only
Barcode Scanner/ Label Printer Support	• / O**									• / O**					O / •‡			
NTEP Certified or Measurement Canada Approved	•	•	•	•	•	NTEP*				•	•	•	NTEP†		•	•	•	
Graphical Display	•									•					•			
LCD									•									•
Backlit LCD			•	•		•		•				•	•	•		•	•	
LED		•			•		•				•							
Numeric Keypad	•A									•A	•	•			•A		•A	
Metal	•	•								•	•		• Base	•* I	•* Base			
ABS			•	•	•*		•*	•	•			•	•* I		•* I	•*		•*
Stainless Steel					•*	•	•*						•* I		•* I	•*	•	•*
Washdown IP/ NEMA Rating					•8	65 / 4X*	•8								67 / 4X†	65 / 4X*	66 / 4X	
NSF Listed/ Certified				•	•	•	•	•									Base only	
RS232	•	•	•	•						•	•	•	•	•	•	•	•	
2 nd RS232	O	O	O	O						O	O	O			O		O	
RS485/422															O 485		O	
USB	•	O	O	O						•	O	O		O	O			
Ethernet	O	O	O	O						O	O	O		O	O			
AC or DC Relays / Digital I/O	O									O					O		O	
Wireless Connectivity															WiFi / Bluetooth			
GMP w/Time/Date	•									•					•		•	
Rechargeable Battery	O	•	•	•	•		•			O	•	•	•		O	•	O	
Disposable Batteries						•		•	•									•
Remote Scale Base Input	O									O							•	
Page No.	64	65	66	67	68	69	70	71	72	61	62	63	46, 47	45	50	56	49	59, 60

O Optional A Alphanumeric I Indicator *on specific models † by base chosen ‡ optional barcode scanner, free label printer support

** Barcode scanner support is included, Label Printer requires the 2nd RS232 port option

DEFENDER® 3000 DRUM SCALE

Convenient Portability with Floor Scale Capacity

Display

White backlit LCD display

Communication

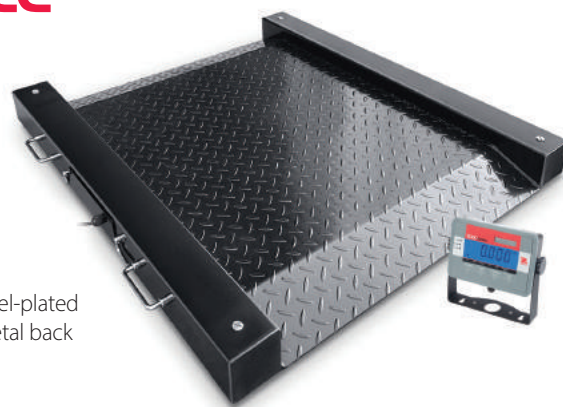
Standard RS232; Optional Ethernet or USB available with RS232 kits

Construction

Epoxy-painted carbon steel frame and treaded deck, top adjustable carbon steel feet, IP67 nickel-plated alloy steel shear beam loadcells, IP65 aluminum junction box, T32ME indicator with painted metal back and ABS faceplate, 19.8 ft indicator cord with stainless steel folding cord storage cleats.

Design Features

Easy mobility with integrated stainless steel folding handles and durable polyurethane wheels, indicator cord storage using folding stainless steel cleats on side of base. Indicator includes wall mount bracket. AC wall adapter power supply included.



Our Drum Scales come in 5 models with platform sizes ranging from 30 × 30 to 36 × 36 inch, and capacities ranging from 500 to 2,500 lb, giving you the flexibility to choose what best suits your weighing needs.

The OHAUS Drum Scales feature a platform constructed of mild steel with an epoxy paint finish, which means that the scale can stand up to heavy industrial use.

A low-profile design with front and back access ramps that make it easy to roll pallet jacks, dollies, carts & drums on to the platform. High-density polyurethane wheels provide convenient portability.

Model	Capacity	Readability	Platform Size	Item No.	List Price (USD)
DFD32M500ES	500 lb / 250 kg	0.1 lb / 0.05 kg	30 × 30 in / 762 × 762 mm	30469909	1570
DFD32M1000ES	1,000 lb / 500 kg	0.2 lb / 0.1 kg	30 × 30 in / 762 × 762 mm	30469910	1570
DFD32M2500ES	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	30 × 30 in / 762 × 762 mm	30469911	1570
DFD32M1000ER	1,000 lb / 500 kg	0.2 lb / 0.1 kg	36 × 36 in / 914 × 914 mm	30469912	1820
DFD32M2500ER	2,500 lb / 1,250 kg	0.5 lb / 0.2 kg	36 × 36 in / 914 × 914 mm	30469913	1820

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Interface Kit, RS232-USB	30304101	145	Column Kit, Floor Stand, Painted	30531244	199
Interface Kit, RS232-Ethernet	30304102	145	Column Kit, Floor Stand, Stainless Steel	30539553	399
Printer SF40A (includes RS232 cable)	30064203	990	RS232 Interface Cable to PC 25-pin	80500524	193
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760	Software, Winwedge	80850080	530
RS232 Interface Cable to PC 9-pin	80500525	193			



Accumulation



Check-weighing



Display Hold



Parts Counting



Weighing



Auto Shut-Off



Backlight



Environmental Filters



Overload/Underload Indicators



Stability Indicator

VX SERIES

Economical Floor Scale for Basic Industrial Applications

Display

Backlit liquid crystal display (LCD)

Communication

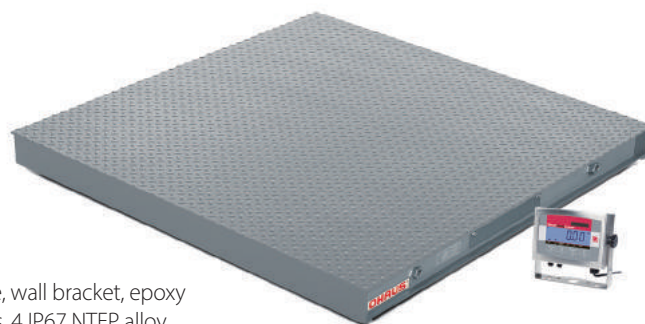
Easy access communication port with RS232 interface (included)

Construction

NEMA 4X/IP65 stainless steel indicator with hinged front-cover, 5mm fixed top plate, wall bracket, epoxy painted steel platform and frame, NEMA 4/IP67 plastic junction box with side access, 4 IP67 NTEP alloy steel load cells

Design Features

125% overload protection, hardwired internal AC power supply and internal rechargeable battery included.



VX is ruggedly constructed and includes an epoxy painted steel frame, a NEMA 4X/IP65 stainless steel indicator, NEMA 4X/IP67 sealed plastic junction box and IP67 sealed load cells.

The included internal rechargeable battery keeps the scale running and allows for placement of the platform away from outlets while the backlit LCD projects large 1" digits.

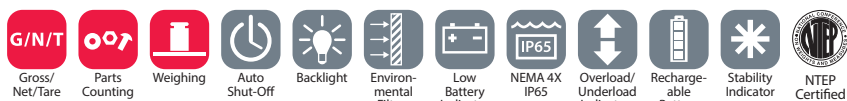
Weighing and counting modes produce results in five weighing units, and the included RS232 provides the ability to connect the scale to a printer or PC for data reporting purposes.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
VX32XW5000X	5000 lb / 2200 kg	1 lb / 0.5 kg	—	5 ft x 5 ft / 1,524 mm x 1,524 mm	80253296	3170
VX32XW10000L	10000 lb / 4500 kg	2 lb / 1 kg	—	4 ft x 4 ft / 1,219 mm x 1,219 mm	80253297	3505
VX32XW10000X	10000 lb / 4500 kg	2 lb / 1 kg	—	5 ft x 5 ft / 1,524 mm x 1,524 mm	80253298	3995
VX32XW2500L*	2500 lb / 1000 kg	0.5 lb / 0.2 kg	0.5 lb / 0.2 kg	4 ft x 4 ft / 1,219 mm x 1,219 mm	80253294	2770
VX32XW5000L*	5000 lb / 2200 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4 ft x 4 ft / 1,219 mm x 1,219 mm	80253295	2770

* Approved Model

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Foot Kit, Set (4), VX	80252545	121
Foot Plate, Set (2), Painted, VX	80252548	86
Column Kit, Floor Stand, Painted	30531244	199
Column Kit, Floor Stand, Stainless Steel	30539553	399
Ramp, 48 in wide x 48 in long, 2.5 K/5 K, VX	80252766	985
Ramp, 60 in wide x 48 in long, 5 K, VX	80252767	1240

Accessories	Item No.	List Price (USD)
Ramp, 48 in wide x 48 in long, 10 K, VX	80252795	2130
Ramp, 60 in wide x 48 in long, 10 K, VX	80252796	2355
Bolt Kit, Floor, VX	80252838	32
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Cable, RS232, CKW TxxXW	80500552	179
Software, Winwedge	80850080	530



VN SERIES

Economical Painted Steel Floor Scales for Basic Industrial Applications

Display

Backlit liquid crystal display (LCD)

Communication

Easy access communication port with RS232 interface

Construction

ABS plastic indicator, black painted steel treaded platform, NEMA 4X/IP65 stainless steel junction box with side access, IP67 NTEP alloy steel load cells, two carbon steel eye bolts, four self-swiveling ball-in-cup feet, black painted steel ramps and fixed location foot mounting plate kits (accessories sold separately)



Design Features

125% overload protection, AC wall adapter power supply and internal rechargeable battery included.

The durable VN is constructed of an epoxy painted steel frame, an ABS T31P indicator, NEMA 4X/IP65 sealed stainless steel junction box and IP67 sealed load cells.

With a rechargeable lead acid battery included with each VN, you can position the floor scale freely in the workspace without having to be forced to work near an outlet.

Painted steel ramps are available to be added to any VN platform, which provide bottom support ribs that prevent the platform from bending under heavy loads.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
VN31P5000L	5000 lb / 2500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4 ft x 4 ft / 1,219 mm x 1,219 mm	80252563	1795
VN31P5000X	5000 lb / 2500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	5 ft x 5 ft / 1,524 mm x 1,524 mm	80252564	2105

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Column Kit, Floor Stand, Painted	30531244	199	Ramp, 60 in wide x 26.4 in long, Painted, VN	80252566	905
Column Kit, Floor Stand, Stainless Steel	30539553	399	Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Printer, Impact, SF40A, AM	30064203	990	Software, Winwedge	80850080	530
Foot Plate, Set (2), Painted, VE VN	72198344	60	Interface Kit, RS232-USB	30304101	145
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760	Interface Kit, RS232-Ethernet	30304102	145
Ramp, 48 in wide x 26.4 in long, Painted, VN	80252565	800			



Gross/
Net/Tare



Weighing



Parts
Counting



Auto
Shut-Off



Backlight



Environ-
mental
Filters



Recharge-
able
Battery



NTEP
Certified

VN SERIES FLOOR SCALE PLATFORMS

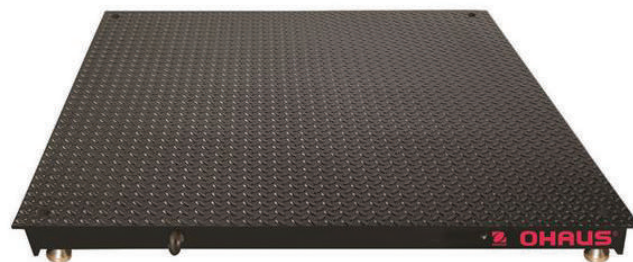
Basic Level Floor Scale Bases

Construction

Black painted steel platform, raised embossed treads, fixed top plate 5mm thick, four IP67 NTEP alloy steel load cells, NEMA 4X/IP65 stainless steel junction box with side access, self swiveling stainless steel ball in cup leveling feet.

Design Features

Ball-in-Cup Leveling Feet, Steel Eye Bolts for Easy Lifting and Positioning.



Durable epoxy painted steel frame and platform

NEMA4X/IP65 sealed stainless steel junction box

IP67 sealed loadcells

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
VN5000L	5000 lb / 2500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	4 ft x 4 ft / 1,219 mm x 1,219 mm	80252561	1550
VN5000X	5000 lb / 2500 kg	1 lb / 0.5 kg	1 lb / 0.5 kg	5 ft x 5 ft / 1,524 mm x 1,524 mm	80252562	1805



CKW CHECKWEIGHER

Advanced Checkweighing Bench Scale for Food Processing Use

Display

Large backlit liquid crystal display (LCD) with secondary information line. 3 Checkweighing LEDs for indicating under, OK or over target weight ranges.

Communication

Easy access communication port including RS232 (included) and 2nd RS232 or RS422/RS485 (accessories sold separately). External tare input included. GLP/GMP data output with real-time clock.

Construction

NEMA 4X/IP66 stainless steel indicator, 304 grade stainless steel platform with no visible threads, rounded corners, drain holes, extended skirt and open frame, IP67 stainless steel load cell, stainless steel column and wall bracket, level indicator.

Design Features

128 SKU memories, alphanumeric keypad, 150% overload capacity protection, five operating languages, NTEP Certified and Measurement Canada Approved, Alibi memory kit (accessory sold separately), Hardwired internal AC power supply included.



The CKW features multiple Checkweighing options including Positive, Negative, Zero or Net and statistical capabilities to provide accurate results for advanced Checkweighing needs.

The CKW's base is NSF Certified, supports HACCP-certified systems, and is safe for use in food processing applications.

The base's open framework can be thoroughly cleaned to eliminate the risk of contamination caused by residue build up.

Model	Protection Rating	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
CKW3R71XW	IP66 / NEMA4X	6 lb / 3 kg	0.001 lb / 0.5 g	0.002 lb / 1 g	10 in x 10 in / 254 mm x 254 mm	30448472	1915
CKW6R71XW	IP66 / NEMA4X	15 lb / 6 kg	0.002 lb / 1 g	0.005 lb / 2 g	10 in x 10 in / 254 mm x 254 mm	30448473	1915
CKW30L71XW	IP66 / NEMA4X	60 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	12 in x 12 in / 305 mm x 305 mm	30448475	2065

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US	80251992	760
PCBA Kit, Alibi Memory, R71 T71	80500503	123
Cable, RS232, CKW TxxXW	80500552	179
Relay Kit, AC, T51 T71	80500720	355
Wheel Kit, Defenders up to 600 lb / 300 kg capacity	30372146	134
Relay Kit, DC, T51 T71	80500727	305
Wall Mount Kit, SST, T51XW T71XW	80500735	84
Software, Winwedge	80850080	530



* Base Only



DEFENDER® 5000 WASHDOWN

Multifunctional Stainless Steel Washdown Bench Scales for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels, with on-screen checkweighing display

Communication

Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Discrete I/O.

Construction

All stainless steel platform, base frame, indicator, column and loadcell.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade, GMP/GLP output with time/date, EasyConnect connector allows fast set-up, Hardwired internal AC power supply included—optional internal rechargeable battery available.



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, frame, IP67 load cell and IP68 indicator. Defender meets NTEP or OIML/EC Type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D52XW2WQS6	5 lb / 2.5 kg	0.0002 lb / 0.1 g	0.001 lb / 0.5 g	10 × 10 in / 254 × 254 mm	30461673	1570
D52XW5WQS6	10 lb / 5 kg	0.0005 lb / 0.2 g	0.002 lb / 1 g	10 × 10 in / 254 × 254 mm	30461674	1570
D52XW12WQS6	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 5 g	10 × 10 in / 254 × 254 mm	30461675	1570
D52XW12WQR6	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 5 g	12 × 12 in / 305 × 305 mm	30461676	1705
D52XW25WQR6	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30461677	1705
D52XW50WQR6	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30461678	1705
D52XW25WQL7	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	18 × 18 in / 457 × 457 mm	30461679	2415
D52XW50WQL7	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30461680	2415
D52XW125WQL7	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	18 × 18 in / 457 × 457 mm	30461681	2415
D52XW50WTX7	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30461682	2655
D52XW125WTX7	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	18 × 24 in / 457 × 610 mm	30461683	2655
D52XW250WTX7	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30461684	2655
D52XW50WQV8	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30461685	3085
D52XW125WQV8	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	24 × 24 in / 610 × 610 mm	30461686	3085
D52XW250WQV8	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30461687	3195
D52XW500WQV8*	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	24 × 24 in / 610 × 610 mm	30461688	3195

* Aluminum IP67 loadcell

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167	In-use Cover set (10), TD52XW	30469949	222
Ethernet Kit, TD52	30429666	167	LC Extension Cable, 9 meters, D52	30424409	167
Analog Output Kit, TD52	30424403	167	M16 Gland with Ferrite, to TD52	30379716	21
I/O with Relay (2 In/4 Out)	30097591	155	Printer SF40A (includes RS232 cable)	30064203	990
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194	Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
WiFi/BT Dongle, OHAUS (requires 30424406)	30412537	231	Cable, RS232, CKW TxxXW	80500552	179
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135	Printer Holder Kit, D52	30424025	62
Battery Kit, Li-ion, TD52	30424405	200	Software, Winwedge	80850080	530
In-use Cover Set, TD52XW	30424023	28	Wheel Kit, Defenders up to 600 lb / 300 kg capacity	30372146	134



**Option

DEFENDER® 5000 WASHDOWN LOW PROFILE

Multifunctional Stainless Steel Washdown Bench Scales for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels, with on-screen checkweighing display

Communication

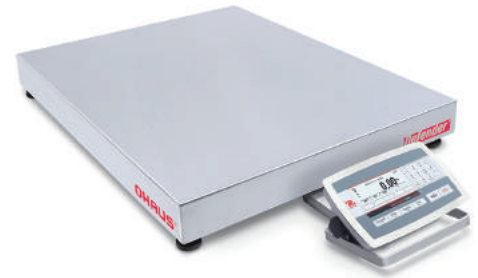
Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Discrete I/O.

Construction

All stainless steel platform, base frame, indicator, indicator front mount and loadcell.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade, GMP/GLP output with time/date, EasyConnect connector allows fast set-up, Hardwired internal AC power supply included—optional internal rechargeable battery available.



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

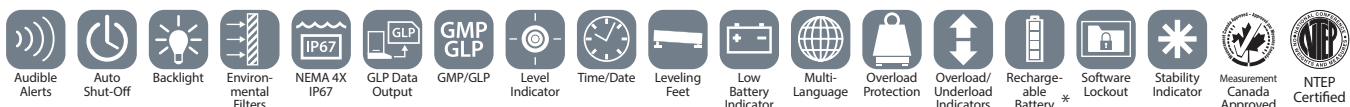
Durable construction with a stainless steel platform, frame, IP67 load cell and IP68 indicator. Defender meets NTEP or OIML/EC Type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D52XW2WQS5	5 lb / 2.5 kg	0.0002 lb / 0.1 g	0.001 lb / 0.5 g	10 × 10 in / 254 × 254 mm	30461661	1615
D52XW5WQS5	10 lb / 5 kg	0.0005 lb / 0.2 g	0.002 lb / 1 g	10 × 10 in / 254 × 254 mm	30461662	1615
D52XW12WQS5	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 5 g	10 × 10 in / 254 × 254 mm	30461663	1615
D52XW12WQR5	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 5 g	12 × 12 in / 305 × 305 mm	30461664	1750
D52XW25WQR5	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30461665	1750
D52XW50WQR5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30461464	1750
D52XW25WQL5	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	18 × 18 in / 457 × 457 mm	30461465	2210
D52XW50WQL5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30461466	2210
D52XW125WQL5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	18 × 18 in / 457 × 457 mm	30461467	2210
D52XW50WTX5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30461668	2585
D52XW125WTX5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	18 × 24 in / 457 × 610 mm	30461669	2585
D52XW250WTX5	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30461670	2585
D52XW50WQV5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30461671	2965
D52XW125WQV5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	24 × 24 in / 610 × 610 mm	30461672	2965

Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167
Ethernet Kit, TD52	30429666	167
Analog Output Kit, TD52	30424403	167
I/O with Relay (2 In/4 Out)	30097591	155
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	231
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135
Battery Kit, Li-ion, TD52	30424405	200
In-use Cover Set, TD52XW	30424023	28
In-use Cover set (10), TD52XW	30469949	222

Accessories	Item No.	List Price (USD)
LC Extension Cable, 9 meters, D52	30424409	167
M16 Gland with Ferrite, to TD52	30379716	21
Wall Mount Kit, SST, TD52XW	30424026	84
Printer SF40A (includes RS232 cable)	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, CKW TxxXW	80500552	179
Printer Holder Kit, D52	30424025	62
Software, Winwedge	80850080	530
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134



*Option

DEFENDER® 5000

Multifunctional Bench Scales for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels, with on-screen checkweighing display

Communication

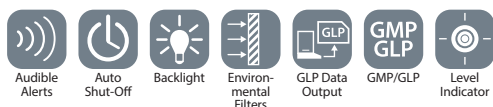
Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Discrete I/O.

Construction

Stainless steel platform, powder-coated steel base frame and column, aluminum loadcell and stainless steel indicator.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade, GMP/GLP output with time/date, EasyConnect connector allows fast set-up, hardwired internal AC power supply included—optional internal rechargeable battery available.



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame and aluminum load cell. Defender meets NTEP/Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.



*Option

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D52XW12RQR1	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 12 in / 305 × 305 mm	30461689	1615
D52XW25RQR1	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30461690	1615
D52XW50RQR1	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30461691	1615
D52XW12RTR1	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 14 in / 305 × 355 mm	30461692	1615
D52XW25RTR1	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 14 in / 305 × 355 mm	30461693	1615
D52XW50RTR1	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 14 in / 305 × 355 mm	30461694	1615
D52XW50RQL2	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30461695	1940
D52XW125RQL2	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 18 in / 457 × 457 mm	30461696	1940
D52XW50RTX2	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30461697	2045
D52XW125RTX2	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 24 in / 457 × 610 mm	30461698	2045
D52XW250RTX2	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30461699	2045
D52XW50RQV3	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30461700	2210
D52XW125RQV3	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	24 × 24 in / 610 × 610 mm	30461701	2210
D52XW250RQV3	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30461702	2265
D52XW500RQV3	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	24 × 24 in / 610 × 610 mm	30461703	2265
D52XW125RTV3	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	23.6 × 31.5 in / 600 × 800 mm	30461704	2745
D52XW250RTV3	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	23.6 × 31.5 in / 600 × 800 mm	30461705	2745
D52XW500RTV3	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	23.6 × 31.5 in / 600 × 800 mm	30461706	2745

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167	In-use Cover set (10), TD52XW	30469949	222
Ethernet Kit, TD52	30429666	167	LC Extension Cable, 9 meters, D52	30424409	167
Analog Output Kit, TD52	30424403	167	M16 Gland with Ferrite, to TD52	30379716	21
I/O with Relay (2 In/4 Out)	30097591	155	Printer SF40A (includes RS232 cable)	30064203	990
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194	Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	231	Cable, RS232, CKW TxxXW	80500552	179
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135	Printer Holder Kit, D52	30424025	62
Battery Kit, Li-ion, TD52	30424405	200	Software, Winwedge	80850080	530
In-use Cover Set, TD52XW	30424023	28	Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134

DEFENDER® 5000

Multifunctional Bench Scales for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels, with on-screen checkweighing display

Communication

Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Discrete I/O.

Construction

Stainless steel platform, powder-coated steel base frame and column, aluminum loadcell and ABS plastic indicator.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade, GMP/GLP output with time/date, EasyConnect connector allows fast set-up, internal AC power supply with line cord included—optional internal rechargeable battery available.



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame and aluminum load cell. Defender meets NTEP/Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D52P12RQR1	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 12 in / 305 × 305 mm	30461630	1450
D52P25RQR1	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30461631	1450
D52P50RQR1	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30461632	1450
D52P12RTR1	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 14 in / 305 × 355 mm	30461633	1450
D52P25RTR1	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 14 in / 305 × 355 mm	30461634	1450
D52P50RTR1	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 14 in / 305 × 355 mm	30461635	1450
D52P50RQL2	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30461636	1770
D52P125RQL2	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 18 in / 457 × 457 mm	30461637	1770
D52P50RTX2	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30461638	1875
D52P125RTX2	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 24 in / 457 × 610 mm	30461639	1875
D52P250RTX2	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30461640	1875
D52P50RQV3	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30461641	2035
D52P125RQV3	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	24 × 24 in / 610 × 610 mm	30461642	2035
D52P250RQV3	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30461643	2200
D52P500RQV3	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	24 × 24 in / 610 × 610 mm	30461644	2200
D52P125RTV3	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	23.6 × 31.5 in / 600 × 800 mm	30461645	2575
D52P250RTV3	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	23.6 × 31.5 in / 600 × 800 mm	30461646	2575
D52P500RTV3	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	23.6 × 31.5 in / 600 × 800 mm	30461647	2575

Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167
Ethernet Kit, TD52	30429666	167
Analog Output Kit, TD52	30424403	167
I/O with Relay (2 In/4 Out)	30097591	155
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	231
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135
Battery Kit, Li-ion, TD52	30424405	200
In-use Cover Set, TD52P	30424022	21
Zebra Label Printer GK420T	30611855	729

Accessories	Item No.	List Price (USD)
In-use Cover set (10), TD52P	30469948	167
LC Extension Cable, 9 meters, D52	30424409	167
M16 Gland with Ferrite, to TD52	30379716	21
Printer SF40A (includes RS232 cable)	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
RS232 Interface Cable to PC 9-pin	80500525	193
Printer Holder Kit, D52	30424025	62
Software, Winwedge	80850080	530
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134
Datalogic Barcode Scanner QD2131 (requires 30572923)	30593703	191

DEFENDER® 5000 LOW PROFILE

Multifunctional Bench Scales for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels, with on-screen checkweighing display

Communication

Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Discrete I/O.

Construction

Stainless steel platform, powder-coated steel base frame and column, aluminum loadcell and stainless steel indicator.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade, GMP/GLP output with time/date, EasyConnect connector allows fast set-up, hardwired internal AC power supply included—optional internal rechargeable battery available.



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets NTEP/Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D52XW12RQR5	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 12 in / 305 × 305 mm	30467608	1535
D52XW25RQR5	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30467609	1535
D52XW50RQR5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30467610	1535
D52XW12RTR5	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 14 in / 305 × 355 mm	30467611	1590
D52XW25RTR5	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 14 in / 305 × 355 mm	30467612	1590
D52XW50RTR5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 14 in / 305 × 355 mm	30467613	1590
D52XW50RQL5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30467614	1830
D52XW125RQL5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 18 in / 457 × 457 mm	30467615	1830
D52XW50RTX5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30467616	1940
D52XW125RTX5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 24 in / 457 × 610 mm	30467617	1940
D52XW250RTX5	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30467618	1940
D52XW50RQV5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30467619	2045
D52XW125RQV5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	24 × 24 in / 610 × 610 mm	30467620	2045
D52XW250RQV5	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30470990	2045
D52XW125RTV5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	23.6 × 31.5 in / 600 × 800 mm	30467621	2425

Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167
Ethernet Kit, TD52	30429666	167
Analog Output Kit, TD52	30424403	167
I/O with Relay (2 In/4 Out)	30097591	155
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	231
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135
Battery Kit, Li-ion, TD52	30424405	200
In-use Cover Set, TD52XW	30424023	28

Accessories	Item No.	List Price (USD)
In-use Cover set (10), TD52XW	30469949	222
LC Extension Cable, 9 meters, D52	30424409	167
M16 Gland with Ferrite, to TD52	30379716	21
Printer SF40A (includes RS232 cable)	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, CKW TxxXW	80500552	179
Printer Holder Kit, D52	30424025	62
Software, Winwedge	80850080	530
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134



*Option

DEFENDER® 5000 LOW PROFILE

Multifunctional Bench Scales for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels, with on-screen checkweighing display

Communication

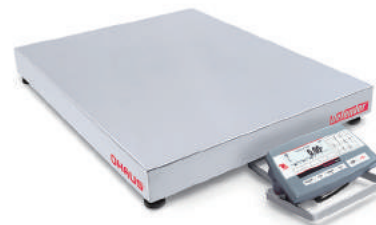
Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Discrete I/O.

Construction

Stainless steel platform, powder-coated steel base frame and column, aluminum loadcell and ABS plastic indicator.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade, GMP/GLP output with time/date, EasyConnect connector allows fast set-up, internal AC power supply with line cord included—optional internal rechargeable battery available.



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets NTEP/Measurement Canada or OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D52P12RQR5	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 12 in / 305 × 305 mm	30461648	1340
D52P25RQR5	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30461649	1340
D52P50RQR5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30461650	1340
D52P12RTR5	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 14 in / 305 × 355 mm	30461651	1395
D52P25RTR5	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 14 in / 305 × 355 mm	30461652	1395
D52P50RTR5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 14 in / 305 × 355 mm	30461653	1395
D52P50RQL5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30461654	1635
D52P125RQL5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 18 in / 457 × 457 mm	30461655	1635
D52P50RTX5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30461656	1715
D52P125RTX5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 24 in / 457 × 610 mm	30461657	1715
D52P250RTX5	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30461658	1715
D52P50RQV5	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30461659	1825
D52P125RQV5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	24 × 24 in / 610 × 610 mm	30461660	1825
D52P250RQV5	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30467606	1825
D52P125RTV5	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	23.6 × 31.5 in / 600 × 800 mm	30467607	2415

Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167
Ethernet Kit, TD52	30429666	167
Analog Output Kit, TD52	30424403	167
I/O with Relay (2 In/4 Out)	30097591	155
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	231
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135
Battery Kit, Li-ion, TD52	30424405	200
In-use Cover Set, TD52P	30424022	21
Zebra Label Printer GK420T	30611855	729

Accessories	Item No.	List Price (USD)
In-use Cover set (10), TD52P	30469948	167
LC Extension Cable, 9 meters, D52	30424409	167
M16 Gland with Ferrite, to TD52	30379716	21
Printer SF40A (includes RS232 cable)	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
RS232 Interface Cable to PC 9-pin	80500525	193
Printer Holder Kit, D52	30424025	62
Software, Winwedge	80850080	530
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134
Datalogic Barcode Scanner QD2131 (requires 30572923)	30593703	191



*Option

DEFENDER® 3000 WASHDOWN

Economical Stainless Steel Bench Scales for Basic Industrial Washdown Applications

Display

Backlit liquid crystal display (LCD)

Communication

Easy access communication port with RS232 interface (included)

Construction

IP65 stainless steel indicator with hinged front cover, stainless steel column and wall bracket, 304 grade stainless steel platform with steel tubular frame, IP67 stainless steel load cell

Design Features

125% overload protection, NTEP Certified and Measurement Canada Approved, Hardwired internal AC power supply and internal rechargeable battery included.



30 lb model available

The NEMA 4X/IP66 stainless steel indicator is built to endure tough industrial elements. The 58-hour rechargeable battery offers continuous operation for multi-day operations.

Durable construction with a 304 stainless steel platform, stainless steel tubular frame, column and indicator bracket, and IP67 stainless steel load cell.

Easy-to-read display & basic counting mode allow for simple operation for everyday basic industrial applications. Offered with NTEP/Measurement Canada or OIML/EC Type approvals (depending on region).

Model	Protection Rating	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D32XW15VR	IP65; NEMA 4X	30 lb / 15 kg	0.005 lb / 2 g	0.01 lb / 5g	14 in x 12 in / 355 mm x 305 mm	30369114	1470
D32XW30VR	IP65; NEMA 4X	66 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	14 in x 12 in / 355 mm x 305 mm	83999817	1470
D32XW60VR	IP65; NEMA 4X	132 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	14 in x 12 in / 355 mm x 305 mm	83999818	1470
D32XW60VL	IP65; NEMA 4X	132 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	21.7 in x 16.5 in / 550 mm x 420 mm	83999819	1850
D32XW150VL	IP65; NEMA 4X	330 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	21.7 in x 16.5 in / 550 mm x 420 mm	83999820	1850
D32XW150VX	IP65; NEMA 4X	330 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	25.6 in x 19.7 in / 650 mm x 500 mm	83999821	2435
D32XW300VX	IP65; NEMA 4X	660 lb / 300 kg	0.1 lb / 50 g	0.2 lb / 100 g	25.6 in x 19.7 in / 650 mm x 500 mm	83999822	2435

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, CKW TxxXW	80500552	179
Software, Winwedge	80850080	530
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134



DEFENDER® 3000

Economical Bench Scales for Basic Industrial Applications

Display

Backlit liquid crystal display (LCD)

Communication

Easy access communication port with RS232 interface (included)

Construction

ABS indicator with reversible rear cover, 304 grade stainless steel platform with painted steel tubular frame, IP67 aluminum load cell, self-adjusting stainless steel feet with removable rubber caps. Regular models have painted steel column and wall bracket, front mount models (Model ends in 5) have painted front mount.

Design Features

125% overload protection, NTEP Certified and Measurement Canada Approved, AC wall adapter power supply and internal rechargeable battery included.



30 lb model available



Durable ABS plastic terminal houses a 100-hour rechargeable battery which allows for continuous operation for five straight days.

This tough industrial scale features a 304 stainless steel platform, painted steel tubular frame, aluminum load cell, and painted steel base mount bracket. Includes a handle for easy scale mobility.

Easy-to-read display & basic counting mode allow for simple operation for everyday basic industrial applications. Offered with NTEP/Measurement Canada or OIML/EC Type approvals (depending on region).

Model	Mount	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D31P15BR	Column	30 lb / 15 kg	0.005 lb / 2 g	0.01 lb / 5 g	14 in x 12 in / 355 mm x 305 mm	30369116	820
D31P30BR	Column	66 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	14 in x 12 in / 355 mm x 305 mm	83998111	820
D31P60BR	Column	132 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	14 in x 12 in / 355 mm x 305 mm	83998112	820
D31P60BL	Column	132 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	21.7 in x 16.5 in / 550 mm x 420 mm	83998113	1005
D31P150BL	Column	330 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	21.7 in x 16.5 in / 550 mm x 420 mm	83998114	1005
D31P150BX	Column	330 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	25.6 in x 19.7 in / 650 mm x 500 mm	83998115	1065
D31P300BX	Column	660 lb / 300 kg	0.1 lb / 50 g	0.2 lb / 100 g	25.6 in x 19.7 in / 650 mm x 500 mm	83998116	1065
D31P15BR5	Front	30 lb / 15 kg	0.005 lb / 2 g	0.01 lb / 5 g	14 in x 12 in / 355 mm x 305 mm	30490640	685
D31P30BR5	Front	66 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	14 in x 12 in / 355 mm x 305 mm	30490641	685
D31P60BR5	Front	132 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	14 in x 12 in / 355 mm x 305 mm	30490642	685
D31P60BL5	Front	132 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	21.7 in x 16.5 in / 550 mm x 420 mm	30490643	790
D31P150BL5	Front	330 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	21.7 in x 16.5 in / 550 mm x 420 mm	30490644	790

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530
Interface Kit, RS232-USB	30304101	145
Interface Kit, RS232-Ethernet	30304102	145
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134
Handle Kit, D3K	30381321	102



DEFENDER® DIGITAL FIELD TEST SCALE

Portable Precision Ready for the Field

Display

Backlit LCD display

Communication

Standard RS232; Optional Ethernet or USB available with RS232 kits

Construction

Painted steel base, ABS plastic indicator, metal carrying case

Design Features

Bright backlit display, internal rechargeable battery with 70 hours use between recharges, metal case with locking latches, 9 ft. indicator cord to base, 9ft. cord from AC adapter to indicator, in-use cover included, AC wall adapter power supply and internal rechargeable battery included.



A capacity of 165 lb with a readability of 0.05 lb and the painted steel base in a case means that the Digital Field Test Scale provides precise, clear measurements, no matter where you're working.

The Field Test Scale comes packaged in a durable metal carrying case with steel latches and carrying handle, ensuring maximum portability for use anywhere on the job - without limiting you to the lab.

The backlit LCD display allows for easy reading of results - even in low-light conditions. The internal battery means that you can operate for up to 70 hours between recharges.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
D31P75SD	165 lb / 75 kg	0.05 lb / 0.02 kg	12.4 × 11 in / 316 × 280 mm	30448500	380

Accessories	Item No.	List Price (USD)
Interface Kit, RS232-USB	30304101	145
Interface Kit, RS232-Ethernet	30304102	145
Printer SF40A (includes RS232 cable)	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
RS232 Interface Cable to PC 9-pin	80500525	193
Software, Winwedge	80850080	530



ES SERIES

Multipurpose Low Profile Shipping Scale

Display

Liquid crystal display (LCD)

Construction

ABS indicator, stainless steel platform, painted steel frame, 3 way mounting bracket

Design Features

Auto-zero tracking, auto shut-off, AC wallpack power supply (included) or disposable battery power.

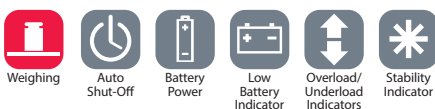


With different size low-profile platforms, there are ES scales that can accommodate weighing loads of different shapes and sizes.

The three-way mounting bracket allows you to mount the indicator to the scale base, above the scale platform, or on any vertical surface for maximum flexibility.

The sturdy and durable ES has a stainless steel platform and painted steel frame.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
ES6R	13 lb / 6 kg	0.005 lb / 0.002 kg	12.2 in × 10.8 in / 310 mm × 270 mm	71138830	865
ES30R	66 lb / 30 kg	0.05 lb / 0.01 kg	12.2 in × 10.8 in / 310 mm × 270 mm	71138831	865
ES50R	110 lb / 50 kg	0.05 lb / 0.02 kg	12.2 in × 10.8 in / 310 mm × 270 mm	71138832	865
ES50L	110 lb / 50 kg	0.05 lb / 0.02 kg	20.5 in × 15.7 in / 520 mm × 400 mm	71138833	920
ES100L	220 lb / 100 kg	0.1 lb / 0.05 kg	20.5 in × 15.7 in / 520 mm × 400 mm	71138834	920
ES200L	440 lb / 200 kg	0.2 lb / 0.1 kg	20.5 in × 15.7 in / 520 mm × 400 mm	71138835	920



SD SERIES

Rugged Economical Shipping Scales

Display

Liquid crystal display (LCD)

Construction

ABS indicator, painted steel base, raised, embossed painted steel tread platform (non-L models), rubber feet (adjustable on L models), mounting brackets, transportation handle, extendable coiled cable

Design Features

Transportation handle on packaging (non-L models), AC wallpack power supply (included) or disposable battery power.



WeighAlert mode available



The SD is available in three capacities of 35 kg, 75 kg and 200 kg and two platform sizes to meet the weighing needs of jobs of different physical sizes and capacities.

SD not only provides accurate general weight determination but also has the software to support dynamic/animal weighing and display hold.

New WeighAlert mode flashes weight display when weight on platform is greater than 70lb and less than 151lb, alerting user that package is too heavy for USPS service but below Less-Than-Truckload (LTL) limit for shipping.

Model	Capacity	Readability	Pan Size	Item No.	List Price (USD)
SD35	77 lb / 35 kg	0.05 lb / 0.02 kg	12.4 in x 11 in / 316 mm x 280 mm	83998234	237
SD75	165 lb / 75 kg	0.1 lb / 0.05 kg	12.4 in x 11 in / 316 mm x 280 mm	83998235	253
SD75L	165 lb / 75 kg	0.1 lb / 0.05 kg	20.5 in x 15.7 in / 520 mm x 400 mm	83998236	412
SD200	440 lb / 200 kg	0.2 lb / 0.1 kg	12.4 in x 11 in / 316 mm x 280 mm	83998237	295
SD200L	440 lb / 200 kg	0.2 lb / 0.1 kg	20.5 in x 15.7 in / 520 mm x 400 mm	83998238	444



Display Hold



Dynamic Weighing



Weighing



Auto Shut-Off



Battery Power



Low Battery Indicator



Overload/Underload Indicators



Stability Indicator

RANGER® 7000

Simplifying Even the Most Complex Industrial Applications

Display

4.3" (109 mm) Full-color WQVGA graphic display with user-controlled brightness

Communication

Easy access communication port including standard USB and RS232 (included) and an optional third port of RS232 or Ethernet (accessories sold separately). GLP/GMP Data Output with Real Time Clock. Data Transfer Function.

Construction

Modular design, die-cast housing, removable stainless steel platform, integral weigh below hook, menu lock switch, level indicator

Design Features

Checkweighing lights with selectable operation and audible signal settings, several selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable brightness settings, auto-dim, auto-sleep, auto tare, chain tare, Internal AC power supply with line cord included, or optional internal rechargeable battery available.



With added Counting Features

Simplify complex applications and minimize the need for manual calculations with 10 advanced application modes, peripheral device control and an optional kit for a second scale platform.

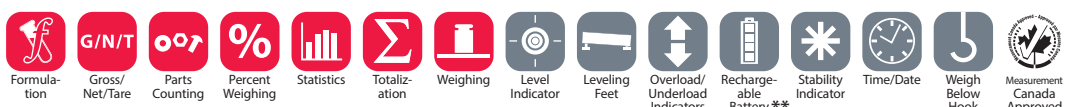
The most precise scale in its class with one-second stabilization time, up to 75,000d or 350,000d display resolution and legal-for-trade certifications.

Extremely durable scale designed to thrive in rugged industrial environments. Features IP54-rated metal housing and sealed metal terminal.

Model	InCal™	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
R71MD3		6 lb / 3 kg	0.0001 lb / 0.05 g	0.001 lb / 0.5 g	11 in × 11 in / 280 mm × 280 mm	30070289	1920
R71MD6		15 lb / 6 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	11 in × 11 in / 280 mm × 280 mm	30070310	1920
R71MD15		30 lb / 15 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	12.2 in × 14.8 in / 311 mm × 377 mm	30070311	1920
R71MD35		70 lb / 35 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	12.2 in × 14.8 in / 311 mm × 377 mm	30070312	1920
R71MD60		150 lb / 60 kg	0.002 lb / 1 g	0.02 lb / 10 g	12.2 in × 14.8 in / 311 mm × 377 mm	30212873	1920
R71MHD3	•	6 lb / 3 kg	0.00002 lb / 0.01 g	0.0002 lb / 0.1 g	9.4 in × 9.4 in / 240 mm × 240 mm	30088840	3015
R71MHD6	•	15 lb / 6 kg	0.00005 lb / 0.02 g	0.0005 lb / 0.2 g	9.4 in × 9.4 in / 240 mm × 240 mm	30088841	3355
R71MHD15	•	30 lb / 15 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	12.2 in × 14.8 in / 311 mm × 377 mm	30088842	4435
R71MHD35	•	70 lb / 35 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	12.2 in × 14.8 in / 311 mm × 377 mm	30088843	5345

Accessories	Item No.	List Price (USD)
Ethernet Kit, R31 RC31 R71 V71	30037447	155
RS232 Kit, R31 RC31 R71 V71	30037448	155
Rechargeable Battery, EX-HiCap R71	30041295	388
Printer, Impact, SF40A, AM	30064203	990
Column Kit, Painted, R71	30095408	155
PCBA Kit, 2 nd Platform, R71	30097590	156
Zebra Label Printer GK420T (requires 30037448)	30611855	729
Datalogic Barcode Scanner QD2131	30593703	191

Accessories	Item No.	List Price (USD)
Discrete I/O Kit, 2-In/4-Out, R71	30097591	155
Cable, Extension, 9m, R71	30101495	109
PCBA Kit, Alibi Memory, R71 T71	80500503	123
Accessory, In Use Cover, R71	30135320	46
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530



* Not in parts counting mode
** Option

RANGER® COUNT 4000

The Best Value for Durable Industrial Counting

Display

3 window backlit liquid crystal display (LCD), 3 color Checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

Rugged Cast Aluminum Housing, Stainless Steel Platform

Design Features

Cast Aluminum Housing, stainless steel platform, sealed front panel, menu lockswitch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare, Internal AC power supply with line cord and internal rechargeable battery included.



Sturdy metal housing and slip-resistant rubber feet provide the protection, stability and long product life needed for tough industrial weighing.

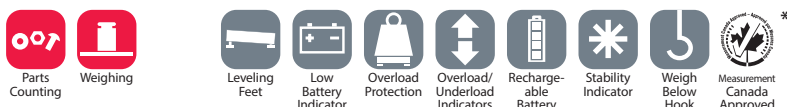
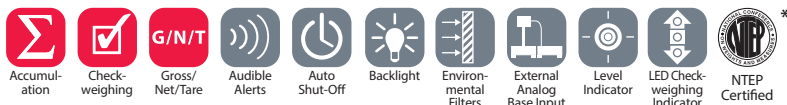
Accurate weighing and counting performance is assured with 1:1,500,000 internal counting resolution and auto-optimization software that reduces errors.

Easy to operate with SmarText™ software, a centrally located count display and dedicated Sample and Tare keys.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
RC41M3	6 lb / 3 g	0.0002 lb / 0.1 g	0.002 lb / 1 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236779	1015
RC41M6	15 lb / 6 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236940	1015
RC41M15	30 lb / 15 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236941	1015
RC41M30	60 lb / 30 kg	0.002 lb / 1 g	0.02 lb / 10 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236942	1015

Accessories	Item No.	List Price (USD)
PCBA Kit, 2nd Platform, RC31 RC41	30037446	155
Ethernet Kit, R31 RC31 R71 V71 RC41	30037447	155
RS232 Kit, R31 RC31 R71 V71 RC41	30037448	155
USB Kit, R31 RC31 V71 RC41	30037449	155
In Use Cover	30240697	37

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530



* Not in parts counting mode

RANGER® COUNT 3000

Multipurpose Compact Counting Scales for Basic Industrial Applications

Display

3 window backlit liquid crystal display (LCD), 3 color Checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

ABS housing, stainless steel platform, numeric keypad, menu lock switch, up front level indicator, transportation handle

Design Features

30 item library, 210 hours of battery life, 3 LED Checkweighing lights with selectable operation and audible signal settings, auto tare, selectable environmental and auto-print settings, auto shut-off, optional 2nd scale input, Internal AC power supply with line cord and internal rechargeable battery included.



Accurate weighing and counting are assured with high-resolution, 30-item library function, and auto-optimization software that reduces errors.

Easy to use in multi-step counting operations. Features three backlit LCD displays, including a centrally located count display, and an easy-to-navigate menu.

Eliminate waiting time and increase control of your operation with accurate one-second results.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
RC31P1502	3 lb / 1.5 kg	0.0001 lb / 0.05 g	0.001 lb / 0.5 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031787	835
RC31P3	6 lb / 3 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031788	835
RC31P6	15 lb / 6 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031789	835
RC31P15	30 lb / 15 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031790	835
RC31P30	60 lb / 30 kg	0.002 lb / 1 g	0.02 lb / 10 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031791	835

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
PCBA Kit, 2 nd Platform, RC31	30037446	155	Printer, Impact, SF40A, AM	30064203	990
Ethernet Kit, R31 RC31 R71 V71	30037447	155	Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
RS232 Kit, R31 RC31 R71 V71	30037448	155	Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
USB Kit, R31 RC31 V71	30037449	155	Carrying Case, TR TC R31 TC31 RC31	80850084	373
Hook, R21 RC21 R31 RC31 V71	30037450	111	Software, Winwedge	80850080	530
In-Use-Cover, R21 RC21 R31 RC31	30037451	39			



Accumulation



Checkweighing



Gross/Net/Tare



Auto Shut-Off



Backlight



Environmental Filters



Level Indicator



Leveling Feet



Low Battery Indicator



NTEP Certified



Parts Counting



Weighing



Overload/Underload Indicators



Rechargeable Battery



Stability Indicator



Weigh Below Hook**



LED Checkweighing Indicator



Measurement Canada Approved

* Not in parts counting mode

** Option

RANGER® 7000

Simplifying Even the Most Complex Industrial Applications

Display

4.3" (109 mm) Full-color WQVGA graphic display with user-controlled brightness

Communication

Easy access communication port including standard USB and RS232 (included) and an optional third port of RS232 or Ethernet (accessories sold separately). GLP/GMP Data Output with Real Time Clock. Data Transfer Function.

Construction

Modular design, die-cast housing, removable stainless steel platform, integral weigh below hook, menu lock switch, level indicator

Design Features

Checkweighing lights with selectable operation and audible signal settings, several selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable brightness settings, auto-dim, auto-sleep, auto tare, chain tare, Internal AC power supply with line cord included, or optional internal rechargeable battery available.



With Sieve Analysis Mode



Simplify complex applications and minimize the need for manual calculations with 10 advanced application modes, peripheral device control and an optional kit for a second scale platform.

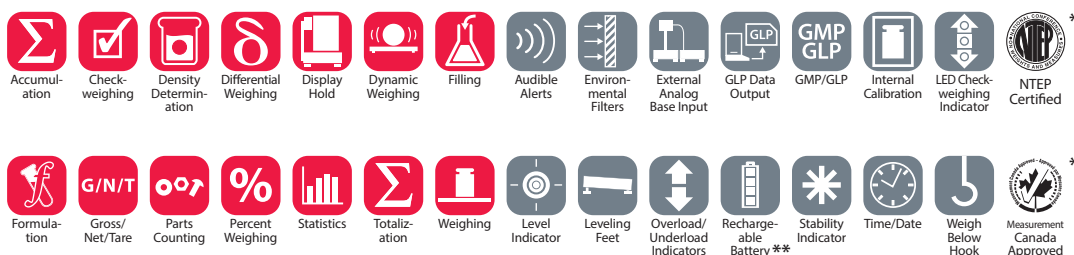
The most precise scale in its class with one-second stabilization time, up to 75,000d or 350,000d display resolution and legal-for-trade certifications.

Extremely durable scale designed to thrive in rugged industrial environments. Features IP54-rated metal housing and sealed metal terminal.

Model	InCal™	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
R71MD3		6 lb / 3 kg	0.0001 lb / 0.05 g	0.001 lb / 0.5 g	11 in x 11 in / 280 mm x 280 mm	30070289	1920
R71MD6		15 lb / 6 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	11 in x 11 in / 280 mm x 280 mm	30070310	1920
R71MD15		30 lb / 15 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	12.2 in x 14.8 in / 311 mm x 377 mm	30070311	1920
R71MD35		70 lb / 35 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	12.2 in x 14.8 in / 311 mm x 377 mm	30070312	1920
R71MD60		150 lb / 60 kg	0.002 lb / 1 g	0.02 lb / 10 g	12.2 in x 14.8 in / 311 mm x 377 mm	30212873	1920
R71MHD3	•	6 lb / 3 kg	0.00002 lb / 0.01 g	0.0002 lb / 0.1 g	9.4 in x 9.4 in / 240 mm x 240 mm	30088840	3015
R71MHD6	•	15 lb / 6 kg	0.00005 lb / 0.02 g	0.0005 lb / 0.2 g	9.4 in x 9.4 in / 240 mm x 240 mm	30088841	3355
R71MHD15	•	30 lb / 15 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	12.2 in x 14.8 in / 311 mm x 377 mm	30088842	4435
R71MHD35	•	70 lb / 35 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	12.2 in x 14.8 in / 311 mm x 377 mm	30088843	5345

Accessories	Item No.	List Price (USD)
Ethernet Kit, R31 RC31 R71 V71	30037447	155
RS232 Kit, R31 RC31 R71 V71	30037448	155
Rechargeable Battery, EX-HiCap R71	30041295	388
Printer, Impact, SF40A, AM	30064203	990
Column Kit, Painted, R71	30095408	155
PCBA Kit, 2 nd Platform, R71	30097590	156
Zebra Label Printer GK420T (requires 30037448)	30611855	729
Datalogic Barcode Scanner QD2131	30593703	191

Accessories	Item No.	List Price (USD)
Discrete I/O Kit, 2-In/4-Out, R71	30097591	155
Cable, Extension, 9m, R71	30101495	109
PCBA Kit, Alibi Memory, R71 T71	80500503	123
Accessory, In Use Cover, R71	30135320	46
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530



* Not in parts counting mode
** Option

RANGER® 4000

The Best Value for Durable Industrial Weighing

Display

Light-emitting diode display (LED), 3 color Checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

Rugged Cast Aluminum Housing, Stainless Steel Platform

Design Features

Cast aluminum housing, stainless steel platform, integral weigh-below hook, sealed front panel, menu lock switch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare, NTEP Certified and Measurement Canada Approved, Internal AC power supply with line cord and internal rechargeable battery included.



Sturdy metal housing and slip-resistant rubber feet provide the protection, stability and long product life needed for tough industrial weighing.

The most user-friendly scale on the market features Smart Text™ for easy operation and setup to ensure efficiency in the workplace.

With the largest display in its class, checkweighing LED indicators and backlit LCD display, the Ranger 4000 can function in almost any industrial environment.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
R41ME3	6 lb / 3 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236775	960
R41ME6	15 lb / 6 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236776	960
R41ME15	30 lb / 15 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236777	960
R41ME30	60 lb / 30 kg	0.002 lb / 1 g	0.02 lb / 10 g	8.9 in × 11.8 in / 225 mm × 300 mm	30236778	960

Accessories	Item No.	List Price (USD)
PCBA Kit, 2nd Platform, RC31 R41	30037446	155
Ethernet Kit, R31 RC31 R71 V71 R41	30037447	155
RS232 Kit, R31 RC31 R71 V71 R41	30037448	155
USB Kit, R31 RC31 V71 R41	30037449	155
In Use Cover	30240697	37

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530



Accumulation



Checkweighing



Display Hold



Dynamic Weighing



Audible Alerts



Auto Shut-Off



Backlight



Environmental Filters



External Analog Base Input



Level Indicator



Weigh Below Hook



NTEP Certified



Gross/Net/Tare



Parts Counting



Percent Weighing



Weighing



Leveling Feet



Low Battery Indicator



Overload/Underload Indicators



Rechargeable Battery



Stability Indicator



LED Checkweighing Indicator



Measurement Canada Approved

RANGER® 3000

Multipurpose Compact Bench Scales for Basic Industrial Applications

Display

Backlit liquid crystal display (LCD), 3 color Checkweighing LEDs

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

ABS housing, stainless steel platform, menu lock switch, up-front level indicator, integral weigh-below hook, transportation handle

Design Features

210 hours of battery life, 3 LED Checkweighing lights with selectable operation and audible signal settings, selectable environmental and auto-print settings, auto shut-off, auto tare, NTEP Certified and Measurement Canada Approved, internal AC power supply with line cord and internal rechargeable battery included.



With the largest display in its class, checkweighing LED indicators and backlit LCD display, the Ranger 3000 can function in any industrial environment.

User-friendly scale with easy setup to ensure efficiency in the workplace.

Eliminate waiting time and increase control of your operation with accurate one-second results.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
R31P1502	3 lb / 1.5 kg	0.0001 lb / 0.05 g	0.001 lb / 0.5 g	8.9 in x 11.8 in / 225 mm x 300 mm	30031707	675
R31P3	6 lb / 3 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	8.9 in x 11.8 in / 225 mm x 300 mm	30031708	675
R31P6	15 lb / 6 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	8.9 in x 11.8 in / 225 mm x 300 mm	30031709	675
R31P15	30 lb / 15 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	8.9 in x 11.8 in / 225 mm x 300 mm	30031710	675
R31P30	60 lb / 30 kg	0.002 lb / 1 g	0.02 lb / 10 g	8.9 in x 11.8 in / 225 mm x 300 mm	30031711	675

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Ethernet Kit, R31 RC31 R71 V71 R41	30037447	155	Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
RS232 Kit, R31 RC31 R71 V71 R41	30037448	155	Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
USB Kit, R31 RC31 V71 R41	30037449	155	Carrying Case, TR TC R31 TC31 V71	80850084	373
In-Use-Cover, R21 RC21 R31 RC31 R41	30037451	39	Software, Winwedge	80850080	530
Printer, Impact, SF40A, AM	30064203	990			



Accumulation



Checkweighing



Display Hold



Dynamic Weighing



Auto Shut-Off



Backlight



Environmental Filters



Level Indicator



Leveling Feet



Weigh Below Hook



NTEP Certified



NSF Listed



Parts Counting



Percent Weighing



Weighing



Low Battery Indicator



Overload/Underload Indicators



Rechargeable Battery



Stability Indicator



LED Checkweighing Indicator



Measurement Canada Approved

VALOR® 7000

The Best Compact Food Scale in its Class

Display

Dual backlit liquid crystal displays (LCD)

Communication

RS232 (included) or second RS232 or USB or Ethernet (accessories sold separately)

Construction

ABS housing, stainless steel platform, touchless sensor, transportation handle, menu lock switch, up front level indicator

Design Features

210 hours of battery life, 3 LED Checkweighing lights with selectable operation and audible signal settings, selectable environmental and auto-print settings, auto shut-off, auto tare, NTEP Certified and Measurement Canada Approved, internal AC power supply with line cord and internal rechargeable battery included.



Food-safe Valor 7000 is NSF-certified, USDA-AMS accepted, and supports HACCP-certified systems—suitable for food applications in dry areas.

Large displays with backlight allow for easy viewing of results. Easy access communication ports for fast and useful data transfer and storage.

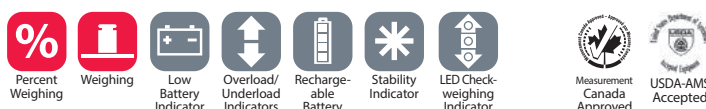
Valor 7000 produces repeatable and accurate results within less than one second to virtually eliminate your wait time and improve productivity.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
V71P1502T	3 lb / 1.5 kg	0.0001 lb / 0.05 g	0.001 lb / 0.5 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031827	700
V71P3T	6 lb / 3 kg	0.0002 lb / 0.1 g	0.002 lb / 1 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031828	700
V71P6T	15 lb / 6 kg	0.0005 lb / 0.2 g	0.005 lb / 2 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031829	700
V71P15T	30 lb / 15 kg	0.001 lb / 0.5 g	0.01 lb / 5 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031830	700
V71P30T	60 lb / 30 kg	0.002 lb / 1 g	0.02 lb / 10 g	8.9 in × 11.8 in / 225 mm × 300 mm	30031831	700

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
In-Use-Cover, V71	30037445	39	In-Use-Cover, Set (10), V71	30037469	79
Ethernet Kit, R31 RC31 R71 V71	30037447	155	Printer, Impact, SF40A, AM	30064203	990
RS232 Kit, R31 RC31 R71 V71	30037448	155	Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
USB Kit, R31 RC31 V71	30037449	155	Carrying Case, TR TC R31 TC31 V71	80850084	373
Hook, R21 RC21 R31 RC31 V71	30037450	111	Software, Winwedge	80850080	530



* Option



VALOR® 4000

Legal-for-Trade Food Scale That Enhances Efficiency in Harsh Environments

Display

Dual light emitting diode (LED) displays

Construction

ABS housing with stainless steel platform (PW), stainless steel housing and platform (XW), illuminated up-front level indicator, rear touchless sensor

Design Features

Auto-close power jack cover, menu and mode setup navigation prompts on keys, transportation handle, NTEP Certified and Measurement Canada Approved, AC wallpack power supply and internal rechargeable battery included.



Food-safe Valor 4000 is NSF-certified, USDA-AMS accepted, and supports HACCP-certified systems, making it suitable demanding food processing applications.

Increase productivity with its touchless tare sensor, half-second stabilization time, check weighing mode, LEDs, and percent weighing mode.

Unique knife resistant keypad and IPX8 protection ensures durability and safe operation in wet conditions.

