

# Köttermann Laboratory Furniture.

Functional and flexible.



# We fulfill your requirements.

An integrated furnishing concept.



Subject to technical modifications  
Status: May 2018

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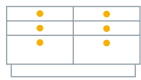
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# Overview of laboratory furniture

## Laboratories for the future – with safety

The EXPLORIS® laboratory from KÖTTERMANN is the result of creativity plus innovation – intelligent furnishing solutions, created to determine exact analysis values and ensure an outstanding product quality.

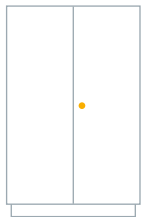
The unique modular system always forms a functional, shapely and ergonomically well-designed unit. Everything is designed to facilitate and economically optimize work processes in the laboratory.



### Underbench cabinets

Contents can be well stowed and ready to hand

- **Perfectly designed down to the smallest detail**
  - highly flexible
  - combinable
  - easily exchangeable and retrofittable
- **Safety for the people in the laboratory**
  - minimize the risks in the laboratory
- **Well organised**
  - individually adapted to each other
  - lots of practical accessories
- **Worktops**
  - 10 materials for every requirement
  - harmonic colouring
  - typical octagonal corners
- **Special cabinets**
  - Suspension files
  - Wardrobe pull-outs
  - Pull-out cabinets
  - Installation cabinets
  - Corner cabinets etc.



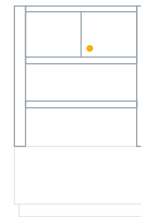
### Tall storage cabinets

Storage space with many extras



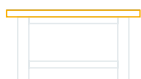
### Wall- and top-mounted cabinets

Tidy instead of overfilled



### Cell cabinets

Transparency at island benches



### Worktops

Customised to your requirements



### Single benches

Mobile, load-bearing, extremely precise



### Basins and sinks

Customised wet cells

## Benefits

- Material: electrolytically galvanized steel
  - recyclable
  - robust and durable
  - reduces the fire load
- Coating with optimal UV and chemical resistance
- Maximum storage space even in small laboratories
- Large number of variations
- Fast production / short delivery times
- Independent certifications
- Quality
  - double-shell, sound-insulated door and drawer fronts
- Smooth and quiet
  - comfort pull-outs with air-damped automatic pull-in function
- Aesthetic and clear
  - harmonic colouring
  - ergonomic design

## Equipment Options - Cabinets

- Drawer dividers
- Flexible interior design
  - partially with glass doors
- Different front variants
- With and without lock
- Height adjustment
- With shelves, drawers and pull-outs