Model	Top Housing	Protection Rating	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
V41XWE1501T	Stainless Steel	IPX8	3 lb / 1.5 kg	0.0005 lb / 0.2 g	0.001 lb / 0.5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035444	605
V41XWE3T	Stainless Steel	IPX8	6 lb / 3 kg	0.001 lb / 0.5 g	0.002 lb / 1 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035445	605
V41XWE6T	Stainless Steel	IPX8	15 lb / 6 kg	0.002 lb / 1 g	0.005 lb / 2 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035446	605
V41XWE15T	Stainless Steel	IPX8	30 lb / 15 kg	0.005 lb / 2 g	0.01 lb / 5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035447	605
V41PWE1501T	ABS	IPX8	3 lb / 1.5 kg	0.0005 lb / 0.2 g	0.001 lb / 0.5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035434	515
V41PWE3T	ABS	IPX8	6 lb / 3 kg	0.001 lb / 0.5 g	0.002 lb / 1 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035435	515
V41PWE6T	ABS	IPX8	15 lb / 6 kg	0.002 lb / 1 g	0.005 lb / 2 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035436	515
V41PWE15T	ABS	IPX8	30 lb / 15 kg	0.005 lb / 2 g	0.01 lb / 5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035437	515

Accessories

	Item No.	List Price (USD)
Large Pan, 11.8 x 8.8 in V22 V41	30251753	60
In-Use Cover for V41P	30479818	10



Accumulation



Check-weighing



Percent Weighing



Weighing



Backlight



Environmental Filters



IPX8



LED Check-weighing Indicator



Level Indicator



Leveling Feet



Low Battery Indicator



Overload/Underload Indicators



Rechargeable Battery



Stability Indicator



NTEP Certified



Measurement Canada Approved



NSF Listed



USDA-AMS Accepted

VALOR® 3000

Rugged, Full Stainless Steel Design in a High Performance Portable Scale

Display

Backlit liquid crystal display (LCD)

Construction

Stainless steel housing and platform, up-front level indicator, load cell lock

Design Features

Selectable environmental settings, auto tare, auto shut-off, selectable power-up unit, optional food accessories, NTEP Certified models available, AC wallpack power supply (included) or disposable battery power.



The stainless steel Valor 3000 Xtreme is NSF Certified and supports HACCP-Certified systems helping to ensure the integrity and safety of all food products weighed on the scale.

The compact Valor 3000 Xtreme requires minimal counter space and offers resolutions up to 40,000d and 0.01 g, providing precise measurements in demanding environments.

With software for general weighing, percent weighing and specific gravity, the Valor 3000 can be used for a variety of food weighing and measurement needs.

Model	Protection Rating	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
V31XH202	Not Applicable	0.441 lb / 200 g	0.00005 lb / 0.01 g	—	Ø 4.7 in / Ø 120 mm	83998130	780
V31XW301	IP65; NEMA 4X	0.662 lb / 300 g	0.0005 lb / 0.1 g	—	6.2 in x 5.7 in / 158 mm x 146 mm	83998134	610
V31XH402	Not Applicable	0.88 lb / 400 g	0.00005 lb / 0.01 g	—	Ø 4.7 in / Ø 120 mm	83998178	1065
V31X501	Not Applicable	1.1 lb / 500 g	0.0005 lb / 0.1 g	—	Ø 4.7 in / Ø 120 mm	83998176	570
V31XH2	Not Applicable	4.4 lb / 2 kg	0.0005 lb / 0.1 g	—	6.2 in x 5.7 in / 158 mm x 146 mm	83998131	780
V31X3	Not Applicable	6 lb / 3 kg	0.005 lb / 1 g	—	6.2 in x 5.7 in / 158 mm x 146 mm	83998132	515
V31XH4	Not Applicable	8.8 lb / 4 kg	0.0005 lb / 0.1 g	—	6.2 in x 5.7 in / 158 mm x 146 mm	83998177	1065
V31X6	Not Applicable	15 lb / 6 kg	0.005 lb / 1 g	—	6.2 in x 5.7 in / 158 mm x 146 mm	83998133	515
V31XW3*	IP65; NEMA 4X	6 lb / 3 kg	0.005 lb / 0.5 g	0.005 lb / 1 g	6.2 in x 5.7 in / 158 mm x 146 mm	83998135	600
V31X3N*	Not Applicable	6 lb / 3 kg	0.005 lb / 0.5 g	0.005 lb / 1 g	6.2 in x 5.7 in / 158 mm x 146 mm	83999992	600
V31X6N*	Not Applicable	13.23 lb / 6 kg	0.005 lb / 1 g	0.005 lb / 2 g	6.2 in x 5.7 in / 158 mm x 146 mm	83999996	600
V31XW6*	IP65; NEMA 4X	15 lb / 6 kg	0.005 lb / 1 g	0.005 lb / 2 g	6.2 in x 5.7 in / 158 mm x 146 mm	83998136	600

Accessories	Item No.	List Price (USD)
Large Pan, SST, Sandwich, V31	80251147	86
Holder, SST, French Fries, V31	80251148	86
Holder, SST, Ice Cream Cone, V31	80251149	86
Carrying Case, V31	80251216	132



Percent Weighing



Specific Gravity



Weighing



Auto Shut-Off



Backlight



Battery Power



Environmental Filters



Level Indicator



Leveling Feet



NEMA 4X IP65



Overload Protection



Stability Indicator



NTEP Certified



NSF Listed



USDA-AMS Accepted

VALOR® 2000

A Rapid-Response Food Scale That Enhances Productivity in Harsh Environments

Display

Dual light emitting diode (LED) displays

Construction

ABS housing with stainless steel platform (PW), stainless steel housing and platform (XW), up-front level indicator

Design Features

Auto-close power jack cover, transportation handle, AC wallpack power supply and internal rechargeable battery included.



60 lb models available



The sturdy polycarbonate keypad offers protection from knives and other sharp instruments used in food preparation, processing and portioning applications.

A unique IPX8 flow-thru design ensures that the NSF-certified Valor 2000 will drain moisture in the scale when used in wet conditions.

Stabilization time is less than a half-second. Large front and rear LED displays allow for easy viewing so two operators can share one scale.

Model	Top Housing	Protection Rating	Capacity	Readability	Platform Size	Item No.	List Price (USD)
V22XWE1501T	Stainless Steel	IPX8	3 lb / 1.5 kg	0.0005 lb / 0.2 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035439	550
V22XWE3T	Stainless Steel	IPX8	6 lb / 3 kg	0.001 lb / 0.5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035440	550
V22XWE6T	Stainless Steel	IPX8	15 lb / 6 kg	0.002 lb / 1 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035441	550
V22XWE15T	Stainless Steel	IPX8	30 lb / 15 kg	0.005 lb / 2 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035442	550
V22XWE30T	Stainless Steel	IPX8	60 lb / 30 kg	0.01 lb / 5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30251705	550
V22PWE1501T	ABS	IPX8	3 lb / 1.5 kg	0.0005 lb / 0.2 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035682	463
V22PWE3T	ABS	IPX8	6 lb / 3 kg	0.001 lb / 0.5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035683	463
V22PWE6T	ABS	IPX8	15 lb / 6 kg	0.002 lb / 1 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035684	463
V22PWE15T	ABS	IPX8	30 lb / 15 kg	0.005 lb / 2 g	7.5 in x 9.5 in / 190 mm x 242 mm	30035685	463
V22PWE30T	ABS	IPX8	60 lb / 30 kg	0.01 lb / 5 g	7.5 in x 9.5 in / 190 mm x 242 mm	30251704	463

Accessories	Item No.	List Price (USD)
Large Pan, 11.8 x 8.8 in V22 V41	30251753	60
In-Use Cover for V41P	30479818	10



VALOR®1000 (V12)

Reliable Food-Safe Scale for Dry Environments

Display

1"/25.4 mm white backlit LCD

Construction

ABS housing with integrated carry handles, removable stainless steel platform

Design Features

External calibration software, integrated up front level bubble, adjustable feet, selectable weighing units, included in-use cover, AC wallpack power supply (included) or disposable battery power.



NSF Certified, USDA-AMS listed and supports HACCP-Certified systems for use in food processing and food preparation.

Can be powered for up to 1,500 hours on a single set of disposable batteries (not included) for portable use.

White ABS housing is designed to limit build-up of food on scale – in-use cover included for added protection.

Model	Capacity	Readability	Platform Size	Item No.	List Price (USD)
V12P3	6 lb	0.001 lb	9.65 × 7.48 in 245 × 190 mm	30539390	222
	3 kg / 3,000 g	0.0005 kg / 0.5 g			
	6 lb / 96 oz	0.02 oz			
V12P6	15 lb	0.002 lb	9.65 × 7.48 in 245 × 190 mm	30539391	222
	6 kg / 6,000 g	0.001 kg / 1 g			
	15 lb / 240 oz	0.05 oz			
V12P15	30 lb	0.005 lb	9.65 × 7.48 in 245 × 190 mm	30539392	222
	15 kg / 15,000 g	0.002 kg / 2 g			
	30 lb / 480 oz	0.1 oz			
V12P30	60 lb	0.01 lb	9.65 × 7.48 in 245 × 190 mm	30539393	222
	30 kg / 30,000	0.005 kg / 5 g			
	60 lb / 960 oz	0.2 oz			

Accessories	Item No.	Price (USD)
In-use cover (1)	30559105	10
In-use cover (10)	30559106	100
Stainless Steel Platform, 11.8 in × 8.9 in, 300 × 225 mm	30559107	50



Weighing



Auto Shut-Off



Battery Power



Low Battery Indicator



Overload/Underload Indicators



Stability Indicator



NSF Listed



USDA-AMS Accepted

CATAPULT® 1000

Economical Compact Shipping Scales

Display

Liquid crystal display (LCD)

Construction

ABS housing and platform, stainless steel platform (accessory sold separately), transportation handle

Design Features

Low profile, compact design, AC wallpack (included) or disposable battery power.



WeighAlert mode available



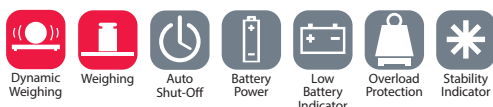
Bring the Catapult 1000 right to your work with the integrated carrying handle and its battery powered operation.

Catapult 1000 not only provides accurate general weight determination but also has the software to support dynamic/animal weighing.

New WeighAlert mode in C11P75 model flashes weight display when weight on platform is greater than 70 lb and less than 151 lb, alerting user that package is too heavy for USPS service but below Less-Than-Truckload (LTL) limit for shipping.

Model	Capacity	Readability	Platform Size	Item No.	List Price (USD)
C11P9	20 lb / 9 kg	0.01 lb / 0.005 kg	11 in x 12.4 in / 280 mm x 316 mm	83998137	266
C11P20	44 lb / 20 kg	0.02 lb / 0.01 kg	11 in x 12.4 in / 280 mm x 316 mm	83998138	266
C11P75	165 lb / 75 kg	0.1 lb / 0.05 kg	11 in x 12.4 in / 280 mm x 316 mm	83998139	294

Accessories	Item No.	List Price (USD)
Pan, SST, C11P	80251248	55



TD52

Multifunctional Indicators for Standard Industrial Applications

Display

Dot matrix LCD with white LED backlight, 256 × 80 pixels

Communication

Standard RS232, MicroSD Card included; Optional Ethernet, WiFi/Bluetooth, 2nd RS232/RS485/USB, Analog Output, or 2 In/4 Out Digital I/O.

Construction

TD52XW: All stainless steel housing and bracket, TD52P: ABS plastic housing and powder-coated steel bracket

Design Features

Configurable resolution 75,000d/10,000e NTEP Class III/IIIL certified and Measurement Canada Class III/IIILD approved, GMP/GLP output with time/date, Alibi or standard memory, multiple operating languages, EasyConnect connector allows fast set-up with compatible Defender bases. Includes internal terminal block for hardwiring TD52 indicator to bases without EasyConnect module.

TD52P: Internal AC power supply with line cord included.

TD52XW: Hardwired internal AC power supply included.

Optional internal rechargeable battery available for both indicators.



TD52P



TD52XW

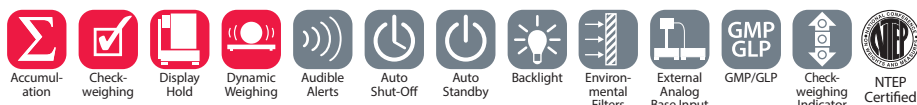
See results clearly on the large backlit display. The alphanumeric keypad & function keys allow for a simplified user experience. On-screen prompts and soft keys will guide you through the operation.

Results can be stored in the Micro SD card. Data output via built-in RS232 or optional interfaces including RS232/RS485/USB device, Ethernet & Bluetooth/WiFi. Analog Output & Discrete I/O with relays.

Features common industrial modes & supports a 50,000 item library & 1,000 user profiles which can be downloaded/uploaded for easy set-up (with SD Card). GMP/GLP with time/date for result traceability.

Model	Protection Rating	Item No.	List Price (USD)
TD52P	Dry Use ABS Indicator	30424078	685
TD52XW	IP68 / NEMA 4X Stainless Steel Indicator	30424079	845

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
2 nd RS232/RS485/USB, TD52	30424404	167	In-use Cover Set, TD52XW	30424023	28
Cable, RS232, CKW TxxXW	80500552	179	In-use Cover set (10), TD52P	30469948	167
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193	In-use Cover set (10), TD52XW	30469949	222
Ethernet Kit, TD52	30429666	167	LC Extension Cable, 9 meters, D52	30424409	167
Analog Output Kit, TD52	30424403	167	M16 Gland with Ferrite, to TD52	30379716	21
I/O with Relay (2 In/4 Out)	30097591	155	Wall Mount Kit, SST, TD52XW	30424026	84
Light Tower, R-Y-G, IP65, 24VDC (requires 30097591)	30424021	194	Wall Mount Kit, CS, TD52P	30424027	62
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537	231	Printer SF40A	30064203	990
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135	Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Battery Kit, Li-ion, TD52	30424405	200	Cable, RS232, CKW TxxXW	80500552	179
In-use Cover Set, TD52P	30424022	21	Software, Winwedge	80850080	530
Zebra Label Printer GK420T	30611855	729	Column Kit, Floor Stand, Painted	30531244	199
Datalogic Barcode Scanner QD2131 (requires 30572923)	30593703	191	Column Kit, Floor Stand, Stainless Steel	30539553	399



*Option

T72XW

Advanced Performance Stainless Steel Indicator with External Device Control Capabilities

Display

Transflective graphic LCD with white backlight, 240 × 96 pixels

Communication

RS232 and SD card reader with SD card included. Ethernet, USB/Discrete I/O or COM2 kit with 2nd RS232/485 available.

Construction

IP66/NEMA 4X stainless steel housing and mounting bracket

Design Features

User-configurable resolution 50,000d/10,000e, Checkweighing lights with selectable operation and audible signal settings, sealed front panel, five operating languages (English, Spanish, French, German and Italian), selectable environmental and auto-print settings, stability indicator, overload/underload indicators, NTEP Certified and Measurement Canada Approved, hardwired internal AC power supply included.



With Truck In/Out Mode

With a 50,000 displayed resolution and the ability to support up to 10 load cells, T72XW was designed for heavy-duty industrial applications such as vehicle weighing.

Two option slots are available to enable a wide range of connectivity interfaces. Control external devices using the discrete I/O interface and transfer data through the serial, USB or Ethernet ports.

T72XW is very easy to set up and navigate—featuring a vivid graphic display with on-screen prompts and an alphanumeric keypad with designated keys for common functions such as Tare and ID information.

Model	Protection Rating	Item No.	List Price (USD)
T72XW	IP66; NEMA 4X	30126959	895

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Ethernet Kit, T72XW	30132163	155
USB with I/O Kit, T72XW	30132164	173
COM2 Kit, T72XW	30132165	155
Column Adapter, SST, T32XW T51XW T71XW	72209340	55
Cable, RS232, CKW TxxXW	80500552	179
Cable ST103 - TxxXW	80252584	216
Software, Winwedge	80850080	530



Checkweighing



Dynamic Weighing



Totalization



Audible Alerts



Auto Shut-Off



Auto Standby



Backlight



Environmental Filters



GMP/GLP



NTEP Certified



Parts Counting



Weighing



Time/Date



Multi-Language



NEMA 4X IP66



Overload/Underload Indicators



Software Lockout



Stability Indicator



Measurement Canada Approved

T51XW

Multifunctional Bench Scales for Standard Industrial Applications

Display

Backlit liquid crystal display (LCD), 3 color Checkweighing LEDs

Communication

RS232 (included). Internal 2nd RS232, RS232/RS485, AC or DC relay kits available. GLP/GMP data output with real-time clock.

Construction

IP66/NEMA 4X stainless steel housing and mounting bracket, four-key membrane keypad, easy-open hinged front cover

Design Features

User-configurable resolution up to 30,000d/10,000e, NTEP Certified and Measurement Canada Approved, hardwired internal AC power supply included.



T51XW features software for parts counting, dynamic weighing, percent weighing, checkweighing, display hold for large containers and can meet traceability requirements.

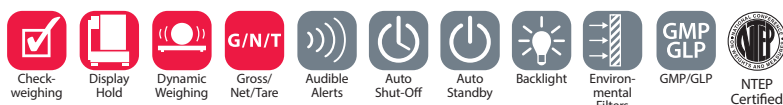
Multiple connectivity capabilities include built-in RS232 bi-directional interface and external input as well as optional RS422/485, second RS232 and AC or DC relay.

The durably-built T51XW NEMA 4X/IP66 stainless steel water resistant indicator has a hinged front cover that opens easily for servicing and installation of the connectivity options.

Model	Protection Rating	Item No.	List Price (USD)
T51XW	IP66; NEMA 4X	83999840	695

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, CKW TxxXW	80500552	179
Relay Kit, AC, T51 T71	80500720	355
Relay Kit, DC, T51 T71	80500727	305
Wall Mount Kit, SST, T51XW T71XW	80500735	84

Accessories	Item No.	List Price (USD)
Software, Winwedge	80850080	530
Column Kit, 23 cm / 9 in, Stainless Steel for T71XW/T51XW Indicator	30454644	254
Column Kit, Floor Stand, Painted	30531244	199
Column Kit, Floor Stand, Stainless Steel	30539553	399
Cable ST103 - TxxXW	80252584	216



T32XW

Economical Stainless Steel Washdown Indicator for Basic Industrial Applications

Display

Backlit liquid crystal display (LCD)

Communication

Easy access communication port including RS232 interface (included)

Construction

IP65/NEMA 4X stainless steel housing and mounting bracket, easy-open hinged front cover

Design Features

User-configurable resolution up to 20,000d/6,000e, NTEP Certified and Measurement Canada Approved, Hardwired AC power supply and rechargeable battery included.



The NEMA 4X/IP65 stainless steel construction protects the indicator from water damage and a hinged front cover opens up easily, offering instant access for servicing.

The long-lasting internal rechargeable battery provides continuous operation for up to 58 hours, ensuring uninterrupted operation for more than two straight days.

Simple operation enhanced by an easy-to-read display and even basic counting mode round out this industrial indicator, making it ideal for everyday basic industrial use.

Model	Protection Rating	Item No.	List Price (USD)
T32XW	IP65; NEMA 4X	83999823	462

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, CKW TxxXW	80500552	179
Software, Winwedge	80850080	530
Column Kit, Floor Stand, Painted	30531244	199
Column Kit, Floor Stand, Stainless Steel	30539553	399
Cable ST103 - TxxXW	80252584	216



Gross/
Net/Tare



Parts
Counting



Weighing



Auto
Shut-Off



Backlight



Environ-
mental
Filters



Low
Battery
Indicator



NEMA 4X
IP65



Overload/
Underload
Indicators



Recharge-
able
Battery



Stability
Indicator



NTEP
Certified



Measurement
Canada
Approved

T32M

Economical Metal Indicator for Basic Industrial Applications

Display

T32MC: Backlit liquid crystal display (LCD) T32ME: Light-emitting diode display (LED);
3 color checkweigh LEDs included with both models

Communication

Easy access communication port including RS232 interface (included).
External RS232-USB or RS232-Ethernet connectors available.

Construction

Front ABS/rear painted steel housing and painted steel mounting bracket

Design Features

User-configurable resolution up to 20,000d/6,000e, NTEP Certified and Measurement Canada Approved,
AC wall adapter power supply included.



T32MC and T32ME are OIML approved, NTEP certified, and Measurement Canada approved for use in all legal-for-trade applications.

Application modes include weighing, simple parts counting, basic checkweighing, display hold and accumulation of results.

Constructed of painted steel housing and high-impact ABS faceplate, T32MC and T32ME are highly durable.

Model	Item No.	List Price (USD)
T32ME	83998166	299
T32MC	83998167	299

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530
Column Kit, Floor Stand, Painted	30531244	199
Column Kit, Floor Stand, Stainless Steel	30539553	399
Interface Kit, RS232-USB	30304101	145
Interface Kit, RS232-Ethernet	30304102	145



Accumulation



Checkweighing



Display Hold



Parts Counting



Totalization



Weighing



Auto Shut-Off



Backlight



Environmental Filters



Overload/Underload Indicators



Stability Indicator



LED Checkweighing Indicator



NTEP Certified



Measurement Canada Approved

T31P

Economical ABS Plastic Indicator for Basic Industrial Applications

Display

Backlit liquid crystal display (LCD)

Communication

Easy access communication port including RS232 interface (included). External RS232-USB or RS232-Ethernet connectors available.

Construction

ABS housing and painted steel mounting bracket, non-slip rubber feet

Design Features

User-configurable resolution up to 20,000d/6,000e, NTEP Certified and Measurement Canada Approved, AC wall adapter power supply and internal rechargeable battery included.



Front mount handle accessory available

T31P is OIML approved, NTEP certified and Measurement Canada approved for use in all legal-for-trade applications.

The ultra-long-lasting internal rechargeable battery provides operation on a single charge for up to 100 hours.

The reversible rear cover offers the flexibility for connected cables to exit above or below the indicator housing.

Model	Item No.	List Price (USD)
T31P	83998110	380

Accessories	Item No.	List Price (USD)
Printer, Impact, SF40A, AM	30064203	990
Printer, Thermal, STP-103, US (requires 80500525)	80251992	760
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	193
Software, Winwedge	80850080	530
Column Kit, Floor Stand, Painted	30531244	199
Column Kit, Floor Stand, Stainless Steel	30539553	399
Interface Kit, RS232-USB	30304101	145
Interface Kit, RS232-Ethernet	30304102	145
Handle Kit, D3K	30381321	102



CKW BASES

High Quality Washdown Checkweighing Base

Construction

304 grade stainless steel platform with no visible threads, rounded corners, drain holes, extended skirt and open frame, IP67 stainless steel load cells

Design Features

No visible threads for conformance to food safety requirements, NSF Certified, USDA-AMS Accepted, and supports HACCP-certified systems with NTEP Certified and Measurement Canada Approved



The CKW base is NSF Certified, USDA-AMS Accepted, supports HACCP-certified systems, and is safe for use in food processing applications.

Constructed of IP67 stainless steel loadcells, the CKW base is protected from harsh elements and can be thoroughly washed down to ensure cleanliness.

The external level indicator and adjustable non-slip leveling feet assure that the base is stable and producing accurate results.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
CKW3R	6 lb / 3 kg	0.001 lb / 0.5 g	0.002 lb / 1 g	10 in × 10 in / 254 mm × 254 mm	30379430	940
CKW6R	15 lb / 6 kg	0.002 lb / 1 g	0.005 lb / 2 g	10 in × 10 in / 254 mm × 254 mm	30379431	940
CKW15L	30 lb / 15 kg	0.005 lb / 2 g	0.01 lb / 5 g	12 in × 12 in / 305 mm × 305 mm	30379432	1085
CKW30L	60 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	12 in × 12 in / 305 mm × 305 mm	30379433	1085

Accessories	Item No.	List Price (USD)
Column Kit, 23 cm / 9 in, Stainless Steel for T71XW/T51XW Indicator	30454644	254
Wall Mount Bracket Stainless Steel for T71XW/T51XW Indicator	80500735	84

DEFENDER® WQ & WT SERIES STAINLESS STEEL BASES

High Quality All Stainless Steel Base for Washdown Industrial Weighing

Construction

Stainless steel platform, base frame and loadcell.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade performance, EasyConnect connector allows fast set-up with OHAUS TD52 indicators, speeding configuration and installation. Adapter available for wiring to non-TD52 indicator.



Welded stainless steel construction in square and rectangular shapes for demanding industrial applications.

Resolutions up to 25,000d/5,000e NTEP Class III and Measurement Canada Class III approved for legal-for-trade performance.

Durably constructed with stainless steel platform, bases and loadcells.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D2WQS	5 lb / 2.5 kg	0.0002 lb / 0.1 g	0.001 lb / 0.5 g	10 × 10 in / 254 × 254 mm	30419628	840
D5WQS	10 lb / 5 kg	0.0005 lb / 0.2 g	0.002 lb / 1 g	10 × 10 in / 254 × 254 mm	30419629	840
D12WQS	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 5 g	10 × 10 in / 254 × 254 mm	30419630	840
D12WQR	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 5 g	12 × 12 in / 305 × 305 mm	30419634	890
D25WQR	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30419635	890
D50WQR	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30419636	890
D25WQL	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	18 × 18 in / 457 × 457 mm	30419642	1415
D50WQL	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30419643	1415
D125WQL	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	18 × 18 in / 457 × 457 mm	30419644	1415
D50WTX	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30419648	1650
D125WTX	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	18 × 24 in / 457 × 610 mm	30419649	1650
D250WTX	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30419650	1650
D50WQV	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30419655	1965
D125WQV	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 50 g	24 × 24 in / 610 × 610 mm	30419656	1965
D250WQV	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30419657	2090
D500WQV*	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	24 × 24 in / 610 × 610 mm	30419658	2090

* Aluminum loadcell

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Column Kit, 35 cm / 13.9 in, Painted Carbon Steel to TD52 Indicator	30424410	73	Indicator Front Mount Kit Stainless Steel for TD52 Indicator	30424024	111
Column Kit, 68 cm / 26.9 in, Painted Carbon Steel to TD52 Indicator	30424411	95	Column Mounted Printer Holder Kit	30424025	62
Column Kit, 98 cm / 38.8 in, Painted Carbon Steel to TD52 Indicator	30424412	106	LC Extension Cable, 9m/29.7 ft to TD52 Indicator	30424409	167
Column Kit, 35 cm / 13.9 in, Stainless Steel to TD52 Indicator	30424413	161	Load Cell Cable Adapter Kit, non-TD52 Indicator to D52 Base	30429931	51
Column Kit, 68 cm / 26.9 in, Stainless Steel to TD52 Indicator	30424414	205	Wheel Kit, Defender Series (for bases up to 300 kg/600lb)	30372146	134
Column Kit, 98 cm / 38.8 in, Stainless Steel to TD52 Indicator	30424415	222			



DEFENDER® RQ & RT SERIES BASES

High Quality Powder-Coated Steel Bases for Industrial Weighing

Construction

Stainless steel platform, powder-coated base frame and aluminum loadcell.

Design Features

Up to 25,000d/5,000e NTEP Class III certified and Measurement Canada Class III approved legal-for-trade performance, EasyConnect connector allows fast set-up with OHAUS TD52 indicators, speeding configuration and installation. Adapter available for wiring to non-TD52 indicator.



Welded steel construction in square and rectangular shapes for demanding industrial applications.

Resolutions up to 25,000d/5,000e NTEP Class III and Measurement Canada Class III approved for legal-for-trade performance.

Durably constructed with stainless steel platform, powder-coated steel bases and aluminum loadcells.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D12RQR	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 12 in / 305 × 305 mm	30419631	735
D25RQR	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 12 in / 305 × 305 mm	30419632	735
D50RQR	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 12 in / 305 × 305 mm	30419633	735
D12RTR	25 lb / 12.5 kg	0.001 lb / 0.5 g	0.005 lb / 2 g	12 × 14 in / 305 × 355 mm	30419637	840
D25RTR	50 lb / 25 kg	0.002 lb / 1 g	0.01 lb / 5 g	12 × 14 in / 305 × 355 mm	30419638	840
D50RTR	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	12 × 14 in / 305 × 355 mm	30419639	840
D50RQL	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 18 in / 457 × 457 mm	30419640	1050
D125RQL	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 18 in / 457 × 457 mm	30419641	1050
D50RTX	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	18 × 24 in / 457 × 610 mm	30419645	1100
D125RTX	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	18 × 24 in / 457 × 610 mm	30419646	1100
D250RTX	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	18 × 24 in / 457 × 610 mm	30419647	1100
D50RQV	100 lb / 50 kg	0.005 lb / 2 g	0.02 lb / 10 g	24 × 24 in / 610 × 610 mm	30419651	1230
D125RQV	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	24 × 24 in / 610 × 610 mm	30419652	1230
D250RQV	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	24 × 24 in / 610 × 610 mm	30419653	1255
D500RQV	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	24 × 24 in / 610 × 610 mm	30419654	1255
D125RTV	250 lb / 125 kg	0.01 lb / 5 g	0.05 lb / 20 g	23.6 × 31.5 in / 600 × 800 mm	30419659	1650
D250RTV	500 lb / 250 kg	0.02 lb / 10 g	0.1 lb / 50 g	23.6 × 31.5 in / 600 × 800 mm	30419660	1650
D500RTV	1,000 lb / 500 kg	0.05 lb / 20 g	0.2 lb / 100 g	23.6 × 31.5 in / 600 × 800 mm	30419661	1650

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Column Kit, 35 cm / 13.9 in, Painted Carbon Steel to TD52 Indicator	30424410	73	Column Kit, 98 cm / 38.8 in, Stainless Steel to TD52 Indicator	30424415	222
Column Kit, 68 cm / 26.9 in, Painted Carbon Steel to TD52 Indicator	30424411	95	Indicator Front Mount Kit Stainless Steel for TD52 Indicator	30424024	111
Column Kit, 98 cm / 38.8 in, Painted Carbon Steel to TD52 Indicator	30424412	106	Column Mounted Printer Holder Kit	30424025	62
Column Kit, 35 cm / 13.9 in, Stainless Steel to TD52 Indicator	30424413	161	LC Extension Cable, 9m/29.7 ft to TD52 Indicator	30424409	167
Column Kit, 68 cm / 26.9 in, Stainless Steel to TD52 Indicator	30424414	205	Load Cell Cable Adapter Kit, non-TD52 Indicator to D52 Base	30429931	51
			Wheel Kit, Defender Series (for bases up to 300 kg/600lb)	30372146	134



DEFENDER® V SERIES STAINLESS STEEL BASES

Economical Base for Washdown Industrial Weighing

Construction

304 grade stainless steel platform, stainless steel tubular frame, IP67 stainless steel load cell, level indicator

Design Features

125% capacity overload protection, NTEP Certified and Measurement Canada Approved 3,000e, Wheel kits (optional)



30 lb model available

The sturdy tubular 304 stainless steel platform provides ample support for industrial weighing applications.

The IP67 load cells ensure accurate and repeatable results.

The non-slip adjustable rubber leveling feet provide stability during the weighing process.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D15VR	30 lb / 15 kg	0.005 lb / 2g	0.01 lb / 5 g	14 in × 12 in / 355 mm × 305 mm	30379441	790
D30VR	60 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	14 in × 12 in / 355 mm × 305 mm	30379442	790
D60VR	150 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	14 in × 12 in / 355 mm × 305 mm	30379443	790
D60VL	150 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	21.7 in × 16.5 in / 550 mm × 420 mm	30379444	1330
D150VL	300 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	21.7 in × 16.5 in / 550 mm × 420 mm	30379445	1330
D150VX	300 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	25.6 in × 19.7 in / 650 mm × 500 mm	30379446	1975
D300VX	600 lb / 300 kg	0.1 lb / 50 g	0.2 lb / 100 g	25.6 in × 19.7 in / 650 mm × 500 mm	30379447	1975

Accessories	Item No.	List Price (USD)
Column Kit, 23 cm / 9 in, Stainless Steel for T71XW/T51XW Indicator	30454644	254
Wall Mount Bracket Stainless Steel for T71XW/T51XW Indicator	80500735	84
Wheel Kit, Defender Series (for bases up to 300 kg/600lb)	30372146	134
Column Kit, 35 cm / 13.9 in, Stainless Steel, to T51/71/72XW	80500725	175
Column Adapter, Stainless Steel, T32XW/T51XW/T71XW	72209340	55



DEFENDER® B SERIES BASES

Economical Base for Industrial Weighing

Construction

304 grade stainless steel platform, black painted steel tubular frame, IP67 aluminum load cell, level indicator

Design Features

125% capacity overload protection, NTEP Certified and Measurement Canada Approved 3,000e, Wheel kits (optional)



30 lb model available

The sturdy tubular 304 stainless steel platform provides ample support for industrial weighing applications.

The IP67 load cells ensure accurate and repeatable results.

The non-slip adjustable rubber leveling feet provide stability during the weighing process.

Model	Capacity	Readability	Certified Readability	Platform Size	Item No.	List Price (USD)
D15BR	30lb / 15kg	0.005 lb / 2g	0.01 lb / 5 g	14 in × 12 in / 355 mm × 305 mm	30379434	700
D30BR	60 lb / 30 kg	0.01 lb / 5 g	0.02 lb / 10 g	14 in × 12 in / 355 mm × 305 mm	30379435	700
D60BR	150 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	14 in × 12 in / 355 mm × 305 mm	30379436	700
D60BL	150 lb / 60 kg	0.02 lb / 10 g	0.05 lb / 20 g	21.7 in × 16.5 in / 550 mm × 420 mm	30379437	725
D150BL	300 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	21.7 in × 16.5 in / 550 mm × 420 mm	30379438	725
D150BX	300 lb / 150 kg	0.05 lb / 20 g	0.1 lb / 50 g	25.6 in × 19.7 in / 650 mm × 500 mm	30379439	805
D300BX	600 lb / 300 kg	0.1 lb / 50 g	0.2 lb / 100 g	25.6 in × 19.7 in / 650 mm × 500 mm	30379440	805

Accessories	Item No.	List Price (USD)
Column Kit, 23 cm / 9 in, Stainless Steel for T71XW/T51XW Indicator	30454644	254
Wall Mount Bracket Stainless Steel for T71XW/T51XW Indicator	80500735	84
Wheel Kit, Defender Series (for bases up to 300 kg/600lb)	30372146	134
Column Kit, 35 cm / 13.9 in, Stainless Steel, to T51/71/72XW	80500725	175
Column Adapter, Stainless Steel, T32XW/T51XW/T71XW	72209340	55



NOTES

Calibration Weights



OHAUS' portfolio now includes the Troemner library of weights, backed by exclusive construction and more than 100 years of expertise. With a wide selection of weight classes backed by both ASTM and OIML, OHAUS weights offer a comprehensive range of 1 mg to 5,000 lb, and are available with certifications.





Our weights and weight sets are backed by the world's leading supplier of precision weights and mass standards. Since 1838, Troemner has enhanced its reputation as being the premier precision weight company by having industry recognized metrologists and highly trained calibrators on staff. Troemner's production of precision weights involves using the finest materials and equipment available in a state-of-the-art facility. For these important reasons, Troemner is capable of providing unmatched measurements and metrological analysis, to provide our customers with the precision weights they need.

Only the finest raw materials are selected in order to manufacture high quality weights. Troemner is the only supplier that has a special stainless steel blend called Troemner Alloy 8, which possesses closely controlled density (8.03 g/cm³), extremely low magnetic properties, good stability and resistance to corrosion.

Weight Selector Guide

Troemner UltraClass - For analytical and microbalances with readability as low as 1 g. These are the most precise two-piece weights available, with weight tolerances 40 to 50% better than ANSI/ASTM Class 1. Ultra Class weights combine high precision with the advantage of two-piece construction (1 g and larger) to avoid costly issues associated with one-piece weights.

ANSI/ASTM Class 1 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg.

ANSI/ASTM Class 4 - For calibration of semi-analytical balances and for student use.

ANSI/ASTM Class 6 - This class meets the specifications of OIML R 111 Class M2.

OIML Class E1 - Used as a primary reference for calibrating other reference standards and weights where the stability of the environment and careful handling are assured. Class E1 weights have no method of adjustment and are not suitable for general laboratory use. The uncertainty is guaranteed to be 1/3 the tolerance.

OIML Class E2 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg.

OIML Class F1 - Appropriate for calibrating high-precision top loading balances with a readability as low as 0.01 g to 0.001 g.

OIML Class F2 - For calibration of semi-analytical balances and for student use.

NIST Class F - Primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.

TROEMNER ULTRACLASSE INDIVIDUAL WEIGHTS

Weight tolerance is equal to ANSI/ASTM E617 Class 0

UltraClass weights combine high precision with the advantage of two-piece construction (1 g and larger) avoiding costly replacement issues associated with one-piece weights.

Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.

Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
50 kg	30390204	10470	50 kg	30390236	11200	50 kg	30390269	11390
30 kg	30390203	7090	30 kg	30390235	7135	30 kg	30390268	7830
25 kg	30390202	5620	25 kg	30390234	5690	25 kg	30390267	5755
20 kg	30390201	3040	20 kg	30390233	3200	20 kg	30390266	3285
10 kg	30390200	2605	10 kg	30390232	2740	10 kg	30390265	3090
5 kg	30390199	1410	5 kg	30390231	1475	5 kg	30390264	1650
3 kg	30390198	1220	3 kg	30390230	1285	3 kg	30390263	1370
2 kg	30390197	950	2 kg	30390229	1025	2 kg	30390262	1110
1 kg	30390196	600	1 kg	30390228	680	1 kg	30390261	770
500 g	30390195	293	500 g	30390227	337	500 g	30390260	379
300 g	30390194	215	300 g	30390226	276	300 g	30390259	318
200 g	30390193	201	200 g	30390225	246	200 g	30390258	310
100 g	30390192	132	100 g	30390224	169	100 g	30390257	201
50 g	30390191	116	50 g	30390223	164	50 g	30390256	182
30 g	30390190	110	30 g	30390222	158	30 g	30390255	182
20 g	30390189	104	20 g	30390221	152	20 g	30390254	169
10 g	30390188	104	10 g	30390220	152	10 g	30390253	159
5 g	30390187	104	5 g	30390219	152	5 g	30390252	159
3 g	30390186	104	3 g	30390218	152	3 g	30390251	159
2 g	30390185	93	2 g	30390217	141	2 g	30390250	159
1 g	30390184	93	1 g	30390216	141	1 g	30390249	159
500 mg	30390183	89	500 mg	30390215	122	500 mg	30390248	144
300 mg	30390182	89	300 mg	30390214	122	300 mg	30390247	144
200 mg	30390181	89	200 mg	30390213	122	200 mg	30390246	144
100 mg	30390180	89	100 mg	30390212	122	100 mg	30390245	144
50 mg	30390179	89	50 mg	30390211	122	50 mg	30390244	144
30 mg	30390178	89	30 mg	30390210	122	30 mg	30390243	144
20 mg	30390177	89	20 mg	30390209	122	20 mg	30390242	144
10 mg	30390176	89	10 mg	30390208	122	10 mg	30390241	144
5 mg	30390175	89	5 mg	30390207	122	5 mg	30390240	144
3 mg	30390174	89	3 mg	30390206	122	3 mg	30390239	144
2 mg	30390173	89	2 mg	30390205	122	2 mg	30390238	144
1 mg	30390172	89	1 mg	30390204	122	1 mg	30390237	144



Weights by
TROEMNER

ASTM CLASS I INDIVIDUAL WEIGHTS

Adjusted to meet ASTM Class 1 Tolerances

Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg.

Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.

Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.

Without Certificate		
Model	Item No.	List Price (USD)
50 kg	30391425	10130
30 kg	30391424	6450
25 kg	30391423	5105
20 kg	30391422	3475
10 kg	30391421	2375
5 kg	30391420	1290
3 kg	30391419	1105
2 kg	30391418	865
1 kg	30391417	550
500 g	30391416	258
300 g	30391415	197
200 g	80781143	191
100 g	80781141	118
50 g	80781139	112
30 g	30391411	106
20 g	80781135	101
10 g	80781133	101
5 g	80781131	101
3 g	30391407	91
2 g	80781127	91
1 g	80781125	85
500 mg	80781123	82
300 mg	30391403	82
200 mg	80781119	82
100 mg	80781117	82
50 mg	80781115	82
30 mg	30391399	82
20 mg	80781111	82
10 mg	80781109	82
5 mg	80781107	82
3 mg	30391395	82
2 mg	80781103	82
1 mg	80781101	82

Traceable Certificate		
Model	Item No.	List Price (USD)
50 kg	30391607	10970
30 kg	30391606	6955
25 kg	30391605	5155
20 kg	30391604	3615
10 kg	30391603	2435
5 kg	30391602	1405
3 kg	30391601	1265
2 kg	30391600	955
1 kg	30391599	645
500 g	30391598	314
300 g	30391597	264
200 g	30391596	245
100 g	30391595	163
50 g	30391594	158
30 g	30391593	153
20 g	30391592	148
10 g	30391591	148
5 g	30391590	148
3 g	30391589	138
2 g	30391588	138
1 g	30391587	126
500 mg	30391586	114
300 mg	30391585	114
200 mg	30391584	114
100 mg	30391583	114
50 mg	30391582	114
30 mg	30391581	114
20 mg	30391580	114
10 mg	30391579	114
5 mg	30391578	114
3 mg	30391577	114
2 mg	30391576	114
1 mg	30391575	114

NVLAP Certificate		
Model	Item No.	List Price (USD)
50 kg	30391458	11160
30 kg	30391457	7460
25 kg	30391456	5345
20 kg	30391455	3660
10 kg	30391454	2490
5 kg	30391453	1560
3 kg	30391452	1290
2 kg	30391451	1020
1 kg	30391450	715
500 g	30391449	368
300 g	30391448	306
200 g	80781144	297
100 g	80781142	175
50 g	80781140	170
30 g	30391444	164
20 g	80781136	162
10 g	80781134	160
5 g	80781132	158
3 g	30391440	149
2 g	80781128	149
1 g	80781126	137
500 mg	80781124	130
300 mg	30391436	130
200 mg	80781120	130
100 mg	80781118	130
50 mg	80781116	130
30 mg	30391432	130
20 mg	80781112	130
10 mg	80781110	130
5 mg	80781108	130
3 mg	30391428	130
2 mg	80781104	130
1 mg	80781102	130



Weights by
TROEMNER

ASTM CLASS 4 INDIVIDUAL WEIGHTS

Adjusted to meet ASTM Class 4 Tolerances

Can be used for calibration of semi-analytical balances and for student use.

Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.

Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
50 kg	30391295	9750	50 kg	30391108	9765	50 kg	30391328	9885
30 kg	30391294	6080	30 kg	30391107	6140	30 kg	30391327	6295
25 kg	30391293	4605	25 kg	30391106	4700	25 kg	30391326	4845
20 kg	30391292	2530	20 kg	30391105	2575	20 kg	30391325	2745
10 kg	30391291	1600	10 kg	30391104	1625	10 kg	30391324	2025
5 kg	30391290	1185	5 kg	30391103	1255	5 kg	30391323	1385
3 kg	30391289	970	3 kg	30391102	1020	3 kg	30391322	1100
2 kg	30391288	760	2 kg	30391101	880	2 kg	30391321	920
1 kg	30391287	482	1 kg	30391100	535	1 kg	30391320	580
500 g	30391286	226	500 g	30391099	232	500 g	30391319	310
300 g	30391285	159	300 g	30391098	185	300 g	30391318	243
200 g	30391284	141	200 g	30391097	171	200 g	30391317	225
100 g	80780063	93	100 g	30391096	123	100 g	80850287	148
50 g	80780075	93	50 g	30391095	116	50 g	80850297	145
30 g	30391281	80	30 g	30391094	116	30 g	30391314	141
20 g	80780068	80	20 g	30391093	106	20 g	80850292	137
10 g	80780062	74	10 g	30391092	106	10 g	80850286	133
5 g	80780074	58	5 g	30391091	90	5 g	80850296	128
3 g	30391277	58	3 g	30391090	87	3 g	30391310	128
2 g	80780067	58	2 g	30391089	87	2 g	80850291	128
1 g	80780061	58	1 g	30391088	87	1 g	80850285	122
500 mg	80780073	38	500 mg	30391087	73	500 mg	80850295	105
300 mg	30391273	38	300 mg	30391086	73	300 mg	30391306	105
200 mg	80780066	38	200 mg	30391085	73	200 mg	80850290	105
100 mg	80780060	38	100 mg	30391084	73	100 mg	80850284	105
50 mg	80780072	38	50 mg	30391083	73	50 mg	80850294	105
30 mg	30391269	38	30 mg	30391082	73	30 mg	30391302	105
20 mg	80780065	38	20 mg	30391081	73	20 mg	80850289	105
10 mg	80780059	38	10 mg	30391080	73	10 mg	80850283	105
5 mg	80780071	38	5 mg	30391079	73	5 mg	80850293	105
3 mg	30391265	38	3 mg	30391078	73	3 mg	30391298	105
2 mg	80780064	38	2 mg	30391077	73	2 mg	80850288	105
1 mg	80780058	38	1 mg	30391076	73	1 mg	80850282	105



Weights by
TROEMNER

CAL-PAKS

Designed for Routine Maintenance of Your Balance

The three weights included in the set will test the accuracy and linearity of your balance throughout its entire range.

Cal-Pak components and carrying case are linked through the use of a unique serial number. You can trace your individual weights to the appropriate NVLAP Certificate and master carrying case.

Cal-Paks are supplied in a case with accessories for care and handling of the weights including gloves and forceps.

Without Certificate

Model	Item No.	List Price (USD)
2 G-1 MG CAL-PAK ULTRAClass W/ NVLAP	30391799	423
5 G-1 MG CAL-PAK ULTRAClass W/ NVLAP	30391798	423
20 G-20 MG CAL-PAK CL 1 W/ NVLAP	30391797	416
20 G-200 MG CAL-PAK CL 1 W/ NVLAP	30391796	416
50 G-200 MG CAL-PAK CL 1 W/ NVLAP	30390007	404
50 G-2 G CAL-PAK CL 1 W/ NVLAP	30391795	404
100 G-20 MG CAL-PAK CL 1 W/ NVLAP	30391794	404
100 G-200 MG CAL-PAK CL 1 W/ NVLAP	30391793	404
100 G-2 G CAL-PAK CL 1 W/ NVLAP	30391792	419
200 G-200 MG CAL-PAK CL 1 W/ NVLAP	30391791	472
200 G-2 G CAL-PAK CL 1 W/ NVLAP	30391790	472
500 G-20 MG CAL-PAK CL 1 W/ NVLAP	30391789	600
500 G-200 MG CAL-PAK CL 1 W/ NVLAP	30391788	600
500 G-2 G CAL-PAK CL 1 W/ NVLAP	30391787	600
1 KG-2 G CAL-PAK CL 1 W/ NVLAP	30391786	735
1 KG-20 G CAL-PAK CL 1 W/ NVLAP	30391785	880
2 KG-2 G CAL-PAK CL 1 W/ NVLAP	30391784	1075
2 KG-20 G CAL-PAK CL 1 W/ NVLAP	30391783	1375
5 KG-2 G CAL-PAK CL 1 W/ NVLAP	30390006	1445
5 KG-2 G CAL-PAK CLASS 1 W/ NVLAP	30390005	1535
5 KG-20 G CAL-PAK CL 1 W/ NVLAP	30391782	1600
5 KG-20 G CAL-PAK CLASS 1 W/ NVLAP	30390004	1575
5 KG-2 G CAL-PAK CL 1 W/ NVLAP	30390003	1580
5 KG-2 G CAL-PAK CLASS 1 W/ NVLAP	30390002	1675
5 KG-20 G CAL-PAK CL 1 W/ NVLAP	30390001	1515
5 KG-20 G CAL-PAK CLASS 1 W/ NVLAP	30390000	1675



Weights by



TROEMNER ULTRAClass WEIGHT SETS

Weight tolerance is equal to ANSI/ASTM E617 Class 0

UltraClass weights combine high precision with the advantage of two-piece construction (1 g and larger) avoiding costly replacement issues associated with one-piece weights.

Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.

Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
50 kg-1 g	30390097	26430	50 kg-1 g	30390134	28440	50 kg-1 g	30390171	28930
50 kg-1 mg	30390096	26910	50 kg-1 mg	30390133	29550	50 kg-1 mg	30390170	29960
30 kg-1 g	30390095	18460	30 kg-1 g	30390132	20260	30 kg-1 g	30390169	20670
30 kg-1 mg	30390094	19340	30 kg-1 mg	30390131	21130	30 kg-1 mg	30390168	21930
25 kg-1 g	30390093	18130	25 kg-1 g	30390130	18520	25 kg-1 g	30390167	18860
25 kg-1 mg	30390092	18700	25 kg-1 mg	30390129	19220	25 kg-1 mg	30390166	19940
20 kg-1 g	30390091	11770	20 kg-1 g	30390128	13190	20 kg-1 g	30390165	13480
20 kg-1 mg	30390090	12090	20 kg-1 mg	30390127	13980	20 kg-1 mg	30390164	14740
10 kg-1 g	30390089	9190	10 kg-1 g	30390126	9535	10 kg-1 g	30390163	10050
10 kg-1 mg	30390088	9670	10 kg-1 mg	30390125	10490	10 kg-1 mg	30390162	11230
5 kg-1 g	30390087	6290	5 kg-1 g	30390124	6995	5 kg-1 g	30390161	7685
5 kg-1 mg	30390086	6935	5 kg-1 mg	30390123	7985	5 kg-1 mg	30390160	8745
2 - 2 kg-1 g	30390011	5000	2 - 2 kg-1 g	30390015	5805	2 - 2 kg-1 g	30390019	6185
2 - 2 kg-1 mg	30390010	5485	2 - 2 kg-1 mg	30390014	6755	2 - 2 kg-1 mg	30390018	7440
2 kg-1 g	30390085	4195	2 kg-1 g	30390122	4610	2 kg-1 g	30390159	4945
2 kg-1 mg	30390084	4840	2 kg-1 mg	30390121	5485	2 kg-1 mg	30390158	6170
1 kg-1 g	30390083	3105	1 kg-1 g	30390120	3590	1 kg-1 g	30390157	4005
1 kg-1 mg	30390082	3790	1 kg-1 mg	30390119	4565	1 kg-1 mg	30390156	5235
500 g-1 g	30390081	2100	500 g-1 g	30390118	2625	500 g-1 g	30390155	2965
500 g-1 mg	30390080	2740	500 g-1 mg	30390117	3580	500 g-1 mg	30390154	4225
2 - 200 g-1 g	30390009	1190	2 - 200 g-1 g	30390013	1440	2 - 200 g-1 g	30390017	1840
2 - 200 g-1 mg	30390008	1680	2 - 200 g-1 mg	30390012	2425	2 - 200 g-1 mg	30390016	3285
200 g-1 g	30390079	1075	200 g-1 g	30390116	1260	200 g-1 g	30390153	1665
200 g-1 mg	30390078	1535	200 g-1 mg	30390115	2220	200 g-1 mg	30390152	2930
100 g-1 g	30390077	900	100 g-1 g	30390114	1080	100 g-1 g	30390151	1455
100 g-100 mg	30390076	1100	100 g-100 mg	30390113	1350	100 g-100 mg	30390150	1900
100 g-10 mg	30390075	1325	100 g-10 mg	30390112	1710	100 g-10 mg	30390149	2335
100 g-5 mg	30390074	1380	100 g-5 mg	30390111	1770	100 g-5 mg	30390148	2210
100 g-1 mg	30390073	1435	100 g-1 mg	30390110	1900	100 g-1 mg	30390147	2685
50 g-1 g	30390072	965	50 g-1 g	30390109	1095	50 g-1 g	30390146	1395
50 g-100 mg	30390071	1060	50 g-100 mg	30390108	1360	50 g-100 mg	30390145	1780
50 g-10 mg	30390070	1260	50 g-10 mg	30390107	1680	50 g-10 mg	30390144	2210
50 g- 5 mg	30390069	1330	50 g- 5 mg	30390106	1785	50 g- 5 mg	30390143	2145
50 g-1 mg	30390068	1515	50 g-1 mg	30390105	1925	50 g-1 mg	30390142	2565
20 g-1 g	30390067	810	20 g-1 g	30390104	955	20 g-1 g	30390141	1090
20 g-100 mg	30390066	1010	20 g-100 mg	30390103	1150	20 g-100 mg	30390140	1590
20 g-10 mg	30390065	1195	20 g-10 mg	30390102	1565	20 g-10 mg	30390139	1915
20 g-5 mg	30390064	1280	20 g-5 mg	30390101	1465	20 g-5 mg	30390138	1990
20 g-1 mg	30390063	1460	20 g-1 mg	30390100	1820	20 g-1 mg	30390137	2295
500 mg-10 mg	30390062	585	500 mg-10 mg	30390099	915	500 mg-10 mg	30390136	1210
500 mg-1 mg	30390061	875	500 mg-1 mg	30390098	1075	500 mg-1 mg	30390135	1505



Weights by

 **TROEMNER**

ASTM CLASS I WEIGHT SETS

Adjusted to meet ASTM Class 1 Tolerances

Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg.

Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.

Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.

Without Certificate		
Model	Item No.	List Price (USD)
50 kg-1 g	30391360	22730
50 kg-1 mg	30391359	23210
30 kg-1 g	30391358	15960
30 kg-1 mg	30391357	16520
25 kg-1 g	30391356	15640
25 kg-1 mg	30391355	16120
20 kg-1 g	30391354	10160
20 kg-1 mg	30391353	11770
10 kg-1 g	30391352	7980
10 kg-1 mg	30391351	8380
5 kg-1 g	30391350	5445
5 kg-1 mg	30391349	5965
2 - 2 kg-1 g	30390054	4355
2 - 2 kg-1 mg	30390053	4675
2 kg-1 g	30391348	3545
2 kg-1 mg	30391347	4195
1 kg-1 g	30391346	2660
1 kg-1 mg	30391345	3265
500 g-1 g	30391344	1810
500 g-1 mg	30391343	2450
2 - 200 g-1 g	80781033	980
2 - 200 g-1 mg	80781031	1445
200 g-1 g	30391342	880
200 g-1 mg	30391341	1320
100 g-1 g	80781029	755
100 g-100 mg	30391340	890
100 g-10 mg	30391339	1100
100 g-5 mg	30391338	1160
100 g-1 mg	80781027	1250
50 g-1 g	80781025	730
50 g-100 mg	30391337	880
50 g-10 mg	30391336	1015
50 g- 5 mg	30391335	1085
50 g-1 mg	80781023	1200
20 g-1 g	30391334	680
20 g-100 mg	30391333	820
20 g-10 mg	30391332	975
20 g-5 mg	30391331	1010
20 g-1 mg	30391330	1175
500 mg-10 mg	30391329	494
500 mg-1 mg	80781021	690

Traceable Certificate		
Model	Item No.	List Price (USD)
50 kg-1 g	30391574	24790
50 kg-1 mg	30391573	25740
30 kg-1 g	30391572	17640
30 kg-1 mg	30391571	18430
25 kg-1 g	30391570	16050
25 kg-1 mg	30391569	16840
20 kg-1 g	30391568	11280
20 kg-1 mg	30391567	12160
10 kg-1 g	30391566	8265
10 kg-1 mg	30391565	9140
5 kg-1 g	30391564	6120
5 kg-1 mg	30391563	6915
2 - 2 kg-1 g	30390060	5005
2 - 2 kg-1 mg	30390059	5880
2 kg-1 g	30391562	3935
2 kg-1 mg	30391561	4760
1 kg-1 g	30391560	3130
1 kg-1 mg	30391559	3960
500 g-1 g	30391558	2275
500 g-1 mg	30391557	3150
2 - 200 g-1 g	30390058	1385
2 - 200 g-1 mg	30390057	2225
200 g-1 g	30391556	1205
200 g-1 mg	30391555	1990
100 g-1 g	30391554	990
100 g-100 mg	30391553	1230
100 g-10 mg	30391552	1545
100 g-5 mg	30391551	1565
100 g-1 mg	30391550	1770
50 g-1 g	30391549	995
50 g-100 mg	30391548	1175
50 g-10 mg	30391547	1405
50 g- 5 mg	30391546	1495
50 g-1 mg	30391545	1695
20 g-1 g	30391544	810
20 g-100 mg	30391543	1045
20 g-10 mg	30391542	1350
20 g-5 mg	30391541	1375
20 g-1 mg	30391540	1615
500 mg-10 mg	30391539	795
500 mg-1 mg	30391538	990

NVLAP Certificate		
Model	Item No.	List Price (USD)
50 kg-1 g	30391392	25140
50 kg-1 mg	30391391	26050
30 kg-1 g	30391390	18050
30 kg-1 mg	30391389	19080
25 kg-1 g	30391388	16350
25 kg-1 mg	30391387	17340
20 kg-1 g	30391386	11680
20 kg-1 mg	30391385	12760
10 kg-1 g	30391384	8710
10 kg-1 mg	30391383	9770
5 kg-1 g	30391382	6515
5 kg-1 mg	30391381	7590
2 - 2 kg-1 g	30390056	5395
2 - 2 kg-1 mg	30390055	6470
2 kg-1 g	30391380	4295
2 kg-1 mg	30391379	5370
1 kg-1 g	30391378	3470
1 kg-1 mg	30391377	4540
500 g-1 g	30391376	2590
500 g-1 mg	30391375	3815
2 - 200 g-1 g	80781034	1590
2 - 200 g-1 mg	80781032	2835
200 g-1 g	30391374	1395
200 g-1 mg	30391373	2610
100 g-1 g	80781030	1310
100 g-100 mg	30391372	1655
100 g-10 mg	30391371	2115
100 g-5 mg	30391370	1915
100 g-1 mg	80781028	2455
50 g-1 g	80781026	1255
50 g-100 mg	30391369	1575
50 g-10 mg	30391368	1970
50 g- 5 mg	30391367	2045
50 g-1 mg	80781024	2295
20 g-1 g	30391366	950
20 g-100 mg	30391365	1305
20 g-10 mg	30391364	1590
20 g-5 mg	30391363	1670
20 g-1 mg	30391362	2075
500 mg-10 mg	30391361	1055
500 mg-1 mg	80781022	1255



Weights by

 **TROEMNER**

ASTM CLASS 4 WEIGHT SETS

Adjusted to meet ASTM Class 4 Tolerances

Can be used for calibration of semi-analytical balances and for student use.

Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.

Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
50 kg - 1 g	30391228	18700	50 kg - 1 g	30391075	21450	50 kg - 1 g	30391262	22110
50 kg - 1 mg	30391227	18980	50 kg - 1 mg	30391074	22240	50 kg - 1 mg	30391261	22640
30 kg - 1 g	30391226	13060	30 kg - 1 g	30391073	15210	30 kg - 1 g	30391260	15630
30 kg - 1 mg	30391225	13580	30 kg - 1 mg	30391072	15890	30 kg - 1 mg	30391259	16530
25 kg - 1 g	30391224	12660	25 kg - 1 g	30391071	13910	25 kg - 1 g	30391258	14200
25 kg - 1mg	30391223	13300	25 kg - 1mg	30391070	14620	25 kg - 1mg	30391257	15100
20 kg - 1 g	30391222	8345	20 kg - 1 g	30391069	9775	20 kg - 1 g	30391256	10160
20 kg - 1 mg	30391221	9785	20 kg - 1 mg	30391068	10490	20 kg - 1 mg	30391255	11150
10 kg - 1 g	30391220	6530	10 kg - 1 g	30391067	7150	10 kg - 1 g	30391254	7555
10 kg - 1 mg	30391219	6885	10 kg - 1 mg	30391066	7865	10 kg - 1 mg	30391253	8490
5 kg - 1 g	30391218	4500	5 kg - 1 g	30391065	5245	5 kg - 1 g	30391252	5665
5 kg - 1 mg	30391217	4885	5 kg - 1 mg	30391064	6040	5 kg - 1 mg	30391251	6455
2 - 2kg-1 g	30390048	3545	2 - 2kg-1 g	30390044	4370	2 - 2kg-1 g	30390052	4660
2 - 2 kg-1 mg	30390047	4175	2 - 2 kg-1 mg	30390043	5085	2 - 2 kg-1 mg	30390051	5750
2 kg - 1 g	30391216	2935	2 kg - 1 g	30391063	3420	2 kg - 1 g	30391250	3770
2 kg - 1 mg	30391215	3420	2 kg - 1 mg	30391062	4110	2 kg - 1 mg	30391249	4770
1 kg - 1 g	30391214	2210	1 kg - 1 g	30391061	2700	1 kg - 1 g	30391248	3150
1 kg - 1 mg	30391213	2710	1 kg - 1 mg	30391060	3420	1 kg - 1 mg	30391247	3955
500 g - 1 g	30391212	1480	500 g - 1 g	30391059	1970	500 g - 1 g	30391246	2295
500 g - 1 mg	30391211	1905	500 g - 1 mg	30391058	2690	500 g - 1 mg	30391245	3185
2 - 200 g - 1 g	30390046	785	2 - 200 g - 1 g	30390042	900	2 - 200 g - 1 g	30390050	1135
2 - 200 g - 1 mg	30390045	1010	2 - 200 g - 1 mg	30390041	1465	2 - 200 g - 1 mg	30390049	1900
200 g - 1 g	30391210	675	200 g - 1 g	30391057	855	200 g - 1 g	30391244	990
200 g - 1 mg	30391209	925	200 g - 1 mg	30391056	1250	200 g - 1 mg	30391243	1750
100 g - 1 g	30391208	625	100 g - 1 g	30391055	765	100 g - 1 g	30391242	885
100 g - 100 mg	30391207	715	100 g - 100 mg	30391054	925	100 g - 100 mg	30391241	1200
100 g - 10 mg	30391206	850	100 g - 10 mg	30391053	1060	100 g - 10 mg	30391240	1435
100 g - 5 mg	30391205	855	100 g - 5 mg	30391052	1175	100 g - 5 mg	30391239	1490
100 g - 1 mg	80780101	875	100 g - 1 mg	30391051	1230	100 g - 1 mg	80850265	1685
50 g - 1 g	30391204	478	50 g - 1 g	30391050	590	50 g - 1 g	30391238	815
50 g - 100 mg	30391203	570	50 g - 100 mg	30391049	740	50 g - 100 mg	30391237	1045
50 g - 10 mg	30391202	665	50 g - 10 mg	30391048	955	50 g - 10 mg	30391236	1395
50 g - 5 mg	30391201	690	50 g - 5 mg	30391047	1130	50 g - 5 mg	30391235	1530
50 g - 1 mg	80780111	760	50 g - 1 mg	30391046	1165	50 g - 1 mg	80850264	1575
20 g - 1 g	30391200	397	20 g - 1 g	30391045	505	20 g - 1 g	30391234	715
20 g - 100 mg	30391199	473	20 g - 100 mg	30391044	640	20 g - 100 mg	30391233	840
20 g - 10 mg	30391198	525	20 g - 10 mg	30391043	760	20 g - 10 mg	30391232	1025
20 g - 5 mg	30391197	575	20 g - 5 mg	30391042	890	20 g - 5 mg	30391231	1235
20 g - 1 mg	30391196	640	20 g - 1 mg	30391041	995	20 g - 1 mg	30391230	1415
500 mg - 10 mg	30391195	244	500 mg - 10 mg	30391040	477	500 mg - 10 mg	30391229	770
500 mg - 1 mg	80780100	355	500 mg - 1 mg	30391039	585	500 mg - 1 mg	80850263	850



Weights by

 **TROEMNER**

ASTM CLASS I ELECTRONIC BALANCE WEIGHTS

Adjusted to meet ASTM Class 1 Tolerances

Can be used to check or verify the accuracy of your balance and/or scale between calibrations.

Weights are available in a cylindrical design up through 5 kg and a stackable grip-handle design from 5 kg through 30 kg for all necessary testing, calibration and adjustment of electronic scales and balances.

Weights 10 g through 10 kg are supplied in a high quality polycarbonate case; a nylon glove is included to protect weights during use.

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
30 kg grip	80781007	2200	30 kg grip	30391520	2395	30 kg grip	80781008	2490
25 kg grip	30391488	1880	25 kg grip	30391519	1960	25 kg grip	30391537	1990
24 kg grip	30391487	1825	24 kg grip	30391518	1920	24 kg grip	30391536	1915
20 kg grip	80781005	1565	20 kg grip	30391517	1665	20 kg grip	80781006	1675
16 kg grip	30391485	1460	16 kg grip	30391516	1510	16 kg grip	30391535	1535
10 kg grip	80781003	1045	10 kg grip	30391515	1145	10 kg grip	80781004	1180
8 kg grip	30391483	1010	8 kg grip	30391514	1085	8 kg grip	30391534	1120
5 kg grip	80781001	765	5 kg grip	30391513	815	5 kg grip	80781002	910
5 kg cyl	30391481	695	5 kg cyl	30391512	765	5 kg cyl	30391533	835
4 kg grip	30391480	710	4 kg grip	30391511	745	4 kg grip	30391532	865
4 kg cyl	80780027	600	4 kg cyl	30391510	685	4 kg cyl	80850275	750
3 kg cyl	30391478	358	3 kg cyl	30391509	442	3 kg cyl	30391531	510
2 kg cyl	80780024	220	2 kg cyl	30391508	295	2 kg cyl	80850272	376
1500 g cyl	30391476	199	1500 g cyl	30391507	289	1500 g cyl	30391530	365
1000 g cyl	80780021	192	1000 g cyl	30391506	277	1000 g cyl	80850269	339
600 g cyl	30391474	189	600 g cyl	30391505	248	600 g cyl	30391529	318
500 g cyl	80780029	150	500 g cyl	30391504	219	500 g cyl	80850277	283
400 g cyl	80780026	148	400 g cyl	30391503	208	400 g cyl	80850274	276
300 g cyl	30391471	136	300 g cyl	30391502	195	300 g cyl	30391528	267
200 g cyl	80780023	130	200 g cyl	30391501	190	200 g cyl	80850271	262
160 g cyl	30391469	128	160 g cyl	30391500	187	160 g cyl	30391527	258
150 g cyl	30391468	114	150 g cyl	30391499	174	150 g cyl	30391526	243
100 g cyl	80780020	109	100 g cyl	30391498	148	100 g cyl	80850268	169
80 g cyl	30391466	105	80 g cyl	30391497	144	80 g cyl	30391525	169
70 g cyl	30391465	102	70 g cyl	30391496	142	70 g cyl	30391524	169
60 g cyl	30391464	97	60 g cyl	30391495	140	60 g cyl	30391523	169
50 g cyl	80780028	93	50 g cyl	30391494	138	50 g cyl	80850276	169
40 g cyl	80780025	93	40 g cyl	30391493	138	40 g cyl	80850273	169
30 g cyl	30391461	93	30 g cyl	30391492	138	30 g cyl	30391522	169
20 g cyl	80780022	93	20 g cyl	30391491	138	20 g cyl	80850270	169
10 g cyl	30391459	93	10 g cyl	30391490	138	10 g cyl	30391521	169



Weights by
TROEMNER

ASTM CLASS 4 ELECTRONIC BALANCE WEIGHTS

Adjusted to meet ASTM Class 4 Tolerances

Can be used to check or verify the accuracy of your balance and/or scale between calibrations.

Weights are available in a cylindrical design up through 5 kg and a stackable grip-handle design from 5 kg through 30 kg for all necessary testing, calibration and adjustment of electronic scales and balances.

Weights 10 g through 10 kg are supplied in a high quality polycarbonate case; a nylon glove is included to protect weights during use.

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
30 kg grip	30391139	1515	30 kg grip	30391170	1710	30 kg grip	30391194	1830
25 kg grip	30391138	1350	25 kg grip	30391169	1355	25 kg grip	30391193	1450
24 kg grip	30391137	1285	24 kg grip	30391168	1320	24 kg grip	30391192	1410
20 kg grip	30391136	1100	20 kg grip	30391167	1160	20 kg grip	30391191	1240
16 kg grip	30391135	965	16 kg grip	30391166	1070	16 kg grip	30391190	1140
10 kg grip	30391134	740	10 kg grip	30391165	800	10 kg grip	30391189	855
8 kg grip	30391133	720	8 kg grip	30391164	735	8 kg grip	30391188	785
5 kg grip	30391132	500	5 kg grip	30391163	540	5 kg grip	30391187	625
5 kg cyl	30391131	482	5 kg cyl	30391162	510	5 kg cyl	30391186	580
4 kg grip	30391130	467	4 kg grip	30391161	520	4 kg grip	30391185	560
4 kg cyl	30391129	472	4 kg cyl	30391160	483	4 kg cyl	30391184	550
3 kg cyl	30391128	293	3 kg cyl	30391159	340	3 kg cyl	30391183	378
2 kg cyl	80780145	187	2 kg cyl	30391158	251	2 kg cyl	80780146	271
1500 g cyl	30391126	184	1500 g cyl	30391157	250	1500 g cyl	30391182	330
1000 g cyl	80780143	174	1000 g cyl	30391156	209	1000 g cyl	80780144	237
600 g cyl	30391124	163	600 g cyl	30391155	194	600 g cyl	30391181	224
500 g cyl	80780141	127	500 g cyl	30391154	162	500 g cyl	80780142	215
400 g cyl	80780139	127	400 g cyl	30391153	157	400 g cyl	80780140	199
300 g cyl	80780137	114	300 g cyl	30391152	150	300 g cyl	80780138	191
200 g cyl	80780135	111	200 g cyl	30391151	148	200 g cyl	80780136	189
160 g cyl	30391119	107	160 g cyl	30391150	143	160 g cyl	30391180	205
150 g cyl	30391118	97	150 g cyl	30391149	148	150 g cyl	30391179	205
100 g cyl	80780133	93	100 g cyl	30391148	119	100 g cyl	80780134	140
80 g cyl	30391116	90	80 g cyl	30391147	113	80 g cyl	30391178	140
70 g cyl	30391115	88	70 g cyl	30391146	113	70 g cyl	30391177	140
60 g cyl	30391114	87	60 g cyl	30391145	113	60 g cyl	30391176	140
50 g cyl	30391113	84	50 g cyl	30391144	110	50 g cyl	30391175	132
40 g cyl	30391112	78	40 g cyl	30391143	104	40 g cyl	30391174	132
30 g cyl	30391111	78	30 g cyl	30391142	104	30 g cyl	30391173	132
20 g cyl	30391110	78	20 g cyl	30391141	104	20 g cyl	30391172	132
10 g cyl	30391109	78	10 g cyl	30391140	104	10 g cyl	30391171	132



Weights by
 **TROEMNER**

OIML E1 & E2 INDIVIDUAL WEIGHTS

Manufactured to meet OIML R 111 weight specifications

OIML R 111 weight specifications are designed so the specifications on surface finish, markings, construction, material density and magnetic properties become more restrictive as weight tolerances decrease in order to enable the weight to maintain its tolerance over time.

Weights 1 g and above are one-piece construction. Weights 1 g and larger are cylindrical in shape with a tapered neck for easy gripping. They are perfectly flat on top to stack easily on center. Weight bottoms are slightly recessed to expose the smallest possible area to wear.

Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.

E1 Weights NVLAP		
Model	Item No.	List Price (USD)
50 kg	30390927	10840
20 kg	30390928	4935
10 kg	30390929	3245
5 kg	30390930	2405
2 kg	30390931	1755
1 kg	30390932	1195
500 g	30390933	980
200 g	30390934	800
100 g	30390935	710
50 g	30390936	635
20 g	30390937	600
10 g	30390938	575
5 g	30390939	555
2 g	30390940	535
1 g	30390941	535
500 mg	30390942	289
200 mg	30390943	289
100 mg	30390944	289
50 mg	30390945	289
20 mg	30390946	289
10 mg	30390947	289
5 mg	30390948	289
2 mg	30390949	289
1 mg	30390950	289

E2 Weights NVLAP		
Model	Item No.	List Price (USD)
50 kg	30390903	9600
20 kg	80780306	3120
10 kg	80780305	2415
5 kg	80780304	1385
2 kg	80780303	875
1 kg	80780302	650
500 g	80780301	453
200 g	80780300	358
100 g	80780299	271
50 g	80780298	244
20 g	80780297	234
10 g	80780296	226
5 g	80780295	220
2 g	80780294	214
1 g	80780293	214
500 mg	80780292	134
200 mg	80780291	134
100 mg	80780290	134
50 mg	80780289	134
20 mg	80780288	134
10 mg	80780287	134
5 mg	80780286	134
2 mg	80780285	134
1 mg	80780284	134



Weights by
TROEMNER

OIML F1 & F2 INDIVIDUAL WEIGHTS

Manufactured to meet OIML R 111 weight specifications

OIML R 111 weight specifications are designed so the specifications on surface finish, markings, construction, material density and magnetic properties become more restrictive as weight tolerances decrease in order to enable the weight to maintain its tolerance over time.

Weights 1 g and above are two-piece construction. OIML Calibration Weights 1 g and larger are cylindrical in shape with a tapered neck for easy gripping. They are perfectly flat on top to stack easily on center. Weight bottoms are slightly recessed to expose the smallest possible area to wear.

Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.

F1 Weights Without Certificate

Model	Item No.	List Price (USD)
50 kg	80780330	6855
20 kg	80780329	2480
10 kg	80780328	1785
5 kg	80780327	1050
2 kg	80780326	615
1 kg	80780325	434
500 g	80780324	250
200 g	80780323	195
100 g	80780322	139
50 g	80780321	121
20 g	80780320	121
10 g	80780319	121
5 g	80780318	121
2 g	80780317	121
1 g	80780316	121
500 mg	80780315	51
200 mg	80780314	51
100 mg	80780313	51
50 mg	80780312	51
20 mg	80780311	51
10 mg	80780310	51
5 mg	80780309	51
2 mg	80780308	51
1 mg	80780307	51

F1 Weights NVLAP Certificate

50 kg	30390901	6920
20 kg	80780353	2610
10 kg	80780352	1910
5 kg	80780351	1200
2 kg	80780350	770
1 kg	80780349	565
500 g	80780348	381
200 g	80780347	326
100 g	80780346	196
50 g	80780345	180
20 g	80780344	180
10 g	80780343	180
5 g	80780342	180
2 g	80780341	180
1 g	80780340	180
500 mg	80780339	108
200 mg	80780338	108
100 mg	80780337	108
50 mg	80780336	108
20 mg	80780335	108
10 mg	80780334	108
5 mg	80780333	108
2 mg	80780332	108
1 mg	80780331	108

F2 Weights Without Certificate

Model	Item No.	List Price (USD)
50 kg	30390853	4855
20 kg	30390854	2140
10 kg	30390855	1340
5 kg	30390856	735
2 kg	30390857	580
1 kg	30390858	374
500 g	30390859	250
200 g	30390860	190
100 g	30390861	116
50 g	30390862	116
20 g	30390863	116
10 g	30390864	116
5 g	30390865	116
2 g	30390866	116
1 g	30390867	116
500 mg	30390868	45
200 mg	30390869	45
100 mg	30390870	45
50 mg	30390871	45
20 mg	30390872	45
10 mg	30390873	45
5 mg	30390874	45
2 mg	30390875	45
1 mg	30390876	45

F2 Weights NVLAP Certificate

50 kg	30390877	4980
20 kg	30390878	2335
10 kg	30390879	1495
5 kg	30390880	885
2 kg	30390881	735
1 kg	30390882	505
500 g	30390883	381
200 g	30390884	321
100 g	30390885	174
50 g	30390886	174
20 g	30390887	174
10 g	30390888	142
5 g	30390889	174
2 g	30390890	174
1 g	30390891	174
500 mg	30390892	103
200 mg	30390893	103
100 mg	30390894	103
50 mg	30390895	103
20 mg	30390896	103
10 mg	30390897	103
5 mg	30390898	103
2 mg	30390899	103
1 mg	30390900	103



Weights by



OIML E1 & E2 WEIGHT SETS

Manufactured to meet OIML R 111 weight specifications

OIML R 111 weight specifications are designed so the specifications on surface finish, markings, construction, material density and magnetic properties become more restrictive as weight tolerances decrease in order to enable the weight to maintain its tolerance over time.

Weights 1 g and above are one-piece construction. Weights 1 g and larger are cylindrical in shape with a tapered neck for easy gripping. They are perfectly flat on top to stack easily on center. Weight bottoms are slightly recessed to expose the smallest possible area to wear.

Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.

E1 Sets NVLAP

Model	Item No.	List Price (USD)
50 kg - 1 g	30390904	40880
50 kg - 1 mg	30390905	42180
20 kg - 1 g	30390906	19470
20 kg - 1 mg	30390907	20770
10 kg - 1 g	30390908	15580
10 kg - 1 mg	30390909	16100
5 kg - 1 g	30390910	7270
5 kg - 1 mg	30390911	11580
5 kg - 1 mg	30390912	12460
2 kg - 1 g	30390913	7270
2 kg - 1 mg	30390914	9250
(2) 2 kg - 1 g	30390037	8700
(2) 2 kg - 1 mg	30390038	10390
1 kg - 1 g	30390915	6100
1 kg - 1 mg	30390916	7660
500 g - 1 g	30390917	5195
500 g - 1 mg	30390918	7010
200 g - 1 g	30390919	4415
200 g - 1 mg	30390920	5625
(2) 200 g - 1 g	30390039	4805
(2) 200 g - 1 mg	30390040	5845
100 g - 1 g	30390921	4025
100 g - 1 mg	30390922	5450
50 g - 1 g	30390923	3505
50 g - 1 mg	30390924	4545
5 g - 1 mg	30390925	3505
500 mg - 1 mg	30390926	2210

E2 Sets NVLAP

Model	Item No.	List Price (USD)
50 kg - 1 g	80780407	23490
50 kg - 1 mg	80780406	23880
20 kg - 1 g	80780405	11570
20 kg - 1 mg	80780404	12260
10 kg - 1 g	80780403	8700
10 kg - 1 mg	80780402	8960
5 kg - 1 g	80780401	4010
5 kg - 1 g	80780400	5975
5 kg - 1 mg	80780399	6880
2 kg - 1 g	80780398	4155
2 kg - 1 mg	80780397	5065
(2) 2 kg - 1 g	80780396	4750
(2) 2 kg - 1 mg	80780395	5260
1 kg - 1 g	80780394	3760
1 kg - 1 mg	80780393	4905
500 g - 1 g	80780392	2600
500 g - 1 mg	80780391	3270
200 g - 1 g	80780390	1690
200 g - 1 mg	80780389	2965
(2) 200 g - 1 g	80780388	2340
(2) 200 g - 1 mg	80780387	2860
100 g - 1 g	80780386	1335
100 g - 1 mg	80780385	2195
50 g - 1 g	80780384	1170
50 g - 1 mg	80780383	1950
5 g - 1 mg	80780382	1530
500 mg - 1 mg	80780381	1325



Weights by



OIML F1 & F2 WEIGHT SETS

Manufactured to meet OIML R 111 weight specifications

OIML R 111 weight specifications are designed so the specifications on surface finish, markings, construction, material density and magnetic properties become more restrictive as weight tolerances decrease in order to enable the weight to maintain its tolerance over time.

Weights 1 g and above are two-piece construction. OIML Calibration Weights 1 g and larger are cylindrical in shape with a tapered neck for easy gripping. They are perfectly flat on top to stack easily on center. Weight bottoms are slightly recessed to expose the smallest possible area to wear.

Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.

F1 Weights Without Certificate			F1 Weights NVLAP Certificate			F2 Weights Without Certificate			F2 Weights NVLAP Certificate		
Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)	Model	Item No.	List Price (USD)
50 kg - 1 g	80780434	15600	50 kg - 1 g	80780461	16880	50 kg - 1 g	30390807	13020	50 kg - 1 g	30390830	13240
50 kg - 1 mg	80780433	15060	50 kg - 1 mg	80780460	17520	50 kg - 1 mg	30390808	13300	50 kg - 1 mg	30390831	13890
20 kg - 1 g	80780432	9290	20 kg - 1 g	80780459	10640	20 kg - 1 g	30390809	8275	20 kg - 1 g	30390832	9625
20 kg - 1 mg	80780431	9565	20 kg - 1 mg	80780458	11330	20 kg - 1 mg	30390810	8505	20 kg - 1 mg	30390833	10270
10 kg - 1 g	80780430	7075	10 kg - 1 g	80780457	8315	10 kg - 1 g	30390811	6300	10 kg - 1 g	30390834	7540
10 kg - 1 mg	80780429	7320	10 kg - 1 mg	80780456	8895	10 kg - 1 mg	30390812	6505	10 kg - 1 mg	30390835	8085
5 kg - 1 kg	80780428	3490	5 kg - 1 kg	80780455	3800	5 kg - 1 kg	30390813	3180	5 kg - 1 kg	30390836	3585
5 kg - 1 g	80780427	4380	5 kg - 1 g	80780454	5510	5 kg - 1 g	30390814	3760	5 kg - 1 g	30390837	4890
5 kg - 1 mg	80780426	4650	5 kg - 1 mg	80780453	6125	5 kg - 1 mg	30390815	4260	5 kg - 1 mg	30390838	5730
2 kg - 1 g	80780425	2905	2 kg - 1 g	80780452	3790	2 kg - 1 g	30390816	2875	2 kg - 1 g	30390839	3760
2 kg - 1 mg	80780424	3760	2 kg - 1 mg	80780451	4850	2 kg - 1 mg	30390817	3260	2 kg - 1 mg	30390840	4635
(2) 2 kg - 1 g	80780423	3440	(2) 2 kg - 1 g	80780450	4445	(2) 2 kg - 1 g	30390029	3260	(2) 2 kg - 1 g	30390033	4320
(2) 2 kg - 1 mg	80780422	3930	(2) 2 kg - 1 mg	80780449	5010	(2) 2 kg - 1 mg	30390030	3310	(2) 2 kg - 1 mg	30390034	4765
1 kg - 1 g	80780421	2560	1 kg - 1 g	80780448	3535	1 kg - 1 g	30390818	2540	1 kg - 1 g	30390841	3305
1 kg - 1 mg	80780420	2760	1 kg - 1 mg	80780447	4420	1 kg - 1 mg	30390819	2665	1 kg - 1 mg	30390842	3935
500 g - 1 g	80780419	1450	500 g - 1 g	80780446	2120	500 g - 1 g	30390820	1285	500 g - 1 g	30390843	1955
500 g - 1 mg	80780418	1945	500 g - 1 mg	80780445	3125	500 g - 1 mg	30390821	1660	500 g - 1 mg	30390844	2835
200 g - 1 g	80780417	1020	200 g - 1 g	80780444	1590	200 g - 1 g	30390822	1000	200 g - 1 g	30390845	1460
200 g - 1 mg	80780416	1605	200 g - 1 mg	80780443	2760	200 g - 1 mg	30390823	1580	200 g - 1 mg	30390846	2555
(2) 200 g - 1 g	80780415	1105	(2) 200 g - 1 g	80780442	1655	(2) 200 g - 1 g	30390031	1050	(2) 200 g - 1 g	30390035	1570
(2) 200 g - 1 mg	80780414	1645	(2) 200 g - 1 mg	80780441	2720	(2) 200 g - 1 mg	30390032	1605	(2) 200 g - 1 mg	30390036	2675
100 g - 1 g	80780413	755	100 g - 1 g	80780440	1125	100 g - 1 g	30390824	720	100 g - 1 g	30390847	1095
100 g - 1 mg	80780412	1145	100 g - 1 mg	80780439	2015	100 g - 1 mg	30390825	900	100 g - 1 mg	30390848	1775
50 g - 1 g	80780411	655	50 g - 1 g	80780438	980	50 g - 1 g	30390826	645	50 g - 1 g	30390849	970
50 g - 1 mg	80780410	1075	50 g - 1 mg	80780437	1905	50 g - 1 mg	30390827	880	50 g - 1 mg	30390850	1710
5 g - 1 mg	80780409	640	5 g - 1 mg	80780436	1080	5 g - 1 mg	30390828	605	5 g - 1 mg	30390851	1060
500 mg - 1 mg	80780408	555	500 mg - 1 mg	80780435	1050	500 mg - 1 mg	30390829	550	500 mg - 1 mg	30390852	1045



Weights by



ASTM CLASS 6 WEIGHTS - CYLINDRICAL

Adjusted to Meet or Exceed ASTM Class 6 Tolerances

Weights from 1 g to 2 kg are Stainless Steel and
Weights 500 mg and below are Aluminum.

Weight Sets include a Weight Case.

Individual Weights do not include a case

Cylindrical Weights		
Model	Item No.	List Price (USD)
Weight Set, 500 mg-1 mg, ASTM 6, Cyl	80850110	81
Weight Set, 50 g-10 mg, ASTM 6, Cyl	80850111	190
Weight Set, 100 g-1 mg, ASTM 6, Cyl	80850112	228
Weight Set, 200 g-1 mg, ASTM 6, Cyl	80850113	279
Weight Set, 500 g-1 g, ASTM 6, Cyl	80850114	356
Weight Set, 1 kg-1 g, ASTM 6, Cyl	80850115	488
Weight Set, 2 kg-1 g, ASTM 6, Cyl	80850116	745
Weight Set, 50 g-1 g, ASTM 6, Cyl	80850117	156
Weight, 1 g, ASTM 6, Cyl, Body	80850118	17
Weight, 2 g, ASTM 6, Cyl, Body	80850119	17
Weight, 5 g, ASTM 6, Cyl, Body	80850120	18
Weight, 10 g, ASTM 6, Cyl, Body	80850121	20
Weight, 20 g, ASTM 6, Cyl, Body	80850122	23
Weight, 50 g, ASTM 6, Cyl, Body	80850123	25
Weight, 100 g, ASTM 6, Cyl, Body	80850124	35
Weight, 200 g, ASTM 6, Cyl, Body	80850125	45
Weight, 300 g, ASTM 6, Cyl, Body	80850126	59
Weight, 500 g, ASTM 6, Cyl, Body	80850127	72
Weight, 1 kg, ASTM 6, Cyl, Body	80850128	125
Weight, 2 kg, ASTM 6, Cyl, Body	80850129	199

Hooked Weights		
Model	Item No.	List Price (USD)
Weight Set, 1 kg-10 g, ASTM 6, Hooked	80850130	186
Weight, 10 g, Hooked	80850131	23
Weight, 20 g, Hooked	80850132	23
Weight, 50 g, Hooked	80850133	24
Weight, 100 g, Hooked	80850134	25
Weight, 200 g, Hooked	80850135	36
Weight, 500 g, Hooked	80850136	49
Weight, 1 kg, Hooked	80850137	90

Slotted Weights		
Model	Item No.	List Price (USD)
Weight Set, Slotted 500 g-10 g	80850138	153
Weight Set, Slotted 500 g-1 g	80850139	196
Weight Set, 1 g, ASTM 6, Slotted	80850140	25
Weight Set, 2 g, ASTM 6, Slotted	80850141	25
Weight Set, 5 g, ASTM 6, Slotted	80850142	25
Weight Set, 20 g, ASTM 6, Slotted	80850144	25
Weight Set, 50 g, ASTM 6, Slotted	80850145	25
Weight Set, 100 g, ASTM 6, Slotted	80850146	27
Weight Set, 200 g, ASTM 6, Slotted	80850147	34
Weight Set, 500 g, ASTM 6, Slotted	80850148	57
Weight, 50 g, Hanger	80850149	34



Weights by



NIST CLASS F CAST IRON GRIP WEIGHTS

Manufactured to meet NIST Handbook 105-1 specifications

Cast Iron Grip Handle Weights are primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.

Cast Iron Grip Handle Weights larger than 5 kg/10 lb are legal-for-trade, which means their design is acceptable for use in checking weighing devices where the price of the item being purchased is based on its weight.

All surfaces are smooth and free of scratches, dents and pores as outlined in NIST Handbook 105-1.

Without Certificate		
Model	Item No.	List Price (USD)
5000 lb	30391735	14920
3000 lb	30391734	9360
2500 lb	30391733	8400
2000 lb	30391732	7430
1500 lb	30391731	6495
1250 lb	30391730	5625
1000 lb	30391729	2630
500 lb	30391728	1690
250 lb	30391727	1550
200 lb	30391726	1350
100 lb	80850311	580
50 lb	80850310	138
30 lb	30391723	184
25 lb	80850309	124
20 lb	80850308	100
10 lb	80850307	78
5 lb	80850306	60

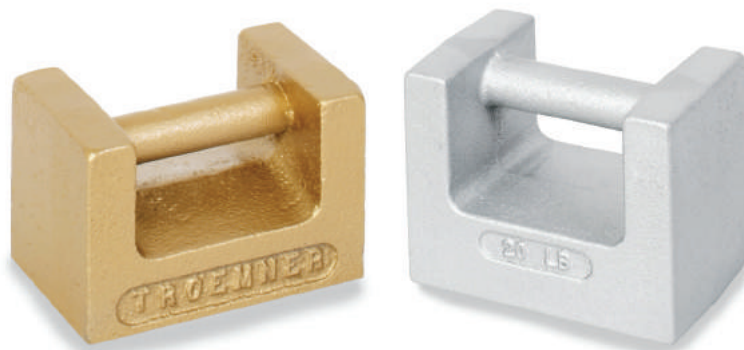
Traceable Certificate		
Model	Item No.	List Price (USD)
5000 lb	30391764	17060
3000 lb	30391763	10050
2500 lb	30391762	9275
2000 lb	30391761	7875
1500 lb	30391760	6735
1250 lb	30391759	6065
1000 lb	30391758	3345
500 lb	30391757	2260
250 lb	30391756	1900
200 lb	30391755	1670
100 lb	30391754	860
50 lb	30391753	228
30 lb	30391752	206
25 lb	30391751	192
20 lb	30391750	158
10 lb	30391749	130
5 lb	30391748	114

NVLAP Certificate		
Model	Item No.	List Price (USD)
5000 lb	30391781	17420
3000 lb	30391780	10790
2500 lb	30391779	9425
2000 lb	30391778	7990
1500 lb	30391777	7005
1250 lb	30391776	6185
1000 lb	30391775	2865
500 lb	30391774	1885
250 lb	30391773	1745
200 lb	30391772	1550
100 lb	30391771	685
50 lb	30391770	235
30 lb	30391769	266
25 lb	30391768	206
20 lb	30391767	175
10 lb	30391766	160
5 lb	30391765	147

Without Certificate		
Model	Item No.	List Price (USD)
1000 kg	30391717	7435
500 kg	30391716	3020
250 kg	30391715	1730
200 kg	30391714	1490
100 kg	30391713	1365
50 kg	80850305	600
25 kg	80850304	189
20 kg	80850303	141
10 kg	80850302	136
5 kg	80850301	82
2 kg	80850300	71

Traceable Certificate		
Model	Item No.	List Price (USD)
1000 kg	30391746	8110
500 kg	30391745	3750
250 kg	30391744	2145
200 kg	30391743	1940
100 kg	30391742	1705
50 kg	30391741	825
25 kg	30391740	261
20 kg	30391739	209
10 kg	30391738	162
5 kg	30391737	130
2 kg	30391736	112

NVLAP Certificate		
Model	Item No.	List Price (USD)
1000 kg	30391705	8225
500 kg	30391704	3845
250 kg	30391703	2250
200 kg	30391702	2040
100 kg	30391701	1810
50 kg	30391700	710
25 kg	30391699	235
20 kg	30391698	255
10 kg	30391697	205
5 kg	30391696	162
2 kg	30391695	146



Weights by
TROEMNER

NIST CLASS F STAINLESS STEEL INDIVIDUAL WEIGHTS

Manufactured to meet NIST Handbook 105-1 specifications

Stainless Steel Test Weights are primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.

Weights 5 kg /10 lb and below must be made of stainless steel of quality no lower than 300 series. Adjusting cavities are typically on the top of the weight and must be tamper resistant.

All surfaces have a satin finish and conform to specifications in NIST Handbook 105-1.

Without Certificate		
Model	Item No.	List Price (USD)
20 kg grip	30390593	870
16 kg grip	30390592	855
10 kg grip	30390591	630
8 kg grip	30390590	595
5 kg grip	30390589	370
5000 g	30390588	234
4000 g	30390587	216
3000 g	30390586	196
2000 g	30390585	139
1000 g	30390584	80
500 g	30390582	73
400 g	30390580	70
300 g	30390579	67
200 g	30390577	50
100 g	30390575	47
50 g	30390573	41
30 g	30390572	40
20 g	30390571	37
10 g	30390570	37
5 g	30390569	31
3 g	30390568	31
2 g	30390567	31
1 g	30390566	31

Traceable Certificate		
Model	Item No.	List Price (USD)
20 kg grip	30390657	1005
16 kg grip	30390656	985
10 kg grip	30390655	715
8 kg grip	30390654	675
5 kg grip	30390653	417
5000 g	30390652	292
4000 g	30390651	279
3000 g	30390650	266
2000 g	30390649	217
1000 g	30390648	170
500 g	30390646	158
400 g	30390644	156
300 g	30390643	132
200 g	30390641	114
100 g	30390639	103
50 g	30390637	99
30 g	30390636	98
20 g	30390635	98
10 g	30390634	98
5 g	30390633	92
3 g	30390632	92
2 g	30390631	92
1 g	30390630	92

NVLAP Certificate		
Model	Item No.	List Price (USD)
20 kg grip	30390721	1060
16 kg grip	30390720	1050
10 kg grip	30390719	760
8 kg grip	30390718	735
5 kg grip	30390717	510
5000 g	30390716	355
4000 g	30390715	338
3000 g	30390714	321
2000 g	30390713	258
1000 g	30390712	199
500 g	30390710	188
400 g	30390708	188
300 g	30390707	154
200 g	30390705	139
100 g	30390703	121
50 g	30390701	121
30 g	30390700	112
20 g	30390699	112
10 g	30390698	112
5 g	30390697	102
3 g	30390696	102
2 g	30390695	102
1 g	30390694	102

Without Certificate		
Model	Item No.	List Price (USD)
20 lb. grip	30390550	580
10 lb. grip	30390549	352
10 lb.	30390548	230
5 lb.	30390547	149
4 lb.	30390546	141
3 lb.	30390545	131
2 lb.	30390544	93
1 lb.	30390542	67
12 oz	30390540	57
8 oz	30390539	53
8 oz cube	30390538	119
4 oz	30390537	48
4 oz cube	30390536	106
2 oz	30390535	43
2 oz cube	30390534	97
1 oz	30390533	40

Traceable Certificate		
Model	Item No.	List Price (USD)
20 lb. grip	30390614	645
10 lb. grip	30390613	505
10 lb.	30390612	304
5 lb.	30390611	237
4 lb.	30390610	230
3 lb.	30390609	223
2 lb.	30390608	186
1 lb.	30390606	171
12 oz	30390604	116
8 oz	30390603	112
8 oz cube	30390602	162
4 oz	30390601	109
4 oz cube	30390600	154
2 oz	30390599	105
2 oz cube	30390598	146
1 oz	30390597	103

NVLAP Certificate		
Model	Item No.	List Price (USD)
20 lb. grip	30390678	725
10 lb. grip	30390677	615
10 lb.	30390676	362
5 lb.	30390675	283
4 lb.	30390674	278
3 lb.	30390673	270
2 lb.	30390672	225
1 lb.	30390670	208
12 oz	30390668	139
8 oz	30390667	139
8 oz cube	30390666	189
4 oz	30390665	129
4 oz cube	30390664	181
2 oz	30390663	128
2 oz cube	30390662	174
1 oz	30390661	121



Weights by



NIST CLASS F STAINLESS STEEL WEIGHT SETS

Manufactured to meet NIST Handbook 105-1 specifications

Stainless Steel Test Weights are primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.

Weights 5 kg /10 lb and below must be made of stainless steel of quality no lower than 300 series. Adjusting cavities are typically on the top of the weight and must be tamper resistant.

All surfaces have a satin finish and conform to specifications in NIST Handbook 105-1.

Without Certificate		
Model	Item No.	List Price (USD)
5000 g-1 mg	30390403	905
5000 g-1 mg	30390397	1580
5000 g-1 g	30390405	795
5000 g-1 g	30390399	1455
2000 g-1 mg	30390406	675
2000 g-1 g	30390408	595
2000 g-10 mg	30390407	640
2000 g-1 mg	30390400	1520
1000 g-1 g	30390411	505
500 g-1 g	30390414	394
100 g-1 mg	30390415	281
50 g-1 g	30390420	190
50 g-10 mg	30390419	240

Without Certificate		
Model	Item No.	List Price (USD)
10 lb-1/32 oz	30390384	860
10 lb-.001 lb	30390383	870
5 lb-.001 lb	30390373	1235
5 lb-.001 lb	30390375	1220
5 lb-1/32 oz	30390376	1200
5 lb-.05 oz	30390374	1230
5 lb-1/32 oz	30390387	585
4 oz-1/32 oz	30390379	225
.2 lb-.001 lb	30390381	242

Traceable Certificate		
Model	Item No.	List Price (USD)
5000 g-1 mg	30390459	1025
5000 g-1 mg	30390453	1735
5000 g-1 g	30390461	925
5000 g-1 g	30390455	1630
2000 g-1 mg	30390462	755
2000 g-1 g	30390464	690
2000 g-10 mg	30390463	725
2000 g-1 mg	30390456	1690
1000 g-1 g	30390467	615
500 g-1 g	30390470	525
100 g-1 mg	30390471	432
50 g-1 g	30390476	220
50 g-10 mg	30390475	391

Traceable Certificate		
Model	Item No.	List Price (USD)
10 lb-1/32 oz	30390440	1360
10 lb-.001 lb	30390439	1375
5 lb-.001 lb	30390429	1600
5 lb-.001 lb	30390431	1570
5 lb-1/32 oz	30390432	1575
5 lb-.05 oz	30390430	1600
5 lb-1/32 oz	30390443	1005
4 oz-1/32 oz	30390435	365
.2 lb-.001 lb	30390437	390

NVLAP Certificate		
Model	Item No.	List Price (USD)
5000 g-1 mg	30390515	1240
5000 g-1 mg	30390509	1860
5000 g-1 g	30390517	1115
5000 g-1 g	30390511	1765
2000 g-1 mg	30390518	915
2000 g-1 g	30390520	835
2000 g-10 mg	30390519	885
2000 g-1 mg	30390512	1810
1000 g-1 g	30390523	745
500 g-1 g	30390526	640
100 g-1 mg	30390527	535
50 g-1 g	30390532	273
50 g-10 mg	30390531	468

NVLAP Certificate		
Model	Item No.	List Price (USD)
10 lb-1/32 oz	30390496	1645
10 lb-.001 lb	30390495	1670
5 lb-.001 lb	30390485	1870
5 lb-.001 lb	30390487	1855
5 lb-1/32 oz	30390488	1835
5 lb-.05 oz	30390486	1870
5 lb-1/32 oz	30390499	1205
4 oz-1/32 oz	30390491	620
.2 lb-.001 lb	30390493	494



Weights by
 **TROEMNER**

Accessories for Weighing

SF40A

OHAUS Value in a Full-Featured, Portable Printer

Operation

AC adapter (included)

Communication

RS232 (included)

Construction

ABS Housing

Design Features

Status indicator, 40 characters per line, compatible with continuous label paper, perform zero and tare operations directly from the printer



Model	Item No.	List Price (USD)
SF40A	30064203	990



Statistics



Totalization



Time/Date

The statistics and totalization modes and real time clock complement OHAUS weighing instruments' application modes and offer functionality that assists the reporting processes.

SF40A helps support the efficiency of the weighing and recording processes. RS232 interface and PC configuration software make setting up and using the printer fast and simple.

With the ability to print in 13 different languages, SF40A can print in the language of the connected device to support universal operation.

STP103

Economical Palm-Sized Thermal Printer

Operation

AC adapter (included)

Communication

RS232 (included)

Construction

ABS Housing

Design Features

Status indicator, paper feeder, graphical printing capabilities



Model	Item No.	List Price (USD)
Printer, Thermal, STP103, 120vac US	80251992	760



Time/Date

This ultra compact printer has a very small footprint and also features very low power consumption, requiring limited resources from your workspace.

The extremely fast STP103 offers 42 column printing at a speed of approximately 11.8 lines per second.

Loading paper into the printer is quick and easy and when the paper becomes low, the printer will suspend printing in order to prevent printing errors resulting from lack of paper.

ZEBRA GK-420T

Economical Barcode Label Printer

Applications

Thermal Transfer Barcode Label Printing for Defender 5000 (TD52) and Ranger 7000.

Communication

RS232 (cable 80500525 required). Other communication not supported for OHAUS products.

Construction

ABS Housing

Design Features

Status indicator, paper feeder, graphical printing capabilities, AC adapter power (included).

Requires RS232 Kit 30037448 for connection to Ranger 7000.

Both Ranger 7000 and Defender 5000 (TD52) require RS232 Cable 80500525.



Model	Printing Method	Printing Speed	Media Specifications	Operating Temperature	Dimensions (W x D x H)	Item No.	List Price (USD)
GK420T	Thermal Transfer, 203 dpi/8 dots per mm	4" / 102 mm per second maximum	0.75" / 19 mm to 4.25" / 108 mm wide 0.38" / 9.7 mm to 39" / 990 mm long 0.003" / 0.08 mm to 0.0075" / 0.19 mm thick Max. roll size 5"/127 mm O.D.	40° F to 105° F / 4.4° C to 41° C 10% to 90% non-condensing relative humidity	7.5 x 7.6 x 10" / 191 x 193 x 254 mm	30611855	729

Fast label printing with full part information—supports EPL2 and ZLP II Zebra programming languages.

Quickly configured with Ranger 7000 and Defender 5000 (TD52 models) using ScaleMate and print templates available on OHAUS DMX for dealers.

Easy label loading—accepts wide range of labels

Accessories

Item No.	Description	List Price (USD)
30593703	Datalogic Barcode Scanner QD2131	191
30037448	RS232 Kit, Ranger 7000	155
80500525	Cable, RS232 for TD52 and Ranger 7000	193
30572923	USB Host (required for QD2131 to TD52)	135



Datalogic QD2131
Barcode Scanner

Weighing & Measuring Accessories

ADAPTERS

Accessories	Item No.	Price (USD)
LC Extension Cable, 9 meters, D52	30424409	167
Load Cell Cable Adapter Kit, to D52 Base	30429931	51

ANTI-THEFT DEVICES

Accessories	Item No.	Price (USD)
Anti-Theft Device, SP PA AV NV	80850000	89
Anti-Theft Device, MB AX EX	80850043	232

AUXILIARY DISPLAYS

Accessories	Item No.	Price (USD)
Auxiliary Display, TAD7, SP SPJ TA TAJ	80251395	69
Auxiliary Display, AD7-RS	30472064	72

BASE MOUNTS

Accessories	Item No.	Price (USD)
Handle Kit, D3K	30381321	102
Front Mount Kit, SS, TD52	30424024	111

CARRYING CASES

Accessories	Item No.	Price (USD)
Carrying Case, V31	80251216	132
Carrying Case, FD V51	80251394	132
Carrying Case, EB EC	80251532	205
Carrying Case, SP	80850028	127
Carrying Case, Ranger	80850083	373
Carrying Case, TR TC R31 TC31 V71	80850084	373
Carrying Case, NVT	83032224	119
Carrying Case, NVL	83032225	119
Carrying Case, NV	83032226	119
Portable Bag STARTER	30031635	61
Carrying Case, SD (R base only)	30454761	91

COLUMN MOUNTS

Accessories	Item No.	Price (USD)
Column Kit, Floor Stand, Painted	30531244	199
Column Kit, Floor Stand, Stainless Steel	30539553	399
Column Kit, EX-HiCap	30078082	153
Column Kit, Painted, R71	30095408	155
Column Kit, 230mm / 9" SST, T71XW to CKW Bases	30454644	254
Column Adapter, Painted, T31P	72209339	28
Column Adapter, SST, T32XW T51XW	72209340	55
Column Kit, 35 cm, CS, TD52	30424410	73
Column Kit, 68 cm, CS, TD52	30424411	95
Column Kit, 98 cm, CS, TD52	30424412	106
Column Kit, 35 cm, SST, TD52	30424413	161
Column Kit, 68 cm, SST, TD52	30424414	205
Column Kit, 98 cm, SST, TD52	30424415	222
Print Holder Kit, TD52	30424025	62

COLUMN MOUNTS

Accessories	Item No.	Price (USD)
Column Kit, 350mm, Painted, T31P	80251743	91
Column Kit, 700mm, Painted, T31P	80251744	101
Column Kit, 350mm, SST, T32XW	80251745	203
Column Kit, 700mm, SST, T32XW	80251746	255
Column Kit, 350mm, Painted, T51P T71P	80500723	79
Column Kit, 680mm, Painted, T51P T71P	80500724	91
Column Kit, 350mm, SST, T51XW T71XW	80500725	175
Column Kit, EX	83021102	167

DENSITY DETERMINATION KITS

Accessories	Item No.	Price (USD)
Density Kit, Solids	80253384	780

DUST COVERS

Accessories	Item No.	Price (USD)
Dust Cover, Balance with Draft Shield	30093334	51
Stacking Kit, x6, STX SPX SKX SJX/E	30268987	66
Stacking Kit, x1, STX SPX SKX SJX/E	30268988	23
Dust Cover, Dial-O-Gram Cent-O-Gram	80780005	40
Dust Cover, Triple Beam	80780017	40
Dust Cover, Storage, Harvard	80850262	40

INTERFACE CABLES AND KITS

Accessories	Item No.	Price (USD)
Ethernet Kit, R31 RC31 R71 V71	30037447	155
RS232 Kit, R31 RC31 R71 V71	30037448	155
USB Kit, R31 RC31 V71	30037449	155
Cable, RS422, 9m, EX EX-HiCap	30078078	153
Cable, Extension, 9m, R71	30101495	109
Ethernet Kit, T72XW	30132163	155
USB with I/O Kit, T72XW	30132164	173
COM2 Kit, T72XW	30132165	155
RS232 Interface, STX SPX ST3100M	30268982	167
USB Host Interface, STX SPX	30268983	167
USB Device Interface, STX SPX ST3100M	30268984	116
Bluetooth Interface, STX SPX	30268985	150
Ethernet Interface, STX SPX	30268986	181
Ethernet Kit, EX EX-HiCap	83021082	193
Cable, USB, Type A-B	83021085	193
RS232 Kit, SP TA Navigator	83032107	167
USB Kit, SP TA NV NVL NVT	83032108	167
Ethernet Kit, NV NVL NVT	83032109	167
USB Kit, AV	83033014	193
Interface Kit, RS232-USB	30304101	145
Interface Kit, RS232-Ethernet	30304102	145
USB Host for WiFi/Bluetooth/Flash Drive	30572923	135
USB Host for Dongle, TD52	30424406	139
Analog Output Kit, TD52	30424403	167
2nd RS232/RS485/USB, TD52	30424404	167
Ethernet Kit, TD52	30429666	167
Discrete I/O Kit, 2-In/4-Out, R71 TD52	30097591	155

IN - USE COVERS

Accessories	Item No.	Price (USD)
In-Use-Cover, Small, RC RD RP	21203719	82
In-Use-Cover, V71	30037445	39
In-Use-Cover, R21 RC21 R31 RC31	30037451	39
In-Use-Cover, Set (10), V71	30037469	79
In-Use-Cover, STARTER	30058734	24
In-Use-Cover wo DS AX	30111777	30
In-Use-Cover DS AX	30111792	30
Accessory, In Use Cover, R71	30135320	46
In-Use-Cover, Scout	30269022	23
In-Use-Cover, Set (3), SP	71168909	57
In-Use-Cover, bRite A51 A71	72247038	38
In-Use-Cover, Pan, bRite A51 A71	72247039	25
Cover In-Use R11P RC11P	80120028	55
In-Use-Cover, FD V51	80251140	41
In-use cover (1), V12P	30559105	10
In-use cover (10), V12P	30559106	100
In-Use Cover for V41P	30479818	10
In Use Cover , R41 RC41	30240697	37
In-Use-Cover, MB23 MB27	80252475	40
In-Use-Cover, PA	83020221	48
In-Use-Cover, Terminal, EX	83033633	85
In-Use-Cover, ST5000	30129897	28
In-use Cover Set, TD52P	30424022	21
In-use Cover Set, TD52XW	30424023	28
In-use Cover set (10), TD52P	30469948	167
In-use Cover set (10), TD52XW	30469949	222

MISCELLANEOUS

Accessories	Item No.	Price (USD)
Scoop, Gold	30020842	33
PCBA Kit, 2nd Platform, RC31 R41 RC41	30037446	155
Hook, R21 RC21 R31 RC31 R41 RC41 V71	30037450	111
Wheel Kit, Set (4), EX-HiCap	30041470	167
Holder, Attached, Electrode	30058732	46
Holder, Stand Alone, Electrode	30058733	88
PCBA Kit, 2nd Platform, R71	30097590	156
Static Ionizer, ION-100A, AM	30130302	1745
Pipette Adjustment Kit, EX Semi-Micro	30252145	1450
Subject Box	80000053	104
PCBA Kit, Alibi Memory, R71 T71	80500503	123
Kit, Rod and Clamp	80780011	74
Test Tube, 310-00 311-00	80780018	40
Weight Set, 2 x 1 kg, 1 x 500 g	80780108	72
Clamp, Gas Cylinder	80850312	99
Cable, RS422, Extension, EX EX-HiCap	83021083	108
Draft Shield Kit, EX	83021084	940
Seal kit, STARTER portables	83032962	47
Wheel Kit, Defender up to 600 lb / 300 kg capacity	30372146	134
Light Tower, R-Y-G, IP65, 24VDC	30424021	194
Datalogic Barcode Scanner QD2131	30593703	191

MOISTURE ANALYZER ACCESSORIES

Accessories	Item No.	Price (USD)
Temp. Calibration Kit, MB Series	11113857	585
Holder, Pan, MB35 MB45	11113873	138
Scoop, Accessory, MB90 MB120	30284477	51
In-Use-Cover, Accessory, MB90 MB120	30284478	80
Holder, Pan, MB Series	80252476	80
Cage, Sample, MB Series	80252477	104
Pan, Reusable, Set (3), 7 mm, MB Series	80252478	87
Pan, Reusable, Set (3), 14 mm, MB Series	80252479	91
Pan, Aluminum, Set (100), MB200	80780012	82
Pan, Aluminum, Set (80), MB Series	80850086	66
Filter, Glass Fiber, Set (200)	80850087	103
Pan, Reusable(3), D90mm, MB45	80850088	202

PANS, STANDS, BOWLS

Accessories	Item No.	Price (USD)
Pan, SST, R21 RC21 R31 RC31 V71	30037452	61
Platform, SST, 300x225mm, V22 V41	30251753	60
Pan, SST, Flat, FD V51	80251141	62
Pan, SST, Sandwich, V31	80251147	86
Holder, SST, French Fries, V31	80251148	86
Holder, SST, Ice Cream Cone, V31	80251149	86
Pan, SST, C11P	80251248	55
Stainless Steel Platform, 11.8 in x 8.9 in, V12	30559107	50
Large Pan, 11.8 x 8.8 in, V22 V41	30251753	60
Bowl, 1050ml, CS	80850075	55
Pan Cover, SST, CS	80850076	60

PRINTER CABLES

Accessories	Item No.	Price (USD)
Cable, PC, 9 Pin, NV AV	12106964	199
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	39
Cable, RJ45-RS232, Printer, bRite A71	72249531	48
Adapter, 25 Pin-9 Pin, STP103	80251930	38
Adapter, 25 Pin -9 Pin, CBM910-SPU TA	80251934	38
Cable, RS232,CBM910-AV DV EX MB PA TxxP	80252571	193
Cable, RS232, CBM910-CKW TxxXW	80252574	216
Cable, ST103-AR EP VP	80252580	193
Cable, ST103-AV DV EX MB PA TxxP	80252581	193
Cable, ST103-TC TR	80252583	193
Cable, ST103-CKW55 TxxXW	80252584	216
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	193
Cable, RS232, IBM 9P, AV DV MB Ranger TD52P	80500525	193
Cable, RS232 Connector, Ranger	80500526	193
Cable, RS232, CKW TxxXW	80500552	179
Cable, RS232, Ranger	80500556	193
Cable, SF42-AV DV MB Ranger	80500571	193

PRINTER SUPPLIES

Accessories	Item No.	Price (USD)
Paper Roll, Set (5), SF42	12101511	80
Paper Roll, Set (2), 57.5mm, SF40A	12120799	19
Axis, Paper Roll, SF40A	30063920	20
Paper Roll, (1), Thermal, STP103	80251931	22
Paper Roll, (1), CBM910	80251932	20
Ink Ribbon, CBM910	80251933	56

RAMPS

Accessories	Item No.	Price (USD)
Foot Plate, Set (2), Painted, VE VN	72198344	60
Ramp, 48 in x 26.4 in long, Painted, VN	80252565	800
Ramp, 60 in x 26.4 in long, Painted, VN	80252566	905
Ramp, 60 in x 48 in, 2.5 K/5 K, VX	80252766	985
Ramp, 60 in x 48 in, 5 K, VX	80252767	1240
Ramp, 60 in x 48 in, 10 K, VX	80252795	2130
Ramp, 60 in x 48 in, 10 K, VX	80252796	2355

RELAY KITS

Accessories	Item No.	Price (USD)
USB with I/O Kit, T72XW	30132164	173
Discrete I/O Kit, 2-In/4-Out, R71 TD52	30097591	155
Relay Kit, AC, T51 T71	80500720	355
Relay Kit, DC, T51 T71	80500727	305

RECHARGEABLE BATTERIES

Accessories	Item No.	Price (USD)
Rechargeable Battery, EX-HiCap R71	30041295	388
Battery Kit, Li-ion, TD52	30424405	200

SCOOPS

Accessories	Item No.	Price (USD)
Scoop, 110 x 90 x 30 mm, Black	80250048	37
Scoop, Flat Bottomed, SST, 0.6 l	80250400	74
Scoop, Large, Flat Bottomed, SST	80250954	92
Scoop and Counter Weight	80780001	61
Scoop, PP, 0.8 l	80780006	40
Scoop and Counter Weight, Poly	80780014	56
Scoop and Counter Weight, SST	80780015	131
Scoop and Counter Weight, 1.75 l	80780016	59
Scoop, Small, Analytical	80850321	38
Scoop, Large, PAJ	80850322	40
Scoop, Poly, 0.6l	80850359	41
Scoop, Small, PAJ	80850364	30

SOFTWARE

Accessories	Item No.	Price (USD)
Software, Winwedge	80850080	530

WALL MOUNTS

Accessories	Item No.	Price (USD)
Wall Mount Kit, Painted, T31P	80251747	45
Wall Mount Kit, SST, T32XW	80251748	55
Wall Mount Kit, SST, T51XW T71XW	80500735	84
Wall Mount Kit, SST, TD52XW	30424026	84
Wall Mount Kit, CS, TD52P	30424027	62

WEIGHT ACCESSORIES

Accessories	Item No.	Price (USD)
Weight Set, Metric, 1119-D0	80780008	248
Forceps, 70 mm, 2-3/8 in.	80780009	25
Forceps, 3-3/8	80780010	25

Laboratory Equipment



OHAUS is now offering equipment designed for every area of the laboratory, giving you the opportunity to Do More. From stirrers to shakers, lifts to clamps, our newly expanded portfolio is filled with products perfect for life sciences laboratories, giving you countless opportunities to fill every inch of your laboratory.



FRONTIER™ 5000 SERIES MICRO

Smooth and Dependable High-Speed Microliter Centrifuges for Life Science Separation Applications

Application

High Speed Centrifugation, Cell Pelleting, Protein Separation, Nucleic Acid Separation

Display

LCD, backlight, 2 lines

Operation

AC Power (included)

Construction

Brushless quiet motor, small footprint

Design Features

High sample throughput, multi-safety control, personal program function



FC5513



FC5515R

Excellent functionality when used with rotors compatible with 1.5/2.0 ml or 5 ml microtubes with high throughput & biocontainment options, spin columns, PCR strips, cryo tubes & hematocrit capillaries.

Designed for ease of operation, Frontier Micro centrifuges feature convenient controls on an intuitive interface, allowing responsive operation—even when wearing gloves.

Packaging all their functionality within a small footprint, Frontier Micro centrifuges save valuable space on the lab bench.

Model	Speed Range	Temp Range	Max g-force	Capacity	Weight	Dimensions (L x W x H)	Item No.	List Price (USD)
FC5513	200 rpm -13,500 rpm	Air Cooled	17,317 g	24 x 1.5 / 2.0 ml	28lb / 12.5Kg	11.0 x 9.4 x 13.8" (280 x 240 x 350 mm)	30393188	1840
FC5515	200 rpm-15,200 rpm	Air Cooled	21,953 g	44 x 1.5 / 2.0 ml; 12 x 5 ml; 4 x 8 place PCR Strips	37.4lb / 17Kg	15.43 x 11.3 x 11.5" (392 x 287 x 292 mm)	30130867	2695
FC5515R	200 rpm-15,200 rpm	-20° to 40°C	21,953 g	44 x 1.5/2.0 ml; 12 x 5 ml; 4 x 8 place PCR Strips	77lb / 35Kg	21.85 x 11.3 x 11.5" (555 x 287 x 292 mm)	30130869	5815

Accessories for FC5515 and FC5515R		Item No.	Price (USD)
Rotor, Angle, 24 x 1.5 / 2.0 ml		30130870	745
Rotor, Angle, 24 x 1.5 / 2.0 ml, Sealable		30130871	990
Rotor, Angle, 30 x 1.5 / 2.0 ml, Sealable		30130872	1325
Rotor, Angle, 12 x 5 ml, Sealable		30130873	1480
Rotor, Angle, 4 x 8-Place PCR Stripes		30130874	1740
Rotor, Hematocrit, 24x Capillaries		30130881	640
Rotor, Angle, 44x1.5 / 2.0ml, ID, v2		30372717	1060

Accessories for FC5513		Item No.	Price (USD)
Rotor, Angle, 24 x 1.5 / 2.0 ml, Sealable, V2		30472302	530
Rotor, Angle, 18 x 2 ml Spin Column		30472303	419
Rotor, Hematocrit, 24 x Capillaries, V2		30472304	615
Adapter, 1 x 0.5 ml D8 mm, 6/pk		30130885	98
Adapter, 1 x 0.2 / 0.4 ml D6 mm, 6/pk		30130884	98
Rotor, Angle, 24 x 1.5/2.0ml, V2		30472301	392

FRONTIER™ 5000 SERIES MULTI PRO

Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application

Application

Centrifugal Separation, General Sample Preparation, Cell Pelleting, Protein Separation, Nucleic Acid Separation, Cell Concentrating, Chemical Separation, Diagnostics, Environmental Sample Preparation, Blood Sample Processing

Display

Backlit Liquid Crystal Display (LCD)

Operation

Designed to be used with a variety of rotors and accessories

Construction

Corrosion-resistant stainless steel chamber with Polycarbonate/ABS plastic lid

Design Features

Ten acceleration & deceleration rates, selection of running time from 10 s to 99 h 59 min or continuous, quick spin, CFC-free refrigeration system, sample temp. indication (refrigerated models), lid-locking system, over-speed protection, dual imbalance sensing



Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.