## Design Cabinets

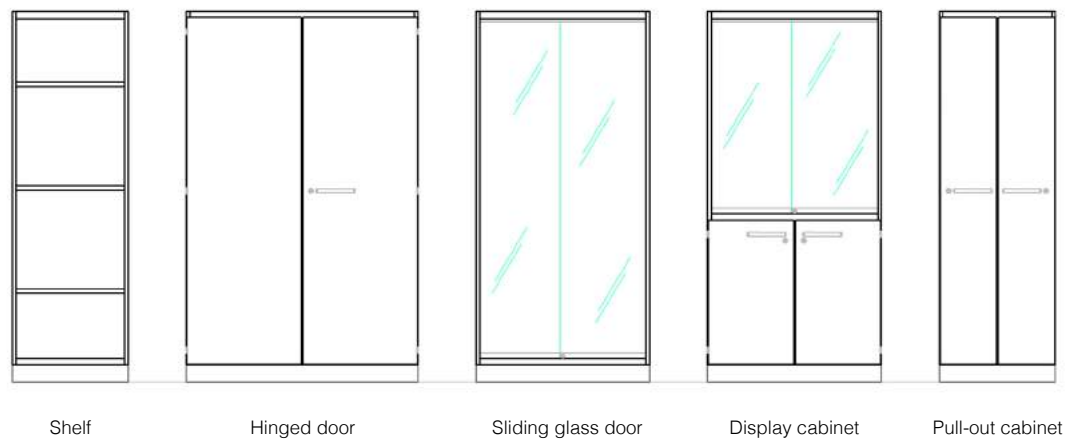
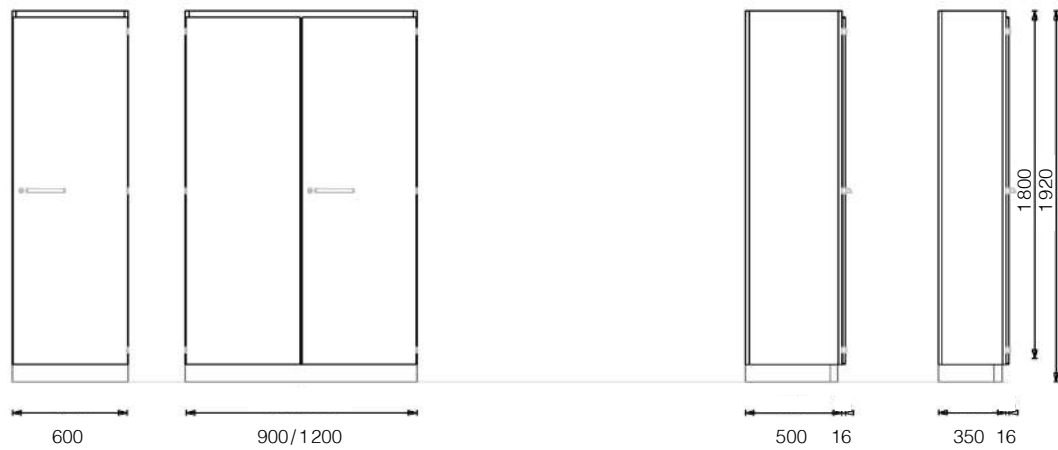
Material	Quality steel (1.0330, electrolytically galvanised, coated with polyurethane)	
Colour	Arctic White (NCS S 0505 R80B), similar RAL design 260 90 05	
Pedestal colour	Anthracite (NCS S 8500N), similar RAL design 00 20 00	
Carcass  (underbench cabinets)	Grid height	Exterior: 480 mm, 630 mm, 780 mm Interior: less 30 mm
	Grid width	Exterior: 300 mm, 450 mm, 600 mm, 900 mm, 1 200 mm Interior: less 40 mm
	Depth	516 mm, interior: 500 mm
Doors	Sound insulated in double-shell design, clip hinge, opening angle 270°	
Bow-type handle	Zinc die cast, matt chrome-plated, suitable for labels	
Lock	Lock system with interchangeable cylinder, Central lock with pull-out protection for cabinets with stacked drawers	
Drawers  High-quality drawers Automatic pull-in function and stop damping (full extension drawers)	Galvanised steel, full-extension drawer in ball bearing cage design, sound insulated front in double-shell design, bow-type handle: zinc die cast, matt chrome-plated, suitable for labels	
	Grid height	150 mm, 300 mm
	Usable interior height	110 mm (for 150 mm grid height) 260 mm (for 300 mm grid height)
	Grid width	Exterior: 450 mm, 600 mm, 900 mm, 1 200 mm
	Usable interior width	Grid width: less 100 mm
Shelves	Load capacity	In general: 30 kg, in cabinets on castors: 20 kg
	Load capacity	30 kg
Adjustment	Pedestal	– 5 / + 15 mm
	C/A frames	– 5 / + 20 mm

# Tall storage cabinets

Storage space with many extras



## Dimensions Tall storage cabinets



## Tall storage cabinets

Dimensions in mm

	Width				Height	Carcass depth	
Without doors	–	600	900	1200	1920	350	500
With hinged doors	–	600	900	1200	1920	350	500
With sliding glass doors	–	–	900	1200	1920	350	500
Display cabinet	–	–	900	1200	1920	350	500
Wardrobe cabinet	–	600	–	1200	1920	–	500
With pull-out doors	300	600	–	–	1920	–	500

## Types

- Open shelf
- Hinged doors
- Sliding glass doors
- Display cabinet
- Wardrobe cabinet
- Pull-out doors (pharmacy cabinet)

## Description

In order for everything to find its place in the laboratory, **EXPLORIS® tall storage cabinets** can be individually configured. EXPLORIS® offers a comprehensive range of tall storage cabinets so everything fits in the laboratory. The spectrum ranges from open shelves to cabinets with hinged or sliding glass doors, as well as to display and wardrobe cabinets.

The flexibility of the interior is demonstrated by the numerous options that are available, such as height adjustable shelves and pull-outs that facilitate easy access to the contents of the cabinet.