The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications.

The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use.

Model	Speed Range	Temp Range	Max g-force	Capacity	Dimensions (L × W × H)	Item No.	List Price (USD)
FC5714	200 rpm–14,000 rpm	Air Cooled	18,624 g	4 × 100 ml	19.4 × 14.25 × 14.25 in (493 × 362 × 362 mm)	30314811	3150
FC5718	200 rpm–18,000 rpm	Air Cooled	23,542 g	4 × 100 ml	19.65 × 16.06 × 13.82 in (499 × 408 × 351 mm)	30314813	4580
FC5718R	200 rpm–18,000 rpm	-20° to 40°C	23,542 g	4 × 100 ml	28.78 × 16.02 × 14.13 in (731 × 407 × 359 mm)	30314815	6840
FC5816	200 rpm–15,000 rpm	Air Cooled	21,379 g	6 × 250 ml	21.18 × 21.18 × 13.94 in (538 × 446 × 354 mm)	30314817	5330
FC5816R	200 rpm–16,000 rpm	-20° to 40°C	24,325 g	6 × 250 ml	21.18 × 28.46 × 28.46 in (538 × 723 × 354 mm)	30314819	8095
FC5916	200 rpm–16,000 rpm	Air Cooled	24,325 g	4 × 750 ml	21.3 × 26.4 × 15.4 in (541 × 670 × 391 mm)	30553037	6870
FC5916R	200 rpm–16,000 rpm	-20° to 40°C	26,331 g	4 × 750 ml	28.7 × 26.4 × 15.4 in (729 × 670 × 391 mm)	30553103	9945

Accessories	Item No.	Price (USD)
Rotor, Angle, 24 × 1.5 / 2.0 ml, ID, Sealable	30304361	1120
Rotor, Swing out, 4 × 250 ml, ID	30314820	1550
Rotor, Angle, 6 × 250 ml FB, ID	30314821	3825
Rotor, Swing out, 4 × 100 ml, ID	30314822	1290
Rotor, Swing out, 4 × 100 ml, ID, Sealable	30314823	1085
Rotor, Swing out, 2 × 3MTP, ID	30314824	1875
Rotor, Angle, 6 × 85 ml RB, ID, Hi	30314825	2135
Rotor, Angle, 6 × 85 ml RB, ID	30314826	2160
Rotor, Angle, 4 × 85 ml RB, ID, Hi	30314827	2205
Rotor, Swing out, 16 × 50 ml, ID	30314828	2300
Rotor, Angle, 10 × 50 ml FA, ID	30314829	2740
Rotor, Swing out, 4 × 750 ml, ID	30553085	1760
Rotor, Angle, 4 × 500 ml, ID	30553086	4245

Accessories	Item No.	Price (USD)
Rotor, Angle, 6 × 50 ml RB/FA, ID	30314830	935
Rotor, Angle, 6 × 50 ml RB, ID, Hi	30314831	1875
Rotor, Angle, 30 × 15 ml RB/FA, ID	30314832	1460
Rotor, Angle, 20 × 10 ml RB, ID, Hi	30314833	1930
Rotor, Angle, 12 × 15 ml RB/FA, ID	30314834	945
Rotor, Angle, 30 × 1.5 / 2.0 ml, ID, Sealable	30314836	1510
Rotor, Angle, 24 × 1.5 / 2.0 ml, ID	30314838	845
Rotor, Angle, 12 × 1.5 / 2.0 ml, ID	30314839	1355
Rotor, Angle, 64 × 0.5 ml, ID	30314840	1370
Rotor, Angle, 4 × 8-w PCR Strip, ID	30314841	1950

FRONTIER™ 5000 SERIES MULTI

Reliable and Compact Multi-Function Centrifuges For Standard Life Science Separation Applications

Application

Low Speed Centrifugation

Display

LCD, backlight, 2 lines

Operation

AC Power (included)

Construction

Brushless quiet motor, small footprint

Design Features

Easy installation design



FC5707



FC5706

Designed for ease of operation, Frontier™ Multi Centrifuges feature convenient control on an intuitive interface, which allows for responsive operation—even when wearing gloves.

Frontier™ Multi Centrifuges can accommodate standard 50 ml and 15 ml tubes, including common blood tubes. When used with accessories, rotors can be adapted for sizes as small as 1.5 ml.

Enclosing all its functionalities within a small footprint, Frontier™ Multi Centrifuges save valuable space on the lab bench.

Model	Speed Range	Max g-force	Capacity	Dimensions (L × W × H)	Weight	Item No.	List Price (USD)
FC5706 120V	200 rpm–6,000 rpm	4,427 g	6 × 50 ml	15.4 × 11.5 × 10.5" (392 × 291 × 266 mm)	23lbs / 10.5Kg	30130876	1990
FC5706 120V*	200 rpm–6,000 rpm	4,427 g	6 × 50 ml	15.4 × 11.5 × 10.5" (392 × 291 × 266 mm)	23lbs / 10.5Kg	30332132	2200
FC5707 100-230V**	200 rpm–6,800 rpm	4,445 g	8 × 15 ml RB / 4 × 15 ml FA	11.0 × 9.4 × 13.8" (280 × 240 × 350 mm)	18lb / 8Kg	30393189	1565

* Includes Rotor, Angle 6 × 50 mL

** Includes Rotor, Angle, 8 × 15 mL

Accessories for FC5706	Item No.	Price (USD)
Rotor, Angle, 6 × 50 mL	30130878	1000
30 mL Tube Adapter, 2/pk	30130891	242
16 mL Tube Adapter, 2/pk	30130892	242
15 mL Tube Adapter, 2/pk	30130893	242
15 mL RB/ Falcon Tube Adapter, 2/pk	30130894	169
Rotor, Angle, 12 × 15 mL	30130877	565
7 mL Tube Adapter, 2/pk	30130889	116
5 mL Tube Adapter, 2/pk	30130890	106
1.5 mL/2.0 mL Tube Adapter, 6/pk	30130886	192
Rotor, Swing Out, 6 × 5 mL †	30130880	670
Replaceable Buckets, For Swing Out Rotor, 2/pk	30130895	101

† Includes 6 buckets

Accessories for FC5707	Item No.	Price (USD)
Rotor, Angle, 8 × 15ml	30472305	407
Adapter, D11mm, 1.5 / 2.0 mL Tubes ×6	30130886	192
Adapter, D13.5mm, 7ml Tubes ×2	30130889	116
Adapter, D13.5mm, 5ml Tubes ×2	30130890	106

FRONTIER™ 5000 SERIES MINI

Powerful and Convenient Mini Centrifuge for Simple and Quick Life Science Separation Applications

Application

Sample preparation

Operation

AC adapter (included)

Construction

Brushless quiet motor, auto shut-off safety switches

Design Features

One-touch operation



Two rotors and adapters are included

With a low voltage power input, quiet brushless motor and a rubber base that absorbs vibrations, Frontier 5306 minimizes operational noise and reduces disruptions in the laboratory.

Frontier 5306 is designed with operator safety in mind, and includes a rotor imbalance sensor and two safety switches which immediately stop the rotors should the lid open during use.

Frontier 5306 takes simple one-step operation to a new level. Simply place your sample in the centrifuge, close the lid, and it will begin to rotate without the press of a button.

Model	Maximum Speed	Max g-force	Capacity	Dimensions (L x W x H)	Item No.	List Price (USD)
FC5306	6,000 rpm	2,000 g	8 x 1.5 ml / 2.0 ml; 4 x 8 place PCR Strips	6.6 x 5.9 x 5" (168 x 150 x 128 mm)	30134157	196
Accessories			Item No.	Price (USD)		
Adapter for 0.2 ml Tube (8PCS/Package)			30129561	50		
Adapter for 0.5 ml Tube (8PCS/Package)			30129562	50		

FRONTIER™ 5000 ROTORS

Offering Flexibility to Maximize Sample Preparation

Application

Centrifugation Accessory

Construction

Aluminum or polypropylene material



Choose from a range of rotors to be used with Frontier centrifuges to match capacities and flexibility required for your basic to high-performance sample preparation needs.

Designed with usability in mind, the Frontier rotors can be effortlessly installed or removed in a few quick and simple steps, and users have easy access to the samples.

The sturdy rotors are constructed of high-quality materials, built to last through demanding workflows from autoclave sterilization to sub-zero temperature.

Model	Rotor Style	Capacity	Max g-force	Maximum Speed	Item No.	List Price (USD)
R-A8 × 2/6M	Angle	8 × 1.5 / 2.0 ml	2,560 g	6,000 rpm	30129559	50
R-A4 × PCR/6	Angle	4 × 0.2 ml PCR8	2,260 g	6,000 rpm	30129560	50
R-A24 × 2/15M	Angle	24 × 1.5 / 2.0 ml	21,953 g	15,200 rpm	30130870	745
R-A24 × 2/15MS	Angle	24 × 1.5 / 2.0 ml	21,953 g	15,200 rpm	30130871	990
R-A30 × 2/13MS	Angle	30 × 1.5 / 2.0 ml	19,150 g	13,500 rpm	30130872	1325
R-A12 × 5/14MS	Angle	12 × 5 ml	19,978 g	14,500 rpm	30130873	1480
R-A4 × PCR/15	Angle	4 × 0.2 ml PCR8	15,342 g	15,000 rpm	30130874	1740
R-A12 × 15/6M	Angle	12 × 15 ml	4,427 g	6,000 rpm	30130877	565
R-A6 × 50/6M	Angle	6 × 50 ml	4,427 g	6,000 rpm	30130878	1000
R-S6 × 5/4	Swing out	6 × 5 ml	1,817 g	4,000 rpm	30130880	670
R-A24 × CAP/12	Angle	24 × Capillaries	14,970 g	12,000 rpm	30130881	640
R-A24 × 2/16MIS	Angle	24 × 1.5 / 2.0 ml	24,325 g	16,000 rpm	30304361	1120
R-S4 × 250/4MI	Swing out	4 × 250 ml	3,780 g	4,500 rpm	30314820	1550
R-A6 × 250/8MI	Angle	6 × 250 ml	10,016 g	8,000 rpm	30314821	3825
R-S4 × 100/4MI	Swing out	4 × 100 ml	3,350 g	4,500 rpm	30314822	1290
R-S4 × 100/5MIS	Swing out	4 × 100 ml	3,885 g	5,000 rpm	30314823	1085
R-S6 × MTP/4MI	Swing out	2 × 3 MTP	2,716 g	4,500 rpm	30314824	1875
R-A6 × 85/14MI	Angle	6 × 85 ml	20,984 g	13,500 rpm	30314825	2135
R-A6 × 85/13MI	Angle	6 × 85 ml	21,726 g	13,000 rpm	30314826	2160
R-A4 × 85/12MI	Angle	4 × 85 ml	14,809 g	12,000 rpm	30314827	2205
R-S16 × 50/4MI	Swing out	16 × 50 ml	3,735 g	4,500 rpm	30314828	2300
R-A10 × 50/10MI	Angle	10 × 50 ml	16,022 g	10,500 rpm	30314829	2740
R-A6 × 50/6MI	Angle	6 × 50 ml	4,427 g	6,000 rpm	30314830	935
R-A6 × 50/13MI	Angle	6 × 50 ml	15,869 g	13,000 rpm	30314831	1875
R-A30 × 15/4MI	Angle	30 × 15 ml	2,830 g	4,500 rpm	30314832	1460
R-A20 × 10/12MI	Angle	20 × 10 ml	15,775 g	12,000 rpm	30314833	1930
R-A12 × 15/6MI	Angle	12 × 15 ml	4,427 g	6,000 rpm	30314834	945
R-A30 × 2/14MIS	Angle	30 × 1.5 / 2.0 ml	20,595 g	14,000 rpm	30314836	1510
R-A24 × 2/16MI	Angle	24 × 1.5 / 2.0 ml	24,325 g	16,000 rpm	30314838	845
R-A12 × 2/18MI	Angle	12 × 1.5 / 2.0 ml	23,542 g	18,000 rpm	30314839	1355
R-A64 × 0.5/13I	Angle	64 × 0.5 ml	16,298 g	13,500 rpm	30314840	1370
R-A4 × PCR/15I	Angle	4 × 8-w PCR Strip	15,343 g	15,000 rpm	30314841	1950

MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.



Fixed Angle Rotor 24 × 1.5 / 2.0 ml

Description	Item No.	Price (USD)
Rotor, Angle, 24 × 1.5 / 2.0 ml, ID, Sealable	30304361	1120

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	14000 rpm	14000 rpm	15000 rpm	15000 rpm	16000 rpm
Max. RCF	18624 xg	18624 xg	21379 xg	21379 xg	24325 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 0.5 ml D8mm, 6/pk	0.5 ml	8mm	Eppendorf tube	24	30130885	98
Adapter, 1 × 0.2 / 0.4 ml D6mm, 6/pk	0.2 / 0.4 ml	6mm	Eppendorf tube	24	30130884	98

Fixed Angle Rotor 6 × 250 ml FB

Description	Item No.	Price (USD)
Rotor, Angle, 6 × 250 ml FB, ID	30314821	3825



Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	–	–	8000 rpm	8000 rpm
Max. RCF	–	–	–	10016 xg	10016 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 50 ml D30 mm FA, 2/pk	50 ml	30 mm	Conical bottom	6	30304374	267
Adapter, 1 × 50 ml D29 mm RB, 2/pk	50 ml	29 mm	Round bottom	6	30304373	267
Adapter, 2 × 30 ml D26 mm RB, 2/pk	30 ml	26 mm	Round bottom	12	30304372	267
Adapter, 4 × 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	24	30304371	267
Adapter, 5 × 10 ml D16 mm RB, 2/pk	10 ml	16 mm	Round bottom	30	30304370	267
Adapter, 8 × 1.5 ml D11 mm, 2/pk	1.5 ml	11 mm	Eppendorf tube	48	30304369	267

MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.



Fixed Angle Rotor 6 x 85 ml RB

Description	Item No.	Price (USD)
Rotor, Angle, 6 x 85 ml RB, ID, Hi	30314825	2135

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	11000 rpm	13500 rpm	–	–
Max. RCF	–	13932 xg	20984 xg	–	–

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 x 50 ml D29 mm RB, 2/pk, v2	50 ml	29 mm	Round bottom	6	30314895	184
Adapter, 1 x 50 ml D29 mm FA, 2/pk	50 ml	29 mm	Conical bottom	6	30314896	184
Adapter, 1 x 30 ml D25 mm RB, 2/pk	30 ml	25 mm	Round bottom	6	30314894	184
Adapter, 1 x 16 ml D18 mm RB, 2/pk	16 ml	18 mm	Round bottom	6	30314899	184
Adapter, 1 x 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	6	30314897	184
Adapter, 2 x 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	12	30314898	184
Adapter, 1 x 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	6	30314893	184

Fixed Angle Rotor 6 x 85 ml RB

Description	Item No.	Price (USD)
Rotor, Angle, 6 x 85 ml RB, ID	30314826	2160

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	9000 rpm	9000 rpm	11000 rpm	13000 rpm
Max. RCF	–	10413 xg	10413 xg	15555 xg	21726 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 x 50 ml D29 mm RB, 2/pk, v2	50 ml	29 mm	Round bottom	6	30314895	184
Adapter, 1 x 50 ml D29 mm FA, 2/pk	50 ml	29 mm	Conical bottom	6	30314896	184
Adapter, 1 x 30 ml D25 mm RB, 2/pk	30 ml	25 mm	Round bottom	6	30314894	184
Adapter, 1 x 16 ml D18 mm RB, 2/pk	16 ml	18 mm	Round bottom	6	30314899	184
Adapter, 1 x 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	6	30314897	184
Adapter, 2 x 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	12	30314898	184
Adapter, 1 x 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	6	30314893	184



MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.

Fixed Angle Rotor 4 × 85 ml RB

Description	Item No.	Price (USD)
Rotor, Angle, 4 × 85 ml RB, ID, Hi	30314827	2205

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	12000 rpm	12000 rpm	12000 rpm	12000 rpm
Max. RCF	–	14809 xg	14809 xg	14809 xg	14809 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 50 ml D29 mm RB, 2/pk, v2	50 ml	29 mm	Round bottom	4	30314895	184
Adapter, 1 × 50 ml D29 mm FA, 2/pk	50 ml	29 mm	Conical bottom	4	30314896	184
Adapter, 1 × 30 ml D25 mm RB, 2/pk	30 ml	25 mm	Round bottom	4	30314894	184
Adapter, 1 × 16 ml D18 mm RB, 2/pk	16 ml	18 mm	Round bottom	4	30314899	184
Adapter, 1 × 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	4	30314897	184
Adapter, 2 × 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	8	30314898	184
Adapter, 1 × 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	4	30314893	184



Fixed Angle Rotor 10 × 50 ml FA

Description	Item No.	Price (USD)
Rotor, Angle, 10 × 50 ml FA, ID	30314829	2740

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	7500 rpm	7500 rpm	9000 rpm	10500 rpm
Max. RCF	–	8174 xg	8174 xg	11771 xg	16022 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 15 ml D17 mm FA 2/pk V2	15 mL	17 mm	Conical	10	30472307	106
Adapter, 1 × 15 ml D17 mm RB 2/pk V2	15 mL	17 mm	Round	10	30472300	106
Adapter, 1 × 7 ml D13.5 mm RB, 2/pk	7 ml	13.5 mm	Round bottom	10	30130889	116
Adapter, 1 × 5 ml D13.5 mm, 2/pk	5 ml	13.5 mm	Round bottom	10	30130890	106
Adapter, 1 × 1.5/2.0 ml D11 mm, 6/pk	1.5/2.0 ml	11 mm	Eppendorf tube	10	30130886	192



MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.

Fixed Angle Rotor 6 × 50 ml RB/FA

Description	Item No.	Price (USD)
Rotor, Angle, 6 × 50 ml RB/FA, ID	30314830	935



Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	6000 rpm	6000 rpm	6000 rpm	–	–
Max. RCF	4427 xg	4427 xg	4427 xg	–	–

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 30 ml D26 mm, 2/pk	30 ml	26 mm	Round bottom	6	30130891	242
Adapter, 1 × 16 ml D18 mm, 2/pk	16 ml	18 mm	Round bottom	6	30130892	242
Adapter, 1 × 15 ml D17 mm, 2/pk	15 ml	17 mm	Round bottom	6	30130893	242
Adapter, 1 × 15 ml D17 mm RB, 2/pk, v2	15 ml	17 mm	Round/Conical bottom	6	30130894	169
Adapter, 1 × 7 ml D13.5 mm RB, 2/pk	7 ml	13.5 mm	Round bottom	6	30130889	116
Adapter, 1 × 5 ml D13.5 mm, 2/pk	5 ml	13.5 mm	Round bottom	6	30130890	106
Adapter, 1 × 1.5/2.0 ml D11 mm, 6/pk	1.5/2.0 ml	11 mm	Eppendorf tube	6	30130886	192

Fixed Angle Rotor 6 × 50 ml RB

Description	Item No.	Price (USD)
Rotor, Angle, 6 × 50 ml RB, ID, Hi	30314831	1875



Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	12000 rpm	12000 rpm	13000 rpm	13000 rpm
Max. RCF	–	13522 xg	13522 xg	15869 xg	15869 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 30 ml D26 mm, 2/pk	30 ml	26 mm	Round bottom	6	30130891	242
Adapter, 1 × 16 ml D18 mm, 2/pk	16 ml	18 mm	Round bottom	6	30130892	242
Adapter, 1 × 15 ml D17.5 mm FA, 2/pk	15 ml	17.5 mm	Conical bottom	6	30314892	207
Adapter, 1 × 15 ml D17 mm, 2/pk	15 ml	17 mm	Round bottom	6	30130893	242

Fixed Angle Rotor 4 × 500 ml RB

Description	Item No.	Price (USD)
Rotor, Angle, 4 × 500 ml, ID, Hi	30553086	4245

Compatible to	FC5916	FC5916R
Max. Speed	8,000 rpm	8,000 rpm
Max. RCF	10,374	10,374



MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.

Fixed Angle Rotor 30 × 15 ml RB/FA

Description	Item No.	Price (USD)
Rotor, Angle, 30 × 15 ml RB/FA, ID	30314832	1460

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm
Max. RCF	2830 xg	2830 xg	2830 xg	2830 xg	2830 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 7 ml D13.5 mm RB, 2/pk	7 ml	13.5 mm	Round bottom	30	30130889	116
Adapter, 1 × 5 ml D13.5 mm, 2/pk	5 ml	13.5 mm	Round bottom	30	30130890	106
Adapter, 1 × 1.5 / 2.0 ml D11 mm, 6/pk	1.5/2.0 ml	11 mm	Eppendorf tube	30	30130886	192



Fixed Angle Rotor 20 × 10 ml RB

Description	Item No.	Price (USD)
Rotor, Angle, 20 × 10 ml RB, ID, Hi	30314833	1930

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	12000 rpm	12000 rpm	12000 rpm	12000 rpm
Max. RCF	–	15775 xg	15775 xg	15775 xg	15775 xg



Fixed Angle Rotor 12 × 15 ml RB/FA

Description	Item No.	Price (USD)
Rotor, Angle, 12 × 15ml RB/FA, ID	30314834	945

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	6000 rpm	6000 rpm	6000 rpm	–	–
Max. RCF	4427 xg	4427 xg	4427 xg	–	–

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 7 ml D13.5 mm RB, 2/pk	7 ml	13.5 mm	Round bottom	12	30130889	116
Adapter, 1 × 5 ml D13.5 mm, 2/pk	5 ml	13.5 mm	Round bottom	12	30130890	106
Adapter, 1 × 1.5 / 2.0 ml D11 mm, 6/pk	1.5/2.0 ml	11 mm	Eppendorf tube	12	30130886	192



MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.

Fixed Angle Rotor 44 × 1.5 / 2.0 ml

Description	Item No.	Price (USD)
Rotor, Angle, 44 × 1.5 / 2.0 ml, ID	30372718	1190

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	15000 rpm	15000 rpm	15000 rpm	16000 rpm
Max. RCF	–	21379 xg	21379 xg	21379 xg	24325 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 0.5 ml D8 mm, 6/pk	0.5 ml	8 mm	Eppendorf tube	44	30130885	98
Adapter, 1 × 0.2 / 0.4 ml D6 mm, 6/pk	0.2 / 0.4 ml	6 mm	Eppendorf tube	44	30130884	98



Fixed Angle Rotor 30 × 1.5/2.0 ml

Description	Item No.	Price (USD)
Rotor, Angle, 30 × 1.5 / 2.0 ml, ID, Sealable	30314836	1510

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	12000 rpm	13000 rpm	14000 rpm	–	–
Max. RCF	15131 xg	17758 xg	20595 xg	–	–

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 0.5 ml D8 mm, 6/pk	0.5 ml	8 mm	Eppendorf tube	30	30130885	98
Adapter, 1 × 0.2 / 0.4 ml D6 mm, 6/pk	0.2 / 0.4 ml	6 mm	Eppendorf tube	30	30130884	98



Fixed Angle Rotor 24 × 1.5/2.0 mlFA

Description	Item No.	Price (USD)
Rotor, Angle, 24 × 1.5 / 2.0 ml, ID	30314838	845

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	14000 rpm	14000 rpm	15000 rpm	15000 rpm	16000 rpm
Max. RCF	18624 × g	18624 × g	21379 × g	21379 × g	24325 × g

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 0.5 ml D8 mm, 6/pk	0.5 ml	8 mm	Eppendorf tube	24	30130885	98
Adapter, 1 × 0.2/0.4 ml D6 mm, 6/pk	0.2 / 0.4 ml	6 mm	Eppendorf tube	24	30130884	98



MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied type and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.

Fixed Angle Rotor 12 × 1.5 / 2.0 ml

Description	Item No.	Price (USD)
Rotor, Angle, 12 × 1.5 / 2.0 ml, ID	30314839	1355

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	18000 rpm	18000 rpm	–	–
Max. RCF	–	23542 xg	23542 xg	–	–

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Adapter, 1 × 1.5 ml for over 16000 × g, 6/pk	1.5 ml	11 mm	Eppendorf tube	12	30314900	100
Adapter, 1 × 0.5 ml D8 mm, 6/pk	0.5 ml	8 mm	Eppendorf tube	12	30130885	98
Adapter, 1 × 0.2 / 0.4 ml D6 mm, 6/pk	0.2/0.4 ml	6 mm	Eppendorf tube	12	30130884	98



Fixed Angle Rotor 64 × 0.5 ml

Description	Item No.	Price (USD)
Rotor, Angle, 64 × 0.5 ml, ID	30314840	1370

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	13500 rpm	13500 rpm	–	–
Max. RCF	–	16298 xg	16298 xg	–	–



Fixed Angle Rotor 4 × 8-w PCR Strip

Description	Item No.	Price (USD)
Rotor, Angle, 4 × 8-w PCR Strip, ID	30314841	1950

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	15000 rpm	15000 rpm	–	–
Max. RCF	–	15343 xg	15343 xg	–	–



MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.



Swing Out Rotors 4 × 250 ml

Description	Item No.	Price (USD)
Rotor, Swing out, 4 × 250 ml, ID	30314820	1550

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	–	–	–	4500 rpm	4500 rpm
Max. RCF	–	–	–	3780 xg	3780 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Screw Cap, Rack of 250 ml Rotor, 2/pk	–	–	–	–	30314901	128
O-ring, Rack of 250 ml Rotor, 10/pk	–	–	–	–	30314902	66
Rack, 1 × 250 ml D62 mm FB, 2/pk	250 ml	62 mm	Flat bottom	4	30314903	302
Rack, 1 × 100 ml D41 mm RB, 2/pk	100 ml	41 mm	Round bottom	4	30314904	302
Rack, 1 × 50 ml D34 mm RB, 2/pk, v3	50 ml	34 mm	Round bottom	4	30314907	302
Rack, 3 × 50 ml D29 mm RB, 2/pk	50 ml	29 mm	Round bottom	12	30314905	302
Rack, 3 × 50 ml D29 mm FA, 2/pk	50 ml	29 mm	Conical bottom	12	30314906	302
Rack, 2 × 50 ml D29 mm Rim, 2/pk	50 ml	29 mm	Skirted conical bottom	8	30314908	302
Rack, 1 × 50 ml D29 mm Rim, 2/pk, v3	50 ml	29 mm	Skirted conical bottom	4	30314909	302
Rack, 5 × 25 ml D24.5 mm RB, 2/pk	25 ml	24.5 mm	Round bottom	20	30314910	302
Rack, 3 × 25 ml D24.5 mm Rim, 2/pk	25 ml	24.5 mm	Skirted conical bottom	12	30314911	302
Rack, 9 × 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	36	30314912	302
Rack, 7 × 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	28	30314913	302
Rack, 7 × 15 ml D17 mm Rim, 2/pk	15 ml	17 mm	Skirted conical bottom	28	30314914	302
Rack, 8 × 10 ml D16 mm RB, 2/pk	10 ml	16 mm	Round bottom	32	30314915	302
Rack, 8 × 4-10 ml D16 mm Vac, 2/pk	4-10 ml	16 mm	Vacutainer	32	30304367	311
Rack, 14 × 5-7 ml D13 mm RB, 2/pk	5-7 ml	13 mm	Round bottom	56	30314916	302
Rack, 10 × 1.6-7 ml D13 mm Vac, 2/pk	1.6-7 ml	13 mm	Vacutainer	40	30314917	302
Adapter, 9 × 1.5/2.0 ml D11 mm, 2/pk	1.5/2.0 ml	11 mm	Eppendorf tube	36	30304368	286

MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.



Swing Out Rotor 4 × 100 ml

Description	Item No.	Price (USD)
Rotor, Swing out, 4 × 100 ml, ID	30314822	1290

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	4500 rpm	4500 rpm	4500 rpm	—	—
Max. RCF	3350 xg	3350 xg	3350 xg	—	—

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Rack, 1 × 100 ml D46 mm RB, 2/pk	100 ml	46 mm	Round bottom	4	30314842	263
Rack, 1 × 85 ml D38 mm RB, 2/pk	85 ml	38 mm	Round bottom	4	30314843	263
Rack, 1 × 50 ml D34 mm RB, 2/pk	50 ml	34 mm	Round bottom	4	30314844	263
Rack, 1 × 50 ml D29 mm RB, 2/pk	50 ml	29 mm	Round bottom	4	30314845	263
Rack, 1 × 50 ml D29 mm FA, 2/pk	50 ml	29 mm	Conical bottom	4	30314846	263
Rack, 1 × 50 ml D29 mm Rim, 2/pk	50 ml	29 mm	Skirted conical bottom	4	30314847	263
Rack, 1 × 30 ml D25 mm Rim, 2/pk	30 ml	25 mm	Skirted conical bottom	4	30314848	263
Rack, 1 × 25 ml D25 mm RB, 2/pk	25 ml	25 mm	Round bottom	4	30314849	263
Rack, 7 × 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	28	30314852	263
Rack, 2 × 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	8	30314850	263
Rack, 1 × 15 ml D17 mm Rim, 2/pk	15 ml	17 mm	Skirted conical bottom	4	30314851	263
Rack, 5 × 4-10 ml D16 mm Sar, 2/pk	4-10 ml	16 mm	Sarstedt	20	30314858	263
Rack, 9 × 5-7 ml D13 mm RB, 2/pk	5-7 ml	13 mm	Round bottom	36	30314853	263
Rack, 7 × 5-7 ml D13 mm RB, 2/pk	5-7 ml	13 mm	Round bottom	28	30314856	263
Rack, 7 × 5-7 ml D13 mm Vac, 2/pk	5-7 ml	13 mm	Vacutainer	28	30314857	263
Rack, 10 × 1.5 ml D11 mm, 2/pk	1.5 ml	11 mm	Eppendorf tube	40	30314854	263
Rack, 9 × 4.5 ml D12 mm FB, 2/pk	4.5 ml	12 mm	Flat bottom	36	30314855	263

MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.



Swing Out Rotors 4 × 100 ml

Description	Item No.	Price (USD)
Rotor, Swing out, 4 × 100 ml, ID, Sealable	30314823	1085

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	4000 rpm	5000 rpm	5000 rpm	—	—
Max. RCF	2486 xg	3885 xg	3885 xg	—	—

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Bucket, 100 ml w/o Cap, 2/pk	—	—	—	—	30314860	321
Bucket, 100 ml w/ Cap, Sealable, 2/pk	—	—	—	—	30314861	386
Screw Cap, 100 ml Bucket, Sealable, 2/pk	—	—	—	—	30314862	113
O-ring, 100 ml Bucket, Sealable, 10/pk	—	—	—	—	30314863	54
Rack, 1 × 100 ml D40 mm RB, 2/pk	100 ml	40 mm	Round bottom	4	30314864	236
Rack, 1 × 85 ml D38 mm RB, 2/pk, v2	85 ml	38 mm	Round bottom	4	30314865	236
Rack, 1 × 50 ml D34 mm RB, 2/pk, v2	50 ml	34 mm	Round bottom	4	30314866	236
Rack, 1 × 50 ml D29 mm RB, 2/pk, v2	50 ml	29 mm	Round bottom	4	30314867	236
Rack, 1 × 50 ml D29 mm FA, 2/pk, v2	50 ml	29 mm	Conical bottom	4	30314868	236
Bucket, 2 × 50 ml D29 mm FA, w/ Rack, 2/pk	50 ml	29 mm	Conical bottom	8	30314881	500
Rack, 1 × 50 ml D29 mm Rim, 2/pk, v2	50 ml	29 mm	Skirted conical bottom	4	30314869	236
Rack, 1 × 30 ml D25 mm Rim, 2/pk, v2	30 ml	25 mm	Skirted conical bottom	4	30314870	236
Rack, 1 × 25 ml D25 mm RB, 2/pk, v2	25 ml	25 mm	Round bottom	4	30314871	242
Rack, 1 × 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	4	30314872	242
Rack, 2 × 15 ml D17 mm FA, 2/pk, v2	15 ml	17 mm	Conical bottom	8	30314873	242
Rack, 2 × 15 ml D17 mm Rim, 2/pk	15 ml	17 mm	Skirted conical bottom	8	30314874	242
Rack, 4 × 15 ml D17 mm RB, 2/pk	15 ml	17 mm	Round bottom	16	30314875	242
Bucket, 3 × 15 ml D17 mm FA, w/ Rack, 2/pk	15 ml	17 mm	Conical bottom	12	30314882	505
Rack, 3 × 10 ml D17 mm Sar, 2/pk	10 ml	17 mm	Sarstedt	12	30314878	242
Rack, 4 × 10 ml D17 mm Vac, 2/pk	10 ml	17 mm	Vacutainer	16	30314880	236
Rack, 7 × 5-7 ml D13 mm RB, 2/pk, v2	5-7 ml	13 mm	Round bottom	28	30314876	242
Rack, 4 × 5-7 ml D13 mm RB, 2/pk	5-7 ml	13 mm	Round bottom	16	30314879	242
Rack, 5 × 1.5 ml D11 mm, 2/pk	1.5 ml	11 mm	Eppendorf tube	20	30314877	242

MULTI PRO CENTRIFUGE ROTORS & ACCESSORIES

Sample Preparation

Application

Frontier rotors extend the functionality of Frontier centrifuges by increasing the number of tubes of varied types and sizes that can be used in conjunction with each of the centrifuge models. Easy to clean and operate, the rotors are durably constructed to withstand demanding centrifugation.



Swing Out Rotors 2 × 3 MTP

Description	Item No.	Price (USD)
Rotor, Swing out, 2 × 3 MTP, ID	30314824	1875

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm
Max. RCF	2716 xg	2716 xg	2716 xg	2716 xg	2716 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Bucket, 3 × MTP, 2/pk	MTP	—	—	6	30314890	3080
Adapter, 48 × 1.5/2.0 ml D11 mm, 2/pk	1.5/2.0 ml	11mm	Eppendorf tube	96	30314891	815

Swing Out Rotors 4 × 200 ml

Description	Item No.	Price (USD)
Rotor, Swing out, 4 × 200 ml, ID	30314828	2300

Compatible to	FC5714	FC5718	FC5718R	FC5816	FC5816R
Max. Speed	—	—	—	4500 rpm	4500 rpm
Max. RCF	—	—	—	3735 xg	3735 xg

Accessories	Vol./Tube	Diameter	Tube type	No.of tubes/rotor	Item No.	List Price (USD)
Rack, 4 × 50 ml D29 mm FA, 2/pk	50 ml	29 mm	Conical bottom	16	30304375	421
Rack, 10 × 15 ml D17 mm FA, 2/pk	15 ml	17 mm	Conical bottom	40	30314583	421
Rack, 12 × 4-10 ml D16 mm Vac/Sar, 2/pk	4-10 ml	16 mm	Vacutainer/Sarstedt	48	30314585	421
Rack, 14 × 5-7 ml D13 mm Vac/Sar, 2/pk	5-7 ml	13 mm	Vacutainer/Sarstedt	56	30314584	421

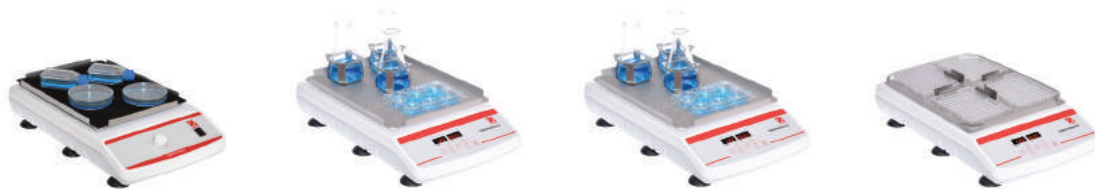


Swing Out Rotors 4 × 750 mL

Description	Item No.	Price (USD)
Rotor, Swing out, 4 × 750 ml, ID	30553085	1760

Compatible to	FC5916	FC5916R
Max. Speed	4,000 rpm	4,000 rpm
Max. RCF	3,434	4,346





	Light Duty Orbital Shaker	Light Duty Orbital Shaker	Light Duty Orbital Shaker	Light Duty Orbital Shaker
Model	SHLD0415AL	SHLD0403DG	SHLD0415DG	SHLDMP03DG
Speed Range	40 to 300 rpm	100 to 1200 rpm	40 to 300 rpm	100 to 1200 rpm
Timer	N/A	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Orbital	Orbital	Orbital
Orbit	15 mm	3 mm	15 mm	3 mm
Max Weight Capacity	8 lbs	8 lbs	8 lbs	4 microplates / 2 micro-tube racks
Audible Alarm	—	•	•	•
Load Sensor	—	—	—	—
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
CO ₂ Environment	•	•	•	•
Overload Protection	—	•	•	•
User Calibration (Speed)	—	—	—	—
RS232 Interface	—	—	—	—
Included Tray (L × W)	11.75 × 8.75"	11.75 × 8.75"	11.75 × 8.75"	11 × 7.75"
Tray / Platform Options (L × W)	N/A	Adjustable Platform	Adjustable Platform	N/A



	High Speed Microplate Shaker	Extreme Environment Shaker	Heavy Duty Shaker	Heavy Duty Shaker	Heavy Duty Shaker
Model	SHHSMPDG	SHEX1619DG	SHHD1619AL	SHHD1619DG	SHHD2325AL
Speed Range	600 rpm to 2500 rpm	15 to 500 rpm	25 to 500 rpm	15 to 500 rpm	25 to 500 rpm
Timer	1 second to 160 hours	1 second to 160 hours	1 to 120 minutes	1 second to 160 hours	1 to 120 minutes
Motion	Orbital	Orbital	Orbital	Orbital	Orbital
Orbit	3.6 mm	19 mm	19 mm	19 mm	25 mm
Max Weight Capacity	48 microplates	35 lbs	35 lbs	35 lbs	50 lbs
Audible Alarm	•	•	—	•	—
Load Sensor	•	•	—	•	—
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
CO ₂ Environment	•	•	•	•	•
Overload Protection	•	•	—	•	—
User Calibration (Speed)	•	•	—	•	—
RS232 Interface	•	•	—	•	—
Included Tray (L × W)	12.3 × 11"	11 × 13"	11 × 13"	11 × 13"	18 × 24"
Tray / Platform Options (L × W)	12.25 × 11" (31.1 × 27.9 cm)	11 × 13", 13 × 13", 18 × 18", 18 × 24" Adjustable Platform Separatory Funnel Platform	11 × 13", 13 × 13", 18 × 18", 18 × 24" Adjustable Platform Separatory Funnel Platform	11 × 13", 13 × 13", 18 × 18", 18 × 24" Adjustable Platform Separatory Funnel Platform	18 × 24", 18 × 30" Adjustable Platform Large Vessel Carrier Platform

• Yes *Maximum speed/tilt angle may vary with heavy or unbalanced loads. **Centered on tray.



	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker	Heavy Duty Orbital Shaker
Model	SHHD2325DG	SHHD4525DG	SHHD4550DG	SHHD6825DG	SHHD6850DG
Speed Range	20 to 500 rpm	15 to 500 rpm	15 to 300 rpm	15 to 500 rpm	15 to 300 rpm
Timer	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Orbital	Orbital	Orbital	Orbital
Orbit	25 mm	25 mm	51 mm	25 mm	51 mm
Max Weight Capacity	50 lbs	100 lbs	100 lbs	150 lbs	150 lbs
Audible Alarm	•	•	•	•	•
Load Sensor	•	•	•	•	•
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
CO ₂ Environment	•	•	•	•	•
Overload Protection	•	•	•	•	•
User Calibration (Speed)	•	•	•	•	•
RS232 Interface	•	•	•	•	•
Included Tray (L × W)	18 × 24"	24 × 24"	24 × 24"	24 × 36"	24 × 36"
Tray / Platform Options (L × W)	18 × 24", 18 × 30" Adjustable Platform Large Vessel Carrier Platform	24 × 24" Large Vessel Carrier Platform	24 × 24" Large Vessel Carrier Platform	24 × 36" Large Vessel Carrier Platform	24 × 36" Large Vessel Carrier Platform



	Rocking Shaker	Rocking Shaker	Waving Shaker	Waving Shaker	Reciprocating Shaker
Model	SHRK04DG	SHRK07AL1	SHWV02DG	SHWV02AL	SHRC0719DG
Speed Range	1 to 50 rpm*	1 to 75 rpm*	1 to 30 rpm*	1 to 75 rpm*	20 to 300 rpm
Timer	1 second to 160 hours	1 minute to 120 minutes	1 second to 160 hours	1 minute to 120 minutes	1 second to 160 hours
Motion	Rocking	Rocking	Waving	Waving	Reciprocating
Orbit	Tilt Angle: 0 to 15°	Tilt Angle: 0 to 15°	Tilt Angle: 0 to 20° *	Tilt Angle: 0 to 16°	Stroke: 19 mm
Max Weight Capacity	10 lbs**	16 lbs**	5 lbs**	5 lbs**	15 lbs
Audible Alarm	•	—	•	—	•
Load Sensor	—	—	—	—	•
Motor Type	Stepper Motor	Stepper Motor	Stepper Motor	Stepper Motor	Brushless DC Motor
CO ₂ Environment	•	—	•	—	•
Overload Protection	•	—	•	—	•
User Calibration (Speed)	—	—	—	—	•
RS232 Interface	—	—	—	—	•
Included Tray (L × W)	12.75 × 10"	14 × 11"	11.75 × 8.75"	14 × 11"	11 × 13"
Tray / Platform Options (L × W)	Stacking Tray	Stacking Tray	Stacking Tray	—	11 × 13", 13 × 13", 18 × 18", 18 × 24" Separatory Funnel Platform

• Yes *Maximum speed/tilt angle may vary with heavy or unbalanced loads. **Centered on tray.

LIGHT DUTY ORBITAL SHAKERS

Choose the Perfect Light Duty Orbital Shaker You Can Trust for Reliable Everyday Shaking



Application

Blotting techniques, staining/destaining, and general shaking procedures.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from 0 to 40°C (32 to 104°F), maximum 80% relative humidity, non-condensing.

Design Features

Low Profile Design: Takes up less space and easily fits into most hoods and incubators.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

Adjustment Knob: Basic speed knob with dial settings from 1 to 10.



Designed for flexibility with your applications – OHAUS Light Duty Shakers include the ready-to-use tray and mat, or remove the mat and customize the tray with over 20 easy-to-install accessories.

Well-performing economical choice for your everyday laboratory shaking needs. Non-digital model offers reliable shaking across the entire speed range with the robust triple eccentric drive design.

Microplate shaker is designed to securely hold up to four microplates or deepwell plates, or easily install two microtube racks. Units slowly increase speed to desired setpoint to avoid splashing.

Model	Speed Range	Orbit	Maximum Weight Capacity	Tray Material	Tray Dimensions (L x W x H)	Item No.	List Price (USD)
SHLD0415AL	40 to 300 rpm	15 mm (0.6")	8 lbs (3.6 kg)	Aluminum	11.75 x 8.75" (29.9 x 22.2 cm)	30391891	1085

LIGHT DUTY ORBITAL SHAKERS

Choose the Perfect Light Duty Orbital Shaker You Can Trust for Reliable Everyday Shaking



Application

Cell cultures, immunoassays, and protein studies.

Safety Features

Overload Protection: Audible and visual signals activate when system detects an obstruction or overload

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Units can be run in cold rooms, incubators, and CO₂ environments.

SHLD0403DG: -10 to 60°C (14 to 140°F), SHLD0415DG: -10 to 40°C (14 to 104°F) Max. 80% relative humidity, non-condensing.

Design Features

Low Profile Design: Takes up less space and easily fits into most hoods and incubators.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action.

Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.



Designed for flexibility with your applications – OHAUS Light Duty Shakers include the ready-to-use tray and mat, or remove the mat and customize the tray with over 20 easy-to-install accessories.

Well-performing economical choice for your everyday laboratory shaking needs. Non-digital model offers reliable shaking across the entire speed range with the robust triple eccentric drive design.

Microplate shaker is designed to securely hold up to four microplates or deepwell plates, or easily install two microtube racks. Units slowly increase speed to desired setpoint to avoid splashing.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHLD0403DG	100 to 1200 rpm	+/-2% above 100 rpm	1 second to 160 hours	3 mm (0.12")	8 lbs (3.6 kg)	Aluminum	11.75 x 8.75" (29.9 x 22.2 cm)	30391898	1435
SHLD0415DG	40 to 300 rpm	+/-2 rpm below 100 rpm	1 second to 160 hours	15 mm (0.6")	8 lbs (3.6 kg)	Aluminum	11.75 x 8.75" (29.9 x 22.2 cm)	30391912	1385

LIGHT DUTY ORBITAL SHAKERS

Choose the Perfect Light Duty Orbital Shaker You Can Trust for Reliable Everyday Shaking



Application

ELISA assays and DNA studies.

Safety Features

Overload Protection: Audible and visual signals activate when system detects an obstruction or overload

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.

Design Features

Low Profile Design: Takes up less space and easily fits into most hoods and incubators. Base offers durability and added stability

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.



Designed for flexibility with your applications – OHAUS Light Duty Shakers include the ready-to-use tray and mat, or remove the mat and customize the tray with over 20 easy-to-install accessories.

Well-performing economical choice for your everyday laboratory shaking needs. Non-digital model offers reliable shaking across the entire speed range with the robust triple eccentric drive design.

Microplate shaker is designed to securely hold up to four microplates or deepwell plates, or easily install two microtube racks. Units slowly increase speed to desired setpoint to avoid splashing.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHLDMP03DG	100 to 1200 rpm	± 2%	1 second to 160 hours	3 mm (0.12")	4 microplates or 2 micro-tube racks	Aluminum	11 x 7.75" (27.9 x 19.7 cm)	30391905	1100

EXTREME ENVIRONMENT SHAKERS

High Performance Orbital Shaker Designed to Withstand Extreme Environments Up To 100% Humidity

Application

Cell cultures, solubility studies, and extraction procedures.

Safety Features

Overload Protection: Audible and visual signals activate when system detects an obstruction or overload

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO2 environments from -10 to 60°C (14 to 140°F), up to 100% humidity.



Defy the elements—rely on this orbital shaker's unique construction to deliver exceptional speed control, accuracy and durability under the most extreme environmental conditions.

Best in class load capacity to maximize efficiency in your incubator. Customize the Extreme Environment Shaker for your unique application with over 50 accessories.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The triple eccentric drive provides smooth, stable shaking motion throughout the entire speed range.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHEX1619DG	15 to 500 rpm	above 100 rpm $\pm$ 1% of set speed below 100 rpm $\pm$ 1 rpm	1 second to 160 hours	0.75" (19 mm)	35 lbs (16 kg)	Aluminum	11 x 13" (27.9 x 33 cm)	30391809	3550

Design Features

Accu-Drive Shaking System: The exclusive patented Accu-Drive Shaking System delivers exceptional speed control, accuracy, and durability. The shaking system continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is $\pm$ 1% of set speed. When set under 100 rpm, speed accuracy is $\pm$ 1 rpm.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

Remote Controller: The control module is designed to sit outside of the incubator. Settings can be easily viewed or changed from outside of the incubator without disturbing the incubator's atmosphere. The thin ribbon cable is 5.5 feet long and easily passes underneath an incubator door via incubator's utility port. Controller magnetically attaches to most incubator doors or can sit on a lab bench.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

RS232 Interface: Provides two-way communication for data logging and unit control.

Speed Calibration Mode: Allows user to automatically recalibrate speed display.

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Bacterial suspensions, staining/destaining, and general mixing

Safety Features

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from 0 to 40°C (32 to 104°F), maximum 80% relative humidity, non-condensing.

Design Features

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. The shaker will automatically restart after a power interruption.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

Adjustment Knobs: Basic speed and time knobs with dial settings from 1 to 10.



Ready for your lab—all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Speed Range	Timer	Orbit	Max. Weight Capacity	Tray Material	Tray Dimensions (L × W)	Item No.	List Price (USD)
SHHD1619AL	25 to 500 rpm	1 minute to 120 minutes	19 mm (0.75")	35 lbs (16 kg)	Aluminum	11 × 13" (27.9 × 33 cm)	30391307	2160

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Cell cultures, solubility studies, and extraction procedures

Safety Features

Load Sensor: A built-in load sensor detects unbalanced conditions and automatically reduces rpm to a safe speed to protect samples.

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the Touchpad control.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Ready for your lab—all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHHD1619DG	15 to 500 rpm	above 100 rpm $\pm 1\%$ of set speed below 100 rpm ± 1 rpm	1 second to 160 hours	19 mm (0.75") orbit	35 lbs (16 kg)	Aluminum	11 x 13" (27.9 x 33 cm)	30391807	2575

Design Features

Accu-Drive Shaking System: The exclusive patented Accu-Drive Shaking System delivers exceptional speed control, accuracy, and durability. The shaking system continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is $\pm 1\%$ of set speed. When set under 100 rpm, speed accuracy is ± 1 rpm.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

RS232 Interface: Provides two-way communication for data logging and unit control.

Speed Calibration Mode: Allows user to automatically recalibrate speed display.

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Bacterial suspensions, staining/destaining, and general mixing

Safety Features

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from 0 to 40°C (32 to 104°F), maximum 80% relative humidity, non-condensing.

Design Features

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. The shaker will automatically restart after a power interruption.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

Adjustment Knobs: Basic speed and time knobs with dial settings from 1 to 10.



Ready for your lab—all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Speed Range	Timer	Orbit	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHHD2325AL	25 to 500 rpm	1 minute to 120 minutes	25 mm (1")	50 lbs (22.7 kg)	Aluminum	18 x 24" (45.7 x 61 cm)	30391835	4760

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Cell cultures, solubility studies, and extraction procedures

Safety Features

Load Sensor: A built-in load sensor detects unbalanced conditions and automatically reduces rpm to a safe speed to protect samples.

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the Touchpad control.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Ready for your lab—all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHHD2325DG	20 to 500 rpm	above 100 rpm $\pm$ 1% of set speed below 100 rpm $\pm$ 1 rpm	1 second to 160 hours	25 mm (1")	50 lbs (22.7 kg)	Aluminum	18 x 24" (45.7 x 61 cm)	30391842	5045

Design Features

Accu-Drive Shaking System: The exclusive patented Accu-Drive Shaking System delivers exceptional speed control, accuracy, and durability. The shaking system continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is $\pm$ 1% of set speed. When set under 100 rpm, speed accuracy is $\pm$ 1 rpm.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

RS232 Interface: Provides two-way communication for data logging and unit control.

Speed Calibration Mode: Allows user to automatically recalibrate speed display.

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Cell cultures, solubility studies, and extraction procedures

Safety Features

Load Sensor: A built-in load sensor detects unbalanced conditions and automatically reduces rpm to a safe speed to protect samples.

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the Touchpad control.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Ready for your lab—all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHHD4525DG	15 to 500 rpm	above 100 rpm $\pm$ 1% of set speed below 100 rpm $\pm$ 1 rpm	1 second to 160 hours	25 mm (1")	100 lbs (45.4 kg)	Aluminum	24 x 24" (61 x 61 cm)	30391863	7175
SHHD4550DG	15 to 300 rpm	above 100 rpm $\pm$ 1% of set speed below 100 rpm $\pm$ 1 rpm	1 second to 160 hours	51 mm (2")	100 lbs (45.4 kg)	Aluminum	24 x 24" (61 x 61 cm)	30391870	7410

Design Features

Accu-Drive Shaking System: The exclusive patented Accu-Drive Shaking System delivers exceptional speed control, accuracy, and durability. The shaking system continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is $\pm$ 1% of set speed. When set under 100 rpm, speed accuracy is $\pm$ 1 rpm.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

RS232 Interface: Provides two-way communication for data logging and unit control.

Speed Calibration Mode: Allows user to automatically recalibrate speed display.

HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Cell cultures, solubility studies, and extraction procedures

Safety Features

Load Sensor: A built-in load sensor detects unbalanced conditions and automatically reduces rpm to a safe speed to protect samples.

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the Touchpad control.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Ready for your lab—all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHHD6825DG	15 to 500 rpm	above 100 rpm $\pm$ 1% of set speed below 100 rpm $\pm$ 1 rpm	1 second to 160 hours	25 mm (1")	150 lbs (68 kg)	Aluminum	24 x 36" (61 x 91 cm)	30391877	8090
SHHD6850DG	15 to 300 rpm	above 100 rpm $\pm$ 1% of set speed below 100 rpm $\pm$ 1 rpm	1 second to 160 hours	51 mm (2")	150 lbs (68 kg)	Aluminum	24 x 36" (61 x 91 cm)	30391884	9005

Design Features

Accu-Drive Shaking System: The exclusive patented Accu-Drive Shaking System delivers exceptional speed control, accuracy, and durability. The shaking system continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is $\pm$ 1% of set speed. When set under 100 rpm, speed accuracy is $\pm$ 1 rpm.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

RS232 Interface: Provides two-way communication for data logging and unit control.

Speed Calibration Mode: Allows user to automatically recalibrate speed display.

ROCKING & WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed



Application

Staining and destaining gels, hybridization procedures, hematology, and blotting techniques

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Timer: Timer will automatically stop rocking motion when timer reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.

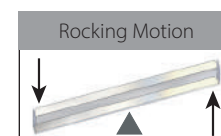
Design Features

Low Profile Design: Takes up less bench space and fits into most hoods and incubators. Two-tier option increases the capacity with the same footprint and provides a 3.5" (8.9 cm) clearance between platforms.

Cast aluminum base offers durability and added stability

Microprocessor Control: The microprocessor control provides tilt adjustment which allows user to easily adjust rocking angle from 0 to 15° while unit is operating. Smooth speed control with low speed rocking motion.

Independent Control Knobs: Independent control knobs for speed, tilt, and time, allow for easy adjustments.



Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Model	Speed Range	Tilt Angle	Timer	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHRK07AL1	1 to 75 rpm*	0 to 15°*	1 minute to 120 minutes	16 lbs (7.3 kg)**	Aluminum	14 x 11" (35.6 x 27.9 cm)	30391959	975
SHRK07AL2	1 to 75 rpm*	0 to 15°*	1 minute to 120 minutes	16 lbs (7.3 kg)**	Aluminum	14 x 11" (35.6 x 27.9 cm)	30391966	1080

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

ROCKING & WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed



Application

Staining and destaining gels, hybridization procedures, hematology, and blotting techniques

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

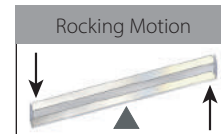
Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Timer: Timer will automatically stop rocking motion when timer reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Model	Speed Range	Speed Accuracy	Tilt Angle	Timer	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHRK04DG	1 to 50 rpm*	± 1 rpm	0 to 15°*	1 second to 160 hours	10 lbs (4.5 kg)**	Aluminum	12.75 x 10" (32.4 x 25.4 cm)	30391994	1185

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

Design Features

Low Profile Design: Takes up less space and easily fits into most hoods and incubators. Cast aluminum base offers durability and added stability.

Microprocessor Control: The microprocessor control provides electronic tilt angle adjustment which allows user to easily adjust rocking angle from 0 to 15° while unit is operating. Precise speed control provides smooth, low-speed rocking motion down to 1 rpm.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and tilt angle, and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

ROCKING & WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed



Application

Staining and destaining gels, hybridization procedures, hematology, and blotting techniques

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Timer: Timer will automatically stop rocking motion when timer reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

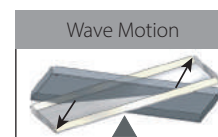
Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.

Design Features

Low Profile Design: Takes up less space and easily fits into most hoods and incubators. Cast aluminum base offers durability and added stability.

Microprocessor Control: Provides tilt adjustment which allows user to easily adjust waving angle from 0 to 16° while unit is operating. Smooth speed control with low speed waving motion.

Independent Control Knobs: Independent control knobs for speed, tilt, and time, allow for easy adjustments.



Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Model	Speed Range	Tilt Angle	Timer	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHWV02AL	1 to 75 rpm*	0 to 16°*	1 minute to 120 minutes	5 lbs (2.3 kg)**	Aluminum	14 x 11" (35.6 x 27.9 cm)	30391973	1395

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

ROCKING & WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed



Application

Blood samples, DNA extractions, blotting techniques, and general mixing of various size tubes.

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

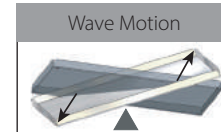
Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Spill-Resistant Design: Channels fluids away from internal components.

Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Model	Speed Range	Speed Accuracy	Tilt Angle	Timer	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHWV02DG	1 to 30 rpm*	± 1 rpm	0 to 20°*	1 second to 160 hours	5 lbs (2.3 kg)**	Aluminum	11.75 x 8.75" (29.9 x 22.2 cm)	30391947	1760

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

Design Features

Low Profile Design: Takes up less space and easily fits into most hoods and incubators. Cast aluminum base offers durability and added stability.

Microprocessor Control: The microprocessor control provides electronic tilt angle adjustment which allows user to easily adjust waving angle from 0 to 20° while unit is operating. Precise speed control provides smooth, low-speed waving motion down to 1 rpm.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and tilt angle, and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last settings, even after power has been turned off.

RECIPROCATING SHAKERS

Providing Consistent, Repeatable Reciprocating Shaking Action for a Variety of Applications



Application

Cell cultures, solubility studies, and extraction procedures.

Safety Features

Load Sensor: A built-in load sensor detects unbalanced conditions and automatically reduces rpm to a safe speed to protect samples.

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the Touchpad control.

Spill-Resistant Design: Channels fluids away from internal components.



Operation

Unit can be run in cold rooms, incubators, and CO₂ environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.

A flexible unit for the lab—our multi-purpose Reciprocating Shakers can be customized to fit your unique workflow needs using a wide variety of accessories.

Reciprocating motion is ideal for gentle-to-vigorous mixing of separatory funnels with the sturdy separatory funnel platform. Other optional platforms for flask clamps, media bottles and tube racks.

Designed for safety—speed ramping feature slowly increases speed to avoid splashing. Load sensor detects unbalanced conditions and automatically reduces to a safe speed to protect samples.

Model	Speed Range	Speed Accuracy	Timer	Stroke	Max. Weight Capacity	Tray Material	Tray Dimensions (L x W)	Item No.	List Price (USD)
SHRC0719DG	20 to 300 rpm	above 100 rpm $\pm 1\%$ of set speed below 100 rpm ± 1 rpm	1 second to 160 hours	19 mm (0.75")	15 lbs (6.8 kg)	Aluminum	11 x 13" (27.9 x 33 cm)	30391828	2285

Design Features

The shaking system in both models continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is $\pm 1\%$ of set speed. When set under 100 rpm, speed accuracy is ± 1 rpm.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

Single Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

RS232 Interface: Provides two-way communication for data logging and unit control.

Speed Calibration Mode: Allows user to automatically recalibrate speed display.

HIGH SPEED MICROPLATE SHAKER

High Speed Shaking for up to 48 Microplates

Applications

Cell Lysing, Emulsifications, Mixing Microplates, DNA Preparation

Display

Independent LED displays for speed and time

Communication

RS-232 Interface

Construction

Die Cast Aluminum

Design Features

Programmable pulse feature with adjustments for pulse ON and pulse OFF intervals of between 1 and 59 seconds. Program timer to count down from set time and turn off when timer reaches zero, or to run in continuous mode as timer counts accumulated time until user turns it off.

Operating Conditions

39–104°F, 20% to 80% Relative Humidity, non-condensing



Sturdy, adjustable top plate secures up to 48 microplates, 6 deep well plates, or small tubes less than 5 in (12.7 cm) tall and up to 7 lb (3.2 kg).

For difficult to mix samples, or to prevent overheating samples while shaking, the Pulse Feature can be adjusted to Pulse ON and Pulse OFF for intervals of between 1 and 59 seconds.

Independent LEDs and Touchpad Control for Speed and Time allow you to accurately reproduce the exact settings every time.

Model	Motion	Speed Range	Capacity	Dimensions (H x L x W)	Tray Dimensions (L x W)	Timer	Net Weight	Power Consumption	Item No.	List Price (USD)
SHHSMPDG	Orbital, .14 in / 3.6 mm	600 rpm to 2500 rpm	48 microplates	12.8 x 15.5 x 12 in 32.5 x 39.4 x 30.5 cm	12.3 x 11 in 31.1 x 27.9 cm	1 second to 160 hours	48.1 lb / 21.8 kg	120 W	30573784	5,196



	Incubating Cooling Thermal Shakers	Incubating Light Duty Orbital Shaker	Incubating Light Duty Orbital Shakers
Model	ISTHBLCTS (Heat/Cool) ISTHBLHTS (Heat)	ISLD04HDG	ISLDMPHDG ISLDMPHDGL
Temperature Range	17 below ambient to 100°C / ambient +4 to 100°C	Ambient +5° to 65°C	Ambient +5° to 65°C
Speed Range	300 to 3000 rpm	100 to 1200 rpm	100 to 1200 rpm
Timer	1 minute to 99 hours, 59 min	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Orbital	Orbital
Orbit	3 mm	3 mm	3 mm
Max Weight Capacity	1 Block	8 lbs	4 Microplates / 2 Micro-Tube Racks
Audible Alarm	•	•	•
Load Sensor	•	—	—
Drive System	—	Triple Eccentric	Triple Eccentric
Motor Type	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
Set-Point Retention	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting
Restart/Power Out	•	•	•
Ramp to Speed	•	•	•
Temperature Overshoot Protection	•	—	—
Overload Protection	•	•	•
User Calibration (Temperature)	•	•	•
User Calibration (Speed)	•	—	—
Interface	USB	—	—
Overall Dimensions (L x W x H)	10.59 x 10.31 x 5.39"	17 x 11 x 10.5"	17 x 11 x 7.75"
Included Tray (L x W)	N/A	11 x 7.75"	11 x 7.75"
Platform Options (L x W)	N/A	N/A	N/A

- Yes ** Maximum speed/tilt angle may vary with heavy or unbalanced loads.
** Centered on tray.



	Incubating Cooling Light Duty Orbital Shaker	Incubating Rocking Shaker	Incubating Waving Shaker	Incubating Heavy Duty Orbital Shakers
Model	ISICMBCDG	ISRK04HDG	ISWV02HDG	ISHD16HDG, ISHD23HDG, ISHD23CDG
Temperature Range	10°C Below Ambient to 65°C	Ambient +5° to 65°C	Ambient +5° to 65°C	Ambient +5°C to 65°C, 15°C below ambient to 65°C (ISHD23CDG Models only)
Speed Range	100 to 1200 rpm	1 to 50 rpm	1 to 30 rpm	15 to 500 rpm
Timer	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours	1 second to 160 hours
Motion	Orbital	Rocking	Waving	Orbital
Orbit	3 mm	Tilt Angle: 0 to 15° *	Tilt Angle: 0 to 20° *	19 mm
Max Weight Capacity	2 Microplates 2 Modular Blocks	10 lbs**	5 lbs**	ISHD16HDG 5/35 lb ISHD23HDG 10/50 lb ISHD23CDG 10/50 lb
Audible Alarm	•	•	—	•
Load Sensor	—	—	—	•
Drive System	Triple Eccentric	Cable	Cable	Triple Eccentric
Motor Type	Brushless DC Motor	Stepper Motor	Stepper Motor	Brushless DC Motor
Set-Point Retention	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting
Restart/Power Out	•	•	—	•
Ramp to Speed	•	•	—	•
Temperature Overshoot Protection	—	—	—	•
Overload Protection	•	•	—	•
User Calibration (Temperature)	—	—	—	•
User Calibration (Speed)	—	—	—	•
Interface	—	—	—	RS-232 Interface
Overall Dimensions (L x W x H)	16.49 x 10.11 x 10.98"	17 x 11 x 10.5"	17 x 11 x 10.5"	ISHD16HDG 16.0 x 25.5 x 14.0" ISHD23HDG 23.5 x 32.1 x 26.6" ISHD23CDG 23.5 x 41.1 x 26.6"
Included Tray (L x W)	N/A	10 x 7.5"	9.25 x 7.25"	ISHD16HDG 13 x 11" ISHD23HDG 18 x 18" ISHD23CDG 18 x 18"
Platform Options (L x W)	N/A	N/A	N/A	N/A

- Yes ** Maximum speed/tilt angle may vary with heavy or unbalanced loads.
** Centered on tray.

INCUBATING COOLING THERMAL SHAKERS

Exceptional Heating/Cooling Performance with High Speed Shaking



Application

Cell cultures, DNA, RNA, and protein studies.

Safety Features

Cool Touch Housing: Constructed from a high-quality, heat and chemical resistant polymer. The unit's housing remains cool to the touch throughout normal operating temperatures.

Maximum Temperature Limiting Function: Ensures the temperature will not exceed preset limits, allowing the user control of temperature sensitive samples.

Hot Top Indicator: A hot top warning light will illuminate when the temperature reaches 40°C, and will remain lit until the unit is sufficiently cooled.

Audible Alarm: In timed mode, an alarm will sound when the time reaches zero or set-point temperature is reached. Additionally, the heat function will automatically shut off if the unit recognizes an internal issue.

Automatic Block Recognition: The unit will read the specific block being used and prevents potential over-speed programming.

Operation

Unit can operate in conditions from 5 to 35°C (41 to 95°F), max. 80% relative humidity, non-condensing.



Best in class temperature performance. Enhanced electronics and software allow for fast and accurate temperature control you can trust. Cooling models reach temperatures down to 17°C below ambient.

Intuitive touchscreen for simple operation and programming. Set the functions and the comprehensive help screens in one of six languages to guide the user through the operation of the unit.

Easily create programs for repeat applications. Storage for five separate, 5-step programs. The USB port allows the transfer of test data to a flash drive for data logging and program storage.

Model	Temp. Range	Temp. Accuracy	Speed Range	Speed Accuracy	Timer	Orbit	Cooling Rate	Heating Rate	Ite(m No.	List Price (USD)
ISTHBLHTS*	4°C above ambient to 100°C	± 1°C between 20°C and 45°C ± 2°C above 45°C	300 to 3000 rpm	± 2%	1 minute to 99 hours, 59 minutes	3 mm (0.12")	above ambient 2-3°C/ minbelow ambient 0.5-1.0°C/min	5°C/min	30392003	2,405
ISTHBLCTS*	17°C below ambient to 100°C	± 0.5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C	300 to 3000 rpm	± 2%	1 minute to 99 hours, 59 minutes	3 mm (0.12")	above ambient 2-3°C/ minbelow ambient 0.5-1.0°C/min	5°C/min	30391996	3,200
ISTHBLHTSN	4°C above ambient to 100°C	± 1°C between 20°C and 45°C ± 2°C above 45°C	300 to 3000 rpm	± 2%	1 minute to 99 hours, 59 minutes	3 mm (0.12")	above ambient 2-3°C/ minbelow ambient 0.5-1.0°C/min	5°C/min	30573847	2,230
ISTHBLCTSN	17°C below ambient to 100°C	± 0.5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C	300 to 3000 rpm	± 2%	1 minute to 99 hours, 59 minutes	3 mm (0.12")	above ambient 2-3°C/ minbelow ambient 0.5-1.0°C/min	5°C/min	30573841	2,880

*Units are supplied with block for 24 x 1.5 mL tubes

Design Features

Low Profile Design: The low profile design minimizes the unit's footprint on the bench.

LCD Touchscreen: Enables faster setting of temperature, speed, and time which can all be viewed at once. Display features on-screen help topics with operational tips available in six languages.

Touchscreen is compatible with rubber gloves used in labs. USB port can transfer information to a flash drive for data logging, program storage and software updates.

Program Control: Program control capabilities allow user programmable operation for automated use and memory. Storage for five separate 5-step programs, or unlimited number of programs with the use of the USB.

Temperature Ramp Rate: Adjustable temperature ramp rate feature separately defines the heating and cooling rate in increments of 0.5°C/min.

Single Point Calibration Mode: For maximum temperature accuracy, the single point calibration procedure allows the user to calibrate up to 6 different user defined temperatures.

Pulse Mode Feature: The unit is equipped with a pulse mode feature for quick vortex applications.

INCUBATING COOLING THERMAL SHAKERS MODULAR BLOCKS



Microplate Block

Sample Type	Well Size	Well Depth	Dimensions (L x W x H)	Item No.	List Price (USD)
Microplate Thermal Block with Lid	4.21 x 2.81 x 0.1" (10.7 x 7.1 x 0.25 cm)	0.9" (2.30 cm)	4.7 x 6.4 x 3.0" (11.9 x 16.3 x 7.6 cm)	30400126	1120

Sample Type	Well Diameter	Well Depth	Dimensions (L x W x H)	Item No.	List Price (USD)
384 Well Plate Thermal Block with Lid	0.16" (0.40 cm)	0.32" (0.81 cm)	4.7 x 6.4 x 3.0" (11.9 x 16.3 x 7.6 cm)	30400127	1120
0.2 mL PCR Plate Thermal Block with Lid	0.25" (0.64 cm)	0.50" (1.27 cm)	4.7 x 6.4 x 3.0" (11.9 x 16.3 x 7.6 cm)	30400128	1120

Tube Blocks

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions (L x W x H)	Item No.	List Price (USD)
0.5 mL Microtubes*	30	0.31" (0.79 cm)	0.97" (2.46 cm)	4.0 x 5.6 x 1.8" (10.2 x 14.2 x 4.6 cm)	30400129	850
1.5 mL Microtubes*	24	0.44" (1.11 cm)	1.39" (3.53 cm)	4.0 x 5.6 x 2.1" (10.2 x 14.2 x 5.3 cm)	30400130	850
2.0 mL Microtubes*	24	0.45" (1.15 cm)	1.39" (3.53 cm)	4.0 x 5.6 x 2.1" (10.2 x 14.2 x 5.3 cm)	30400131	850
12 mm Tubes	24	0.47" (1.20 cm)	1.42" (3.61 cm)	4.0 x 5.6 x 2.2" (10.2 x 14.2 x 5.6 cm)	30400132	850

* Supplied with clear rack and cover

Racks and Covers

Description	Item No.	List Price (USD)
Rack For 30 x 0.5 mL Tube Block	30400250	44
Rack For 24 x 1.5 / 24 x 2.0 mL Tube Blocks	30400251	44
Cover For 0.5mL / 1.5mL / 2.0mL Tube Blocks	30400252	30

Cryotube Block

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions (L x W x H)	Item No.	List Price (USD)
2.0 mL Cryotubes	24	0.50" (1.26 cm)	1.42" (3.6 cm)	4.0 x 5.6 x 2.2" (10.2 x 14.2 x 5.6 cm)	30400133	850

Conical Tube Blocks

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions (L x W x H)	Item No.	List Price (USD)
5 mL Eppendorf Tube Block	9	0.66" (1.68 cm)	1.93" (4.9 cm)	4.1 x 5.7 x 2.8" (10.4 x 14.5 x 7.1 cm)	30400134	850
15 mL Conical Tubes	9	0.68" (1.73 cm)	4.11" (10.44 cm)	4.2 x 5.7 x 5.0" (10.7 x 14.7 x 12.7 cm)	30400135	850
50 mL Conical Tubes	4	1.18" (3.0 cm)	3.97" (10.09 cm)	4.0 x 5.7 x 4.8" (10.2 x 14.5 x 12.2 cm)	30400136	850

INCUBATING LIGHT DUTY ORBITAL SHAKERS

Save Bench Space with Combined Incubating and Shaking Features



Application

Cell cultures, DNA, RNA, and protein studies.

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Caution Hot Indicator: Symbol illuminates when the temperature of the air in the chamber reaches 40°C and remains lit until temperature cools down.

Spill-Resistant Design: Channels fluids away from internal components.

Polycarbonate Lid: Permits viewing of samples without disturbing internal temperature.

Operation

Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 80% relative humidity, non-condensing.



Designed to provide flexibility in your applications, these shakers with a 4 kg capacity include the ready-to-use tray to customize with over 10 easy-to-install accessories.

When precision is required, achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Microplate shaker is designed to hold up to 4 microplates or deepwell plates, or easily install 2 microtube racks. Two options—opaque lid for light sensitive samples and clear lid for viewing samples.

Model	Temp. Range	Temp. Uniformity	Speed Range	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Tray Dimensions (L x W)	Interior Dimensions (L x W x H)	Item No.	List Price (USD)
ISLD04HDG	Ambient +5°C to 65°C	± 0.5°C at 37°C	100 to 1200 rpm	± 2% of set speed	1 second to 160 hours	3 mm (0.12")	8 lbs (3.6 kg)	11 x 7.75" (27.9 x 19.7 cm)	11.3 x 8.3 x 5.7" (28.7 x 21.1 x 14.5 cm)	30391924	3000

Design Features

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

PID Temperature Controller: Maintains precise temperature control from ambient +5°C to 65°C. Easy-to-use controls allow users to adjust temperature in 1°C increments.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for temperature, speed and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Temperature Calibration Mode: Allows user to calibrate unit to an external temperature device.

INCUBATING LIGHT DUTY ORBITAL SHAKERS

Save Bench Space with Combined Incubating and Shaking Features



Application

Cell cultures, DNA, RNA, and protein studies.

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Caution Hot Indicator: Symbol illuminates when the temperature of the air in the chamber reaches 40°C and remains lit until temperature cools down.

Spill-Resistant Design: Channels fluids away from internal components.

Polycarbonate Lid: Permits viewing of samples without disturbing internal temperature.



Operation

Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 80% relative humidity, non-condensing.

Designed to provide flexibility in your applications, these shakers with a 4 kg capacity include the ready-to-use tray to customize with over 10 easy-to-install accessories.

When precision is required, achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Microplate shaker is designed to hold up to 4 microplates or deepwell plates, or easily install 2 microtube racks. Two options—opaque lid for light sensitive samples and clear lid for viewing samples.

Model	Temp. Range	Temp. Uniformity	Speed Range	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Tray Dimensions (L x W)	Item No.	List Price (USD)
ISLDMPHDG	Ambient +5°C to 65°C	± 0.5°C at 37°C	100 to 1200 rpm	± 2%	1 second to 160 hours	3 mm (0.12")	4 microplates or 2 micro-tube racks	11 × 7.75" (27.9 × 19.7 cm)	30391938	2745
ISLDMPHDGL*	Ambient +5°C to 65°C	± 0.5°C at 37°C	100 to 1200 rpm	± 2%	1 second to 160 hours	3 mm (0.12")	4 microplates or 2 micro-tube racks	11 × 7.75" (27.9 × 19.7 cm)	30391931	2745

*Unit includes opaque lid

INCUBATING COOLING ORBITAL SHAKERS

Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples



Application

Cell and bacterial cultures, hybridizations, and enzyme reactions.

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the Touchpad control.

Caution Hot Indicator: Symbol illuminates when the temperature of the air in the chamber reaches 40°C and remains lit until temperature cools down.

Spill-Resistant Design: Channels fluids away from internal components.

Polycarbonate Lid: Permits viewing of samples without disturbing internal temperature.



Operation

Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 80% relative humidity, non-condensing.

Designed to provide flexibility in your applications, these shakers are microplate ready - no accessories required, and can easily accommodate modular blocks with the included block adapter.

When precision is required, achieve temperature accuracy with the unique temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Innovative temperature system allows for fast, accurate and uniform temperatures you can trust. The unique Peltier design with direct plate-to-sample contact offers precise heating and cooling.

Model	Temp. Range	Temp. Uniformity	Speed Range using Microplates	Speed Range using Modular Blocks	Speed Accuracy	Timer	Orbit	Maximum Weight Capacity	Item No.	List Price (USD)
ISICMBCDG	10°C below ambient to 65°C	± 0.5°C at 37°C	100 to 1200 rpm	100 to 600 rpm	± 2%	1 second to 160 hours	3 mm (0.12")	2 microplates or 2 modular blocks	30391945	4565

Design Features

Microprocessor Control: The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

PID Temperature Controller: Maintains precise temperature control from 10°C below ambient to 65°C.

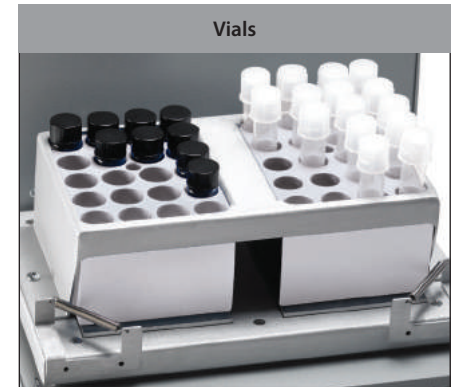
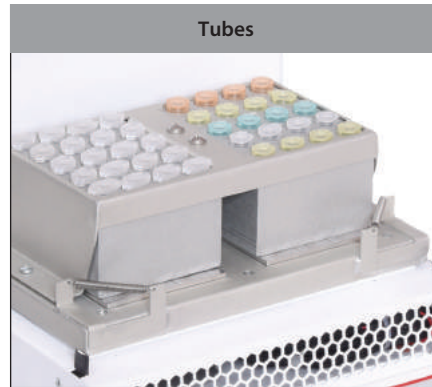
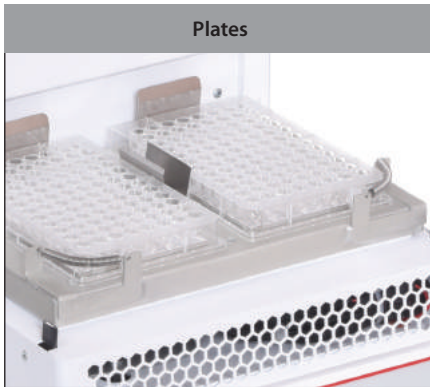
Easy-to-use controls allow users to adjust temperature in 1°C increments.

Triple Eccentric Drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

LED Display: Touchpad controls with easy-to-read, independent LED displays for temperature, speed, and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Temperature Calibration Mode: Allows user to calibrate unit to an external temperature device.

INCUBATING LIGHT DUTY ORBITAL SHAKERS MODULAR BLOCKS



Modular Blocks

Modular Blocks are constructed from a solid anodized aluminum block. The close contact of tubes to block walls allow for maximum temperature transfer.

Block dimensions (L × W × H): 3.75 × 3 × 2" (9.5 × 7.6 × 5.1 cm)

Applications: Cell cultures, hybridizations, and extraction procedures

OHAUS modular blocks also fit in the OHAUS Dry Block Heaters.

Constructed of anodized aluminum, this material is ideal for its temperature conducting and corrosion resistant properties.

Microcentrifuge Tube Blocks

Single block

Sample Type	No. of Wells	Well Diameter	Well Depth	Item No.	List Price (USD)
0.5 mL tube	30	7.9 mm	27.6 mm	30400157	147
1.5 mL tube	20	11.1 mm	39.1 mm	30400159	147
2 mL tube	20	11.5 mm	38.1 mm	30400191	147



Conical-Bottom Centrifuge

Single block

Sample Type	No. of Wells	Well Diameter	Well Depth	Item No.	List Price (USD)
15 mL tube	12	17.1 mm	44.5 mm	30400172	147
50 mL tube	5	29.0 mm	47.6 mm	30400168	147



INCUBATING LIGHT DUTY ORBITAL SHAKERS MODULAR BLOCKS

Standard Test Tube Blocks

Single block

Sample Type	No. of Wells	Well Diameter	Well Depth	Item No.	List Price (USD)
6 mm tube	30	8.3 mm	48.4 mm	30400158	147
10 mm tube	24	10.7 mm	48.4 mm	30400151	147
12/13 mm tube	20	13.9 mm	48.4 mm	30400152	147



Centrifuge Tube Combination Block

Single block

These blocks have been designed for variable sized samples.

Sample Type	No. of Wells	Well Diameter	Well Depth	Item No.	List Price (USD)
Test Tube Combination					
6 mm	6	8.3 mm	48.4 mm	30400156	147
12/13 mm	5	13.8 mm	48.4 mm	30400156	147
25 mm	3	26.2 mm	48.4 mm	30400156	147
Centrifuge Tube Combination					
1.5 mL	4	11.1 mm	39.1 mm	30400193	147
15 mL	3	17.1 mm	44.5 mm	30400193	147
50 mL	2	29.0 mm	47.6 mm	30400193	147
Micro-Tube Combination					
0.5 mL	6	7.9 mm	27.6 mm	30400194	147
1.5 mL	10	11.1 mm	39.1 mm	30400194	147
2 mL	5	11.5 mm	38.1 mm	30400194	147



Vial Blocks

Single block

Designed for sample/serum and scintillation vials.

Sample Type	No. of Wells	Well Diameter	Well Depth	Item No.	List Price (USD)
12 mm vial	20	12.7 mm	30 mm	30400182	147
15 mm vial	20	15.8 mm	35 mm	30400183	147
16 mm vial	15	16.4 mm	45 mm	30400190	147
17 mm vial	12	17.8 mm	45 mm	30400184	147
19 mm vial	12	19.7 mm	45 mm	30400185	147
21 mm vial	9	21.7 mm	45 mm	30400186	147
23 mm vial	8	23.8 mm	45 mm	30400187	147
25 mm vial	8	25.8 mm	45 mm	30400188	147
28 mm vial	6	28.8 mm	45 mm	30400189	147



INCUBATING ROCKING & WAVING SHAKERS

Save Incubator Space with Unique Benchtop Incubating Rocking and Waving Shakers



Application

Cell cultures, staining and destaining gels, hybridization procedures, and blotting techniques.

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

Caution Hot Indicator: Symbol illuminates when the temperature of the air in the chamber reaches 40°C and remains lit until temperature cools down.

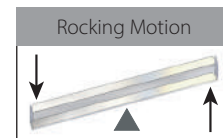
Spill-Resistant Design: Channels fluids away from internal components.

Polycarbonate Lid: Permits viewing of samples without disturbing internal temperature.



Operation

Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 80% relative humidity, non-condensing.



Electronic control allows simple tilt angle, speed and temperature adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust. Precisely adjust the tilt angle in 1° increments, vary the speed by 1 rpm and set temperature in 1°C increments with intuitive touchpad controls.

Innovative speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with unique, state-of-the-art motor and electronics.

Model	Temp. Range	Temp. Uniformity	Speed Range	Speed Accuracy	Tilt Angle	Timer	Maximum Weight Capacity	Tray Dimensions (L x W)	Interior Dimensions (L x W x H)	Item No.	List Price (USD)
ISRK04HDG	Ambient +5°C to 65°C	± 0.5°C at 37°C	1 to 50 rpm *	± 1 rpm	0 to 15° *	1 second to 160 hours	10 lbs (4.5 kg) **	10 x 7.5" (25.4 x 19.1 cm)	10.75 x 7.75 x 3.8" (27.3 x 19.7 x 9.7 cm)	30391980	3150

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

Design Features

Microprocessor Control: The microprocessor control provides electronic tilt angle adjustment which allows user to easily adjust rocking angle from 0 to 15° while unit is operating. Precise speed control provides smooth, low-speed rocking motion down to 1 rpm.

PID Temperature Controller: Maintains precise temperature control from ambient +5°C to 65°C. Easy-to-use controls allow users to adjust temperature in 1°C increments.

LED Display: Touchpad controls with easy-to-read, independent LED displays for temperature, speed and tilt angle, and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

INCUBATING ROCKING & WAVING SHAKERS

Save Incubator Space with Unique Benchtop Incubating Rocking and Waving Shakers



Application

Cell cultures, hybridization procedures, and blotting techniques.

Safety Features

Overload Protection: Audible and visual signals will activate when system detects an obstruction or overload of the tray.

Speed Ramping Feature: Slowly increases speed to desired set-point to avoid splashing.

Audible Alarm: In timed mode, alarm will sound when the time reaches zero.

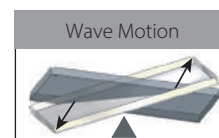
Caution Hot Indicator: Symbol illuminates when the temperature of the air in the chamber reaches 40°C and remains lit until temperature cools down.

Spill-Resistant Design: Channels fluids away from internal components.

Polycarbonate Lid: Permits viewing of samples without disturbing internal temperature.

Operation

Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 80% relative humidity, non-condensing.



Electronic control allows simple tilt angle, speed and temperature adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust. Precisely adjust the tilt angle in 1° increments, vary the speed by 1 rpm and set temperature in 1°C increments with intuitive touchpad controls.

Innovative speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with unique, state-of-the-art motor and electronics.

Model	Temp. Range	Temp. Uniformity	Speed Range	Speed Accuracy	Tilt Angle	Timer	Maximum Weight Capacity	Tray Dimensions (L x W)	Interior Dimensions (L x W x H)	Item No.	List Price (USD)
ISWV02HDG	Ambient +5°C to 65°C	± 0.5°C at 37°C	1 to 30 rpm *	± 1 rpm	0 to 20° *	1 second to 160 hours	5 lbs (2.3 kg) **	9.25 x 7.25" (23.5 x 18.4 cm)	10.75 x 7.75 x 3.4" (27.3 x 19.7 x 8.6 cm)	30391987	3080

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

Design Features

Microprocessor Control: The microprocessor control provides electronic tilt angle adjustment which allows user to easily adjust waving angle from 0 to 20° while unit is operating. Precise speed control provides smooth, low-speed waving motion down to 1 rpm.

PID Temperature Controller: Maintains precise temperature control from ambient +5°C to 65°C.

Easy-to-use controls allow users to adjust temperature in 1°C increments.

LED Display: Touchpad controls with easy-to-read, independent LED displays for temperature, speed and tilt angle, and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

INCUBATING HEAVY DUTY ORBITAL SHAKERS

Save Incubator Space with Benchtop Incubating and Incubating Refrigerating Shakers

Applications

Cell Cultures, Solubility Studies, Bacterial Suspensions, Extraction Procedures

Display

Independent LED displays for temperature, speed and time

Communication

RS-232 Interface

Construction

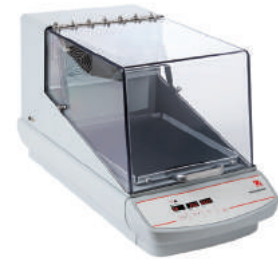
Aluminum and Cycology

Design Features

Temperature calibration feature, overload protection, overshoot protection (temperature), load sensor, PID temperature controller, Triple Eccentric Drive system

Operation

59°F – 90°F, 80% Relative Humidity, non-condensing



The exclusive Opti-Flow Forced Ventilation System utilizes twin induction or a single large fan. Air is deflected around & not directly on samples, creating a circular flow of air ensuring uniformity.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The Triple Eccentric Drive provides consistent shaking motion throughout the entire speed range.

The chambers for the ISHD23HDG and ISHD23CDG units are large enough to hold 2 x 6 L Erlenmeyer flasks with optional clamps and platform.

Model	Motion	Speed Range	Speed Accuracy	Temperature Range	Temperature Uniformity	Timer	Item No.	List Price (USD)
ISHD16HDG	Orbital, 0.75 in / 19 mm	15 rpm to 500 rpm	Above 100 rpm - +/-1% / Under 100 rpm +/- 1rpm	Ambient +5°C to 65°C	+/- 0.5°C at 37°C	1 second to 160 hours	30573769	3,500
ISHD23HDG	Orbital, 1 in / 25 mm	15 rpm to 500 rpm	Above 100 rpm - +/-1% / Under 100 rpm +/- 1rpm	Ambient +5°C to 65°C	+/- 0.5°C at 37°C	1 second to 160 hours	30573774	6,500
ISHD23CDG	Orbital, 1 in / 25 mm	15 rpm to 500 rpm	Above 100 rpm - +/-1% / Under 100 rpm +/- 1rpm	15°C below ambient to 65°C	+/- 0.5°C at 37°C	1 second to 160 hours	30573779	8,900

Model	Max Weight Capacity	Drive System	Dimensions (H x L x W)	Interior Dimensions (H x L x W)	Tray Dimensions (L x W)	Net Weight	Power Consumption
ISHD16HDG	35 lb (16 kg) @ 75rpm, 5 lb (2.3 kg) @ 500 rpm	Triple Eccentric; Brushless DC motor	16 x 25.5 x 14 in 40.6 x 64.8 x 35.6 cm	9.5 x 13.4 x 12 in 24.1 x 34 x 30.5 cm	13 x 11 in 33 x 27.9 cm	79.1 lb / 35.9 kg	450 W
ISHD23HDG	50 lb (22.7kg) @ 125 rpm, 10 lb (4.53kg) @ 500 rpm	Triple Eccentric; Brushless DC motor	23.5 x 32.1 x 26.6 in 59.6 x 81.5 x 67.5 cm	17 x 20.6 x 24.8 in 43.2 x 52.3 x 62.9 cm	18 x 18 in 45.6 x 45.7 cm	224.1 lb / 101.6 kg	800 W
ISHD23CDG	50 lb (22.7kg) @ 125 rpm, 10 lb (4.53kg) @ 500 rpm	Triple Eccentric; Brushless DC motor	23.5 x 41.1 x 26.6 in 59.6 x 104.4 x 67.5 cm	17 x 20.6 x 24.8 in 43.2 x 52.3 x 62.9 cm	18 x 18 in 45.6 x 45.7 cm	290.4 lb / 131.7 kg	800 W

Accessories list on next page

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

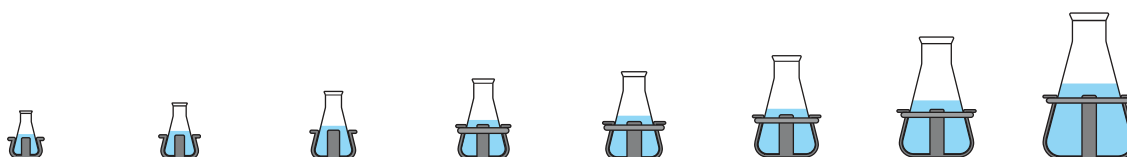
Stainless Steel Flask Clamps

Designed to hold Erlenmeyer flasks from 10 mL to 6 L. Constructed of type 302 and 304 stainless steel. Includes hardware for easy attachment to platforms. Flask clamps 50 mL and higher are supplied with a spring to hold the flask in place. The 2.8 L clamp is designed to hold a Fernbach flask. Media bottle clamps feature the same details as flask clamps.

Media Bottle Flask Clamps



Erlenmeyer Flask Clamps



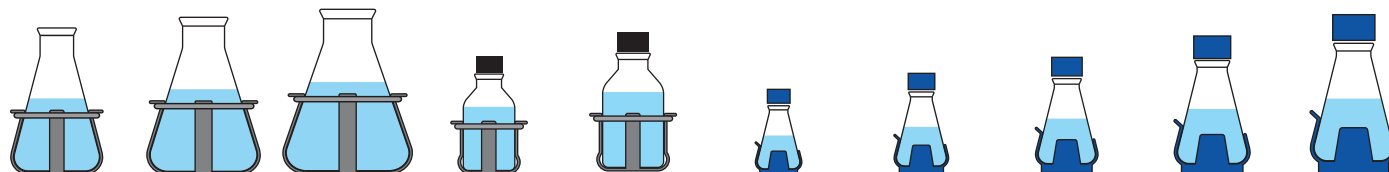
	10 mL Erlenmeyer Flask Clamp	25 mL Erlenmeyer Flask Clamp	50 mL Erlenmeyer Flask Clamp	125 mL Erlenmeyer Flask Clamp	250 mL Erlenmeyer Flask Clamp	500 mL Erlenmeyer Flask Clamp	1 L Erlenmeyer Flask Clamp	2 L Erlenmeyer Flask Clamp
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Item No.	30400084	30400085	30400086	30400087	30400088	30400089	30400090	30400091
List Price (USD)	38	38	40	40	40	43	58	91
Tray or Platform	Number of Flask Clamps per Tray or Platform							
11.75 × 8.75" (29.9 × 22.2 cm) Open Air Digital 4 kg Shakers	35	20	15	12	6	4	N/A	N/A
11 × 7.75" (27.9 × 19.7 cm) Incubating 4 kg Shakers	35	20	12	8	5	N/A	N/A	N/A
11 × 13" (27.9 × 33 cm) Analog/Digital 16 kg Shakers	60	25	13	10	9	7	4	N/A
Digital Reciprocating Shakers	60	25	13	10	9	7	4	N/A
13 × 13" (33 × 33 cm) Analog/Digital 16 kg Shakers	60	30	15	12	12	8	4	3
Digital Reciprocating Shakers	60	30	15	12	12	8	4	3
18 × 18" (45.7 × 45.7 cm) Analog/Digital 16 kg Shakers	113	64	32	20	20	13	8	5
Digital Reciprocating Shakers	113	64	32	20	20	13	8	5
18 × 24" (45.7 × 61 cm) Analog/Digital 16 kg Shakers	158	88	44	28	28	20	12	6
Digital Reciprocating Shakers	158	88	44	28	28	20	12	6
Analog/Digital 23 kg Shakers	158	88	44	28	28	20	12	6
18 × 30" (45.7 × 76.2 cm) Analog/Digital 23 kg Shakers	203	112	56	36	36	26	15	8
24 × 24" (61 × 61 cm) Digital 45 kg Shakers	221	121	61	41	41	25	16	9
24 × 36" (61 × 91.4 cm) Digital 63 kg Shakers	336	160	94	61	64	40	24	14

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

PVC Flask Clamps

Constructed of one piece, molded PVC. Autoclavable. Will not scratch or mark flask like other clamps. Includes hardware for easy attachment to universal platforms. The attachment and removal of flasks is quick and easy. Ideal for polycarbonate flasks.



2.8 L & 3 L Fernbach Flask Clamp	4 L Erlenmeyer Flask Clamp	5 L & 6 L Erlenmeyer Flask Clamp	500 mL Media Bottle Clamp	1 L Media Bottle Clamp	125 mL Erlenmeyer Flask Clamp	250 mL Erlenmeyer Flask Clamp	500 mL Erlenmeyer Flask Clamp	1 L Erlenmeyer Flask Clamp	2 L Erlenmeyer Flask Clamp
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	PVC	PVC	PVC	PVC	PVC
2.8L-30400092 3L-30400093	30400094	5 L-30400095 6 L-30400096	30400097	30400098	30400099	30400100	30400101	30400102	30400103
121 / 164	151	183 / 179	113	122	42	43	49	55	92
Number of Flask Clamps per Tray or Platform									
N/A	N/A	N/A	3	N/A	12	6	4	N/A	N/A
N/A	N/A	N/A	N/A	N/A	8	4	N/A	N/A	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
1	1	1	6	5	12	10	6	4	3
1	1	1	6	5	12	10	6	4	3
2	4	2	16	10	20	18	12	8	4
2	4	2	16	10	20	18	12	8	4
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	6	4	28	18	36	33	20	14	8
5	5	5	25	18	41	35	24	13	9
7	9	7	40	30	61	55	38	22	13

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Test Tube Racks

Half Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.

Dimensions:

5 L x 7 W x 4" H (12.7 x 17.8 x 10.2 cm) / Micro-Tube Rack: 1.7" H (4.3 cm).

Test Tube Racks
Half-Size, Stationary



	1.5 to 2 mL Micro-Tube Rack Half Size, Stationary	10 to 13 mm Test Tube Rack Half Size, Stationary	14 to 16 mm Test Tube Rack Half Size, Stationary	18 to 20 mm Test Tube Rack Half Size, Stationary	22 to 25 mm Test Tube Rack Half Size, Stationary	15 mL Centrifuge Tube Rack Half Size, Stationary	50 mL Centrifuge Tube Rack Half Size, Stationary
Tube Capacity	70	63	48	35	24	35	12
Item No.	30400114	30400115	30400116	30400117	30400118	30400119	30400120
List Price (USD)	165	182	182	182	182	189	189
Tray or Platform	Number of Test Tube Racks per Tray or Platform						
11.75 x 8.75" (29.9 x 22.2 cm) Digital Open Air 4 kg Shakers	2	2	2	2	2	2	2
11 x 7.75" (27.9 x 19.7 cm) Incubating 4 kg Shakers	2	1	1	N/A	N/A	1	1
Digital Open Air 4 kg Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
Incubating Microplate Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
11 x 13" (27.9 x 33 cm) Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
13 x 13" (33 cm x 33 cm) Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
18 x 18" (45.7 x 45.7 cm) Analog/Digital 16 kg Shaker	4	4	4	4	4	4	4
Digital Reciprocating Shakers	4	4	4	4	4	4	4
18 x 24" (45.7 x 61 cm) Analog/Digital 16 kg Shakers	6	6	6	6	6	6	6
Digital Reciprocating Shakers	6	6	6	6	6	6	6
Analog/Digital 23 kg Shakers	6	6	6	6	6	6	6
18 x 30" (45.7 x 76.2 cm) Analog/Digital 23 kg Shakers	8	8	8	8	8	8	8
24 x 24" (61 x 61 cm) Digital 45 kg Shakers	8	8	8	8	8	8	8
24 x 36" (61 x 91.4 cm) Digital 63 kg Shakers	7	7	7	7	7	7	7

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Test Tube Racks

Full Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms..

Dimensions:

3.75 L x 16.5 W x 4" H (9.5 x 41.9 x 10.2 cm)

Full Size, Pivoting

Has adjustable angle, custom tilt. Stainless steel holder includes removable plastic rack. Rack is easily removed to transport from work area to shaker.

Inside pivoting rack dimensions:

5.1 x 10.8 x 3.9" (12.9 x 27.4 x 9.9 cm)

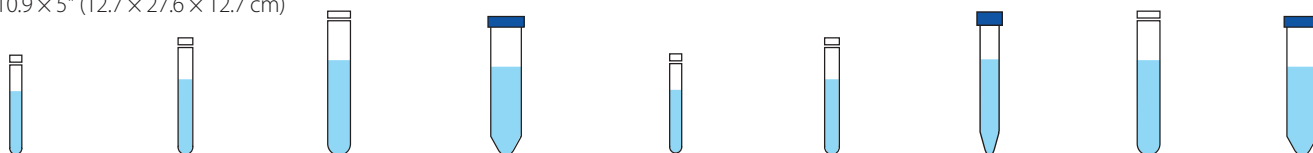
Outside stationary rack dimensions:

5.0 x 10.9 x 5" (12.7 x 27.6 x 12.7 cm)

Test Tube Racks
Full-Size, Stationary



Test Tube Racks
Full-Size, Pivoting



10 to 14 mm Test Tube Rack Full Size, Stationary	16 to 20 mm Test Tube Rack Full Size, Stationary	21 to 25 mm Test Tube Rack Full Size, Stationary	50 mL Centrifuge Tube Rack Full Size, Stationary	13 mm Test Tube Rack Full Size, Pivoting	16 mm Test Tube Rack Full Size, Pivoting	20 mm Test Tube Rack Full Size, Pivoting	25 mm Tube Rack Full Size, Pivoting	30 mm Tube Rack Full Size, Pivoting
48	33	21	17	90	60	40	24	21
30400110	30400111	30400112	30400113	30400105	30400106	30400107	30400108	30400109
359	359	359	376	320	320	320	320	320
Number of Test Tube Racks per Tray or Platform								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	2	2	2	2	2
N/A	N/A	N/A	N/A	2	2	2	2	2
N/A	N/A	N/A	N/A	2	2	2	2	2
N/A	N/A	N/A	N/A	2	2	2	2	2
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
6	6	6	6	4	4	4	4	4
7	7	7	7	4	4	4	4	4
5	5	5	5	6	6	6	6	6

INCUBATING HEAVY DUTY ORBITAL SHAKER ACCESSORIES

Save Incubator Space with Benchtop Incubating and Incubating Refrigerating Shakers

Accessories	ISHD16HDG	ISHD23HDG	ISHD23CDG	Item No.	List Price (USD)
Universal Platform 11 × 13" S/S	•			30400052	220
Universal Platform, 46 × 46 cm, S/S I-IR		•	•	30400055	368
Rubber Mat 11 × 13"	•			30400060	63
Flask Clamps, 10 mL	•	•	•	30400084	39
Flask Clamps, 25 mL	•	•	•	30400085	39
Flask Clamps, 50 mL	•	•	•	30400086	41
Flask Clamps, 125 mL	•	•	•	30400087	41
Flask Clamps, 250 mL	•	•	•	30400088	41
Flask Clamps, 500 mL	•	•	•	30400089	45
1 Liter Erlenmeyer Flask Clamp	•	•	•	30400090	60
2 Liter Erlenmeyer Flask Clamp		•	•	30400091	94
2.8 Liter Erlenmeyer Flask Clamp		•	•	30400092	125
3 Liter Erlenmeyer Flask Clamp		•	•	30400093	169
4 Liter Erlenmeyer Flask Clamp		•	•	30400094	155
5 Liter Erlenmeyer Flask Clamp		•	•	30400095	188
6 Liter Erlenmeyer Flask Clamp		•	•	30400096	184
500mL Media Bottle Clamp		•	•	30400097	116
1000mL Media Bottle Clamp		•	•	30400098	126
Flask Clamp PVC 125 mL		•	•	30400099	44
Flask Clamp PVC 250 mL		•	•	30400100	45
Flask Clamp PVC 500 mL		•	•	30400101	51
Flask Clamp PVC 1000 mL		•	•	30400102	57
Flask Clamp PVC 2000 mL		•	•	30400103	95
Clamp Microplate SS	•	•	•	30400104	64
Test Tube Rack 10-13 mm Dia	•	•	•	30400115	187
Test Tube Rack 14-16 mm Dia	•	•	•	30400116	187
Test Tube Rack 18-20 mm Dia	•	•	•	30400117	187
Test Tube Rack 22-25 mm Dia	•	•	•	30400118	187
Test Tube Rack For 15 mL Tubes	•	•	•	30400119	194
Test Tube Rack For 50 mL Tubes	•	•	•	30400120	194
Test Tube Rack 13 mm Pivoting	•	•	•	30400105	328
Test Tube Rack 16 mm Pivoting	•	•	•	30400106	328
Test Tube Rack 20 mm Pivoting	•	•	•	30400107	328
Test Tube Rack 25 mm Pivoting	•	•	•	30400108	328
Test Tube Rack 30 mm Pivoting	•	•	•	30400109	328
Test Tube Rack 10-14 mm Stationary		•	•	30400110	368
Test Tube Rack 16-20 mm Stationary		•	•	30400111	368
Test Tube Rack 21-25 mm Stationary		•	•	30400112	368
Test Tube Rack 50 mL Tubes Stationary		•	•	30400113	386

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Universal Platforms

Allows for mounting of flask clamps, test tube racks, and bottle clamps. Platform slides over top of included tray and is tightened with adjustment screws. Optional accessories screw directly into mounting point openings. The two-tier braces allow stacking of platforms with a 10" clearance (available for select sizes). An optional non-skid rubber mat can be placed on the platform for an added non-slip surface. The platform is constructed of type 304 stainless steel.



Description	Used on Shakers	Item No.	List Price (USD)
11 × 13" (27.9 × 33 cm) Universal Platform	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400052	220
13 × 13" (33 × 33 cm) Universal Platform	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400053	313
18 × 18" (45.7 × 45.7 cm) Universal Platform*	Analog/Digital 16 kg Shakers and Reciprocating Shakers**	30400054	375
18 × 18" (45.7 × 45.7 cm) Universal Platform	Digital 23 kg Heavy Duty Incubating Shakers	30400055	368
18 × 24" (45.7 × 61 cm) Universal Platform*	Analog/Digital 16 kg & 23 kg Shakers and Reciprocating Shakers**	30400056	422
24 × 24" (61 × 61 cm) Universal Platform	Digital 45 kg Shakers	30400057	1000
18 × 30" (45.7 × 76.2 cm) Universal Platform*	Analog/Digital 23 kg Shakers	30400058	960
24 × 36" (61 × 91.4 cm) Universal Platform	Digital 68 kg Shakers	30400059	1280
Two-Tier Braces (set of 4)	Analog/Digital 16 kg & 23 kg Shakers	30400051	119

Rubber Mats

Description	Used on Shakers	Item No.	List Price (USD)
11 × 13" (27.9 × 33 cm) Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400060	63
13 × 13" (33 × 33 cm) Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400061	76
18 × 18" (45.7 × 45.7 cm) Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400062	109
18 × 24" (45.7 × 61 cm) Rubber Mat	Analog/Digital 16 kg Shakers, Reciprocating Shakers and Analog Digital 23kg Shakers	30400063	120
24 × 24" (61 × 61 cm) Rubber Mat	Digital 45 kg Shakers	30400064	142
24 × 36" (61 × 91.4 cm) Rubber Mat	Digital 68 kg Shakers	30400065	157

Culture Platforms

Ideal for slow speed applications; Petri dishes, culture flasks, and other flat bottom, low profile vessels. The two-tier braces (available for both sizes) allow stacking of platforms with a 10" clearance. The platform is constructed of type 304 stainless steel. The platform has a non-skid rubber surface.



Description	Used on Shakers	Item No.	List Price (USD)
18 × 18" (45.7 × 45.7 cm) Culture Platform*	Analog/ Digital 16 kg Shakers* and Reciprocating Shakers**	30400066	374
18 × 24" (45.7 × 61 cm) Culture Platform*	Analog/ Digital 16 kg* & 23 kg Shakers and Reciprocating Shakers**	30400067	390
Two-Tier Braces (set of 4)	Analog/ Digital 16 kg & 23 kg shakers	30400051	119

*Two-tier ready

**Stacking of platforms is not recommended for Reciprocating Shaker

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Large Vessel Carrier Platforms

Ideal for large sample containers like carboys, jugs and bottles. The platform's high side walls secure samples, has a heavy-duty design and is constructed of stainless steel. The base tray has a non-skid rubber surface.

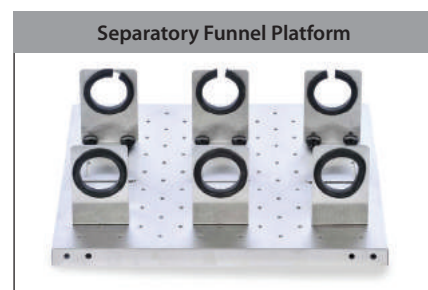


Description	Bar Size	Overall Dimensions (L x W x H)	Used on Shakers	Item No.	List Price (USD)
4-bar Large Vessel Carrier Platform	18" (45.7 cm)	30.1 x 18.1 x 13.9" (76.4 x 45.9 x 35.3 cm)	Analog/Digital 23 kg Shakers	30400070	1360
4-bar Large Vessel Carrier Platform	24" (61 cm)	24.4 x 24.3 x 14.2" (61.9 x 61.7 x 36.0 cm)	Digital 45 kg Shakers	30400071	1425
5-bar Large Vessel Carrier Platform	24" (61 cm)	36.9 x 24.3 x 14.2" (93.7 x 61.7 x 36.0 cm)	Digital 68 kg Shakers	30400072	1825

Replacement Part	Used with Carrier	Item No.	List Price (USD)
18" (45.7 cm) Adjustable Bar (with Mounting Hardware)	30400070	30400073	65
24" (61 cm) Adjustable Bar (with Mounting Hardware)	30400071 & 30400072	30400074	81

Separatory Funnel Platform

Holds 3 funnels at once on an 18 x 18" (45.7 x 45.7 cm) platform. Platform can accommodate 500 mL to 2 L separatory funnels and is constructed of stainless steel. Includes platform, clamps and hardware to secure 3 funnels.



Description	Used on Shakers	Item No.	List Price (USD)
Separatory Funnel Platform 46 x 46 cm	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400083	630

Microplate Clamp

Can hold one standard microplate or deep-well plate. Constructed of type 304 stainless steel.

Platform Capacities for Microplate Clamps

Platform Size	Microplate Clamps	Platform Item No.	List Price (USD)
11 x 13	4	30400052	220
13 x 13	6	30400053	313
18 x 18	12	30400054	375
18 x 24	18	30400056	422
18 x 30	21	30400057	1000
24 x 24	24	30400058	960
24 x 36	36	30400059	1280



Description	Used on Shakers	Item No.	List Price (USD)
Microplate Clamp	Analog/Digital 16 kg, 23 kg, 45 kg, & 68 kg Shakers	30400104	64

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Dedicated Platforms

Pre-mounted flask clamps for maximum utilization of platform space for flasks of all one size. The two-tier braces allow stacking of platforms with a clearance (available for select sizes). Platform is constructed of type 304 stainless steel. Flask clamps are constructed of PVC. Ideal for polycarbonate flasks.



Description	Flask Capacity	Used on Shakers	Item No.	List Price (USD)
13 × 13" (33 × 33 cm) Dedicated Platform / 125 mL Flask Clamp	16	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400075	590
13 × 13" (33 × 33 cm) Dedicated Platform / 250 mL Flask Clamp	12	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400076	590
13 × 13" (33 × 33 cm) Dedicated Platform / 500 mL Flask Clamp	8	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400077	590
13 × 13" (33 × 33 cm) Dedicated Platform / 1 L Flask Clamp	4	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400078	590
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 125 mL Flask Clamp*	27	Analog/Digital 16 kg Shakers and Reciprocating Shakers**	30400079	650
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 250 mL Flask Clamp*	20	Analog/Digital 16 kg Shakers and Reciprocating Shakers**	30400080	650
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 500 mL Flask Clamp*	13	Analog/Digital 16 kg Shakers and Reciprocating Shakers**	30400081	650
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 1 L Flask Clamp	9	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400082	650
Two-Tier Braces (set of 4)		Analog/Digital 16 kg Shakers	30400051	119

Adjustable Platforms

Adjustable clamping bars accommodate various vessel types. Constructed of stainless steel. The base tray has a non-skid rubber surface.

Upper slot distance – 4.5" from platform

Lower slot distance – 2 ¼" from platform



Description	Bar Size	Overall Dimensions	Used on Shakers	Item No.	List Price (USD)
2-bar Adjustable Platform	8.6" (21.8 cm)	8.6 × 11.7" (21.8 × 29.7 cm)	Digital 4 kg Shakers	30400121	535
4-bar Adjustable Platform	18" (45.7 cm)	18 × 18" (45.7 × 45.7 cm)	Analog/Digital 16 kg Shakers	30400068	570
4-bar Adjustable Platform	18" (45.7 cm)	18 × 24" (45.7 × 61 cm)	Analog/Digital 23 kg Shakers	30400069	815

Replacement Parts

Description	Used with Platforms	Item No.	List Price (USD)
8.6" (21.8 cm) Adjustable Bar (with Mounting Hardware)	30400121	30400122	49
18" (45.7 cm) Adjustable Bar (with Mounting Hardware)	30400068 & 3040069	30400073	65

*Two-tier ready

**Stacking of platforms is not recommended for Reciprocating Shaker

OPEN AIR, INCUBATING, INCUBATING COOLING SHAKERS ACCESSORIES

Universal Harness

Attaches to tray to secure low-profile plates.

Description	Used on Shakers	Item No.	List Price (USD)
Universal Harness	Digital 4 kg Open Air Orbital Shakers	30400123	44

Universal Harness



Dimpled Mat

Designed to hold centrifuge tubes, vials, culture tubes, and micro-tubes securely in place. Mat can easily be removed for cleaning and transporting of tubes from bench to tray.

Description	Used on Shakers	Item No.	List Price (USD)
Dimpled Mat, 12.75 × 10" (32.4 × 25.4 cm)	Digital Rocking Shaker	30400140	59
Dimpled Mat, 11.75 × 8.75" (29.9 × 22.2 cm)	Digital Waving Shaker	30400142	59
Dimpled Mat, 10 × 7.5" (25.4 × 19.1 cm)	Incubating Rocking Shaker	30400141	59
Dimpled Mat, 9.25 × 7.25" (23.5 × 18.4 cm)	Incubating Waving Shaker	30400143	59
Dimpled Mat, 11.75 × 8.75" (29.9 × 22.2 cm)	Open Air 4 kg Orbital Shaker	30400124	56
Dimpled Mat, 14 × 11" (35.6 × 27.9 cm)	Analog Rocking & Waving Shaker	30400144	68

Dimpled Mat



Stacking Tray

Easily attaches to the units' included tray to add a second tier for higher capacity applications. Second tier tray mounts 3.5" (8.9 cm) above lower tray. The tray includes hardware and a rubber mat.

Description	Used on Shakers	Item No.	List Price (USD)
Stacking Tray, 12.75 × 10" (32.4 × 25.4 cm)	Digital Rocking Shaker	30400137	141
Stacking Tray, 11.75 × 8.75" (29.9 × 22.2 cm)	Digital Waving Shaker	30400138	172
Stacking Tray, 14 × 11" (35.6 × 27.9 cm)	Analog Rocking Shaker	30400139	125

Stacking Tray



Dilution Cup Tray

Constructed of type 304 stainless steel. Holds 24 × 28 mm dilution vials.

Description	Used on Unit	Item No.	List Price (USD)
1.5 to 2 mL Micro-Tube Rack	Digital 4 kg Open Air Orbital Shakers	30400125	240

Dilution Cup Tray



Micro-Tube Rack

Optional 1.5 to 2 mL Micro-Tube Rack attaches to tray to hold up to 70 × 1.5 mL or 2 mL micro-tubes. Tray can accommodate up to 2 micro-tube racks.

Description	Used on Unit	Item No.	List Price (USD)
Stacking Tray, 12.75 × 10" (32.4 × 25.4 cm)	Digital Open Air and Incubating Microplate Shaker	30400114	170

Micro-Tube Rack



MINI VORTEX MIXERS

Choose the Perfect Vortex Mixer From Four Durable Models for Everyday Mixing

Operating Conditions

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information

Units include a 3-wire cord and plug. Includes both cup head and 3" head with cover.

Pulsing Model (VXMNPS) includes easy-to-load 1.5 mL to 2 mL Micro-Tube Holder, Holder has a built-in cup head.



Fixed Speed



Digital



Pulsing



Analog

Touch mode operation activates mixing when depressing the cup head or continuous mode for use with accessory attachments. Sturdy, rugged design ensures the unit stays in place while in use.

Robust digital and non-digital Vortex Mixers offer effective speed control from low RPM start-up for gentle shaking to high-speed mixing for vigorous vortexing of samples.

The Fixed Speed Vortex Mixer is an economical choice for vigorous mixing of samples at high speed. To ease repetitive sample processing, this unit provides simple, effective full-speed mixing.

Model	Type	Speed Range* 120V	Timer	Orbit	Controls	Duty Rating	Item No.	List Price (USD)
VXMNFS	Fixed Speed	3200 rpm	—	4.9 mm (0.19")	None	Intermittent duty	30392108	280
VXMNAL	Analog	300 to 3200 rpm	—	4.9 mm (0.19")	Auto/Off/On Rocker Switch, Speed Knob: Variable 1 to 10 Dial Marks	Intermittent duty	30392115	319
VXMNDG	Digital	500 to 3000 rpm	1 second to 160 hours	4.9 mm (0.19")	Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control	Intermittent duty	30392122	409
VXMNPS	Pulsing	500 to 3000 rpm	1 second to 160 hours	2.5 mm (0.098")	Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control Pulse Button	Intermittent duty	30392129	498

* Maximum speed will vary depending on accessory used.

MINI VORTEX MIXER ACCESSORIES

Micro-Tube Holder

Mixes (48) 0.25 to 2 mL micro-tubes.
Requires Insert Retainer.

Description	Item No.	List Price (USD)
Micro-Tube Holder (2 pack)	30400232	73
Insert Retainer	30400227	142

9 to 13 mm Tube Holder

Ideal for mixing 5 mL culture tubes and micro-vials.
Requires Insert Retainer.

Description	Item No.	List Price (USD)
9 to 13 mm Tube Holder (2 pack)	30400229	35
Insert Retainer	30400227	142

14 to 19 mm Tube Holder

Ideal for mixing up to (8) 15 mL centrifuge tubes.
Requires Insert Retainer.

Description	Item No.	List Price (USD)
14 to 19 mm Tube Holder (2 pack)	30400230	35
Insert Retainer	30400227	142

20 to 25 mm Tube Holder

Ideal for mixing up to (8) 50 mL centrifuge tubes.
Requires Insert Retainer

Description	Item No.	List Price (USD)
20 to 25 mm Tube Holder (2 pack)	30400231	35
Insert Retainer	30400227	142

Vessel Harness

Mixes Erlenmeyer flasks and media bottles.
Requires Insert Retainer.

Description	Item No.	List Price (USD)
Vessel Harness (2 pack)	30400228	12
Insert Retainer	30400227	142

Cup Head

Designed for mixing 1 tube at a time.

Description	Item No.	List Price (USD)
Cup Head	30400235	43

3" Rubber Head Cover and 3" Head

Designed for mixing irregular shaped objects.

Description	Item No.	List Price (USD)
3" (7.6 cm) Rubber Head Cover	30400196	59
3" (7.6 cm) Head	30400236	43
3" (7.6 cm) Head with Rubber Cover	30400237	43

Microplate Holder

Ideal for mixing 96-well plates or deep well blocks.
Requires Insert Retainer.

Description	Item No.	List Price (USD)
Microplate Holder (2 pack)	30400233	73
Insert Retainer	30400227	142

Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications. Requires Insert Retainer.

Description	Item No.	List Price (USD)
Flat Foam Insert (2 pack)	30400234	33
Insert Retainer	30400227	142

Microwell Kit with Retainer

Includes:
• 2 Microplate Holders
• 1 Insert Retainer

Description	Item No.	List Price (USD)
Microwell Kit with Retainer	30400199	126

Microtube Kit with /Retainer

Includes:
• 2 Micro-Tube Holders
• 1 Insert Retainer

Description	Item No.	List Price (USD)
Microtube Kit with /Retainer	30400200	126

Foam Insert Variety Pack

Includes:
• (1) 9 to 13 mm Tube Holder
• (1) 14 to 19 mm Tube Holder
• (1) 20 to 25 mm Tube Holder
• 1 Flat Foam Insert

Description	Item No.	List Price (USD)
Foam Insert Variety Pack	30400201	64

Micro-Tube and Microplate Holder Kit

Includes:
• 1 Micro-Tube Holder
• 1 Microplate Holder
• 1 Insert Retainer

Description	Item No.	List Price (USD)
Micro-Tube & Microplate Holder Kit	30400198	126

Tube Holder Kit

Includes:
• (1) 9 to 13 mm Tube Holder
• (1) 14 to 19 mm Tube Holder
• (1) 20 to 25 mm Tube Holder
• 1 Flat Foam Insert
• 2 Vessel Harnesses
• 1 Insert Retainer

Description	Item No.	List Price (USD)
Tube Holder Kit	30400197	215

OHAUS Vortex Mixer accessories are interchangeable with other manufacturers' models. Call 1-800-672-7722 for assistance.

MINI VORTEX MIXER ACCESSORIES

Single Tube Holder

Single tube, hands free mixing. Easily attaches to the top of any Vortex Mixer with the use of a strong magnetic base. Accepts tubes from 2.5 to 4.5" (6.4 to 11.4 cm) in length. Minimum tube diameter of 0.75" (19 mm).

Description	Item No.	List Price (USD)
Single Tube Holder	30400202	184

Single Tube Holder Accessories

(requires Single Tube Holder)

0.5 mL Micro-Tube Holder

Mixes (24) 0.5 mL micro-tubes.
For use with Single Tube Holder.

Description	Item No.	List Price (USD)
Micro-Tube Holder (0.5 mL)	30400204	80

Ampule Tube Holder

Mixes up to 4 storage vials and test tubes.

Description	Item No.	List Price (USD)
15 to 17 mm Ampule Tube Holder	30400207	136
10 to 17 mm Ampule Tube Holder	30400208	191

Stainless Steel Microtube Holder

Mixes up to (12) 1.5 to 5 mL tubes.
Stainless steel construction.

Description	Item No.	List Price (USD)
Microtube Holdp0er	30400206	292

Adapter for Vortex-Genie® Mixer*

Adapter plate easily adheres to the Vortex-Genie® Mixer housing so Single Tube Holder (sold separately) can be attached.

Description	Item No.	List Price (USD)
Adapter plate	30400203	94

* The Vortex-Genie® Mixer is a registered trademark of Scientific Industries, Inc.

1.5 mL to 2.0 mL Micro-Tube Holder

Mixes (18) 1.5 to 2 mL micro-tubes.
For use with Single Tube Holder.

Description	Item No.	List Price (USD)
Microtube Holder (1.5 mL to 2.0 mL)	30400205	80

HEAVY-DUTY VORTEX MIXERS

Increase Productivity with Continuous-Duty Vortexing of Multiple Samples



Operating Features

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Operating Conditions

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information

Mixer includes a cup head, universal holder with cover, foam microtube insert for (38) 1.5 to 2.0 mL microtubes, and a detachable, 3-wire cord and specified plug.



Safe to mix at high speeds—the unique locking design of the mixer accessories allows the mixer to safely operate throughout the entire speed range.

For the most demanding applications, these mixers utilize a high quality German-manufactured motor, allowing for continuous duty operation and increased load capacities up to 1.1 kg.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of difficult samples.

Model	Speed Range	Timer	Orbit	Controls	Capacity	Duty Rating	Dimensions (L x W x H)	Item No.	List Price (USD)
VXHDDG	On Mode 300 to 2500 rpm Touch Mode 300 to 3500 rpm	1 second to 160 hours	4.9 mm (0.19")	Touch/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control	2.5 lbs (1.1 kg)	Continuous duty	9.5 x 6.6 x 6.1" (24.1 x 16.8 x 16.5 cm)	30392146	1180
VXHDAL	On Mode 300 to 2500 rpm Touch Mode 300 to 3500 rpm	—	4.9 mm (0.19")	Analog	2.5 lbs (1.1 kg)	Continuous duty	9.5 x 6.6 x 6.1" (24.1 x 16.8 x 16.5 cm)	30392148	1015

MICROPLATE VORTEX MIXERS

The Ideal Solution for Dependable Vortex Mixing of Microplates



Operating Features

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Operating Conditions

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information

Mixer includes a cup head, single microplate holder, and a detachable, 3-wire cord and specified plug. Accessories that can be used on the Microplate Vortex Mixer are cup head, single microplate holder and double microplate holder.



Safe to mix at high speeds—the innovative locking design of the microplate accessories allows these mixers to safely operate throughout the entire speed range.

These mixers utilize a high quality German-manufactured motor allowing for reliable, continuous-duty operation at any speed.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of samples.

Model	Speed Range	Timer	Orbit	Controls	Capacity	Duty Rating	Dimensions (L x W x H)	Item No.	List Price (USD)
VXMPDG	On Mode 300 to 2500 rpm / Touch Mode 300 to 3500 rpm	1 second to 160 hours	3.5 mm (0.13")	Touch/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control	2 microplates	Continuous duty	10.5 x 5.4 x 4.5" (26.7 x 13.7 x 11.4 cm)	30392160	550
VXMPAL	On Mode 300 to 2500 rpm Touch Mode 300 to 3500 rpm	—	3.5 mm (0.13")	Analog	2 microplates	Continuous duty	10.5 x 5.4 x 4.5" (26.7 x 13.7 x 11.4 cm)	30392162	473

HEAVY DUTY AND MICROPLATE VORTEX MIXER ACCESSORIES

Foam Insert for 0.5 mL Microtubes

Foam insert holds (52) 0.5 mL microtubes.
Requires Universal Holder.

Description	Item No.	List Price (USD)
0.5 mL microtubes	30400216	44
Universal Holder	30400226	65

Foam Insert for 1.5 to 2.0 mL

Microtubes

Foam insert holds (38) 1.5 to 2.0 mL microtubes.
Requires Universal Holder.

Description	Item No.	List Price (USD)
1.5 to 2.0 mL microtubes	30400217	44
Universal Holder	30400226	65

Foam Insert for 12-13 mm Test Tubes

Foam insert holds (34) 12-13 mm diameter test tubes.
Requires Universal Holder.

Description	Item No.	List Price (USD)
12-13 mm test tubes	30400220	44
Universal Holder	30400226	65

Foam Insert for 15-18 mm Test Tubes

Foam insert holds (20) 15-18 mm diameter test tubes.
Ideal for 15 mL centrifuge tubes.
Requires Universal Holder.

Description	Item No.	List Price (USD)
15-18 mm test tubes	30400221	44
Universal Holder	30400226	65

Foam Insert for 19-21 mm Test Tubes

Foam insert holds (18) 19-21 mm diameter test tubes.
Requires Universal Holder.

Description	Item No.	List Price (USD)
19-21 mm test tubes	30400222	44
Universal Holder	30400226	65

Foam Insert for 22-25 mm Test Tubes

Foam insert holds (13) 22-25 mm diameter test tubes.
Requires Universal Holder.

Description	Item No.	List Price (USD)
22-25 mm test tubes	30400223	44
Universal Holder	30400226	65

Foam Insert for 26-29 mm Test Tubes

Foam insert holds (4) 26-29 mm diameter test tubes. Ideal for 50 mL centrifuge tubes. Requires Universal Holder.

Description	Item No.	List Price (USD)
26-29 mm test tubes	30400224	44
Universal Holder	30400226	65

Cup Head*

Designed for mixing 1 tube at a time.

Description	Item No.	List Price (USD)
Cup Head	30400210	43

Small Vessel Holder

Rubber holder secures 125 and 250 mL Erlenmeyer flasks.
Vessel holder also includes a grip mat.
Requires Universal Holder.

Description	Item No.	List Price (USD)
Small Vessel Holder	30400218	53
Universal Holder	30400226	65

Large Vessel Holder

Rubber holder secures 500 and 1000 mL Erlenmeyer flasks.
Vessel holder also includes a grip mat.
Requires Universal Holder.

Description	Item No.	List Price (USD)
Large Vessel Holder	30400211	53
Universal Holder	30400226	65

Microplate Holder (Single)*

Designed to hold one standard microplate.

Description	Item No.	List Price (USD)
Single Holder	30400215	63

Microplate Holder (Double)*

Designed to hold two standard microplates.

Description	Item No.	List Price (USD)
Double Holder	30400213	71

Microplate Holder (Quad)

Designed to hold four standard microplates.

Description	Item No.	List Price (USD)
Quad Holder	30400214	143

Stackable Microplate Holder Four

Designed to maximize the capacity of the Heavy-Duty Vortex Mixer to eight microplates by stacking the tray on top of the four plate holder.

Description	Item No.	List Price (USD)
Stackable Holder	30400212	134

Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications. Requires Universal Holder.

Description	Item No.	List Price (USD)
Flat Foam Insert	30400209	44
Universal Holder	30400226	65

Universal Holder & Cover

Replacement for items supplied with Heavy-Duty Vortex Mixer. Cover allows for mixing irregularly shaped objects.

Description	Item No.	List Price (USD)
Universal Holder	30400226	65
Universal Holder Cover	30400225	23

Unless noted with an asterisk (), for use on Heavy-Duty Vortex only.

MULTI-TUBE VORTEX MIXERS

Powerful Hands-Free Vortex Mixer for Efficient High-Throughput Mixing



Operating Features

One piece, stainless steel housing design optimizes clean-ups. Ideal for applications requiring accuracy and repeatability. The stainless steel one piece housing design is conducive to keeping your vortexer clean and free from contaminants.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

Adjustment Knobs: Basic speed and time knobs with 1 to 10 dial markings.

Operating Conditions

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Applications

Suspensions, high throughput testing in clinical, environmental, and chemistry labs.

Ordering Information

Unit includes a detachable, 3-wire cord and plug. Unit is also supplied with a Tray Pad Set for support and one 12 mm Test Tube Foam Rack (30400239).



Easily process up to 50 samples at one time—the Multi-Tube Vortex Mixer can be customized for your application with six different tube racks and a post-extension kit.

The Multi-Tube Vortex Mixers feature an easy to clean one-piece stainless steel housing that is perfect to use in all environments—especially clean rooms.

For challenging samples, enhance vortex action & create a more vigorous mix with the programmable pulse mode on the digital models. Adjust the pulse-on/pulse-off time interval to customize operation.

Model	Speed Range*	Timer	Orbit	Max. Weight Capacity	Duty Rating	Tray Dimensions (L x W)	Item No.	List Price (USD)
VXMTAL	1200 to 2400 rpm	0 to 60 seconds	3.6 mm (0.14")	10 lbs (4.5 kg)	Continuous duty	7.25 x 12.25" (18.4 x 31.1 cm)	30392164	2900
VXMTALB**	1200 to 2400 rpm	0 to 60 seconds	3.6 mm (0.14")	10 lbs (4.5 kg)	Continuous duty	7.25 x 12.25" (18.4 x 31.1 cm)	30573831	2,465

* Maximum speed will vary depending on load.

** Painted Steel / Two-Piece Housing

MULTI-TUBE VORTEX MIXERS

Powerful Hands-Free Vortex Mixer for Efficient High-Throughput Mixing

Operating Features

One piece, stainless steel housing design optimizes clean-ups. Ideal for applications requiring accuracy and repeatability. The stainless steel one piece housing design is conducive to keeping your vortexer clean and free from contaminants.

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touchpad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Pulsing Mode: Programmable pulsing mode allows user to adjust the pulse-on and pulse-off times between 1 and 59 seconds in 1 second intervals. This feature enhances the vortex action by creating a more vigorous mix.

Operating Conditions

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Application:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs.

Ordering Information

Unit includes a detachable, 3-wire cord and plug. Unit is also supplied with a Tray Pad Set for support and one 12 mm Test Tube Foam Rack (30400239).



Easily process up to 50 samples at one time—the Multi-Tube Vortex Mixer can be customized for your application with six different tube racks and a post-extension kit.

The Multi-Tube Vortex Mixers feature an easy to clean one-piece stainless steel housing that is perfect to use in all environments—especially clean rooms.

For challenging samples, enhance vortex action & create a more vigorous mix with the programmable pulse mode on the digital models. Adjust the pulse-on/pulse-off time interval to customize operation.

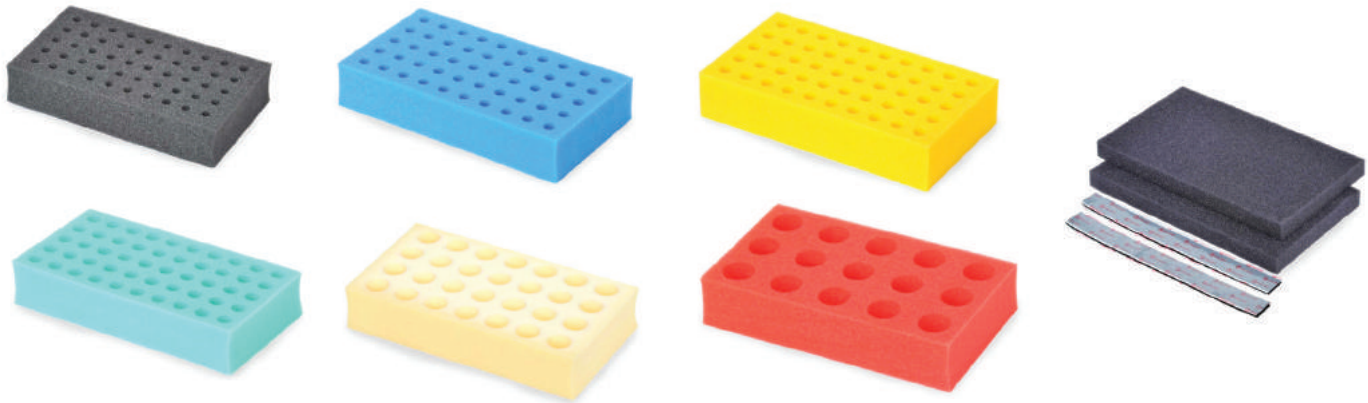
Model	Speed Range*	Speed Accuracy	Timer	Orbit	Max. Weight Capacity	Duty Rating	Tray Dimensions (L x W)	Item No.	List Price (USD)
VXMTDG	500 to 2500 rpm	± 25 rpm	1 second to 160 hours	3.6 mm (0.14")	10 lbs (4.5 kg)	Continuous duty	7.25 × 12.25" (18.4 × 31.1 cm)	30392171	3400
VXMTDGB*	500 to 2500 rpm	± 25 rpm	1 second to 160 hours	3.6 mm (0.14")	10 lbs (4.5 kg)	Continuous duty	7.25 × 12.25" (18.4 × 31.1 cm)	30573836	2,890

* Maximum speed will vary depending on load.

** Painted Steel / Two-Piece Housing

MULTI-TUBE VORTEXER ACCESSORIES

Foam Test Tube Racks



Description	Tube Capacity	Color	Dimensions (L × W × H)	Item No.	List Price (USD)
10 mm Test Tube Foam Rack	50	Gray	5.5 × 9.5 × 2" (14 × 24.1 × 5.1 cm)	30400238	39
12 mm Test Tube Foam Rack	50	Blue	5.5 × 9.5 × 2" (14 × 24.1 × 5.1 cm)	30400239	38
13 mm Test Tube Foam Rack	50	Yellow	5.5 × 9.5 × 2" (14 × 24.1 × 5.1 cm)	30400240	38
16 mm Test Tube Foam Rack (for 15 mL centrifuge tubes)	50	Green	5.5 × 9.5 × 2" (14 × 24.1 × 5.1 cm)	30400241	50
25 mm Test Tube Foam Rack	28	White	5.5 × 9.5 × 2" (14 × 24.1 × 5.1 cm)	30400243	50
29 mm Test Tube Foam Rack (for 50 mL centrifuge tubes)	15	Red	5.5 × 9.5 × 2" (14 × 24.1 × 5.1 cm)	30400242	50
Replacement Tray Pad Set (upper & lower)	N/A	Gray	7 × 12 × 1" (17.8 × 30.5 × 2.5 cm)	30400245	56

Post Extension Kit

Adds 6" (15.2 cm) to the post of the Multi-Tube Vortex Mixer to accommodate tubes up to 10" (25.4 cm) tall.



Description	Item No.	List Price (USD)
Post Extension Kit	30400244	195

DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application



Applications

Denaturing proteins, DNA applications, ELISA and other immunoassay studies.

Operating Features

Microprocessor Control: PID temperature control, with optional external RTD probe, offers a temperature stability as low as $\pm 0.1^{\circ}\text{C}$ with a temperature uniformity as low as $\pm 0.1^{\circ}\text{C}$. Samples are heated to temperature quickly and accurately. Temperature is adjusted in $\pm 0.1^{\circ}\text{C}$ increments.

LED Display: Touchpad controls with easy-to-read, independent LED displays for temperature, and time.

Provides repeatable and accurate results every time and is easily visible across lab benches. Shows set-point and actual temperature. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Temperature Calibration Mode: Allows user to calibrate unit to an external temperature device.



Safety Features

Caution Hot Indicator: Hot warning symbol light is illuminated when the temperature is above 40°C .

Overshoot Protection: If the unit exceeds the set temperature by 10°C the unit will automatically stop heating.

Audible Alarm: In timed mode, alarm will sound when time reaches zero and when unit reaches set-point temperature.

CAUTION! To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.

Operating Conditions

Units can be run in conditions from 18 to 33°C (64 to 91°F), 20% to 80% relative humidity, non-condensing.

Designed for reliable everyday use in the lab. Digital and non-digital block heaters offer exceptional temperature uniformity with outstanding temperature stability.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Size	Temperature Range	Temperature Stability @ 37°C	Uniformity Within the Block @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C	Model	Item No.	List Price (USD)
1 block	Ambient $+5^{\circ}\text{C}$ to 120°C	120 volt units: $\pm 0.1^{\circ}\text{C}$	120 volt units: $\pm 0.1^{\circ}\text{C}$	N/A	≤ 16 minutes	HB1DG	30392059	454
2 block	Ambient $+5^{\circ}\text{C}$ to 120°C	120 volt units: $\pm 0.1^{\circ}\text{C}$	120 volt units: $\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	≤ 16 minutes	HB2DG	30392080	550
4 block	Ambient $+5^{\circ}\text{C}$ to 120°C	120 volt units: $\pm 0.1^{\circ}\text{C}$	120 volt units: $\pm 0.1^{\circ}\text{C}$	$\pm 0.2^{\circ}\text{C}$	≤ 23 minutes	HB4DG	30392087	710
6 block	Ambient $+5^{\circ}\text{C}$ to 120°C	120 volt units: $\pm 0.1^{\circ}\text{C}$	120 volt units: $\pm 0.1^{\circ}\text{C}$	$\pm 0.3^{\circ}\text{C}$	≤ 30 minutes	HB6DG	30392094	1070

External Temperature Probe Kit

Enables the unit to read actual block or sample temperature and display that temperature on the control panel. The optional External Temperature Probe Kit includes a stainless steel RTD PT100 probe, 18" (45.7 cm) stainless steel support rod, thermometer/temperature probe extension clamp and hook connector. The PT100 RTD probe is designed to fit perfectly into the thermometer well of each modular block.



DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application



Applications

Coagulation and RH Studies.

Operating Features

High wattage, constant-temperature Dry Block Heaters are economical, versatile and compact.

Microprocessor Control: PID temperature controller maintains precise temperature control. Samples are heated to temperature quickly and accurately.

Adjustment Knobs: Dual temperature control knobs with dial markings from 1 to 10 for low temperature and high temperature adjustments. Low range knob adjusts from ambient to 100°C and high range knob adjusts from 75°C to 150°C.

CAUTION! To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.



Operating Conditions

Units can be run in conditions from 18 to 33°C (64 to 91°F), 20% to 80% relative humidity, non-condensing.

Designed for reliable everyday use in the lab. Digital and non-digital block heaters offer exceptional temperature uniformity with outstanding temperature stability.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Size	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C	Model	Item No.	List Price (USD)
1 block	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	120 volt units: ± 0.1°C	120 volt units: ± 1.0°C	N/A	≤ 16 minutes	HB1AL	30392045	340
2 block	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	120 volt units: ± 0.1°C	120 volt units: ± 1.5°C	± 0.1°C	≤ 16 minutes	HB2AL	30392052	441
4 block	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	120 volt units: ± 0.1°C	120 volt units: ± 2.0°C	± 0.2°C	≤ 23 minutes	HB4AL	30392066	645
6 block	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	120 volt units: ± 0.1°C	120 volt units: ± 2.0°C	± 0.3°C	≤ 30 minutes	HB6AL	30392073	960

DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application



Applications

Isothermal incubation, enzyme reactions, immunoassays and nucleic acid denaturation and a wide variety of other laboratory procedures.

Operating Features

Microprocessor Control: PID temperature control, with optional external RTD probe, offers a temperature stability as low as $\pm 0.1^{\circ}\text{C}$ with a temperature uniformity as low as $\pm 0.1^{\circ}\text{C}$. Samples are heated to temperature quickly and accurately. Temperature is adjusted in $\pm 0.1^{\circ}\text{C}$ increments.

LED Display: Touchpad controls with easy-to-read, independent LED displays for temperature, and time.

Provides repeatable and accurate results every time and is easily visible across lab benches. Shows set-point and actual temperature. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Temperature Calibration Mode: Allows user to calibrate unit to an external temperature device.



Safety Features

Caution Hot Indicator: Hot warning symbol light is illuminated when the temperature is above 40°C .

Overshoot Protection: If the unit exceeds the set temperature by 10°C the unit will automatically stop heating.

Audible Alarm: In timed mode, alarm will sound when time reaches zero and when unit reaches set-point temperature.

CAUTION! To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.

Operating Conditions

Units can be run in environments from 18 to 33°C (64 to 91°F), 20% to 80% relative humidity, non-condensing.

Three models to customize your application. All models offer exceptional temperature uniformity with outstanding temperature stability.

Avoid contamination to ensure repeatable, reliable results. The Heatblock with Heated Lid features a second heater in the lid to minimize condensation to maintain your sample integrity.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Model	Size	Temperature Range	Temperature Stability @ 37°C	Uniformity Within the Block @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C	Item No.	List Price (USD)
HB2DGH	2 block	Ambient $+5^{\circ}\text{C}$ to 100°C	120 volt units: $\pm 0.1^{\circ}\text{C}$	120 volt units: $\pm 1.0^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	≤ 30 minutes	30392101	1165

MODULAR BLOCKS* & ACCESSORIES

Modular blocks are constructed from a solid anodized aluminum block*. The close contact of tubes-to-block walls allow for maximum heat retention. Each block has a thermometer well for measuring block temperature.

Caution! To avoid possible electrical hazard, do not fill well or block with water or other fluids. Units are designed as a dry bath/incubator.

Single block dimensions (L × W × H): 3.75 × 3 × 2" (9.5 × 7.6 × 5.1 cm)

Double block dimensions (L × W × H): 6 × 3.75 × 2.25" (15.2 × 9.5 × 5.7 cm)



Microcentrifuge Tube Blocks

Single block

Brand/Sample Type	No. of Wells	Well Dia.	Well Depth	Item No.	List Price (USD)
0.5 mL Tube	30	7.9 mm	27.6 mm	30400157	147
1.5 mL Tube	20	11.1 mm	39.1 mm	30400159	147
1.5 mL Eppendorf™ Tube	20	11.5 mm	36.9 mm	30400162	147
2 mL Eppendorf™ Tube	20	11.5 mm	38.1 mm	30400191	147
2 mL Corning™ Tube	20	10.9 mm	38.1 mm	30400192	147

Titer Plate Block

Double block

Fits 2/4/6 block Dry Block Heaters. Ideal for 96-well or 384-well titer plates. Recessed well for better stability, flat surface good for flat and round bottom plates.

Sample Type	Well Depth	Item No.	List Price (USD)
Titer Plate	13.5 mm	30400164	301

Conical-Bottom Centrifuge Tube Blocks

Single/Sample Type	No. of Wells	Well Dia.	Well Depth	Item No.	List Price (USD)
15 mL Tube	12	17.1 mm	44.5 mm	30400172	147
50 mL Tube	5	29.0 mm	47.6 mm	30400168	147

Standard Test Tube Blocks

Single/Sample Type	No. of Wells	Well Dia.	Well Depth	Item No.	List Price (USD)
6 mm Tube	30	8.3 mm	48.4 mm	30400158	147
10 mm Tube	24	10.7 mm	48.4 mm	30400151	147
12/13 mm Tube	20	13.9 mm	48.4 mm	30400152	147
12/13 mm Tube	16	13.9 mm	48.4 mm	30400165	147
15/16 mm Tube	12	17.5 mm	48.4 mm	30400153	147
17/18 mm Tube	12	19.1 mm	48.4 mm	30400195	147
20 mm Tube	8	21.0 mm	48.4 mm	30400154	147
25 mm Tube	6	26.2 mm	48.4 mm	30400155	147
35 mm Tube	4	35.0 mm	47.6 mm	30400167	147

* Block color subject to change

MODULAR BLOCKS* & ACCESSORIES

Combination Blocks

Single block

These blocks have been designed for variable sized samples.

Sample Type		No. of Wells	Well Dia.	Well Depth	Item No.	List Price (USD)
Test Tube Combination	6 mm	6	8.3 mm	48.4 mm	30400156	147
	12/13 mm	5	13.8 mm	48.4 mm		
	25 mm	3	26.2 mm	48.4 mm		
Centrifuge Tube Combination	1.5 mL	4	11.1 mm	39.1 mm	30400193	147
	15 mL	3	17.1 mm	44.5 mm		
	50 mL	2	29.0 mm	47.6 mm		
Micro-Tube Combination	0.5 mL	6	7.9 mm	27.6 mm	30400194	147
	1.5 mL	10	11.1 mm	39.1 mm		
	2 mL	5	11.5 mm	38.1 mm		

Vial Blocks

Single block

Designed for sample/serum and scintillation vials.

Sample Type	No. of Wells	Well Dia.	Well Depth	Item No.	List Price (USD)
12 mm Vial	20	12.7 mm	30 mm	30400182	147
15 mm Vial	20	15.8 mm	35 mm	30400183	147
16 mm Vial	15	16.4 mm	45 mm	30400190	147
17 mm Vial	12	17.8 mm	45 mm	30400184	147
19 mm Vial	12	19.7 mm	45 mm	30400185	147
21 mm Vial	9	21.7 mm	45 mm	30400186	147
23 mm Vial	8	23.8 mm	45 mm	30400187	147
25 mm Vial	8	25.8 mm	45 mm	30400188	147
28 mm Vial	6	28.8 mm	45 mm	30400189	147

PCR—Plate, Tube, Strip Blocks

Single and double block

Tapered tube wells for 0.2 mL tubes. Spaced for easy access and removal.

Sample Type	Block Size	No. of Wells	Well Dia.	Well Depth	Item No.	List Price (USD)
96-well PCR Plate	Double	96	6.4 mm	15.5 mm	30400171	330
10 × 8 Tube Strips	Single	80	6.4 mm	15.5 mm	30400169	163
Individual Tubes	Single	64	6.4 mm	20.2 mm	30400170	163

Cuvette Block

Single block

Two parallel slots fit 6 cuvettes in each slot, side-by-side.

Sample Type	No. of Wells	Well Depth	Item No.	List Price (USD)
(12) 12.5 mm Cuvettes	2	25.4 mm	30400161	176

* Block color subject to change



MODULAR BLOCKS* & ACCESSORIES

Solid Blocks

Single and double block

For use as a low-temperature hotplate, slide drying, or for custom drilling to make a custom block.

Block Size	Dimensions (L × W × H)	Item No.	List Price (USD)
Single	3.75 × 3 × 2" (9.5 × 7.6 × 5.1 cm)	30400160	147
Double	6 × 3.75 × 2.25" (15.2 × 9.5 × 5.7 cm)	30400166	215

Stainless Steel Sand Baths

Ideal for irregular vessels. Stainless steel construction for superior corrosion resistance. Designed to hold sand, stainless steel shot or non-volatile fluids.

For Unit	Dimensions (L × W × H)	Item No.	List Price (USD)
1 Block Dry Block Heater	3.8 × 3.0 × 2.5" (9.5 × 7.6 × 6.4 cm)	30400173	#N/A
2 Block Dry Block Heater	3.8 × 5.9 × 2.5" (9.5 × 14.9 × 6.4 cm)	30400174	329
4 Block Dry Block Heater	5.8 × 7.5 × 2.5" (14.7 × 19.1 × 6.4 cm)	30400175	352
6 Block Dry Block Heater	5.8 × 11.3 × 2.5" (14.7 × 28.7 × 6.4 cm)	30400176	365

Accessories	Item No.	List Price (USD)
Sand, 1 lb (0.45 kg)	30400177	90
Stainless Steel Shot, 1 lb (0.45 kg)	30400178	110

Low Temperature Covers

Plexiglass cover reduces air flow for additional temperature stability in low-temperature applications. Two sides are open 0.25" (6.4 mm).

Block Size	Dimensions (L × W × H)	Item No.	List Price (USD)
2 Block Cover	6.5 × 6.5 × 1.6" (16.5 × 16.5 × 4.1 cm)	30400179	131
4 Block Cover	8.5 × 8.5 × 1.6" (21.6 × 21.6 × 4.1 cm)	30400180	127
6 Block Cover	12.5 × 8.5 × 1.6" (31.8 × 21.6 × 4.1 cm)	30400181	138

* Block color subject to change



GUARDIAN™ 7000 HOTPLATES

Durable Hotplate Stirrers with Superior Safety Features and Intelligent Performance



Applications

Research and Academia chemistry.

Operating Features

Adjustment Knobs: Used to adjust speed, temperature, time and also to activate program mode for advanced settings.

Operating Conditions

Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 80% relative humidity, non-condensing.



Protect your lab with patented SmartPresence™ & SmartLink™ technologies. These exclusive features automatically shut off the heater if no one is detected after a user set "time out" period has passed.

An industry-leading early detection system that uses two independent safety controls to continuously monitor the electronics and will shut off heating before an overtemperature condition occurs.

Precise stirring from 60 to 1600 rpm is made possible by the design of a powerful motor, strong magnet and software controlled ramp rate, ensuring secure magnetic coupling for viscous applications.

Model	Speed Range	Temperature Range	Maximum Stirring Capacity (H ₂ O)	Top Plate Material	Top Plate Dimensions	Overall Dimensions (L x W x H)	Item No.	List Price (USD)
e-G71HS07C	60 rpm to 1600 rpm	Ambient + 5°C – 500°C	15L	Ceramic	7" x 7" Square	12.2" x 8.8" x 4.8"	30500600	750
e-G71HS10C	60 rpm to 1600 rpm	Ambient + 5°C – 500°C	18L	Ceramic	10" x 10" Square	16.3" x 11.25" x 4.8"	30500610	1050
e-G71HSRDM	60 rpm to 1600 rpm	Ambient + 5°C – 380°C	20L	Aluminum	5.3" Round	10.5" x 6.8" x 5.0"	30500620	675

GUARDIAN™ 5000 HOTPLATES

Reliable Hotplate Stirrers with Exceptional Safety Features for Everyday Use



Applications

Academia, Research and Industrial chemistry

Operating Features

Adjustment Knobs: Used to adjust speed, temperature, time and also to activate program mode for advanced settings.

Operating Conditions

Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 80% relative humidity, non-condensing



An industry-leading early detection system that uses two independent safety controls to continuously monitor the electronics and shut off heating before an overtemperature condition occurs.

Precise stirring from 60 to 1600 rpm is made possible by the design of a powerful motor, strong magnet and software controlled ramp rate, ensuring secure magnetic coupling for viscous applications.

The bright LCD display includes large temperature and speed settings, intuitive icons and a prominent hot top indicator – all designed to quickly and easily monitor performance from across the lab.

Model	Speed Range	Temperature Range	Maximum Stirring Capacity (H ₂ O)	Top Plate Material	Top Plate Dimensions	Overall Dimensions (L x W x H)	Item No.	List Price (USD)
e-G51HS07C	60 rpm to 1600 rpm	Ambient + 5°C – 500°C	15L	Ceramic	7" x 7" Square	12.2" x 8.8" x 4.8"	30500520	500
e-G51HP07C	n/a	Ambient + 5°C – 500°C	15L	Ceramic	7" x 7" Square	12.2" x 8.8" x 4.8"	30500530	300
e-G51ST07C	60 rpm to 1600 rpm	n/a	15L	Ceramic	7" x 7" Square	10.5" x 6.8" x 5.0"	30500540	300
e-G51HS10C	60 rpm to 1600 rpm	Ambient + 5°C – 500°C	18L	Ceramic	10" x 10" Square	16.3" x 11.25" x 4.8"	30500550	650
e-G51HSRDM	60 rpm to 1600 rpm	Ambient + 5°C – 380°C	20L	Aluminum	5.3" Round	10.5" x 6.8" x 5.0"	30500560	500

MINI HOTPLATES & STIRRERS

Compact, Reliable, Easy-to-Use Hotplates and Stirrers for Basic Heating and Stirring



Applications

Academia and basic chemistry

Operating Features

Adjustment Knobs: Basic speed and temperature control knobs with dial markings from 1 to 10s

Operating Conditions

Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 85% relative humidity, non-condensing



Select the function you need for your everyday heating and stirring. Five models to choose from - Hotplate, Fixed Temperature Hotplate, Stirrer, Auto Stirrer and combination Hotplate-Stirrer.

Our mini hotplate stirrer is easy to clean up. All models feature a smooth, chemical-resistant ceramic top plate. This brilliant white reflective surface is optimal for viewing your samples.

Designed for safety - unique housing material is heat-resistant making it not only cool to the touch, but also chemical-resistant. Spill resistant design ensures long-term reliable use.

Basic Mini Hotplates

Model	Temperature Range	Max. Capacity (H ₂ O)	Top Plate Dimensions (Dia.)	Overall Dimensions (L x W x H)	Item No.	List Price (USD)
HSMNHP4CAL	to 500°C*	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392010	221
HSMNHP4CFT*	to 500°C*	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392031	210

* Fixed Temperature Hotplate has a fixed temperature of 500°C.

Basic Mini Stirrers

Model	Speed Range	Max. Capacity (H ₂ O)	Top Plate Dimensions (Dia.)	Overall Dimensions (L x W x H)	Item No.	List Price (USD)
HSMNST4CAL	100 to 1200 rpm	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392017	195
HSMNAS4CAL**	100 to 1200 rpm	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392038	242

**Mini auto stirrer

Basic Mini Hotplate-Stirrers

Model	Temperature Range	Speed Range	Max. Capacity (H ₂ O)	Top Plate Dimensions (Dia.)	Overall Dimensions (L x W x H)	Item No.	List Price (USD)
HSMNHS4CAL	to 500°C	100 to 1200 rpm	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392024	367

MULTI-POSITION STIRRERS

Synchronized and Uniform Mixing

Applications

Dissolution Studies, Titrations, Media/Reagent Preparations, Synchronized Stirring of multiple samples

Display

Independent LED displays for speed and time (on digital models); Knob with 1-10 dial markings (on non-digital models)

Construction

Cast aluminum housing, glass filled nylon top plate. Includes stir bars to accommodate each stirring position

Design Features

Speed ramping feature slowly increases motor speed for enhanced coupling and improved stirring. Microprocessor-controlled for precise speed regulation. Timer counts up or when programmed to a set time will turn off stirring & sound alarm when timer reaches zero.

Operating Conditions

41°F – 104°F, 80% Relative Humidity, non-condensing



The 318 × 279 mm top plate accommodates up to 9 × 250 mL or 4 × 1 L flasks. The glass-filled nylon surface has a reflective white color, is chemical-resistant & minimizes unintended heating of samples.

Speed ramping feature slowly increases the motor speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control and provides excellent low-end speed control.

Digital models have touchpad controls for input of speed and time. Non-digital models have an adjustment knob with dial markings from 1–10. The microprocessor regulates adjustments throughout the range.

Model	Control	Speed Range	Capacity	Dimensions (H × L × W)	Plate Dimensions (L × W)	Timer	Net Weight	Power Consumption	Item No.	List Price (USD)
STMP4AL	Analog	60 rpm to 1400 rpm	4 × 1 L	4 × 17 × 11 in 9.7 × 43.2 × 27.9 cm	12.5 × 11 in 31.8 × 27.9 cm	N/A	14 lb. / 6.3 kg	75 W	30573789	1,249
STMP9AL	Analog	60 rpm to 1400 rpm	9 × 250 mL	4 × 17 × 11 in 9.7 × 43.2 × 27.9 cm	12.5 × 11 in 31.8 × 27.9 cm	N/A	14 lb. / 6.3 kg	75 W	30573794	1,784
STMP4DG	Digital	60 rpm to 1400 rpm	4 × 1 L	4 × 17 × 11 in 9.7 × 43.2 × 27.9 cm	12.5 × 11 in 31.8 × 27.9 cm	1 second to 160 hours	14 lb. / 6.3 kg	75 W	30573799	1,440
STMP9DG	Digital	60 rpm to 1400 rpm	9 × 250 mL	4 × 17 × 11 in 9.7 × 43.2 × 27.9 cm	12.5 × 11 in 31.8 × 27.9 cm	1 second to 160 hours	14 lb. / 6.3 kg	75 W	30573804	2,348
Accessories										
		Item No.							List Price (USD)	
Spinbar 2.5cm PTFE		30400147							12	

LARGE VOLUME STIRRERS

Powerful Motor and Magnet Mixes Samples Up To 200 L

Applications

Carboys, Chromatography, Mixing viscous materials, polymers, pilot scale and other large volume Stirring and Mixing

Display

Independent LED displays for speed and time (on digital models), Knob with 1-10 dial markings (on non-digital models)

Construction

High Volume Stirrers feature a cast aluminum housing and glass filled nylon top plate. Large Capacity Stirrers feature both stainless steel housing and top plate. Models include either a 70 mm egg shaped stir bar or 102 mm stir bar with pivot ring.

Design Features

Speed ramping feature slowly increases motor speed for enhanced coupling & improved stirring. Microprocessor-controlled for precise speed regulation. Timer counts up or when programmed to a set time, will turn off stirring & sound alarm when timer reaches 0.

Operating Conditions

41°F–104°F, 20% to 80% Relative Humidity non-condensing



Large Capacity Stirrers with a 100 or 200 L capacity are made with a stainless steel base offering durability and stability, and feature a 54 x 53 cm stainless steel top plate.

Large 32 x 28 cm top plate is chemical-resistant with a white reflective surface that is easy to clean. Digital and non-digital models allow you to choose the right model for your application.

Speed ramping feature slowly increases the motor speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control and provides excellent low-end speed control.

Model	Control	Speed Range	Capacity	Dimensions (H x L x W)	Plate Dimensions (L x W)	Timer	Net Weight	Power Consumption	Item No.	List Price (USD)
STHVAL	Analog	60 rpm to 1400 rpm	25L	4 x 17 x 11 in 9.7 x 43.2 x 27.9 cm	12.5 x 11 in 31.8 x 27.9 cm	N/A	13.6 lb / 6.2 kg	75 W	30573809	933
STHVDG	Digital	60 rpm to 1400 rpm	25L	4 x 17 x 11 in 9.7 x 43.2 x 27.9 cm	12.5 x 11 in 31.8 x 27.9 cm	1 second to 160 hours	13.6 lb / 6.2 kg	75 W	30573814	1,081
STLC1DG	Digital	100 rpm to 1800 rpm	100 L	5.25 x 28.5 x 26.75 in 13.3 x 72.4 x 68 cm	21.25 x 25 in 54 x 63.5 cm	1 second to 160 hours	67 lb / 30.4 kg	41 W	30573819	2,989
STLC2DG	Digital	100 rpm to 1800 rpm	200L	5.25 x 28.5 x 26.75 in 13.3 x 72.4 x 68 cm	21.25 x 25 in 54 x 63.5 cm	1 second to 160 hours	67 lb / 30.4 kg	82 W	30573825	4,299

Accessories	STHVAL	STHVDG	STLC1DG	STLC2DG	Item No.	List Price (USD)
Spinbar 7 cm PTFE	•	•	•		30400149	45
Spinbar 10 cm with Pivot Ring PTFE				•	30400150	85

ACHIEVER™ 5000 OVERHEAD STIRRERS

Reliable Overhead Stirrers with Excellent Performance for Everyday Use

Applications

Stirring of high viscosity and large sample volumes

Display

Torque tendency 7 Digit LED indicator

Construction

Sealed housing with IP54 rating

Design Features

Speed accuracy of 1 rpm, timer, digital speed control, chuck range 1 to 13 mm, pass through shaft diameter up to 8.5 mm, support stand and clamp required for set up (sold separately)

Operating Conditions

41°F–104°F, 80% Relative Humidity, non-condensing



Powerful mixing and constant speed is assured with the brushless motor and torque compensation technology—delivering accurate, controlled stirring of viscous liquids with quiet operation.

Simplify set up with the Keyless Chuck—no tools required. Change shafts quickly and easily with one handed operation. This unique design will save time and effort for everyone in the lab.

Designed for safety. The lock button prevents accidental speed changes and the motor's overload sensing technology simply shuts off stirring before an overload condition occurs to protect the sample.

Model	Speed Range (rpm)	Speed Accuracy (rpm)	Speed Gears	Stirring Volume (L)	Operating Mode	Max. Viscosity (mPas)	Torque @ Max. Speed (Ncm)	Chuck Range Diameter (mm)	Hollow Shaft Inner Diameter (mm)	Item No.	List Price (USD)
e-A51ST020	30–2000 rpm	1	1	up to 25	Continuous / Timer	10,000	20	1–13	1–8.5	30586763	1,270
e-A51ST040	30–2000 rpm	1	1	up to 25	Continuous / Timer	25,000	40	1–13	1–8.5	30586764	1,405
e-A51ST060	30–2000 rpm	1	1	up to 40	Continuous / Timer	50,000	60	1–13	1–8.5	30586765	1,592
e-A51ST100	30–1300 rpm	1	1	up to 100	Continuous / Timer	70,000	100	1–13	1–8.5	30586766	2,084
e-A51ST200	6–400 rpm (I) 30–2000 rpm (II)	1	2	up to 100	Continuous / Timer	100,000	200	1–13	1–8.5	30586767	2,213

Accessories	Item No.	List Price (USD)
Stirrer Shaft 45 × 0.7 cm, Anchor Blade	30586775	120
Stirrer Shaft 40 × 0.7 cm, Fixed Blade	30586776	120
Stirrer Shaft 40 × 0.7 cm, Floating Blade	30586777	125
Stirrer Shaft 40 × 0.7 cm, Folding Blade	30586778	125
Stirrer Shaft 45 × 0.7 cm, Paddle 6 Holes	30586779	125
Stirrer Shaft 40 × 0.7 cm, Propeller	30586780	125
Stirrer Shaft 45 × 0.7 cm, Turbine	30586781	225
Stirrer Shaft 45 × 0.7 cm, Turbo Propeller	30586782	225
Support Stand Universal-H	30586771	350
Support Stand Telescopic-H	30586772	550
Clamp Double	30586773	75
Clamp Ribbon	30586774	110
Power Cable US e-A51	30586768	12

HT LYSING BEAD MILL HOMOGENIZER

Provides Simple and Powerful Solutions for Rapid High-Throughput Grinding



Applications

DNA, RNA and Protein Analysis (from mammalian tissue, plant, soil, seed, fungi, bacteria, virus and other cells), Cell Lysing, PCR, Gene Expression.

Operating Features

LED display: Allows the operator to view speed and time settings

Microprocessor-control: Unit includes sample clamp and hex key.



For high performance grinding, the HT Lysing Homogenizer is one of the most flexible models on the market. The built-in adjustable holder allows for easy processing of samples—no accessories needed.

This versatile Homogenizer allows high throughput grinding, and is ideal for processing multiple tubes, microplates, deep-well plates, or any sample container that fits in the 10.2 × 12.7 × 6.4 cm holder.

Take the guesswork out of sample preparation. Five preset programs optimized for speed and time to process the most common samples, including bacteria, fungi, plant, and animal tissue easily.

Model	Speed Range	Motion	Timer	Capacity	Dimensions	Weight	Max. Capacity	Item No.	List Price (USD)
HOHTDG	300 to 1600 rpm (1 rpm increments)	Reciprocal, 31 mm	1 second to 10 minutes (1 second increments)	1 deep well plate, 4 microplates, or any sample matrix that can fit in the 10.2 × 12.7 × 6.4 cm adjustable holder	17.5 × 11.3 × 20.4 in / 44.6 × 28.6 × 51.8 cm	59 lb / 26.8 kg	300 g	30391393	8305

Accessories	Item No.	List Price (USD)
White, Bacteria, 2 mL tube, 100/box	30391402	333
Yellow, Yeast, 2 mL Tube, 100/box	30391404	333
Blue, Fungi, 2 mL Tube, 100/box	30391405	333
Orange, Soft Sample, 2 mL Tube, 100/box	30391406	333
Green, Plant, 2 mL Tube, 100/box	30391408	333
Red, Animal Tissue, 2 mL Tube, 100/box	30391409	333
Brown, Environmental, 2 mL Tube, 100/box	30391410	340
Tube Rack, 25 × 2ml Tubes, 2 per pack	30391431	13
Sample Tube Kit, 14 Tubes	30391433	39



MULTI-PURPOSE CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

UltraJaws Heavy-Duty Clamps

Our patented multi-purpose UltraJaws Heavy-Duty Clamps feature an innovative closed yoke construction that minimizes contamination and corrosion of internal components. The unique design enables secure gripping and positioning with added strength and durability. Available in both single and dual prong adjustment, prongs open gradually to maximize grip size without binding. Both designs feature precise pressure regulation when gripping glassware surfaces to reduce the chance of breakage. UltraJaws clamps are constructed with extension rods for easy attachment to lab-frames and other apparatus. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers. The prong height of the UltraJaws Heavy-Duty Clamps make them ideal for use in holding and securing glassware with precision ground glass joints. The chart details which UltraJaws Clamps are recommended.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

Dual Adjust Clamps



Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab—versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

Single Adjust Clamps

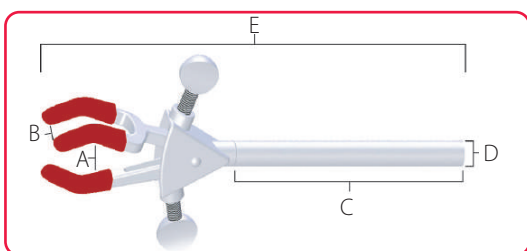


3-Prong Single Adjust Clamps

Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Small	0 to 23 mm (0 to 0.91")	6 mm (0.24")	102 mm (4")	8 mm (0.32")	162 mm (6.38")	30392254	55
Medium	0 to 50 mm (0 to 1.97")	19 mm (0.75")	127 mm (5")	11 mm (0.43")	229 mm (9.02")	30392252	56
Large	0 to 72 mm (0 to 2.83")	29 mm (1.14")	127 mm (5")	11 mm (0.43")	260 mm (10.24")	30392250	63

3-Prong Dual Adjust Clamps

Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Small	0 to 32 mm (0 to 1.26")	6 mm (0.24")	102 mm (4")	8 mm (0.32")	152 mm (5.98")	30392253	55
Medium	0 to 70 mm (0 to 2.76")	19 mm (0.75")	127 mm (5")	11 mm (0.43")	222 mm (8.74")	30392251	56
Large	0 to 103 mm (0 to 4.06")	29 mm (1.14")	127 mm (5")	11 mm (0.43")	260 mm (10.24")	30392249	63



Ground Glass Joint Reference Chart

Clamp	Joint Size
Small Dual Adjust	10/30, 12/30, 14/20, 19/22, 24/40, 29/42, 34/45
Medium Dual Adjust	14/40, 19/38
Large Dual Adjust	45/50

MULTI - PURPOSE CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

Heavy-Duty Tapered Clamps

Heavy-Duty, 4-prong, dual adjust tapered clamps are designed to hold large vessels with ground glass joint necks. Clamps are constructed with extension rods for easy attachment to lab-frames and other apparatus. Nickel-plated zinc construction.

3-Prong Clamps

The versatile 3-prong design secures various lab apparatus such as jointed glassware, columns, flasks, and tubes. Dual prong adjustments offer a wide range of motion. Long stainless steel extension arm offers easy positioning and depth adjustment. Autoclavable. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.



Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab—versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

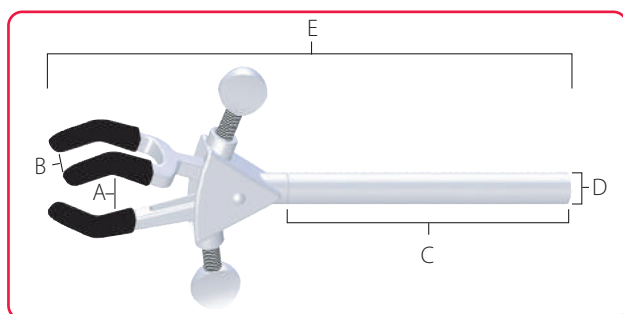
Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

Heavy-Duty Tapered Clamps

Size	Joint Size	Prong Width	Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
Small	24/40 mm	16 mm (0.63")	229 mm (9.02")	13 mm (0.51")	356 mm (14")	30392193	153
Large	34/45 mm	19 mm (0.75")	229 mm (9.02")	13 mm (0.51")	381 mm (15")	30392194	153

3-Prong Stainless Steel Dual Adjust Clamps

Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Small	0 to 48 mm (0 to 1.9")	13 mm (0.51")	102 mm (4")	10 mm (0.39")	172 mm (6.77")	30392354	89
Medium	0 to 69 mm (0 to 2.72")	19 mm (0.75")	127 mm (5")	13 mm (0.51")	229 mm (9.02")	30392353	104
Large	0 to 102 mm (0 to 4")	29 mm (1.14")	127 mm (5")	13 mm (0.51")	273 mm (10.75")	30392352	116



MULTI - PURPOSE CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

3-Prong Multi-Purpose Clamps

Designed to securely hold every type of laboratory glassware and apparatus. Long, seamless nickel-plated brass tubing attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

3-Prong Single Adjust Clamps



Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab—versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

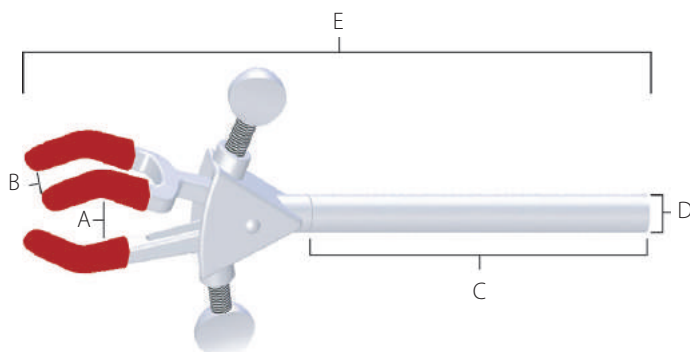
Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

3-Prong Single Adjust Clamps

Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Small	0 to 39 mm (0 to 1.54")	11 mm (0.43")	102 mm (4")	8 mm (0.32")	160 mm (6.3")	30392205	49
Medium	0 to 71 mm (0 to 2.8")	19 mm (0.75")	127 mm (5")	11 mm (0.43")	218 mm (8.58")	30392203	52
Large	0 to 108 mm (0 to 4.25")	29 mm (1.14")	127 mm (5")	11 mm (0.43")	248 mm (9.76")	30392200	54

3-Prong Dual Adjust Clamps

Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Small	0 to 46 mm (0 to 1.81")	11 mm (0.43")	102 mm (4")	8 mm (0.32")	168 mm (6.61")	30392204	49
Medium	0 to 69 mm (0 to 2.72")	19 mm (0.75")	127 mm (5")	11 mm (0.43")	229 mm (9.02")	30392201	52
Medium (extended)	0 to 69 mm (0 to 2.72")	19 mm (0.75")	305 mm (12")	13 mm (0.5")	406 mm (16")	30392202	64
Large	0 to 105 mm (0 to 4.13")	29 mm (1.14")	127 mm (5")	11 mm (0.43")	273 mm (10.75")	30392198	54
Large (extended)	0 to 105 mm (0 to 4.13")	29 mm (1.14")	305 mm (12")	13 mm (0.5")	451 mm (17.76")	30392199	67



MULTI - PURPOSE CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

2-Prong Multi-Purpose Clamps

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Stainless steel clamps are electro-polished and made entirely of stainless steel. They offer exceptional chemical resistance and are autoclavable. Nickel-plated zinc offers a clamp with a high tensile strength at an economical price. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

2-Prong Single Adjust Clamps



30392208



30392206

2-Prong Dual Adjust Clamps



30392209
(shown in nickel-plated zinc)



30392223
(shown in stainless steel)

Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab—versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

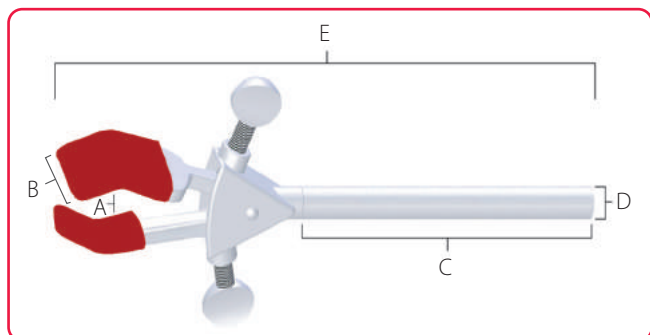
Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

2-Prong Single Adjust Clamps

Material	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Nickel-plated zinc	Medium	0 to 78 mm (0 to 3.07")	23 mm (0.91")	127 mm (5")	11 mm (0.43")	216 mm (8.5")	30392208	40
Nickel-plated zinc	Large	0 to 92 mm (0 to 3.62")	23 mm (0.91")	127 mm (5")	11 mm (0.43")	229 mm (9.02")	30392206	43

2-Prong Dual Adjust Clamps

Material	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item No.	List Price (USD)
Stainless steel	Medium	0 to 75 mm (0 to 2.95")	23 mm (0.91")	127 mm (5")	11 mm (0.43")	229 mm (9.02")	30392220	96
Nickel-plated zinc	Medium	0 to 75 mm (0 to 2.95")	23 mm (0.91")	127 mm (5")	11 mm (0.43")	229 mm (9.02")	30392209	40
Stainless steel	Large	0 to 95 mm (0 to 3.74")	23 mm (0.91")	127 mm (5")	11 mm (0.43")	248 mm (9.76")	30392223	114
Nickel-plated zinc	Large	0 to 95 mm (0 to 3.74")	23 mm (0.91")	127 mm (5")	11 mm (0.43")	248 mm (9.76")	30392207	43



MULTI - PURPOSE CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

Swivel Clamps

Used to hold apparatus near the lab-frame. Unlike extension clamps, the swivel clamps have an integral holder for attaching to a lab-frame or other apparatus. Built-in holder grips rods up to 19 mm (0.75") in diameter and is adjustable for forward or reverse-facing adjustment screws. Shaft wing-nut allows the holding angle of the swivel clamp to adjust through 360° of rotation and can be locked in place once desired position is achieved. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Fixed-Position Clamps

Used to hold apparatus near the lab-frame where no adjustment is required after set-up. Built-in holder grips rods up to 19 mm (0.75") in diameter Fixed-Position Clamps have an integral holder but can be rotated after attachment to a lab-frame or other apparatus. Available in 2-prong or 3-prong. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

30392225
(shown in stainless steel)



30392216
(shown in nickel-plated zinc)



30392229
(shown in stainless steel)



30392218
(shown in nickel-plated zinc)

Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab—versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

Swivel Clamps

Material	Description	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item No.	List Price (USD)
Stainless steel	2-Prong Single Adjust	Medium	0 to 76 mm (0 to 3")	23 mm (0.91")	163 mm (6.42")	30392226	111
Nickel-plated zinc	2-Prong Single Adjust	Medium	0 to 76 mm (0 to 3")	23 mm (0.91")	163 mm (6.42")	30392215	40
Nickel-plated zinc	2-Prong Single Adjust	Large	0 to 95 mm (0 to 3.74")	23 mm (0.91")	180 mm (7.09")	30392216	42
Stainless steel	3-Prong Dual Adjust	Medium	0 to 69 mm (0 to 2.72")	20 mm (0.79")	178 mm (7.01")	30392225	149
Nickel-plated zinc	3-Prong Dual Adjust	Medium	0 to 69 mm (0 to 2.72")	20 mm (0.79")	178 mm (7.01")	30392214	55

Fixed-Position Clamps

Material	Description	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item No.	List Price (USD)
Stainless steel	2-Prong Single Adjust	Medium	0 to 77 mm (0 to 3.03")	23 mm (0.91")	133 mm (5.24")	30392230	110
Nickel-plated zinc	2-Prong Single Adjust	Medium	0 to 77 mm (0 to 3.03")	23 mm (0.91")	133 mm (5.24")	30392218	38
Stainless steel	3-Prong Dual Adjust	Medium	0 to 69 mm (0 to 2.72")	20 mm (0.79")	146 mm (5.75")	30392229	138
Nickel-plated zinc	3-Prong Dual Adjust	Medium	0 to 69 mm (0 to 2.72")	20 mm (0.79")	146 mm (5.75")	30392217	47

SPECIALTY CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

Thermometer Swivel Clamp

Holds glass tubes and thermometers 114 mm (4.49") from support rod. Clamp features safety adjust spring plate jaws that adjust to any angle with locking wing-nut. Built-in holder grips rods up to 19 mm (0.75") in diameter. Lightweight, rust, and corrosion-resistant. Nickel-plated construction.

Min. to Max. Grip Size	Overall Length	Item No.	List Price (USD)
6 to 8 mm (0.24 to 0.32")	159 mm (6.26")	30392238	47



Thermometer / Thermocouple Extension Clamp

Lightweight clamp holds glass tubing, thermometers or thermocouples up to 178 mm (7") from support rod. Tightening wing-nut applies tension to the nickel-plated jaws.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

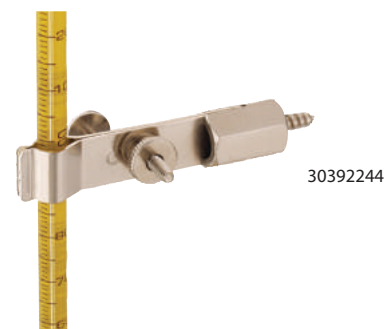
Min. to Max. Grip Size	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
6 to 12 mm (0.24 to 0.47")	127 mm (5")	11 mm (0.43")	210 mm (8.27")	30392239	41



Wall Clamp

Ideal for securing fermentation tubes, burets or other small objects to walls where no frames are available. Integral self-tapping screw secures clamp to wall. Nickel-plated construction.

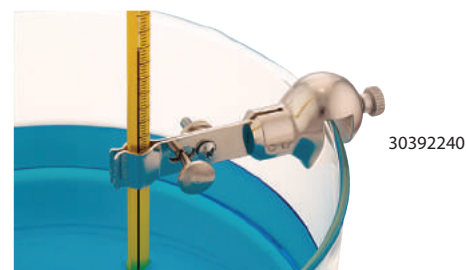
Min. to Max. Grip Size	Overall Length	Item No.	List Price (USD)
5 to 10 mm (0.2 to 0.39")	80 mm (3.15")	30392244	36



Water Bath Clamps

Holds a variety of apparatus, including glass tubes and thermometers onto glass water bath walls. Built-in holder grips walls of varying thickness, up to 9 mm (0.35"). Knurled thumbscrew tightens jaws to hold objects firmly. Nickel-plated zinc construction. Large water bath clamp is supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item No.	List Price (USD)
Small	5 to 10 mm (0.2 to 0.39")	N/A	89 mm (3.5")	30392240	35
Large	0 to 46 mm (0 to 1.81")	11 mm (0.43")	117 mm (4.61")	30392241	52



SPECIALTY CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

For the items listed below an additional holder must be purchased in order to attach clamps to frames or other apparatus.

Chain Clamps

Holds large round or irregular shaped objects firmly, yet gently, to lab-frames and rods. Quick and secure slip-on chain connection with large, easy-to-turn adjusting knob. Extension arm allows user to vary distance from the frame. Available as stainless steel clamp, constructed entirely of stainless steel with electro-polished finish or nickel-plated zinc clamp with strong, chromed-brass chain.

Stainless Steel

Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
Large-5	35 to 280 mm (1.38 to 11.02")	127 mm (5")	13 mm (0.51")	206 mm (8.11")	30392224	238



30392224
(shown in stainless steel)

Nickel-Plated Zinc

Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
Small	35 to 170 mm (1.38 to 6.69")	127 mm (5")	13 mm (0.51")	188 mm (7.4")	30392235	67
Large-5	35 to 280 mm (1.38 to 11.02")	127 mm (5")	13 mm (0.51")	206 mm (8.11")	30392259	97
Large-12	35 to 280 mm (1.38 to 11.02")	305 mm (12")	13 mm (0.51")	384 mm (15.12")	30392260	103

Column Clamps

These sturdy, easily adjusted, multi-purpose clamps are ideal for holding large cylindrical glassware and similar objects. A large, flat thumbscrew/worm-drive permits maximum tightening or removal in minimum time. Clamp is constructed of corrosion-resistant stainless steel. Ideal for chromatography columns.

Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
Small	65 to 89 mm (2.56 to 3.5")	211 mm (8.31")	11 mm (0.43")	282 mm (11.1")	30392314	78
Medium	91 to 114 mm (3.58 to 4.49")	211 mm (8.31")	11 mm (0.43")	315 mm (12.4")	30392315	80
Large	64 to 140 mm (2.52 to 5.51")	211 mm (8.31")	11 mm (0.43")	338 mm (13.31")	30392316	81
X-Large	92 to 165 mm (3.62 to 6.5")	211 mm (8.31")	11 mm (0.43")	368 mm (14.49")	30392317	81



30392316

SPECIALTY CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

For the items listed below an additional holder must be purchased in order to attach clamps to frames or other apparatus.

Nester Extension Clamps

Securely holds large or small glass distillation columns and odd-shaped glassware. Constructed of stainless steel with strong, chromed-brass band and chain.

Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
50 to 102 mm (1.97 to 4")	152 mm (5.98")	10 mm (0.39")	262 mm (10.32")	30392318	104



PVC Coated Open Extension Rings

Ideal for supporting funnels, round bottom flasks, reaction vessels, and other apparatus that require lower support. Opening in PVC coated aluminum ring allows for easy removal of sample container. PVC coating protects glassware. Long extension arm permits depth adjustment of the open ring from the lab-frame or ring stand.

Ring Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
76 mm (3")	254 mm (10")	9 mm (0.35")	328 mm (12.91")	30392346	73
102 mm (4")	305 mm (12")	9 mm (0.35")	404 mm (15.91")	30392347	82
127 mm (5")	305 mm (12")	11 mm (0.43")	427 mm (16.81")	30392348	109



Open Rings

Lightweight rings mount funnels, boiling flasks, and other irregular shaped objects to lab-frames. Open ring section allows items to pass in and out of support area easily, reducing risk of breakage. Aluminum construction.

Ring Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
76 mm (3")	58 mm (2.28")	9 mm (0.35")	132 mm (5.2")	30392343	35
102 mm (4")	58 mm (2.28")	9 mm (0.35")	158 mm (6.22")	30392344	45
127 mm (5")	61 mm (2.4")	11 mm (0.43")	183 mm (7.2")	30392345	62



SPECIALTY CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

Buret Holders

Stainless steel electro-polished finish or nickel-plated zinc construction. Double Buret Clamp holds any size buret from micro to 100 mL capacity. Simply compress the scissor-like mechanism, insert buret and gently release to grip. Numbers and graduation on buret remain easy to read. For height adjustments, recompress mechanism and slide buret up or down and gently release. Clamp unit with built-in reinforced hook connector attaches to optional standard support rod. Adjusting nut faces forward for easy use. Stainless steel or aluminum support rod attaches to optional porcelain base.

Support Rod (Dia. × L): 13 × 578 mm (0.51 × 22.76")

Porcelain Base (L × W × H): 178 × 330 × 25 mm (7 × 13 × 1")

Stainless Steel

Description	Item No.	List Price (USD)
Double Buret Clamp (only)	30392227	190
Support Rod (only)	30392233	43
Support Stand with Rod	30392232	213
Double Buret Clamp & Support Stand with Rod (complete)	30392231	391

Nickel-Plated Zinc

Description	Item No.	List Price (USD)
Double Buret Clamp (only)	30392234	70
Support Stand with Rod	30392312	196
Double Buret Clamp & Support Stand with Rod (complete)	30392313	273

Kettle Clamps

Holds flask and cover together firmly. Three insulated spring-activated clamping arms. Stainless steel springs. For use on reaction kettles.

Flask Size	Inside Dia.	Item No.	List Price (USD)
500 mL, 1000 mL	125 mm (4.92")	30392365	187
2000 mL, 3000 mL, 4000 mL	142 mm (5.59")	30392366	189

Electrode Support Clamp

Permits suspension of electrodes over beaker for potentiometric titrations. Holds any electrode clamp at desired level. Built-in nickel-plated zinc holder grips rods up to 19 mm (0.75") in diameter.

Overall Length	Item No.	List Price (USD)
178 mm (7")	30392242	74

Suspension Clamp

Holds thermometers, potash bulbs or drying tubes 114 mm (4.49") from support rod. Machine tapered, nickel-plated brass hook won't bend, rust, or corrode. Built-in holder grips rods up to 19 mm (0.75") in diameter.

Overall Length	Item No.	List Price (USD)
137 mm (5.39")	30392243	36

Support Clamp

Supports electrolysis apparatus, glass rods or tubing at any angle. Arms are nickel-plated brass with vinyl coating. Easily supports cylindrical objects up to 19 mm (0.75") in diameter. Built-in holder grips rods up to 19 mm (0.75") in diameter.

Overall Length	Prong Width	Item No.	List Price (USD)
152 mm (5.99")	25 mm (1")	30392237	95



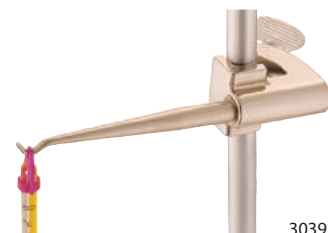
30392231
(shown in stainless steel)



30392365



30392242
Electrode holder not included



30392243



30392237

SPECIALTY CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

Ultra Flex Support Systems

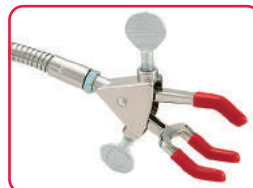
Ultra Flex Support Systems have unique flexible arms that are extremely versatile and can be placed in virtually any position or angle. Ultra Flex comes in three different systems; base plate, lab-frame connector, and bench clamp. Each system includes a 2-Prong Clamp Head, 3-Prong Clamp Head, Spring Clamp Head, nickel-plated flex arm in 305 mm (12") or 457 mm (18") length, and utility wrench. 2-prong and 3-prong clamp heads also supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Description	Type	Dimension
Arm Length	Ultra Flex 12	305 mm (12")
	Ultra Flex 18	457 mm (18")
Arm Diameter		13 mm (0.51")
Max. Grip Size	2-Prong Clamp Head	75 mm (2.95")
	3-Prong Clamp Head	69 mm (2.72")
	Spring Clamp Head	13 mm (0.51")

2-Prong Clamp Head



3-Prong Clamp Head



Spring Clamp Head



Ultra Flex Support System with Base Plate

OHAUS Ultra Flex Support System with Base Plate is constructed of all metal and designed with a stable, painted steel base plate with chemical resistant black finish that fits easily on bench tops or in fume hoods. Base plate measures 127 × 127 × 12.7 mm (5 × 5 × 0.5").

Description	Item No.	List Price (USD)
Ultra Flex 12 with Base Plate	30400011	309
Ultra Flex 18 with Base Plate	30400014	371



Ultra Flex Support System with Lab-Frame Connector

Ultra Flex Support System with Lab-Frame Connector securely attaches to support stands, lab-frames, or any support rod up to 19 mm (0.75") in diameter. Ideal for use in fume hoods. Lab-frame connector is made of cast alloy.

Description	Item No.	List Price (USD)
Ultra Flex 12 with Lab-Frame Connector	30400013	238
Ultra Flex 18 with Lab-Frame Connector	30400016	284



Ultra Flex Support System with Bench Clamp

Ultra Flex Support System with Bench Clamp easily attaches to the side of your lab bench or counter top, which helps utilize more space in your lab. Bench clamp is constructed of aluminum.

Description	Item No.	List Price (USD)
Ultra Flex 12 with Bench Clamp	30400012	274
Ultra Flex 18 with Bench Clamp	30400015	326



SPECIALTY CLAMPS

A LabJaws Clamp for Every Application—Choose From Over 85 Options to Hold Everything In Your Lab

Bench Clamp

Aluminum bracket with arm fastens quickly and firmly to any convenient shelf. Accepts 13 mm (0.51") rods vertically and horizontally, to which ordinary rings and clamps attach, leaving bench surface clear for apparatus.

Description	Clamp Opening	Depth of Grip	Overall Length	Item No.	List Price (USD)
Bench Clamp	1.7" (43 mm)	2" (51 mm)	7.75" (197 mm)	30392311	249



Thumbscrew Knob

Thumbscrew tightening knob features a 32 mm (1.25") slot in the center of a nylon disc that will accept thumbscrews supplied with the LabJaws and UltraJaws Multi-Purpose Clamps, excluding the stainless steel version. Makes tightening of clamps easier on the hands and wrists.

Description	Overall Diameter	Thumbscrew Slot	Item No.	List Price (USD)
Thumbscrew Knob	64 mm (2.5")	32 mm (1.25")	30392192	49



Double Jaw Utility Clamp

Swivels 360° and locks securely in desired position. These 2-prong clamps have a medium and a large clamp on each end. Nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Description	Min. to Max. Grip Size	Prong Width	Overall Length	Item No.	List Price (USD)
Medium 2-Prong	0 to 76 mm (0 to 3")	23 mm (0.91")	222 mm (8.74")	30392236	50



CONNECTORS & HOLDERS

LabJaws Ensures Secure Support for Holding Your Labware and Apparatus with Over 130 Options

Regular Holder

Stainless steel electro-polished finish or nickel-plated zinc construction. Ideal for holding clamps to lab-frames. Use wherever clamping at 90° is required.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Stainless steel	0 to 18 mm (0 to 0.71")	30392219	63
Nickel-plated zinc	0 to 18 mm (0 to 0.71")	30392197	26



30392219
(shown in stainless steel)

Jumbo Holder

Stainless steel electro-polished finish or aluminum construction. Ideal for holding clamps to lab-frames or ring stands.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Stainless steel	0 to 21 mm (0 to 0.83")	30392357	63
Aluminum	0 to 21 mm (0 to 0.83")	30392196	38



30392357
(shown in stainless steel)

Heavy-Duty Holder

For mounting stirrers and other apparatus. Holder is constructed of strong aluminum alloy; fitted with oversized knobs for very secure positioning. Rods supported on 102 mm (4") long surface to avoid vibration and wobble.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Aluminum	6 to 24 mm (0.24 to 0.95")	30400045	106



30400045

Swivel Holder

Two rod holders with center swivel capacity allow tilting of clamps at any angle in parallel planes. Outside adjustment screw allows close proximity between items being held. Stainless steel electro-polished or nickel-plated zinc construction.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Stainless steel	0 to 19 mm (0 to 0.75")	30392228	100
Nickel-plated zinc	0 to 19 mm (0 to 0.75")	30392213	35



30392228
(shown in stainless steel)

All-Position Clamp Holder

Surpasses standard holding capabilities. The all-position clamp holder permits adjustment at any angle in any plane. Holders are set at 90° to each other, connected by a 90° connector, allowing 360° rotation. Nickel-plated zinc construction.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Nickel-plated zinc	0 to 19 mm (0 to 0.75")	30392248	68



30392248

Clamp Holder

Clamp is ideal for gripping 2 rods at 90°. Oversized thumbscrews make securing rods fast and easy.

Material	Min. to Max. Grip Size	Overall Length	Item No.	List Price (USD)
Aluminum	0 to 17 mm (0 to 0.66")	70 mm (2.75")	30392195	24



30392195

CONNECTORS & HOLDERS

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Hook Connector

Stainless steel electro-polished finish or nickel-plated zinc construction. Simple, versatile, and easy-to-use. Hook connectors allow one-handed assembly of two components with one adjustment screw.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Stainless steel	0 to 13 mm (0 to 0.51")	30392358	36
Nickel-plated zinc	0 to 13 mm (0 to 0.51")	30392258	15



30392358
(shown in stainless steel)

End-to-End Connector

Extend the length of lab-frame rods. Strong aluminum alloy connector permits end-to-end joining of rods. Precision boring of connector ensures perfect alignment of rods. Corrosion resistant. Comes with two set screws.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Aluminum	0 to 13 mm (0 to 0.51")	30392264	27

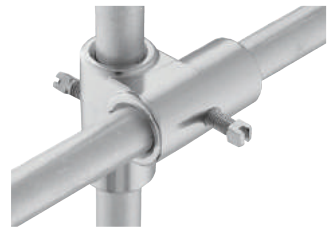


30392264

Rod End Connector

Holds rods firmly at 90°. Use when semi-permanent installations are required. Comes with two set screws and is precision bored for close fit. Stainless steel electro-polished finish or nickel-plated zinc construction.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Stainless steel	0 to 13 mm (0 to 0.51")	30392222	41
Nickel-plated zinc	0 to 13 mm (0 to 0.51")	30392256	18



30392222
(shown in stainless steel)

S-Connector

Stainless steel electro-polished finish or nickel-plated zinc construction. Clamp is ideal for constructing lab-frames or other supports requiring the connection of two perpendicular rods. Clamp connects two 13 mm (0.51") rods at a 90° angle and features separate adjustment screws for each rod location.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Stainless steel	0 to 13 mm (0 to 0.51")	30392355	38
Nickel-plated zinc	0 to 13 mm (0 to 0.51")	30392257	25



30392355
(shown in stainless steel)

Frame Connector (Pack of 12)

Improved contour delivers simplicity and strength. Angled adjustment screws allow easy set-up and prevents misalignment. Smooth, rounded surfaces are easy-to-clean. Small size maximizes lab-frame space. Bright dipped aluminum finish sealed with silicon for maximum protection against corrosion.

Material	Min. to Max. Grip Size	Item No.	List Price (USD)
Aluminum	0 to 13 mm (0 to 0.51")	30392255	231



30392255

CONNECTORS & HOLDERS

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Universal Stirrer Mounting Bracket

Use to mount stirrers and other devices to lab-frames. Aluminum mounting bracket with attachment screws.

Max. Weight Mounted	Min. to Max. Grip Size	Item No.	List Price (USD)
2.27 kg (5 lbs)	0 to 20 mm (0 to 0.78")	30392265	12

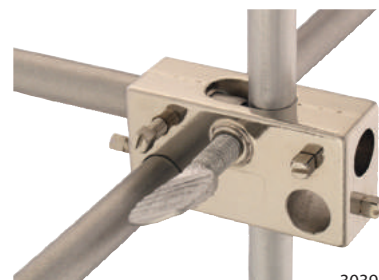


30392265

Multi-Rod Connector

Maximum adjustment capability within one connector. Two adjustment rods fit into the oval hole in the connector, preventing turning when tightened. Side and front 13 mm (0.51") holes allow creation of a variety of configurations. Nickel-plated zinc construction.

Min. to Max. Rod Size	Item No.	List Price (USD)
0 to 13 mm (0 to 0.51")	30392262	41

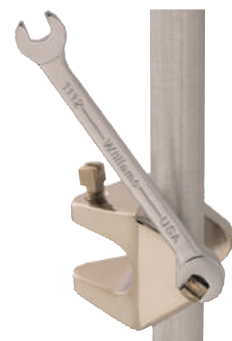


30392262

Wrench

Special adjusting wrench is for use with lab-frame items with set screws.

Length	Item No.	List Price (USD)
79 mm (3.11")	30392270	59

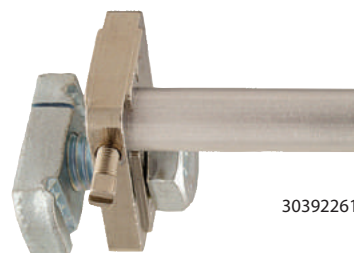


30392270

Channel Connector

Special connector fastens lab-frame rod to steel 41 mm (1.61") channels. Loosen the connector and slide up or down for easy adjustment of rod position.

Dimensions	Item No.	List Price (USD)
33 x 40 mm (1.3 x 1.58")	30392261	26



30392261

Horizontal Mounting Bars with Coupler

Threaded end for direct installation into channels. Comes with spring coupler for use in steel 41 mm (1.61") channels. Locking nut included. Use with steel channel frames.

Bar Length	Item No.	List Price (USD)
51 mm (2")	30392266	32
102 mm (4")	30392267	35
152 mm (6")	30392268	38
203 mm (8")	30392269	41



30392268

CONNECTORS & HOLDERS

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Lab Frame Foot

Stainless steel electro-polished finish or nickel-plated zinc construction. Strong, durable lab-frame foot is designed for mounting lab-frames permanently to bench tops, fume hoods, walls, and floors. Spilled fluids roll right off the smooth body contour, minimizing contamination and easing clean-ups. Features a set screw and includes three 19 mm (0.75") mounting screws.

Material	Min. to Max. Grip Size	Dimensions (Dia. x H)	Item No.	List Price (USD)
Stainless steel	0 to 0.51" (0 to 13 mm)	2.3 x 1.25" (58 x 32 mm)	30392356	55
Nickel-plated zinc	0 to 0.51" (0 to 13 mm)	2.3 x 1.25" (58 x 32 mm)	30392263	28



30392356
(shown in stainless steel)

Frame Rods

Everything you need to customize a lab-frame to your laboratory space. Quality construction throughout. Frame rods are available in many lengths and materials.

Aluminum

Center-less ground for a precise fit. These hard aluminum rods provide a smooth fit with lab-frames. Corrosion resistant with chamfered ends for easy location.

Stainless Steel

Heavy-duty, top-of-the-line rods provide maximum strength and durability. Constructed of 303 stainless steel.

Material	Rod Diameter	Rod Length	Item No.	List Price (USD)
Stainless Steel	0.51" (13 mm)	1.61" (41 mm)	30392293	12
Stainless Steel	0.51" (13 mm)	2" (51 mm)	30392294	12
Stainless Steel	0.51" (13 mm)	6" (152 mm)	30392295	15
Stainless Steel	0.51" (13 mm)	12" (305 mm)	30392296	25
Stainless Steel	0.51" (13 mm)	18" (457 mm)	30392297	33
Stainless Steel	0.51" (13 mm)	24" (610 mm)	30392298	41
Stainless Steel	0.51" (13 mm)	36" (914 mm)	30392299	56
Stainless Steel	0.51" (13 mm)	48" (1219 mm)	30392300	71
Stainless Steel	0.51" (13 mm)	60" (1524 mm)	30392301	83
Stainless Steel	0.51" (13 mm)	72" (1829 mm)	30392302	99
Stainless Steel	0.51" (13 mm)	96" (2438 mm)	30392303	129
Aluminum	0.51" (13 mm)	1.61" (41 mm)	30392271	8
Aluminum	0.51" (13 mm)	2" (51 mm)	30392272	11
Aluminum	0.51" (13 mm)	6" (152 mm)	30392273	13
Aluminum	0.51" (13 mm)	12" (305 mm)	30392274	19
Aluminum	0.51" (13 mm)	18" (457 mm)	30392275	20
Aluminum	0.51" (13 mm)	24" (610 mm)	30392276	25
Aluminum	0.51" (13 mm)	36" (914 mm)	30392277	27
Aluminum	0.51" (13 mm)	48" (1219 mm)	30392278	42
Aluminum	0.51" (13 mm)	60" (1524 mm)	30392279	48
Aluminum	0.51" (13 mm)	72" (1829 mm)	30392280	53
Aluminum	0.51" (13 mm)	96" (2438 mm)	30392281	67

Aluminum



Stainless steel



RODS, FRAMES, & SUPPORTS

LabJaws Ensures Secure Support for Holding Your Labware and Apparatus with Over 130 Options

LabJaws offers the widest choice of standard lab frames available, plus the accessories to custom-fit any laboratory with the right frame for the job. Standard Lab-Frame sets are available in five sizes. Options of traditional center-less ground aluminum, non-corroding fiberglass, or tough stainless steel rods are available. Nickel-plated zinc connectors and lab-frame feet are standard with all kits.

Corrosion-resistant lab-frames, rods, and connectors are available in premium stainless steel offering high chemical-resistance and durability. Aluminum offers reliable strength at a lighter weight.

Simplify lab set up—13 lab-frame kit options are available with four designed to fit in fume hoods. Build your own support system choosing from a wide selection of rods, bases, and connectors.

Lab-lifts are convenient adjustable lifting platforms. Exceptional strength and durability for holding small lab equipment such as glassware, hot plates, and water baths at different heights.

Small Lab-Frame

Vertical mounting, great for glassware set-ups in small laboratories or where space is limited. Frame measures 24 × 24" (610 × 610 mm). Base is 18" (457 mm) wide for stability. Base may be permanently mounted to bench top with screws (included).

Components:

- (8) 2" (51 mm) Rods
- (2) 18" (457 mm) Rods
- (8) 24" (610 mm) Rods
- (18) S-Connectors
- (4) Rod End Connectors
- (4) Lab-Frame Feet



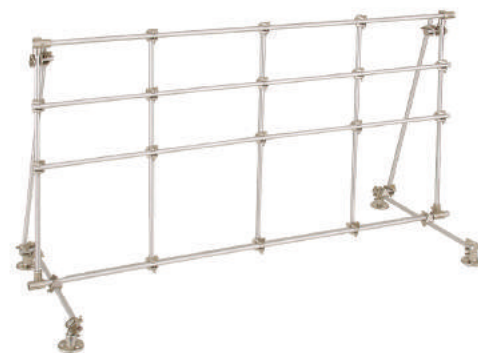
Material	Frame Dimensions	Base Dimensions	Item No.	List Price (USD)
Stainless Steel	24 × 24" (610 × 610 mm)	18" (457 mm) wide	30392323	860
Aluminum	24 × 24" (610 × 610 mm)	18" (457 mm) wide	30392304	505

Medium Lab-Frame

Horizontal or vertical mounting, convenient for distillation or general set-up. Frame measures 24 × 48" (610 × 1219 mm). Base is 18" (457 mm) wide for stability.

Components:

- (8) 2" (51 mm) Rods
- (2) 18" (457 mm) Rods
- (7) 24" (610 mm) Rods
- (4) 48" (1219 mm) Rods
- (35) S-Connectors
- (4) Rod End Connectors
- (4) Lab-Frame Feet



Material	Frame Dimensions	Base Dimensions	Item No.	List Price (USD)
Stainless Steel	24 × 48" (610 × 1219 mm)	18" (457 mm) wide	30392324	1220
Aluminum	24 × 48" (610 × 1219 mm)	18" (457 mm) wide	30392305	635

RODS, FRAMES, & SUPPORTS

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Large Lab-Frame

This 48 × 48" (1219 × 1219 mm) frame is ideal for complex glassware set-ups. Base is 18" (457 mm) wide for stability.

Components:

- (10) 2" (51 mm) rods
- (3) 18" (457 mm) rods
- (2) 36" (914 mm) rods
- (10) 48" (1219 mm) rods
- (38) S-Connectors
- (4) Rod End Connectors
- (6) Lab-Frame Feet



Material	Frame Dimensions	Base Dimensions	Item No.	List Price (USD)
Stainless Steel	48 × 48" (1219 × 1219 mm)	18" (457 mm) wide	30392325	1715
Aluminum	48 × 48" (1219 × 1219 mm)	18" (457 mm) wide	30392306	980

Extra-Large Lab-Frame

Versatile, adaptable Extra-Large Lab-Frame measures 48 × 72" (1219 × 1829 mm) and may be used either horizontally or vertically.

Components:

- (6) 2" (51 mm) rods
- (6) 12" (305 mm) rods
- (2) 24" (610 mm) rods
- (7) 48" (1219 mm) rods
- (5) 72" (1829 mm) rods
- (45) S-Connectors
- (4) Rod End Connectors
- (8) Lab-Frame Feet



Material	Frame Dimensions	Stainless Steel Item No.	List Price (USD)
Stainless Steel	48 × 72" (1219 × 1829 mm)	30392326	1885
Aluminum	48 × 72" (1219 × 1829 mm)	30392307	1355

RODS, FRAMES, & SUPPORTS

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Heavy-Duty Lab-Frame

Floor mounted, free-standing unit is specifically designed for heavy-duty work such as pilot plant set-ups. Outside frame is constructed of a strong, but lightweight steel channel. Interior lattice uses a horizontal channel connector; one end accommodates the rod, the other end fits into the channel and locks tightly with a bolt. Loosen the bolt, and the connector slides easily along the channel track for simple lattice adjustment. Entire apparatus is supported on sturdy, counter-weighted cast iron feet, which may be bolted to the floor for added stability required in top-heavy installations.

Components:

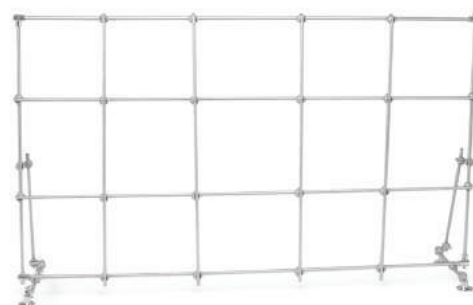
- (5) 48" (1219 mm) rods
- (3) 72" (1829 mm) rods
- (15) S-Connectors
- (16) Channel Connectors
- (24) Clamping Nuts
- (2) 21.7" (551 mm) Cast Iron Feet
- (1) Frame Kit
- (1) Wrench



Material	Frame Dimensions	Overall Dimensions	Item No.	List Price (USD)
Stainless Steel	48 x 72" (1219 x 1829 mm)	75 x 72" (1905 x 1829 mm)	30392328	3660
Aluminum	48 x 72" (1219 x 1829 mm)	75 x 72" (1905 x 1829 mm)	30392309	1960

Fume Hood Kits

Choose from four kits specifically designed to fit within laboratory fume hoods. All components are constructed of stainless steel with the exception of the Frame Connectors which are made of aluminum with a silicon finish.



4' (1.22 m) Fume Hood Kit Components: • (8) 2" (51 mm) rods • (2) 12" (305 mm) rods • (2) 18" (457 mm) rods • (4) 36" (914 mm) rods • (4) 38" (965 mm) rods • (30) Frame Connectors • (4) Rod End Connectors • (4) Lab-Frame Feet Frame: 36 × 38" (914 × 965 mm) Base: 12" (305 mm) wide		5' (1.52 m) Fume Hood Kit Components: • (8) 2" (51 mm) rods • (2) 12" (305 mm) rods • (2) 18" (457 mm) rods • (5) 36" (914 mm) rods • (4) 50" (1270 mm) rods • (34) Frame Connectors • (4) Rod End Connectors • (4) Lab-Frame Feet Frame: 36 × 50" (914 × 1270 mm) Base: 12" (305 mm) wide		6' (1.83 m) Fume Hood Kit Components: • (8) 2" (51 mm) rods • (2) 12" (305 mm) rods • (2) 18" (457 mm) rods • (6) 36" (914 mm) rods • (4) 62" (1575 mm) rods • (38) Frame Connectors • (4) Rod End Connectors • (4) Lab-Frame Feet Frame: 36 × 62" (914 × 1575 mm) Base: 12" (305 mm) wide		8' (2.44 m) Fume Hood Kit Components: • (10) 2" (51 mm) rods • (3) 12" (305 mm) rods • (2) 18" (457 mm) rods • (8) 36" (914 mm) rods • (4) 86" (2184 mm) rods • (45) Frame Connectors • (4) Rod End Connectors • (6) Lab-Frame Feet Frame: 36 × 86" (914 × 2184 mm) Base: 12" (305 mm) wide	
Item No.	30392329	30392330	30392331	30392332			
List Price (USD)	1100	1195	1285	1470			

RODS, FRAMES, & SUPPORTS

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Support Stands

Support Stands are made entirely of 303 stainless steel. They have a durable base that can accommodate vessels up to 18" (457 mm) in diameter within the "U". The base area is 17.75" (451 mm) across × 10.5" (267 mm) deep overall. The stainless steel support rod is 0.63" (16 mm) in diameter and is screwed to the support base. Two additional threaded holes in the base legs accommodate rods, enabling the stand to support two mixers. The "U" shape of the base should be turned from the mixing apparatus when the two outside rods are in use. This balances the weight, preventing the base from tipping.

Description	Item No.	List Price (USD)
Support Stand with 23" (584 mm) Rod	30400030	334
Support Stand with 28" (711 mm) Rod	30400031	351
Support Stand with 36" (914 mm) Rod	30400032	403
Support Stand with 40" (1016 mm) Rod	30400033	425
Support Stand with 48" (1219 mm) Rod	30400034	448
Support Stand with 60" (1524 mm) Rod	30400035	496



Support Stand

Support Stand Stabilizer Knobs

Support Stand Stabilizer Knobs can be added to the two additional threaded holes in the base legs to secure the stand to a bench top.

Description	Item No.	List Price (USD)
Support Stand Stabilizer Knobs (2 per pack)	30400044	68



Support Stand Stabilizer Knobs

Heavy-Duty Support Stands

Heavy-Duty Support Stands have a four point cast iron base with stainless steel support rod. They are designed to accommodate vessels up to 12" (30.5 cm) in diameter to sit close to the support rod. They have rubber cushions on each of the four corners. The base area is 16.5" (41.9 cm) across × 12" (30.5 cm) deep overall. They are ideal for Heavy-Duty Mixers, page 162–163.

Description	Item No.	List Price (USD)
Heavy-Duty Support Stand with 18" (457 mm) Rod	30392334	329
Heavy-Duty Support Stand with 23" (584 mm) Rod	30392335	368
Heavy-Duty Support Stand with 28" (711 mm) Rod	30392336	388
Heavy-Duty Support Stand with 36" (914 mm) Rod	30392337	443
Heavy-Duty Support Stand with 40" (1016 mm) Rod	30392338	470
Heavy-Duty Support Stand with 48" (1219 mm) Rod	30392339	493
Heavy-Duty Support Stand with 60" (1524 mm) Rod	30392340	550



Heavy-Duty Support Stand

Replacement Support Rods

Description	Diameter	Item No.	List Price (USD)
18" (457 mm) Stainless Steel Rod	0.63" (16 mm)	30400036	112
23" (584 mm) Stainless Steel Rod	0.63" (16 mm)	30400037	123
28" (711 mm) Stainless Steel Rod	0.63" (16 mm)	30400038	136
36" (914 mm) Stainless Steel Rod	0.63" (16 mm)	30400039	172
40" (1016 mm) Stainless Steel Rod	0.63" (16 mm)	30400040	197
48" (1219 mm) Stainless Steel Rod	0.63" (16 mm)	30400041	217



Replacement Support Rods

RODS, FRAMES, & SUPPORTS

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Cast Iron Support Stands

Cast iron support stand bases are constructed with black enamel finish for chemical resistance and durability. All bases feature a built-in support rod holder with locking knob that accepts a 0.51" (13 mm) diameter support rod. U-shaped base features three built-in support rod holders and accommodates vessels up to 5" (127 mm) in diameter.

NOTE: Support rods are not included.

Rectangular Base Support Stand, Cast Iron

Description	Dimensions	Item No.	List Price (USD)
Rectangular Base (only)	4 × 6" (102 × 152 mm)	30392359	46
Rectangular Base (only)	5 × 8" (127 × 203 mm)	30392360	73
Rectangular Base (only)	6 × 9" (152 × 229 mm)	30392361	95
Rectangular Base (only)	8 × 10" (203 × 254 mm)	30392362	138



Tripod Base Support Stand, Cast Iron

Description	Overall Footprint Diameter	Item No.	List Price (USD)
Tripod Base (only)	14.75" (375 mm)	30392363	88



U-Shaped Base Support Stand, Cast Iron

Description	Dimensions	Item No.	List Price (USD)
U-Shaped Base (only)	7 × 7" (178 × 178 mm)	30392364	46



Aluminum Support Rods

Description	Diameter	Item No.	List Price (USD)
12" (305 mm) Aluminum Rod	0.51" (13 mm)	30392274	19
18" (457 mm) Aluminum Rod	0.51" (13 mm)	30392275	20
24" (610 mm) Aluminum Rod	0.51" (13 mm)	30392276	25
36" (914 mm) Aluminum Rod	0.51" (13 mm)	30392277	27



Stainless Steel Support Rods

Description	Diameter	Item No.	List Price (USD)
12" (305 mm) Stainless Steel Rod	0.51" (13 mm)	30392296	25
18" (457 mm) Stainless Steel Rod	0.51" (13 mm)	30392297	33
24" (610 mm) Stainless Steel Rod	0.51" (13 mm)	30392298	41
36" (914 mm) Stainless Steel Rod	0.51" (13 mm)	30392299	56



RODS, FRAMES, & SUPPORTS

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Round Support Plate

Aluminum plate supports beakers, mantles and petri dishes. Fits standard lab-frames using connectors or holders, shown on pages 192–194.

Description	Distance from Rod	Item No.	List Price (USD)
6" (152 mm)	2.6" (66 mm)	30392342	84



Support Plates

Designed to hold hotplates, stirrers, hotplate-stirrers, and other apparatus to lab-frames or ring stands. Aluminum construction offers strength and durability. Support plates include a non-skid rubber mat and a built-in holder that grips rods up to 0.75" (19 mm) in diameter.

Size	Plate Dimensions	Distance from Rod	Item No.	List Price (USD)
Small	9.5 × 6.5" (241 × 165 mm)	1.9" (48 mm)	30392349	153
Medium	12.75 × 9" (324 × 229 mm)	1.9" (48 mm)	30392350	245
Large	15.75 × 12" (400 × 305 mm)	1.9" (48 mm)	30392351	306



OHAUS Aluminum Lab-Lifts

Lab-lifts are convenient adjustable lifting platforms. Exceptional strength and durability for holding small lab equipment such as glassware, hot plates, and water baths at different heights.

Aluminum Lab-Lifts provide stable height adjustment for various items in the lab such as flasks, baths, and small equipment. Top and bottom decks are constructed of anodized aluminum. Internal supports and drive screws are constructed of stainless steel. Oversized sure-grip adjustment knobs provide smooth and accurate height adjustment. Lab-Lifts accept optional Support Rod Kit which mounts to the upper deck.

Deck Size	Min. to Max. Height	Max. Load*	Item No.	List Price (USD)
4 × 4" (102 × 102 mm)	2.5 to 5" (64 to 127 mm)	66 lbs (29.94 kg)	30400007	188
6 × 6" (152 × 152 mm)	3 to 9.75" (76 to 248 mm)	132 lbs (59.87 kg)	30400008	231
8 × 8" (203 × 203 mm)	3 to 9.75" (76 to 248 mm)	176 lbs (79.83 kg)	30400009	277
10 × 10" (254 × 254 mm)	3.5 to 13" (89 to 330 mm)	186 lbs (84.37 kg)	30400010	364

*NOTE: Maximum load rating represents static weight only. Static weight is the amount a unit can hold, not lift.



OPTIONAL ACCESSORIES

17" Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 17" (432 mm) threaded vertical support rod to the upper deck of a 6 × 6", 8 × 8", 10 × 10", 12 × 12" or 16 × 16" Lab-Lift by screwing the rod into the pre-drilled hole.

17" Support Rod Kit includes:

- 1 - 17" (432 mm) Stainless Steel Rod
- 1 - Jam Nut
- 1 - Flat Washer



Description	Rod Diameter	Item No.	List Price (USD)
17" Support Rod Kit	0.51" (13 mm)	30400050	37

RODS, FRAMES, & SUPPORTS

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OHAUS Heavy-Duty Lab-Lifts

These Heavy-Duty, Stainless Steel Lab-Lifts are ultra-stable lifting platforms with exceptional strength and durability. Constructed of stainless steel, Lab-Lifts are designed for use in extreme environments and high load applications. Equipped with oversized, sure-grip adjustment knobs that provide extra leverage for easy height adjustments. Durable construction allows lifts to be autoclaved or chemically cleaned. Ideal for use in fume hoods or bench tops and holds a variety of items such as glassware, hotplates, baths, and magnetic stirrers.

Deck Size	Min. to Max. Height	Max. Load*	Item No.	List Price (USD)
3 × 3" (76 × 76 mm)	2.5 to 5" (64 to 127 mm)	100 lbs (45.36 kg)	30400000	202
4 × 4" (102 × 102 mm)	2.5 to 5" (64 to 127 mm)	100 lbs (45.36 kg)	30400001	246
6 × 6" (152 × 152 mm)	3 to 9.75" (76 to 248 mm)	133 lbs (60.33 kg)	30400002	253
8 × 8" (203 × 203 mm)	3 to 9.75" (76 to 248 mm)	227 lbs (102.97 kg)	30400003	340
10 × 10" (254 × 254 mm)	3.5 to 13" (89 to 330 mm)	247 lbs (112.04 kg)	30400004	369
12 × 12" (305 × 305 mm)	4 to 19.5" (102 to 495 mm)	100 lbs (45.36 kg)	30400005	975
16 × 16" (406 × 406 mm)	4 to 19.5" (102 to 495 mm)	100 lbs (45.36 kg)	30400006	1725

*NOTE: Maximum load rating represents static weight only. Static weight is the amount a unit can hold, not lift.

OPTIONAL ACCESSORIES

17" Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 17" (432 mm) threaded vertical support rod to the upper deck of a 6 × 6", 8 × 8", 10 × 10", 12 × 12" or 16 × 16" Lab-Lift by screwing the rod into the pre-drilled hole.

17" Support Rod Kit includes:

- 1 - 17" (432 mm) Stainless Steel Rod
- 1 - Jam Nut
- 1 - Flat Washer



Description	Rod Diameter	Item No.	List Price (USD)
17" Support Rod Kit	0.51" (13 mm)	30400050	37

Ratchet Tool

Designed to add extra leverage to your 12 × 12" or 16 × 16" Lab-Lift. This recommended Ratchet Tool easily attaches to the actuating rod to allow easy, accurate adjustments.

Description	Item No.	List Price (USD)
Ratchet Tool	30400049	73



RODS, FRAMES, & SUPPORTS

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Cylinder Bench Clamps

Rugged cast aluminum clamps safely secure gas cylinders to benches, tables or other flat surfaces up to 2.5" (64 mm) thick. The 1" (25 mm) wide, 54" (1372 mm) long nylon strap features a nickel-plated, non-slip spring catch and buckle for easy adjustment around cylinders from 4 to 14" (102 to 356 mm) in diameter. Models 711 and 716 available with or without a "Secure Cylinder" safety message strap.

Model 711 Bench Clamp

This bench clamp has a large tightening handle for mounting to any flat surface up to 2.5" (64 mm) thick. A nylon pad prevents damage to the bench or table surface. Two tapered mounting screw holes are provided for permanent attachment to bench-top.



Safety Message Strap

Description	Dimensions L x W x H (closed)	Cylinder Diameter	Item No.	List Price (USD)
Model 711 Bench Clamp with Strap	3.25 x 5.25 x 6.5" (83 x 133 x 165 mm)	4 to 14" (102 to 356 mm)	30400020	75
Model 711 Bench Clamp with Safety Message Strap	3.25 x 5.25 x 6.5" (83 x 133 x 165 mm)	4 to 14" (102 to 356 mm)	30400021	88

Model 716 Bench Clamp

This bench clamp is similar to Model 711, but includes a sturdy safety chain for extra security. Chain measures 49" (1245 mm).



Safety Message Strap

Description	Dimensions L x W x H (closed)	Cylinder Diameter	Item No.	List Price (USD)
Model 716 Bench Clamp with Strap & Chain	3.25 x 5.25 x 6.5" (83 x 133 x 165 mm)	4 to 14" (102 to 356 mm)	30400026	81
Model 716 Bench Clamp with Safety Message Strap & Chain	3.25 x 5.25 x 6.5" (83 x 133 x 165 mm)	4 to 14" (102 to 356 mm)	30400027	97

Model 712 Heavy-Duty Bench Clamp

This bench clamp has two screw clamps to tighten for extra firm mounting to any flat surface up to 1.75" (45 mm) thick with a 1.25" (32 mm) overhang. Especially convenient for temporary storage situations. Rugged cast aluminum bench clamp features a 1" (25 mm) wide, 54" (1372 mm) long nylon strap with nickel-plated, non-slip spring catch buckle to hold cylinders from 4 to 14" (102 to 356 mm) in diameter. This clamp is not available with a safety message strap.



Description	Dimensions L x W x H (closed)	Cylinder Diameter	Item No.	List Price (USD)
Model 712 Heavy-Duty Bench Clamp with Strap	3.25 x 6 x 4.5" (83 x 152 x 114 mm)	4 to 14" (102 to 356 mm)	30400022	78

RODS, FRAMES, & SUPPORTS

LabJaws Ensures Secure Support for Holding Your Labware and Apparatus with Over 130 Options

Model 715 Wall Bracket

Cylinder wall-mount brackets are constructed of cast aluminum and contoured to allow cylinders to fit firmly along the support edge. Recessed screw holes at each side of the bracket allow for easy wall mounting. Features a 1" (25 mm) wide, 54" (1372 mm) long nylon strap with nickel-plated, non-slip spring catch and buckle for fast, easy adjustment. Available with or without a "Secure Cylinder" safety message strap. For cylinders from 4 to 14" (102 to 356 mm) in diameter.



Safety Message Strap

Description	Dimensions L x W x H	Cylinder Diameter	Item No.	List Price (USD)
Model 715 Wall Bracket with Strap	1.88 x 8.13 x 4.63" (48 x 206 x 118 mm)	4 to 14" (102 to 356 mm)	30400024	67
Model 715 Wall Bracket with Safety Message Strap	1.88 x 8.13 x 4.63" (48 x 206 x 118 mm)	4 to 14" (102 to 356 mm)	30400025	81

Model 717 Wall Bracket

This wall bracket is similar to Model 715, but includes a sturdy safety chain for extra security. Chain measures 49" (1245 mm).



Safety Message Strap

Description	Dimensions L x W x H	Cylinder Diameter	Item No.	List Price (USD)
Model 717 Wall Bracket with Strap & Chain	1.88 x 8.13 x 4.63" (48 x 206 x 118 mm)	4 to 14" (102 to 356 mm)	30400028	75
Model 717 Wall Bracket with Safety Message Strap & Chain	1.88 x 8.13 x 4.63" (48 x 206 x 118 mm)	4 to 14" (102 to 356 mm)	30400029	92

RODS, FRAMES, & SUPPORTS

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Model 701 PVC Coated Stand

The PVC coated stand has a flat bottom support so it can't "ride up" on the cylinder. Includes an adjustable 1" (25 mm) wide, 54" (1372 mm) long nylon strap with nickel-plated, non-slip spring catch and buckle for fast, easy adjustment to keep the cylinder safely in place against upper support bar. Lower support bar stops cylinder shift. The PVC coating prevents marring of the cylinder surface. This clamp is not available with a safety message strap.



Description	Dimensions L x W x H	Cylinder Diameter	Item No.	List Price (USD)
Model 701 PVC Coated Stand	17.25 x 17.25 x 10.75" (438 x 438 x 273 mm)	7 to 10" (178 x 254 mm)	30400017	520

Model 703 Stand

This cast aluminum stand hinges open and has 4 thumbscrews to tightly grip cylinders from 8 to 9" (203 to 229 mm) in diameter.



Description	Dimensions (Dia. x H)	Cylinder Diameter	Item No.	List Price (USD)
Model 703 Stand	18.25 x 6" (464 x 152 mm)	8 to 9" (203 x 229 mm)	30400018	394

Model 704 Adjustable Stand

Heavy-duty, cast aluminum stand with adjustable "L" brackets hold cylinders from 6 to 9.25" (152 to 235 mm) in diameter. Hinges open for installation without lifting the cylinder or disturbing connections. Prevents accidental tipping. Hinges open for easy, no-lifting installation.



Description	Dimensions (Dia. x H)	Cylinder Diameter	Item No.	List Price (USD)
Model 704 Adjustable Stand	18.5 x 7.5" (470 x 191 mm)	6 to 9.25" (152 x 235 mm)	30400019	457

Model 713 Portable Stand

This cast iron portable cylinder stand offers a sturdy cylinder stand and a convenient cylinder dolly all-in-one. This cylinder stand is designed in two interlocking halves and can be installed without lifting the tank. Built-in rubber wheels for easy mobility. Three thumbscrews tightly grip cylinder.



Description	Dimensions (Dia. x H)	Cylinder Diameter	Item No.	List Price (USD)
Model 713 Portable Stand	15.5 x 3" (394 x 76 mm)	7 to 9.25" (178 x 235 mm)	30400023	446

FLOW CONTROL CLAMPS

LabJaws Ensures Secure Support for Holding Your Labware and Apparatus with Over 130 Options

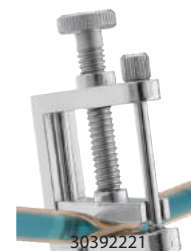
LabJaws flow control devices offer selection and quality. They are finely machined to deliver accurate regulation or interruption of fluid flow. Every flow control device resists corrosion and rust. Hosecocks offer easy one-hand operation. Convex bearing surfaces and rounded edges protect tubing. Pinchcocks are designed to quickly start and stop flow and provide complete closure without damaging tubing. Operated with a simple squeeze. Nickel-plated construction (unless otherwise noted).

Regular Hosecock

Adjustment screw with oversized head for accurate regulation. Built-in side lugs for foot mounting. Tubing retainer screw.

Stainless Steel

Min. to Max. Grip	Dimensions (W × H - open)	Item No.	List Price (USD)
0 to 17 mm (0 to 0.67")	37 × 62 mm (1.46 × 2.44")	30392221	69



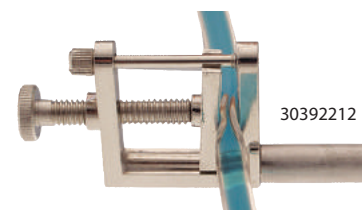
Nickel-Plated Zinc

Min. to Max. Grip	Dimensions (W × H - open)	Item No.	List Price (USD)
0 to 17 mm (0 to 0.67")	37 × 62 mm (1.46 × 2.44")	30392210	28

Hosecock Extension Clamp

Similar to regular hosecock but with 145 mm (5.7") bottom mounted extension rod for attachment to frames and rods.

Min. to Max. Grip	Arm Length	Arm Dia.	Overall Length	Item No.	List Price (USD)
0 to 17 mm (0 to 0.67")	145 mm (5.71")	8 mm (0.32")	175 mm (6.89")	30392212	56



Hosecock Foot

Add this option to Regular Hosecock (916062 or 916361) for bench or table mounting. Includes two mounting screws.

Diameter	Item No.	List Price (USD)
27 mm (1.06")	30392211	10



Heavy-Duty Pinchcock

Equipped with heavy-duty spring for tough jobs. Ensures complete closure.

Min. to Max. Grip	Clamp Height	Item No.	List Price (USD)
0 to 11 mm (0 to 0.43")	48 mm (1.89")	30392246	29



MISC. NON-ELECTRICAL PRODUCTS

LabJaws Ensures Secure Support for Holding Your Labware and Apparatus with Over 130 Options

Inoculating Turntables

OHAUS hand-operated inoculating turntables produce almost concentric circles of bacterial colonies that are evenly distributed across petri dishes. Cast iron turntables are coated with gray baked acrylic enamel.

The 76 mm (3") high, small turntable accommodates 100 mm petri dishes. It has a tripod base to bring work approximately to eye level. It has a center disk covered with non-skid rubber lining.

The large turntable accommodates 100 mm or 150 mm petri dishes. It has a height of only 32 mm (1.26"), ideal for steadying a forearm on the work surface while plating. The large turntable contains two circular sections. The top section has a raised gripper lip as well as a recessed center disk covered with non-skid rubber lining.

Description	Dimensions (Dia. × H)	Item No.	List Price (USD)
Small Turntable	4.49 × 3.03" (114 × 77 mm)	30400046	181
Large Turntable	5.91 × 1.26" (150 × 32 mm)	30400047	216



30400046



30400047

Slide Staining Rack

Constructed of stainless steel, the OHAUS Slide Staining Rack will resist corrosion under normal use. Adjustable to fit trays or sinks up to 533 mm (21") inside.

Description	Dimensions (L × W)	Item No.	List Price (USD)
Slide Staining Rack	23.74 × 3.5" (603 × 89 mm)	30400048	76



30400048

Airejector

Rapid air removal evacuates 1 liter of air to 711 mm (28") of vacuum in 30 seconds. Works with compressed air sources to 60 psi. Nickel-plated construction.

Description	Length	Item No.	List Price (USD)
Airejector	5.51" (140 mm)	30392367	122



30392367

NOTES

Laboratory Instruments



Streamline your water quality analysis applications using the intuitive OHAUS Starter Series line of bench, portable, and pen meters. With the ability to handle applications from pH to Dissolved Oxygen—and everything in between—the Starter Series boasts powerful performance that goes where you go.



	Starter Series Bench Meters					Starter Series Portable Meters						Starter Series Pen Meters						
	Starter 5000	Starter 3100M	Starter 3100	Starter 3100C	Starter 2100	Starter 300	Starter 300C	Starter 300D	Starter ST400	Starter ST400M	Starter ST400D	pH meters	ORP meters	Conductivity meters	DO meters	Salinity meters	TDS meters	Multi meters
Measurement Range	-2.000 to 20.000 pH -30°C to 130 °C	-2.00 to 20.00 pH 0.0 µS/cm to 199.9mS/cm -5°C to 110 °C	-2.00 to 16.00 pH -5°C to 110 °C	00.0 µS/cm to 199.9 mS/cm 0 °C to 100 °C	-2.00 to 16.00 pH 0 °C to 100 °C	0.00 to 14.00 pH 0 °C to 100 °C	0.0 µS/cm to 199.9 mS/cm 0 °C to 100 °C	0.0 to 199.9% 200 to 400% 0 °C to 50 °C	-2.00~16.00 pH -1999~1999 mV -5°C~110 °C	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Conductivity 0.0 µS/cm ... 199.9 mS/cm TDS 0.1 mg/l ... 199.9 g/l Salinity 0.0 ... 99.9 psu Resistivity 0 ... 20MQ-cm Temperature -5 °C ... 110 °C	0.0 to 200.0% 0 °C to 50 °C	0.00 to 14.00 pH*	-1000mV to 1000mV	0.0 to 199.9 µS/cm*	0.0 to 19.9 mg/L	0.0 to 80.0 ppt*	0 to 1000 mg/L*	0.00 to 14.00 pH, 0-1999 µS/cm, 0-19.99 mS/cm, 0-1000 mg/L, 0.0-10.0 ppt
Input	BNC	BNC Mini-Din	BNC	Mini-Din	BNC	BNC	Mini-Din	BNC	BNC	BNC	Mini-DIN							
Automatic Temp. Compensation	●	●	●	●	●	●	●	●	●	●	●	●*	●*	●*	●*	●*	●*	●
Manual Temp. Compensation	●	●	●		●	●		●	●	●								
Battery Power						●	●	●	●	●	●	●	●	●	●	●	●	●
1 Pt. Calibration	●	●	●	●	●	●	●	●	●	●	●	●*	●*	●*	●*	●*	●*	●
2 Pt. Calibration	●	●	●		●	●		●	●	●	●	●*						
≥3 Pt. Calibration	●	●	●			●			●	●		●*						●
Memory	●	●		●		●	●	●	●	●	●							
Backlit LCD	●	●	●	●					●	●	●							
LCD					●	●	●	●				●	●	●	●	●	●	●
Touchscreen	●																	
Mechanical Keys		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
USB	●								●	●								
RS232	●	●	●	●														
USB Host	●												●					
GLP / Time / Date	●					●												
Multi Languages	●								●	●								
IP Protection	IP54					IP54	IP54	IP54	IP67	IP67	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Stand-alone Electrode Holder	●	●	●	●														
Quick Reference Operation Guide	●	●	●	●	●													
In-Use Cover	●	●	●	●														
Hold Function					●	●	●	●	●	●	●	●*	●	●	●	●	●	●
Auto Shut Off									●	●		●	●	●	●	●	●	●
Page No.	217	218	219	220	221	222	223	224	225	226	227	228	228	228	228	228	228	228

* on specific models

	Bench Meters					Portable Meters						Pen Meters													
	ST5000	ST3100M	ST3100	ST3100C	ST2100	ST400	ST400M	ST400D	ST300	ST300C	ST300D	ST10	ST20	ST20M-B	ST20M-C	ST10C	ST20C	ST10T	ST20T	ST10S	ST20S	ST10R	ST20R	ST20D	
pH	●	●	●		●	●			●			●	●	●	●										
Conductivity		●		●			●			●				●	●	●	●								
TDS		●		●			●			●				●				●	●						
ORP	●	●	●		●	●	●		●													●	●		
Salinity		●		●			●								●					●	●				
Resistivity		●					●																		
DO								●			●														●
Temperature	●	●	●	●	●	●	●	●	●	●	●		●	●	●		●		●		●		●	●	●

STARTER 5000 PH BENCH

High Performance Bench Meter for Universal pH Applications

Display

Backlit liquid crystal display (LCD), touchscreen

Communication

RS232 and USB (included), GLP/GMP data output with real-time clock

Construction

ABS housing, standalone electrode holder, replaceable in-use cover

Design Features

3 endpoint modes, continuous measurement mode, up to 9 point calibration, 1,000 measurement memory



A 1000-item library allows for easy recall from data storage. Flexible pH analysis from 10 sensors for calibration storage, 1 self-defined and 8 pre-defined buffer groups, 3 endpoint modes & GLP mode.

A user-friendly bench meter with an innovative design, including an adjustable standalone electrode holder and large touch-screen, backlit LCD display.

Featuring a USB port, IP54 housing and in-use cover, this flexible and smooth-operating bench meter is built to last.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST5000-B	N/A	pH -2.000...20.000 ORP -2000.00...+2000.00 mV Temperature -30 °C...130 °C	pH 0.1/0.01/0.001 ORP 1/0.1/0.01 mV Temperature 0.1 °C	30129895	1335
ST5000-F	ST350	pH -2.000...20.000 ORP -2000.00...+2000.00 mV Temperature -30 °C...130 °C	pH 0.1/0.01/0.001 ORP 1/0.1/0.01 mV Temperature 0.1 °C	30129896	1420

Accessories	Item No.	List Price (USD)
Holder, Stand Alone, Electrode	30058733	88
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	39
Printer, Impact, SF40A, AM	30064203	990
pH electrolyte	30059255	34
pH electrode protection	30059256	27
In-Use Cover, ST5000	30129897	28

Accessories	Item No.	List Price (USD)
Buffer pH1.68 250 ml	30100424	22
Buffer pH4.01 250 ml	30100425	18
Buffer pH6.86 250 ml	30100426	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH9.18 250 ml	30100428	18
Buffer pH10.01 250 ml	30100429	18
Buffer pH12.45 250 ml	30100440	22
Buffer Powder pH4.01; 7.00; 10.01	83033971	24



STARTER 3100M BENCH

The Versatile Multi-Parameter Bench Meter

Display

Backlit liquid crystal display (LCD)

Communication

RS232 Interface Kit (Included)

Construction

ABS housing, standalone electrode holder, disposable in-use cover

Design Features

A 99-item memory for pH and/or conductivity measurements makes for efficient data documentation. RS232 interface allows for connection to external devices for data storage or transfer



Combining all of the features from the benchtop pH and conductivity meter into one multi-meter, makes testing pH, ORP, conductivity, salinity, TDS, resistivity, temperature a seamless process.

A user-friendly bench meter with an innovative design, including an adjustable standalone electrode holder and large backlit LCD display.

A 99-item memory for pH and/or conductivity measurements makes for efficient data documentation. RS232 interface allows for connection to external devices for data storage or transfer.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST3100M-B	N/A	pH -2 to 20 pH Conductivity 00.0 μ S/cm – 199.9 mS/cm TDS 0.1mg/L...199.9 g/l ORP -2000...+2000mV Salinity 0-100 psu Resistivity 0...20MQ $\cdot$ cm Temperature -5 $^{\circ}$ C – 110 $^{\circ}$ C	pH 0.01 pH Conductivity 0.01 μ S/cm TDS 0.01 mg/L ORP 1mV Salinity 0.01 psu Resistivity 0.01 Ω $\cdot$ cm Temperature 0.1 $^{\circ}$ C	30276082	815
ST3100M-F	ST310, STCON3	Same as ST3100M-B	Same as ST3100M-B	30276083	970
ST3100M-N	ST230, STTEMP30, STCON3	Same as ST3100M-B	Same as ST3100M-B	30332140	970

Accessories	Item No.	List Price (USD)
Holder, Stand Alone, Electrode	30058733	88
Printer, Impact, SF40A, AM	30064203	990
RS232 Kit, STX SPX ST3100M	30268982	167
USB Kit, Device, STX SPX ST3100M	30268984	116
pH electrolyte	30059255	34
pH electrode protection	30059256	27
In-Use-Cover, STARTER	30058734	24
Standard Conduct 10 μ S/cm 250 ml	30100441	22
Standard Conduct 84 μ S/cm 250 ml	30100442	22
Standard Conduct 1413 μ S/cm 250 ml	30100443	22
Standard Conduct 12.88mS/cm 250 ml	30100444	22

Accessories	Item No.	List Price (USD)
Buffer pH4.01 250 ml	30100425	18
Buffer pH6.86 250 ml	30100426	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH9.18 250 ml	30100428	18
Buffer pH10.01 250 ml	30100429	18
Buffer pH12.45 250 ml	30100440	22
Buffer pH1.68 250 ml	30100424	22
Buffer Powder pH4.01;7.00;10.01	83033971	24



STARTER 3100 PH BENCH

Smart pH Bench Meter for Standard Laboratory Applications

Display

Backlit liquid crystal display (LCD)

Communication

RS232 (Included)

Construction

ABS housing, standalone electrode holder, replaceable in-use cover

Design Features

99 measurement memory, automatic and manual endpoint functions, automatic and manual temperature compensation, quick reference guide



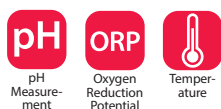
Auto buffer recognition with three different buffer groups makes it easy to avoid errors during the calibration process.

A user-friendly bench meter with an innovative design, including an adjustable standalone electrode holder and large backlit LCD display.

A 99-item memory for pH and/or conductivity measurements makes for efficient data documentation. RS232 interface allows for connection to external devices for data storage or transfer.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST3100-B	N/A	pH -2.00 to 16.00 pH ORP -1999 to 1999 Temperature -5 °C – 110 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30057497	630
ST3100-F	ST310	pH -2.00 to 16.00 pH ORP -1999 to 1999 Temperature -5 °C – 110 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30058489	715

Accessories	Item No.	List Price (USD)	Accessories	Item No.	List Price (USD)
Holder, Stand Alone, Electrode	30058733	88	Buffer pH1.68 250 ml	30100424	22
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	39	Buffer pH4.01 250 ml	30100425	18
Printer, Impact, SF40A, AM	30064203	990	Buffer pH6.86 250 ml	30100426	18
pH electrolyte	30059255	34	Buffer pH7.00 250 ml	30100427	18
pH electrode protection	30059256	27	Buffer pH9.18 250 ml	30100428	18
In-Use-Cover, STARTER	30058734	24	Buffer pH10.01 250 ml	30100429	18
			Buffer pH12.45 250 ml	30100440	22
			Buffer Powder pH4.01;7.00;10.01	83033971	24



STARTER 3100C CONDUCTIVITY BENCH

Smart Conductivity Bench Meter for Standard Laboratory Applications

Display

Backlit liquid crystal display (LCD)

Communication

RS232 Interface Kit (Included)

Construction

ABS housing, standalone electrode holder, disposable in-use cover

Design Features

Auto Temperature Compensation, manual and auto end points, 99-item memory for pH and conductivity measurements



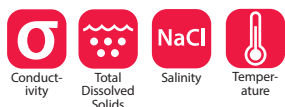
Four-pole linear electrode with temperature sensor safeguards the unit from polarization and pollution effects to ensure accurate readings.

A user-friendly bench meter with an innovative design, including an adjustable standalone electrode holder and large backlit LCD display.

99-item memory for conductivity measurements makes for efficient data documentation. RS232 interface allows for connection to external devices such as a printer or computer for data storage/transfer.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST3100C-B	N/A	Conductivity 00.0 $\mu\text{S}/\text{cm}$ – 199.9 mS/cm Salinity 0.00 – 19.99 psu TDS 0.0 – 19.9 mg/L Temperature 0 – 100 °	Conductivity 0.01 $\mu\text{S}/\text{cm}$ Salinity 0.01 psu TDS 0.1 mg/L Temperature 0.1 °C	30058730	710
ST3100C-F	STCON3	Conductivity 00.0 $\mu\text{S}/\text{cm}$ – 199.9 mS/cm Salinity 0.00 – 19.99 psu TDS 0.0 – 19.9 mg/L Temperature 0 – 100 °	Conductivity 0.01 $\mu\text{S}/\text{cm}$ Salinity 0.01 psu TDS 0.1 mg/L Temperature 0.1 °C	30058731	570

Accessories	Item No.	List Price (USD)
Holder, Stand Alone, Electrode	30058733	88
In-Use-Cover, STARTER	30058734	24
Printer, Impact, SF40A, AM	30064203	990
Standard Conduct 10 $\mu\text{S}/\text{cm}$ 250 ml	30100441	22
Standard Conduct 84 $\mu\text{S}/\text{cm}$ 250 ml	30100442	22
Standard Conduct 1413 $\mu\text{S}/\text{cm}$ 250 ml	30100443	22
Standard Conduct 12.88 mS/cm 250 ml	30100444	22



STARTER 2100 PH BENCH

Economical pH Bench Meter for Basic Laboratory Applications

Display

Liquid crystal display (LCD)

Construction

ABS housing, built-in electrode holder

Design Features

Auto buffer recognition, two point calibration, quick reference guide



Auto buffer recognition with three different buffer groups makes it easy to avoid errors during the calibration process.

A user-friendly bench meter with an innovative design, including an adjustable standalone electrode holder and large backlit LCD display.

A 99-item memory for pH and/or conductivity measurements makes for efficient data documentation. RS232 interface allows for connection to external devices for data storage or transfer.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST2100-B	N/A	pH -2 to 16 pH ORP -1999 – 1999 mV Temperature 0 – 100 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30057494	373
ST2100-E	ST210	pH -2 to 16 pH ORP -1999 – 1999 mV Temperature 0 – 100 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30057495	395
ST2100-F	ST210 ; STTEMP30	pH -2 to 16 pH ORP -1999 – 1999 mV Temperature 0 – 100 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30057496	425

Accessories	Item No.	List Price (USD)
Holder, Stand Alone, Electrode	30058733	88
pH electrolyte	30059255	34
pH electrode protection	30059256	27
Buffer pH1.68 250 ml	30100424	22
Buffer pH4.01 250 ml	30100425	18
Buffer pH6.86 250 ml	30100426	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH9.18 250 ml	30100428	18
Buffer pH10.01 250 ml	30100429	18
Buffer pH12.45 250 ml	30100440	22
Buffer Powder pH4.01;7.00;10.01	83033971	24



STARTER 300 PH PORTABLE

Convenient Portable pH Meter for Wherever Your Work Takes You

Display

Liquid crystal display (LCD)

Construction

ABS housing, wrist strap

Design Features

30 measurement memory, automatic and manual endpoint functions, automatic and manual temperature compensation



Auto buffer recognition with four different buffer groups makes it easy to avoid errors during the calibration process.

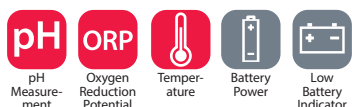
Easy-to-use and accurate with a simple calibration process, automatic temperature compensation and fast results. Ideal for secure field use with a meter stand, wrist strap and durable IP54 housing.

The 30-measurement library stores data for future reference and allows the user to easily recall the last calibration data with one quick touch.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST300-B	N/A	pH 0.00 – 14.00 ORP -1999 – 1999 mV Temperature 0 – 100 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	83033962	321
ST300	ST320	pH 0.00 – 14.00 ORP -1999 – 1999 mV Temperature 0 – 100 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	83033961	425
ST300-G*	ST320	pH 0.00 – 14.00 ORP -1999 – 1999 mV Temperature 0 – 100 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30219114	444

* Includes field portable bag

Accessories	Item No.	List Price (USD)
pH electrolyte	30059255	34
pH electrode protection	30059256	27
Portable Bag STARTER	30031635	61
Buffer pH1.68 250 ml	30100424	22
Buffer pH4.01 250 ml	30100425	18
Buffer pH6.86 250 ml	30100426	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH9.18 250 ml	30100428	18
Buffer pH10.01 250 ml	30100429	18
Buffer pH12.45 250 ml	30100440	22
Seal kit, STARTER portables	83032962	47
Buffer Powder pH4.01;7.00;10.01	83033971	24



STARTER 300C CONDUCTIVITY PORTABLE

Convenient Portable Conductivity Meter for Wherever Your Work Takes You

Display

Liquid crystal display (LCD)

Construction

ABS housing, wrist strap

Design Features

Automatic temperature compensation, adjustable temperature coefficient



Four-pole linear electrode with temperature sensor safeguards the unit from polarization and pollution effects to ensure accurate readings.

Easy-to-use and accurate with a simple calibration process, automatic temperature compensation and fast results.

The 30-measurement library stores data for future reference and allows the user to easily recall the last calibration data with one quick touch.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST300C-B	N/A	Conductivity 00.0 $\mu\text{S}/\text{cm}$ – 199.9 mS/cm ; TDS 0.1 mg/L – 199.9 g/L Temperature 0 – 100 $^{\circ}\text{C}$	Conductivity 0.01 $\mu\text{S}/\text{cm}$ TDS 0.1 mg/L Temperature 0.1 $^{\circ}\text{C}$	30092000	392
ST300C	STCON3	Conductivity 00.0 $\mu\text{S}/\text{cm}$ – 199.9 mS/cm ; TDS 0.1 mg/L – 199.9 g/L Temperature 0 – 100 $^{\circ}\text{C}$	Conductivity 0.01 $\mu\text{S}/\text{cm}$ TDS 0.1 mg/L Temperature 0.1 $^{\circ}\text{C}$	83033964	486
ST300C- G*	STCON3	Conductivity 00.0 $\mu\text{S}/\text{cm}$ – 199.9 mS/cm ; TDS 0.1 mg/L – 199.9 g/L Temperature 0 – 100 $^{\circ}\text{C}$	Conductivity 0.01 $\mu\text{S}/\text{cm}$ TDS 0.1 mg/L Temperature 0.1 $^{\circ}\text{C}$	30219115	520

* Includes field portable bag

Accessories	Item No.	List Price (USD)
Portable Bag STARTER	30031635	61
Standard Conduct 10 $\mu\text{S}/\text{cm}$ 250 ml	30100441	22
Standard Conduct 84 $\mu\text{S}/\text{cm}$ 250 ml	30100442	22
Standard Conduct 1413 $\mu\text{S}/\text{cm}$ 250 ml	30100443	22
Standard Conduct 12.88 mS/cm 250 ml	30100444	22
Seal kit, STARTER portables	83032962	47



STARTER 300D DO PORTABLE

Convenient Portable Dissolved Oxygen Meter for Wherever Your Work Takes You

Display

Liquid crystal display (LCD)

Construction

ABS housing, wrist strap

Design Features

30 measurement memory



The galvanic electrode can be used immediately after being powered on without the typical wait time associated with dissolved oxygen meters.

Easy-to-use and accurate with a simple calibration process, automatic temperature compensation and fast results.

The 30-measurement library stores data for future reference and allows the user to easily recall the last calibration data with one quick touch.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST300D-B	N/A	DO 0.0 to 199.9%; 200 to 400% Temperature 0 to 50 °C	DO 0.1%; 1% Temperature 0.1 °C	30031656	379
ST300D	STDO11 ; STTEMP30	DO 0.0 to 199.9%; 200 to 400% Temperature 0 to 50 °C	DO 0.1%; 1% Temperature 0.1 °C	30031655	670
ST300D-G*	STDO11; STTEMP30	DO 0.0 to 199.9%; 200 to 400% Temperature 0 to 50 °C	DO 0.1%; 1% Temperature 0.1 °C	30219116	720

* Includes field portable bag

Accessories	Item No.	List Price (USD)
Portable Bag STARTER	30031635	61
Zero Oxygen Chemicals, STARTER	30059257	23
Seal kit, STARTER portables	83032962	47



Dissolved
Oxygen



Temper-
ature



Battery
Power



Low
Battery
Indicator

STARTER 400 PH PORTABLE

Durable, Waterproof Battery-Operated pH Meters Ideal for Field Testing

Display

Backlit Liquid crystal display (LCD)

Communication

Built-in micro-USB port

Construction

IP67 waterproof plastic housing, IP67 probes, rubber cover

Design Features

Data storage of up to 1000 items



Built with IP67 waterproof housing as well as a rubber cover and IP67 probes, the ST400 is ideal for prolonged use in any field environment.

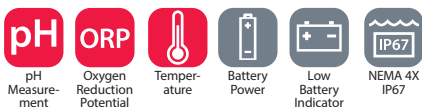
Rechargeable lithium battery provides 40 hours of uninterrupted use and more than 300 charge cycles—eliminating the need to change out batteries often.

The ST400 features intuitive software which guides the user through operation. All necessary information to run tests successfully such as electrode condition is displayed clearly on the large LCD.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST400-B	—	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Temperature -5 °C ... 110 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30468964	477
ST400-F	ST320 IP67 3m Probe	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Temperature -5 °C ... 110 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30468965	555
ST400-G*	ST320 IP67 3m Probe	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Temperature -5 °C ... 110 °C	pH 0.01 pH ORP 1 mV Temperature 0.1 °C	30468966	585

* Includes field portable bag

Accessories	Item No.	List Price (USD)
pH electrolyte	30059255	34
pH electrode protection	30059256	27
Portable Bag STARTER	30031635	61
Buffer pH1.68 250 ml	30100424	22
Buffer pH4.01 250 ml	30100425	18
Buffer pH6.86 250 ml	30100426	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH9.18 250 ml	30100428	18
Buffer pH10.01 250 ml	30100429	18
Buffer pH12.45 250 ml	30100440	22
Seal kit, STARTER portables	83032962	47
Buffer Powder pH4.01;7.00;10.01	83033971	24



STARTER 400M PORTABLE

Durable, Waterproof Battery-Operated Multi-Parameter Meters Ideal for Field Testing

Display

Backlit Liquid crystal display (LCD)

Communication

Built-in micro-USB port

Construction

IP67 waterproof plastic housing, IP67 probes, rubber cover

Design Features

Data storage of up to 1000 items



Built with IP67 waterproof housing as well as a rubber cover and IP67 probes, the ST400 is ideal for prolonged use in any field environment.

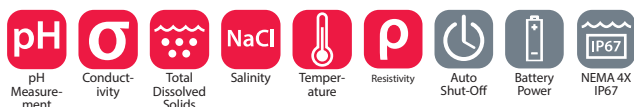
Rechargeable lithium battery provides 40 hours of uninterrupted use and more than 300 charge cycles—eliminating the need to change out batteries often.

The ST400M features intuitive software which guides the user through operation. All necessary information to run tests successfully such as electrode condition is displayed clearly on the large LCD.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST400M-B	N/A	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Conductivity 0.0 µS/cm ... 199.9 mS/cm TDS 0.1 mg/l ... 199.9 g/l Salinity 0.0 ... 99.9 psu Resistivity 0... 20MΩ·cm Temperature -5 °C ... 110 °C	pH 0.01 pH ORP 1 mV Conductivity 0.1 µS/cm, Auto-range TDS 0.01 mg/l, Auto-range Salinity 0.01 psu, Auto-range Resistivity 0.01 Ω·cm, Auto-range Temperature 0.1 °C	30468990	740
ST400M-F	ST320 IP67 3m and STCON3 IP67 3m probes	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Conductivity 0.0 µS/cm ... 199.9 mS/cm TDS 0.1 mg/l ... 199.9 g/l Salinity 0.0 ... 99.9 psu Resistivity 0... 20MΩ·cm Temperature -5 °C ... 110 °C	pH 0.01 pH ORP 1 mV Conductivity 0.1 µS/cm, Auto-range TDS 0.01 mg/l, Auto-range Salinity 0.01 psu, Auto-range Resistivity 0.01 Ω·cm, Auto-range Temperature 0.1 °C	30468991	920
ST400M-G*	ST320 IP67 3m and STCON3 IP67 3m probes	pH -2 ... 16.00 pH ORP -1999 ... 1999 mV Conductivity 0.0 µS/cm ... 199.9 mS/cm TDS 0.1 mg/l ... 199.9 g/l Salinity 0.0 ... 99.9 psu Resistivity 0... 20MΩ·cm Temperature -5 °C ... 110 °C	pH 0.01 pH ORP 1 mV Conductivity 0.1 µS/cm, Auto-range TDS 0.01 mg/l, Auto-range Salinity 0.01 psu, Auto-range Resistivity 0.01 Ω·cm, Auto-range Temperature 0.1 °C	30468992	950

* Includes field portable bag

Accessories	Item No.	List Price (USD)
Portable Bag STARTER	30031635	61
Zero Oxygen Chemicals, STARTER	30059257	23
Seal kit, STARTER portables	83032962	47



STARTER 400D DO PORTABLE

Dissolved Oxygen (DO) Meter with Optical Technology

Display

Backlit Color Liquid Crystal Display (LCD)

Construction

ABS housing, wrist strap

Design Features

99 measurement memory, last calibration data recall, auto barometric pressure measurement, auto temperature compensation with manual salinity compensation



Optical DO probe requires minimal maintenance and offers immediate measurement readings. No warm up or sample preparation needed.

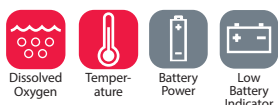
Large backlit LCD screen provides easy to read results—even in low light environments. Ideal for secure field use with a meter stand, wrist strap and durable IP54 housing.

The 99-measurement library stores data for future reference and allows for easy one-touch recall of the last calibration data.

Model	Included Electrode	Measurement Range	Measurement Resolution	Item No.	List Price (USD)
ST400D-B	—	DO 0.00 – 20.0 mg/L (ppm) Temperature 0 – 50 °C	DO 0.01 mg/L; 0.1% Temperature 0.1 °C	30378541	585
ST400D	STD021	DO 0.00 – 20.0 mg/L (ppm) Temperature 0 – 50 °C	DO 0.01 mg/L; 0.1% Temperature 0.1 °C	30378543	1380
ST400D-G*	STD021	DO 0.00 – 20.0 mg/L (ppm) Temperature 0 – 50 °C	DO 0.01 mg/L; 0.1% Temperature 0.1 °C	30378542	1415

* Includes field portable bag

Accessories	Item No.	List Price (USD)
Seal kit, STARTER portables	83032962	47
Zero Oxygen Chemicals, STARTER	30059257	23
DO Probe Cap, STD021	30253566	189
Portable Bag STARTER	30031635	61



STARTER PEN METERS

Accurate Electrochemistry Measurement At Your Fingertips

Display

Liquid crystal display (LCD) display with secondary information line (on select models)

Construction

ABS Housing

Design Features

Easily replaceable electrodes, automatic shut off feature



Small, economical pen meters offer simple, fast, and straightforward operation.

With durable IP67 waterproof ABS housing, protective sensor cap, and an automatic shutdown feature that preserves battery life, OHAUS pen meters can endure consistent use in rough, wet environments.

Equipped with a wrist strap to prevent accidental drop and damage.

Model	Meter Type	Measurement Range	Measurement Resolution	Temperature Display	Item No.	List Price (USD)
ST10	pH	0.00 – 14 pH	0.1 pH	Not Available	30073970	61
ST20	pH	0.00 – 14 pH ; 0.0 – 99.0 °C	0.01 pH	Yes	30073971	104
ST20M-B	Multi	pH 0-14 Conductivity 0 ... 1999 µS/cm TDS 0 ... 1000 mg/L Temperature 0-99.0 °C	pH 0.01 pH Conductivity 1µS/cm TDS 1 mg/L NA Temperature 0.1 °C	Yes	30393199	129
ST20M-C	Multi	pH 0-14 Conductivity 0 ... 19.99 mS/cm Salinity 0.0-10.0 ppt Temperature 0-99.0°C	pH 0.01pH Conductivity 0.01mS/cm Salinity 0.1 ppt Temperature 0.1°C	Yes	30393200	129
ST10C-A	Conductivity	0.00 – 199.9 µS/cm	0.1 µS/cm	Not Available	30073972	81
ST10C-B	Conductivity	0 – 1999 µS/cm	1µS/cm	Not Available	30073973	81
ST10C-C	Conductivity	0.00 – 19.99 mS/cm	10 µS/cm	Not Available	30073974	81
ST20C-A	Conductivity	0.00 – 199.9 µS/cm ; 0.0 – 99.0 °C	0.1 µS/cm	Yes	30073975	119
ST20C-B	Conductivity	0 – 1999 µS/cm ; 0.0 – 99.0 °C	1µS/cm	Yes	30073976	119
ST20C-C	Conductivity	0.00 – 19.99 mS/cm ; 0.0 – 99.0 °C	10 µS/cm	Yes	30073977	119
ST10T-A	TDS	0.0 – 100.0 mg/L	0.1 mg/L	Not Available	30073978	92
ST10T-B	TDS	0.0 – 1000 mg/L	1 mg/L	Not Available	30073979	92
ST20T-A	TDS	0.0 – 100.0 mg/L ; 0.0 – 99.0 °C	0.1 mg/L	Yes	30073980	119
ST20T-B	TDS	0.0 – 1000 mg/L ; 0.0 – 99.0 °C	1 mg/L	Yes	30073981	119
ST10S	Salinity	0.0 – 10.0 ppt	0.1 ppt	Not Available	30073982	81
ST20S	Salinity	0.0 – 80.0 ppt ; 0.0 – 99.0 °C	0.1 ppt	Yes	30073983	119
ST10R	ORP	-1000 – 1000 mV	1 mV	Not Available	30073984	133
ST20R	ORP	-1000 – 1000 mV ; 0.0 – 99.0 °C	1 mV	Yes	30073985	178
ST20D	Dissolved Oxygen	0.0 – 80.0 ppt	0.1 mg/L	Yes	30073986	415

Accessories	Item No.	List Price (USD)
Zero Oxygen Chemicals, STARTER	30059257	23
Buffer pH4.01 250 ml	30100425	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH10.01	30100429	18

Accessories	Item No.	List Price (USD)
Standard Conduct 84µS/cm 250 ml	30100442	22
Standard Conduct 1413µS/cm 250 ml	30100443	22
Standard Conduct 12.88mS/cm 250 ml	30100444	22
Membrane Kit Replaceable, ST20D	30222084	105



pH
Measurement



Oxygen
Reduction
Potential



Conductivity



Total
Dissolved
Solids



Salinity



Dissolved
Oxygen



Temperature



Auto
Shut-Off



Battery
Power



NEMA 4X
IP67

STARTER ELECTRODES

OHAUS Precision Powers the Starter Electrodes

Construction

Glass, plastic or metal

Design Features

Can be used in conjunction with all Starter bench and portable meters



All sturdy and durable electrodes are constructed of either plastic or glass shafts and built to withstand daily use.

All electrodes include a temperature sensor, which powers automatic temperature compensation and ensures accurate measurements.

All electrodes fit perfectly in the electrode holders on OHAUS bench meters and electrode clips on all OHAUS portable meters.

Model	ST5000, ST3100, ST2100, & ST300	ST3100M	ST3100C & ST300C	ST300D	ST400	ST400M	ST400D	Temperature	Shaft Material	Item No.	List Price (USD)
ST230	•	•							Glass	83033968	126
ST260	•	•							Glass	30129357	168
ST270	•	•							Glass	30240974	299
ST350	•	•						•	Glass	30129354	179
STMICR05	•	•							Glass	30087566	257
STMICR08	•	•							Glass	30087569	275
STPURE	•	•							Glass	83033969	140
STREF1	•	•							Glass	30059253	149
STORP2	•	•							Glass	30038553	253
STORP1	•	•							Plastic	30038555	95
ST210	•	•							Plastic	83033966	67
ST272	•	•							Plastic	30393265	175
ST310	•	•						•	Plastic	83033965	144
ST320	•	•						•	Plastic	83033967	144
STSURF	•	•							Plastic	30129470	163
STCON3		•	•					•	Plastic	83033972	306
STCON7		•	•					•	Plastic	30080693	550
STD011				•					Plastic	30031639	372
STD021, 1m							•	•	Plastic	30378544	1135
STD021, 5m							•	•	Plastic	30378545	1155
STTEMP30	•	•		•				•	S.Steel	83033970	82
ST320 IP67					•	•			Plastic	30468960	185
STCON3 IP67						•			Plastic	30468962	405

EQUIPMENT & INSTRUMENT ACCESSORIES

Bead Mill Homogenizer Accessories

Accessories	Item No.	List Price (USD)
White, Bacteria, 2mL tube, 100/box	30391402	333
Yellow, Yeast, 2mL Tube, 100/box	30391404	333
Blue, Fungi, 2mL Tube, 100/box	30391405	333
Orange, Soft Sample, 2mL Tube, 100/box	30391406	333
Green, Plant, 2mL Tube, 100/box	30391408	333
Red, Animal Tissue, 2mL Tube, 100/box	30391409	333
Brown, Environmental, 2mL Tube, 100/box	30391410	340
Tube Rack, 25 x 2ml Tubes, 2 per pack	30391431	13
Sample Tube Kit, 14 Tubes	30391433	39

Centrifuge Tube Adapters

Accessories	Item No.	List Price (USD)
Adapter, D6mm, 0.2/0.4ml Tubes x 6	30130884	98
Adapter, D8mm, 0.5ml Tubes x 6	30130885	98
Adapter, D11mm, 1.5/2.0ml Tubes x 6	30130886	192
Adapter, D12.6mm, 1.0ml Cryo x 6	30130887	305
Adapter, D12.6mm, 1.8ml Cryo x 6	30130888	305
Adapter, D13.5mm, 7ml Tubes x 2	30130889	116
Adapter, D13.5mm, 5ml Tubes x 2	30130890	106
Adapter, D26mm, 30ml Tubes x 2	30130891	242
Adapter, D18mm, 16ml Tubes x 2	30130892	242
Adapter, D17mm, 15ml Tubes x 2	30130893	242
Adapter, D17mm, 15ml RB Tubes x 2	30130894	169
Adapter, 9 x 1.5/2.0ml D11mm, 2/pk	30304368	286
Adapter, 8 x 1.5ml D11mm, 2/pk	30304369	267
Adapter, 5 x 10ml D16mm RB, 2/pk	30304370	267
Adapter, 4 x 15ml D17mm FA, 2/pk	30304371	267
Adapter, 2 x 30ml D26mm RB, 2/pk	30304372	267
Adapter, 1 x 50ml D30mm RB, 2/pk	30304373	267
Adapter, 1 x 50ml D30mm FA, 2/pk	30304374	267
Adapter, 48 x 1.5/2.0ml D11mm, 2/pk	30314891	815
Adapter, 1 x 15ml D17.5mm FA, 2/pk	30314892	207
Adapter, 1 x 15ml D17mm RB, 2/pk	30314893	184
Adapter, 1 x 30ml D25mm RB, 2/pk	30314894	184
Adapter, 1 x 50ml D29mm RB, 2/pk	30314895	184
Adapter, 1 x 50ml D29mm FA, 2/pk	30314896	184
Adapter, 1 x 15ml D17mm FA, 2/pk	30314897	184
Adapter, 2 x 15ml D17mm RB, 2/pk	30314898	184
Adapter, 1 x 16ml D18mm RB, 2/pk	30314899	184
Adapter, 1 x 1.5ml for over 16000 x g, 6/pk	30314900	100

Dry Block Heater Accessories

Accessories	Item No.	List Price (USD)
Test Tube Combination	30400156	147
Centrifuge Tube Combination	30400193	147
Micro-Tube Combination	30400194	147
12 x 15mL Conical Tube	30400172	147
5 x 50mL Conical Tube	30400168	147
2 x (12) 12.5 mm Cuvettes	30400161	176
2 Block Cover	30400179	131
4 Block Cover	30400180	127
6 Block Cover	30400181	138
30 x 0.5 mL Tube	30400157	147
20 x 1.5 mL Tube	30400159	147
20 x 1.5 mL Eppendorf™ Tube	30400162	147
20 x 2 mL Eppendorf™ Tube	30400191	147
20 x 2 mL Corning™ Tube	30400192	147
2 x 96-well PCR Plate	30400171	330
10 x 8 Tube Strips	30400169	163
64 x Individual PCR Tubes	30400170	163
Solid Block, Single	30400160	147
Solid Block, Double	30400166	215
30 x 6 mm Tube	30400158	147
24 x 10 mm Tube	30400151	147
20 x 12/13 mm Tube	30400152	147
16 x 12/13 mm Tube	30400165	147
12 x 15/16 mm Tube	30400153	147
12 x 17/18 mm Tube	30400195	147
8 x 20 mm Tube	30400154	147
6 x 25 mm Tube	30400155	147
4 x 35 mm Tube	30400167	147
Sand Bath, 1 Block Dry Block Heater	30400173	316
Sand Bath, 2 Block Dry Block Heater	30400174	329
Sand Bath, 4 Block Dry Block Heater	30400175	352
Sand Bath, 6 Block Dry Block Heater	30400176	365
Sand, 1 lb (0.45 kg)	30400177	90
Stainless Steel Shot, 1 lb (0.45 kg)	30400178	110
Titer Plate	30400164	301

ACCESSORIES

Dry Block Heater Accessories

Accessories	Item No.	List Price (USD)
20 × 12 mm Vial	30400182	147
20 × 15 mm Vial	30400183	147
16 × 16 mm Vial	30400190	147
12 × 17 mm Vial	30400184	147
12 × 19 mm Vial	30400185	147
9 × 21 mm Vial	30400186	147
8 × 23 mm Vial	30400187	147
8 × 25 mm Vial	30400188	147
6 × 28 mm Vial	30400189	147

Extreme Environment and Heavy Duty Shaker Accessories

Accessories	Item No.	List Price (USD)
18 × 18" (45.7 × 45.7 cm) Culture Platform	30400066	374
18 × 24" (45.7 × 61 cm) Culture Platform	30400067	390
13 × 13" (33 × 33 cm) Dedicated Platform / 125 mL Flask Clamp	30400075	590
13 × 13" (33 × 33 cm) Dedicated Platform / 250 mL Flask Clamp	30400076	590
13 × 13" (33 × 33 cm) Dedicated Platform / 500 mL Flask Clamp	30400077	590
13 × 13" (33 × 33 cm) Dedicated Platform / 1 L Flask Clamp	30400078	590
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 125 mL Flask Clamp	30400079	650
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 250 mL Flask Clamp	30400080	650
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 500 mL Flask Clamp	30400081	650
18 × 18" (45.7 × 45.7 cm) Dedicated Platform / 1 L Flask Clamp	30400082	650
18" (45.7 cm) Adjustable Bar (with Mounting Hardware)	30400083	630
Two-Tier Braces (set of 4)	30400051	119

Frontier Multi Pro Centrifuge Accessories

Accessories	Price USD	List Price (USD)
Bucket, 100ml w/o Cap, 2/pk	30314860	321
Bucket, 100ml w/ Cap, Sealable, 2/pk	30314861	386
Screw Cap, 100ml Bucket, Sealable, 2/pk	30314862	113
O-ring, 100ml Bucket, Sealable, 10/pk	30314863	54
Bucket, 2 × 50ml D29mm FA, w/ Rack, 2/pk	30314881	500
Bucket, 3 × 15ml D17mm FA, w/ Rack, 2/pk	30314882	505
Bucket, 3 × MTP, 2/pk	30314890	3080
Rack, 8 × 4-10ml D16mm Vac, 2/pk	30304367	311
Rack, 4 × 50ml D29mm FA, 2/pk	30304375	421
Rack, 10 × 15ml D17mm FA, 2/pk	30314583	421
Rack, 14 × 5-7ml D13mm Vac/Sar, 2/pk	30314584	421
Rack, 12 × 4-10ml D16mm Vac/Sar, 2/pk	30314585	421
Rack, 1 × 100ml D46mm RB, 2/pk	30314842	263
Rack, 1 × 85ml D38mm RB, 2/pk	30314843	263
Rack, 1 × 50ml D34mm RB, 2/pk	30314844	263
Rack, 1 × 50ml D29mm RB, 2/pk	30314845	263
Rack, 1 × 50ml D29mm FA, 2/pk	30314846	263
Rack, 1 × 50ml D29mm Rim, 2/pk	30314847	263
Rack, 1 × 30ml D25mm Rim, 2/pk	30314848	263
Rack, 1 × 25ml D25mm RB, 2/pk	30314849	263
Rack, 2 × 15ml D17mm FA, 2/pk	30314850	263
Rack, 1 × 15ml D17mm Rim, 2/pk	30314851	263
Rack, 7 × 15ml D17mm RB, 2/pk	30314852	263
Rack, 9 × 5-7ml D13mm RB, 2/pk	30314853	263
Rack, 10 × 1.5ml D11mm, 2/pk	30314854	263
Rack, 9 × 4.5ml D12mm FB, 2/pk	30314855	263
Rack, 7 × 5-7ml D13mm RB, 2/pk	30314856	263
Rack, 7 × 5-7ml D13mm Vac, 2/pk	30314857	263
Rack, 5 × 4-10ml D16mm Sar, 2/pk	30314858	263
Rack, 1 × 100ml D40mm RB, 2/pk	30314864	236
Rack, 1 × 85ml D38mm RB, 2/pk	30314865	236
Rack, 1 × 50ml D34mm RB, 2/pk	30314866	236
Rack, 1 × 50ml D29mm RB, 2/pk	30314867	236
Rack, 1 × 50ml D29mm FA, 2/pk	30314868	236
Rack, 1 × 50ml D29mm Rim, 2/pk	30314869	236
Rack, 1 × 30ml D25mm Rim, 2/pk	30314870	236
Rack, 1 × 25ml D25mm RB, 2/pk	30314871	242
Rack, 1 × 15ml D17mm FA, 2/pk	30314872	242
Rack, 2 × 15ml D17mm FA, 2/pk	30314873	242
Rack, 2 × 15ml D17mm Rim, 2/pk	30314874	242
Rack, 4 × 15ml D17mm RB, 2/pk	30314875	242
Rack, 7 × 5-7ml D13mm RB, 2/pk	30314876	242
Rack, 5 × 1.5ml D11mm, 2/pk	30314877	242
Rack, 3 × 10ml D17mm Sar, 2/pk	30314878	242
Rack, 4 × 5-7ml D13mm RB, 2/pk	30314879	242
Rack, 4 × 10ml D17mm Vac, 2/pk	30314880	236

ACCESSORIES

Frontier Multi Pro Centrifuge Accessories

Accessories	Item No.	List Price (USD)
Screw Cap, Rack of 250ml Rotor, 2/pk	30314901	128
O-ring, Rack of 250ml Rotor, 10/pk	30314902	66
Rack, 1x250ml D62mm FB, 2/pk	30314903	302
Rack, 1x100ml D41mm RB, 2/pk	30314904	302
Rack, 3x50ml D29mm RB, 2/pk	30314905	302
Rack, 3x50ml D29mm FA, 2/pk	30314906	302
Rack, 1x50ml D34mm RB, 2/pk	30314907	302
Rack, 2x50ml D29mm Rim, 2/pk	30314908	302
Rack, 1x50ml D29mm Rim, 2/pk	30314909	302
Rack, 5x25ml D24.5mm RB, 2/pk	30314910	302
Rack, 3x25ml D24.5mm Rim, 2/pk	30314911	302
Rack, 9x15ml D17mm RB, 2/pk	30314912	302
Rack, 7x15ml D17mm FA, 2/pk	30314913	302
Rack, 7x15ml D17mm Rim, 2/pk	30314914	302
Rack, 8x10ml D16mm RB, 2/pk	30314915	302
Rack, 14x5-7ml D13mm RB, 2/pk	30314916	302
Rack, 10x1.6-7ml D13mm Vac, 2/pk	30314917	302

Heavy Duty Shaker Accessories

Accessories	Item No.	List Price (USD)
4-bar Large Vessel Carrier Platform	30400070	1360
4-bar Large Vessel Carrier Platform	30400071	1425
5-bar Large Vessel Carrier Platform	30400072	1825

Heavy Duty Vortex Mixer Accessories

Accessories	Item No.	List Price (USD)
Foam insert for 0.5 mL microtubes	30400216	44
Foam insert for 1.5 to 2.0 mL microtubes	30400217	44
Foam insert for 12-13 mm test tubes	30400220	44
Foam insert for 15-18 mm test tubes	30400221	44
Foam insert for 19-21 mm test tubes	30400222	44
Foam insert for 22-25 mm test tubes	30400223	44
Foam insert for 26-29 mm test tubes	30400224	44

Heavy Duty Vortex Mixer Accessories

Accessories	Item No.	List Price (USD)
Flat Foam Insert	30400209	44
Large Vessel Holder	30400211	53
Microplate Single Holder	30400215	63
Microplate Double Holder	30400213	71
Microplate Quad Holder	30400214	143
Small Vessel Holder	30400218	53
Universal Holder	30400226	65
Universal Holder Cover	30400225	23
Stackable Microplate Holder	30400212	134

Incubating Cooling Thermal Shaker Accessories

Accessories	Item No.	List Price (USD)
24 x 2.0 mL Cryotubes	30400133	850
30 x 0.5 mL Microtubes	30400129	850
24 x 1.5 mL Microtubes	30400130	850
24 x 2.0 mL Microtubes	30400131	850
24 x 5-7 mL Tubes	30400132	850
Microplate Thermal Block with Lid	30400126	1120
384 Well Plate Thermal Block with Lid	30400127	1120
0.2 mL PCR Plate Thermal Block with Lid	30400128	1120
5 mL Eppendorf Tube Block	30400134	850
15 mL Conical Tubes	30400135	850
50 mL Conical Tubes	30400136	850

Light Duty Shaker Accessories

Accessories	Item No.	List Price (USD)
8.6" (21.8 cm) Adjustable Bar(with Mounting Hardware)	30400122	49
18" (45.7 cm) Adjustable Bar (with Mounting Hardware)	30400073	65
2-bar Adjustable Platform	30400121	535
4-bar Adjustable Platform	30400068	570
4-bar Adjustable Platform	30400069	815
18" (45.7 cm) Adjustable Bar (with Mounting Hardware)	30400073	65
24" (61 cm) Adjustable Bar (with Mounting Hardware)	30400074	81
Dilution Cup Tray	30400125	240
Universal Harness	30400123	44

ACCESSORIES

Mini Vortex Mixer Accessories

Accessories	Item No.	List Price (USD)
Single Tube Holder	30400202	184
Cup Head	30400210	43
Cup Head	30400235	43
Micro-Tube Holder (0.5 mL)	30400204	80
Microtube Holder (1.5 mL to 2.0 mL)	30400205	80
9 to 13 mm Tube Holder (2 pack)	30400229	35
14 to 19 mm Tube Holder (2 pack)	30400230	35
20 to 25 mm Tube Holder (2 pack)	30400231	35
3" (7.6 cm) Rubber Head Cover	30400196	59
3" (7.6 cm) Head	30400236	43
3" (7.6 cm) Head with Rubber Cover	30400237	43
15 to 17 mm Ampule Tube Holder	30400207	136
10 to 17 mm Ampule Tube Holder	30400208	191
Adapter Plate For Vortex-Genie® Mixer	30400203	94
Flat Foam Insert (2 pack)	30400234	33
Insert Retainer	30400227	142
Foam Insert Variety Pack	30400201	64
Microplate Holder (2 pack)	30400233	73
Micro-Tube Holder (2 pack)	30400232	73
Micro-Tube & Microplate Holder Kit	30400198	126
Microtube Kit with /Retainer	30400200	126
Microwell Kit with Retainer	30400199	126
Rack For 30 × 0.5 mL Tube Block	30400250	44
Rack For 24X1.5 / 24X2.0 mL Tube Blocks	30400251	44
Cover For 0.5mL/1.5mL/2.0mL Tube Blocks	30400252	30
Microtube Holder	30400206	292
Vessel Harness (2 pack)	30400228	12
Tube Holder Kit	30400197	215

Multi-Tube Vortex Mixer Accessories

Accessories	Item No.	List Price (USD)
50 × 10 mm Test Tube Foam Rack	30400238	39
50 × 12 mm Test Tube Foam Rack	30400239	38
50 × 13 mm Test Tube Foam Rack	30400240	38
50 × 16 mm Test Tube Foam Rack (for 15 mL centrifuge tubes)	30400241	50
28 × 25 mm Test Tube Foam Rack	30400243	50
15 × 29 mm Test Tube Foam Rack (for 50 mL centrifuge tubes)	30400242	50
Replacement Tray Pad Set (upper & lower)	30400245	56
Post Extension Kit	30400244	195

Open Air and Incubating Shaker Accessories

Accessories	Item No.	List Price (USD)
11 × 13 Platform (4 Microplate Clamps)	30400052	220
13 × 13 Platform (6 Microplate Clamps)	30400053	313
18 × 18 Platform (12 Microplate Clamps)	30400054	375
Universal Platform, 18 × 18 cm, S/S I-IR	30400055	365
18 × 24 Platform (18 Microplate Clamps)	30400056	422
18 × 30 Platform (21 Microplate Clamps)	30400057	1000
24 × 24 Platform (24 Microplate Clamps)	30400058	960
24 × 36 Platform (36 Microplate Clamps)	30400059	1280
Microplate Clamp	30400104	64
Stacking Tray, 12.75 × 10" (32.4 × 25.4 cm)	30400114	170
10 mL Erlenmeyer Flask Clamp	30400084	39
25 mL Erlenmeyer Flask Clamp	30400085	39
50 mL Erlenmeyer Flask Clamp	30400086	41
125 mL Erlenmeyer Flask Clamp	30400087	41
250 mL Erlenmeyer Flask Clamp	30400088	41
500 mL Erlenmeyer Flask Clamp	30400089	45
1 L Erlenmeyer Flask Clamp	30400090	60
2 L Erlenmeyer Flask Clamp	30400091	94
2.8 L Fernbach Flask Clamp	30400092	125
3 L Fernbach Flask Clamp	30400093	169
4 L Erlenmeyer Flask Clamp	30400094	155
5 L Erlenmeyer Flask Clamp	30400095	188
11 × 13" (27.9 × 33 cm) Rubber Mat	30400060	63
13 × 13" (33 × 33 cm) Rubber Mat	30400061	76
18 × 18" (45.7 × 45.7 cm) Rubber Mat	30400062	109
18 × 24" (45.7 × 61 cm) Rubber Mat	30400063	120
24 × 24" (61 × 61 cm) Rubber Mat	30400064	142
24 × 36" (61 × 91.4 cm) Rubber Mat	30400065	157
6 L Erlenmeyer Flask Clamp	30400096	184
500 mL Media Bottle Clamp	30400097	116
1 L Media Bottle Clamp	30400098	126
125 mL Erlenmeyer Flask Clamp	30400099	44
250 mL Erlenmeyer Flask Clamp	30400100	45
500 mL Erlenmeyer Flask Clamp	30400101	51
1 L Erlenmeyer Flask Clamp	30400102	57
2 L Erlenmeyer Flask Clamp	30400103	95

ACCESSORIES

Open Air and Incubating Shaker Accessories

Accessories	Item No.	List Price (USD)
1.5 to 2 mL Micro-Tube Rack Half Size, Stationary	30400114	170
10 to 13 mm Test Tube Rack Half Size, Stationary	30400115	187
14 to 16 mm Test Tube Rack Half Size, Stationary	30400116	187
18 to 20 mm Test Tube Rack Half Size, Stationary	30400117	187
22 to 25 mm Test Tube Rack Half Size, Stationary	30400118	187
15 mL Centrifuge Tube Rack Half Size, Stationary	30400119	194
50 mL Centrifuge Tube Rack Half Size, Stationary	30400120	194
10 to 14 mm Test Tube Rack Full Size, Stationary	30400110	368
16 to 20 mm Test Tube Rack Full Size, Stationary	30400111	368
21 to 25 mm Test Tube Rack Full Size Stationary	30400112	368
50 mL Centrifuge Tube Rack Full Size, Stationary	30400113	386
13 mm Test Tube Rack Full Size, Pivoting	30400105	328
16 mm Test Tube Rack Full Size, Pivoting	30400106	328
20 mm Test Tube Rack Full Size, Pivoting	30400107	328
25 mm Tube Rack Full Size, Pivoting	30400108	328
30 mm Tube Rack Full Size, Pivoting	30400109	328
11 × 13" (27.9 × 33 cm) Universal Platform	30400052	220
13 × 13" (33 × 33 cm) Universal Platform	30400053	313
18 × 18" (45.7 × 45.7 cm) Universal Platform	30400054	375
18 × 24" (45.7 × 61 cm) Universal Platform	30400056	422
24 × 24" (61 × 61 cm) Universal Platform	30400057	1000
18 × 30" (45.7 × 76.2 cm) Universal Platform	30400058	960
24 × 36" (61 × 91.4 cm) Universal Platform	30400059	1280
Two-Tier Braces (set of 4)	30400051	119

Rocking and Waving Shaker Accessories

Accessories	Item No.	List Price (USD)
Dimpled Mat, 12.75 × 10" (32.4 × 25.4 cm)	30400140	59
Dimpled Mat, 11.75 × 8.75" (29.9 × 22.2 cm)	30400142	59
Dimpled Mat, 10 × 7.5" (25.4 × 19.1 cm)	30400141	59
Dimpled Mat, 9.25 × 7.25" (23.5 × 18.4 cm)	30400143	59
Dimpled Mat, 11.75 × 8.75" (29.9 × 22.2 cm)	30400124	56
Dimpled Mat, 14 × 11" (35.6 × 27.9 cm)	30400144	68
Stacking Tray, 12.75 × 10" (32.4 × 25.4 cm)	30400137	141
Stacking Tray, 11.75 × 8.75" (29.9 × 22.2 cm)	30400138	172
Stacking Tray, 14 × 11" (35.6 × 27.9 cm)	30400139	125

Laboratory Instrument Accessories

Accessories	Item No.	List Price (USD)
Pen Meter Electrode pH10 ST	30087992	39
Pen Meter Electrode pH20 ST	30087993	69
Pen Meter Electrode ST20M-B	30393203	63
Pen Meter Electrode ST20M-C	30393204	63
Pen Meter Electrode CT10A ST	30087994	56
Pen Meter Electrode CT10B ST	30087995	56
Pen Meter Electrode CS10C ST	30087996	56
Pen Meter Electrode CT20A ST	30087997	56
Pen Meter Electrode CT20B ST	30087998	56
Pen Meter Electrode CS20C ST	30087999	56
Pen Meter Electrode R10 ST	30088020	84
Pen Meter Electrode R20 ST	30088021	110
Pen Meter Electrode ST20D	30222083	236
pH electrolyte (KCl saturated AgCl, 30ml)	30059255	34
pH electrode protection solution(3M KCl)	30059256	27
pH sensor protect bottle(10 in bag)	30064800	47
Zero Oxygen Chemicals, STARTER	30059257	23
Buffer pH1.68 250 ml	30100424	22
Buffer pH4.01 250 ml	30100425	18
Buffer pH6.86 250 ml	30100426	18
Buffer pH7.00 250 ml	30100427	18
Buffer pH9.18 250 ml	30100428	18
Buffer pH10.01 250 ml	30100429	18
Buffer pH12.45 250 ml	30100440	22
Standard Conduct 10 µS/cm 250 ml	30100441	22
Standard Conduct 84 µS/cm 250 ml	30100442	22
Standard Conduct 1413 µS/cm 250 ml	30100443	22
Standard Conduct 12.88 mS/cm 250 ml	30100444	22
Buffer Powder pH4.01; 7.00; 10.01	83033971	24

TERMS AND CONDITIONS OF SALE

U.S. and Canada

Terms are net 30 days, FOB Worthington, Ohio USA, a service charge of 1.5% will be applied on invoice amounts past due 30 days • All orders for immediate release • No cancellations within 48 hours of acknowledged ship date • Prices, terms & specifications subject to change without prior notice • Drop shipments not available in Canada • OHAUS Corporation's products are warranted against defects in materials & workmanship from date of delivery through duration of the warranty period. During the warranty period OHAUS will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to OHAUS Corporation. All other approved returns require issuance of a Return Order number from Parsippany, NJ, USA and may be subject to a 20% restocking fee. This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than the OHAUS Corporation or an authorized OHAUS Regional Service Center. This warranty only covers products shipped within the United States and to Canada by OHAUS Corporation to the dealer within the United States and in Canada. The warranty period for OHAUS products shall begin at the date of shipment to the end-user, or 3 months from the date of shipment to the dealer by OHAUS Corporation, whichever occurs first. A properly completed Warranty Registration Form must be received by OHAUS Corporation or product may be registered at www.ohaus.com within 30 days from the date of purchase to initiate coverage under the warranty. No other expressed or implied warranty is given by OHAUS Corporation. OHAUS Corporation shall not be liable for any consequential damages.

Outside U.S. and Canada

Payment terms: As per agreement • All prices Ex-Factory, Worthington, Ohio USA • Service charge of 1.5% will be applied on invoice amounts past due • All approved returns require issuance of a Return Order number from Parsippany, NJ, USA • Restocking fee 20% of dealer net • Minimum order: \$50.00 • All orders for immediate release • No cancellations within 48 hours of acknowledged ship date • Prices, terms & specifications subject to change without prior notice.

Business Partner Code of Conduct

OHAUS is committed to conducting its business ethically, legally and in a socially responsible manner. We expect our business partners and Dealers to share this commitment and we have therefore developed this Business Partner Code of Conduct. It covers Ethical Conduct, Fair Competition, Environment, Health and Safety, as well as Labor Practices. This code applies to all your activities in your business relationship with us. It defines the minimum standards of business conduct we expect you to comply with in your business relationship with OHAUS. You must also comply with all applicable laws, regulations, and codes of the countries in which you operate. We encourage you to work with your own business partners to ensure they also strive to meet the principles of this code, or equivalent principles. For more information and to view the whole code, please visit ohaus.com/business-partner.

6 Month Warranty			3 Year Warranty
Starter Series Electrodes			Harvard Junior® Balances
1 Year Warranty			TJ611 Balance
Accessories	Frontier Mini Centrifuge	Scale Bases, all models	5 Year Warranty
Aviator® Scales	Hand Held Scales	SD & Catapult Scales	All Other Mechanical Balances
CKW Scales	Indicators, all models	Spring Scales	10 Year Warranty
CX & CR Scales	JE Emerald & JR Ruby Scales	Starter Series Meters	Triple Beam Pro® Balances
D500 Beam Scales	MB23 with MB27	TAJ Scales	
Defender® Scales	Navigator® Scales	Valor® Scales	
Drum & VN/VX Floor Scales	Primer® Balance	Weights & Weight Sets	
ES Scales	PS Scales	Y Series Scales	
FD Scales	Ranger® Scales		
2 Year Warranty			
Adventurer® Balances	Homogenizers	Pioneer® Balances	
Dry Block Heaters	Incubating & Incubating Cooling Shakers	PR Series Balances	
Explorer® Balances	Labjaws Clamps & Supports	Scout® STX , SPX & SJX Balances	
Frontier Micro & Multi Centrifuges	MB90 & MB120	Specialty Stirrers	
Guardian™ Hotplates & Stirrers	Open Air Shakers	Vortex Mixers	
Heavy Duty Incubating/Cooling Shakers	Achiever™ Overhead Stirrers		

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OHAUS MINIMUM ADVERTISED PRICE (MAP) POLICY

Section 1. Purpose and Applicability:

- OHAUS Corporation ("OHAUS") has adopted this Minimum Advertised Price (MAP) policy to protect the reputation of its brand name, better serve our customers, and to properly position the OHAUS brand in the marketplace. OHAUS products which are subject to this MAP policy are defined in the Appendix.
- This Policy has been unilaterally adopted and will be enforced strictly and uniformly.
- The minimum advertised prices (MAPs) effective January 1, 2021 are set forth in the schedule below, exclusive of all state and local taxes.

Section 2. Geographic Scope and Modification:

- OHAUS has unilaterally established this Minimum Advertised Price ("MAP") Policy and it is applicable to its United States and Canadian based resellers. It may be modified at any time by OHAUS, and the minimum advertised price may be affected by promotional periods designated by OHAUS.
- No dealer's consent or agreement to this Policy is sought and no such consent or agreement will be accepted by OHAUS. OHAUS is providing this Policy to dealers strictly as notice.

Section 3. Minimum Advertised Pricing Rules and Violations:

- Resellers shall not post OHAUS products for sale in any online or other marketplace if such a posting will result in the advertisement, by the Reseller or by the marketplace, of prices below the MAPs set by OHAUS.
- Resellers are free to establish their own resale prices; however, they should not advertise OHAUS products below the minimum advertised prices (MAP) set by OHAUS.
- Advertising includes any form of providing information about pricing that is not associated with the act of purchasing or negotiating the purchase of a product. Examples of advertising include, but are not limited to, signage, catalogs, displays, mailings, flyers, internet advertisements, internet price lists, and internet "click here" links or pop-ups and similar web-based techniques. For purposes of this policy, advertising does not include responses to email inquiries, verbal communications, or prices displayed in internet "shopping carts" or "baskets."
- It is a violation of this MAP policy for any reseller to state or suggest in advertising or on a web site that a price lower than the MAP for an OHAUS product may be available during an online checkout or purchase process, including but not limited to the following: "click here for lower price," "add to cart for discounted price," "price too low to advertise," or a line through the price which indicates a lower price is available. If the customer moves a product to the online shopping cart and establishes the intent to purchase, then those further negotiations are outside this MAP Policy.
- It is not a violation of this MAP Policy to advertise that a customer may "call for price" or "email for price," "Request a Quote", specifically with respect to MAP Products, so long as no price is listed below MAP level.
- OHAUS will monitor the resale market to ensure dealers are in compliance with the MAPs set by OHAUS.
- This Policy does not apply to refurbished or discontinued OHAUS products.

Section 4. Penalties and Administration:

- Upon verification that a dealer has advertised any of OHAUS Corporation's products at a price less than the minimum advertised price established and announced by OHAUS Corporation, OHAUS will, without assuming any liability, take unilateral action including but not limited to: (1) sending warning letters to notify dealers of violations; (2) revoking buying privileges for products in violation of this policy for 30 days, 90 days and up to one year based on number of warnings (3) and indefinitely refusing to accept any new orders from any reseller. OHAUS may take any of these actions in any order.
- If a reseller with multiple websites or store locations violates this MAP Policy at any one website or store location, OHAUS will consider this to be a violation by the reseller.
- OHAUS has established an internal MAP manager. All communication regarding MAP Policy should be directed to ohausbrandprotection@ohaus.com and not to any other representative of OHAUS. The Manager is responsible for monitoring pricing and for MAP enforcement. OHAUS will not respond to any communication reporting a violation of this policy.
- In addition to other methods, OHAUS may use a third party to monitor pricing on the internet. Any third party who monitors OHAUS pricing has no authority to make any decisions about enforcement or application of this Policy or any other OHAUS business

Appendix

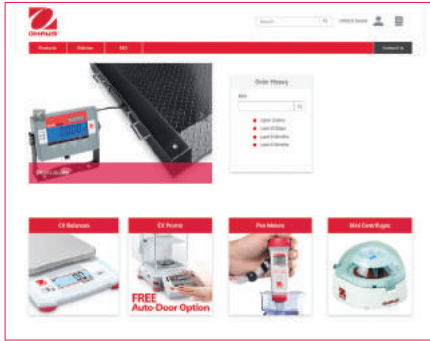
- The minimum advertised prices (MAPs) effective January 1, 2021 are set forth below, exclusive of all state and local taxes.

Product Series	MAP Price % off List Price
Valor® 7000	15%
Ranger® 7000	20%
Defender® 5000 (D52 Models)	10%
Defender® 3000 (DFD Models)	30%
Explorer®	15%
Adventurer®	15%
Pioneer™	15%
PR Series	15%
Moisture Analyzers (MB Series)	15%
Scout® (SKX Series Only)	30%

Download the complete MAP Product Listing

www.ohaus.com/MAP-Policy

DEALER RESOURCES



OHAUS Partner Shop

The OHAUS Partner Shop is purposefully aimed at delivering a better shopping experience. We've added some great new features, making it easier to use and quicker to navigate. With advanced search capabilities, a convenient comparison function, and an order template designed to help you anticipate and quickly execute all of your ordering needs, the OHAUS Partner Shop was designed with you and your customers in mind.

Why Use OHAUS Partner Shop?

- Online Ordering
- View Product Availability and Pricing
- View Order Status
- Track Shipments
- View Invoices

Contact your OHAUS representative today to experience our Partner Shop!

Contact Us

Ordering

We welcome your orders however you choose to place them!

- Email your order to sales@ohaus.com or
- Order online through the [OHAUS Partner Shop](#)

Dealer Support

We are here to support your sales! Our Customer Service Team is happy to help with any of your questions.

- Email your inquiries to cs@ohaus.com or
- Call us at **1-800-672-7722** and press 1 to reach a Customer Service Representative

Technical Support

Having technical trouble or questions on how to operate your OHAUS equipment?

Contact one of our Technical Support Specialists to assist you with your technical needs.

- Call us at **1-800-672-7722** and press 3 for Technical Support, or
- Email your question to TechSupport@OHAUS.com

DEALER SUPPORT

Dealer Zone

OHAUS.com's Dealer Zone is your one-stop resource center for marketing, sales, and service support designed to help you grow your business. Featuring a comprehensive collection of e-launch kits, product information and photos, service and support assistance, promotions, events, and much more, the OHAUS Dealer Zone is a fully-loaded, constantly updated website that allows access to every kind of marketing support. From customizable marketing email templates to product pricing and specifications, the OHAUS Dealer Zone takes the guesswork out of your sales and marketing experience, and gives you the tools you need to keep your own OHAUS materials as up-to-date and effective as possible.

Why Use OHAUS Dealer Zone?

Update your website and catalog with simple access to

- Product photos in a variety of formats (jpg, tif, 360° spins)
- Web banners for products and promotions
- Product videos for both overview tutorials as well as popular applications
- The OHAUS Magic Spreadsheet for in-depth product specifications

Downloadable content for marketing assistance, such as

- Promotional flyers
- Customizable email templates to send your customers
- Product-related infographics for a wide range of industries and applications
- Up-to-date OHAUS catalogs and brochures

One-click access to essential documents, including

- Service and instruction manuals
- Up-to-date documents and software for OHAUS products
- Service and support FAQ
- Comprehensive adapter lists and cable guides for OHAUS products

OHAUS Service Training Seminars

Several times a year, OHAUS offers its authorized dealers a Service Training Seminar, held at our facility in Parsippany, NJ. The seminar lasts three days and covers a mix of troubleshooting, load cell repair / replacement, solutions to common problems and access to available service resources. The emphasis will be placed on the practical side of equipment repair.

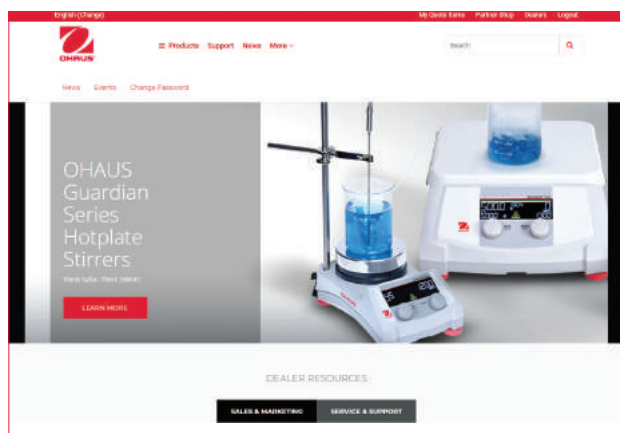
As our weighing and non-weighing portfolio continues to expand, this is also a refresher for those who have attended past seminars, or latest training for any new service personnel.

If you are interested in finding out more about these training seminars, please contact us at TechSupport@OHAUS.com

OHAUS Webinar Series

The OHAUS Webinar Series features a variety of brief webinars designed to cover a broad range of products and topics. Courses are added continuously, and offer real-time expertise with OHAUS professionals across a variety of features, industries, and applications.

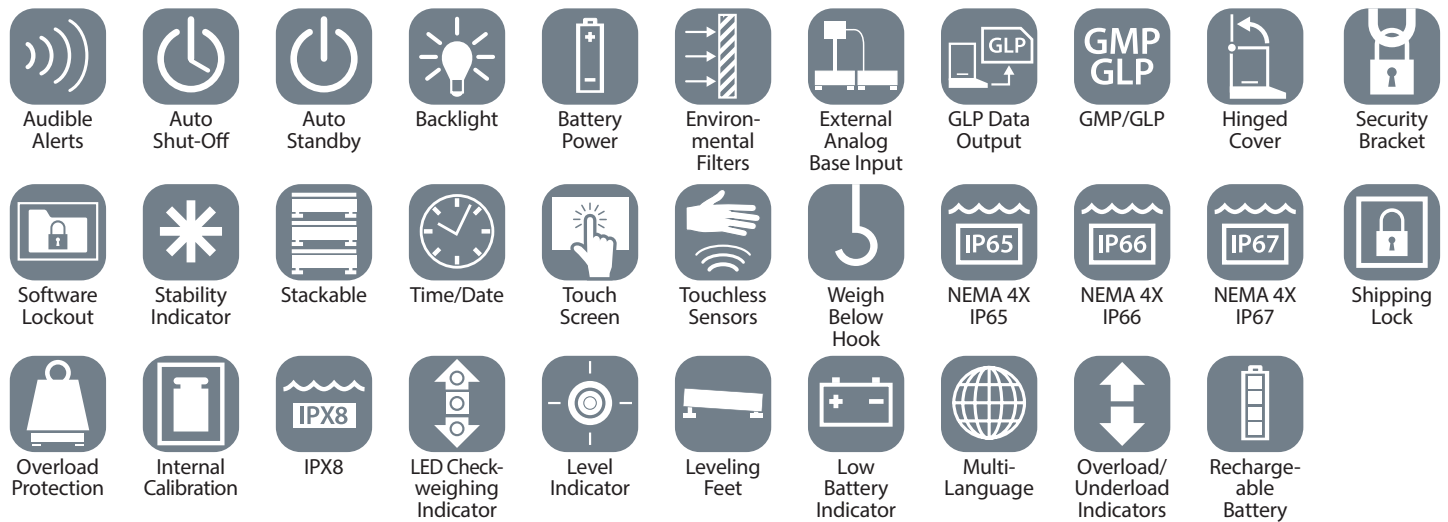
If you are interested in finding out more about our Webinar Series, please contact your regional OHAUS representative.



Applications



Features



Approvals





Laboratory
Weighing



Laboratory
Equipment



Laboratory
Instruments



Industrial
Weighing



Portable
Balances



Calibration
Weights

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