## Designs

- Grid height
  - exterior: 1 920 mm
  - interior: 1 760 mm
- Grid width
  - exterior: 300 mm, 600 mm, 900 mm, 1 200 mm
  - interior: less 40 mm
- Depth
  - carcass depth: 350/500 mm
  - exterior depth: 350/500 mm (open or sliding glass doors)
  - exterior depth: 366/516 mm (with doors)
- Load capacity
  - 180 kg additional load
- Doors
  - sound insulated in double-shell design
  - clip hinge
  - opening angle 270°
  - sliding doors made of laminated safety glass

## Properties and Benefits

- Two depths
- Various front designs
- Flexible interior design
- Suitable for common binders
- Additional storage space through top-mounted cabinets (see page 10)

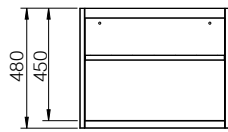


# Underbench cabinets

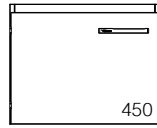
Contents well stowed and ready to hand



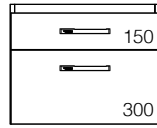
## Dimensions Underbench cabinets



Carcass height 480mm

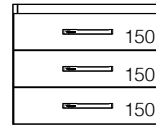


450



150

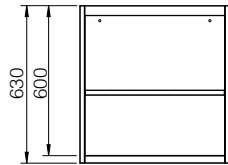
300



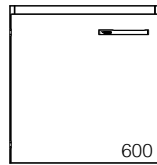
150

150

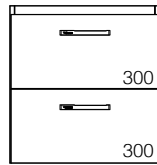
150



Carcass height 630mm



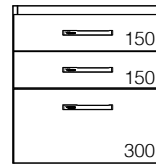
600



150

300

300

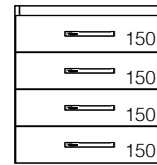


150

150

150

300



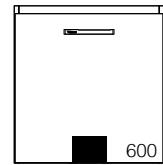
150

150

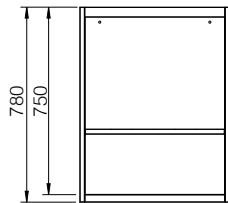
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150

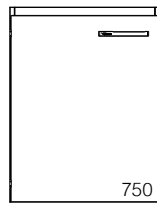
150



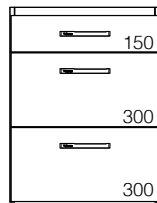
600



Carcass height 780mm



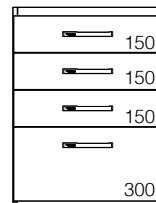
750



150

300

300

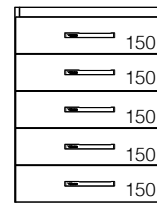


150

150

150

300



150

150

150

150

150

150

## Underbench cabinets

Dimensions in mm

	Width				Height		Carcass depth	
With steel pedestal	450	600	900	1 200	720	870	350	500
With steel pedestal for front sinks	300	–	–	–	720	870	–	500
With castors	450	600	900	1 200	580	730	–	500
Suspended in the frame	450	600	900	1 200	480	630	–	500

## Types

- Special cabinets
  - installation cabinets
  - waste collector
  - for office utensils
  - corner cabinets
- An individual worktop substructure is possible due to the various types of KÖTTERMANN underbench cabinets. In this way, comfortable seating niches or full surface substructures with underbench cabinets for an optimal space utilization are created. Corner cabinets maximize the space utilization through easy-to-use and accessible LeMans pull-outs.

## Designs

- Grid height
  - exterior: 480 mm, 630 mm, 780 mm
  - interior: less 30 mm
- Grid width
  - exterior: 450 mm, 600 mm, 900 mm, 1 200 mm
  - interior: less 40 mm
- Depth
  - exterior: 516 mm
  - interior: 500 mm
- Load capacity
  - 120 kg additional load
  - cabinets on castors: 100 kg additional load
- Doors
  - sound insulated in double-shell design
  - clip hinge
  - opening angle 270°
- Drawers
  - grid height 150 mm, 300 mm
  - usable interior height:
    - 110 mm (for 150 mm grid height)
    - and 260 mm (for 300 mm grid height)
  - grid width 450 mm, 600 mm, 900 mm, 1 200 mm
  - usable interior width less 100 mm
  - load capacity 30 kg; 20 kg for cabinets on castors
- Castors
  - castor set with 4 steerable castors, of which 2 lockable
  - height: 90 mm
  - load capacity: 150 kg

## Description

Where to go with all the things you need in the lab? It is best to have them at hand directly under the worktop. Mobile as a cabinet on castors, suspended in frames or with steel pedestal – **EXPLORIS® under-bench cabinets** offer customized storage space.

Depending on the bench frame (type, height, width) or type of use, the following underbench cabinet variants are available for worktop substructures:

**Pedestal underbench cabinet:** Closes flush with the worktop and the floor. Enables maximum utilization of the available space under the worktop.

**Cabinet on castors:** Underbench cabinet on castors, which can be used flexibly. For example, cabinets on castors can be temporarily placed in seating niches. They fit under all frame types: C and A frames.

**Suspended cabinet:** Can be suspended in a C or A frame, allows cleaning under the cabinets.

## Properties and Benefits

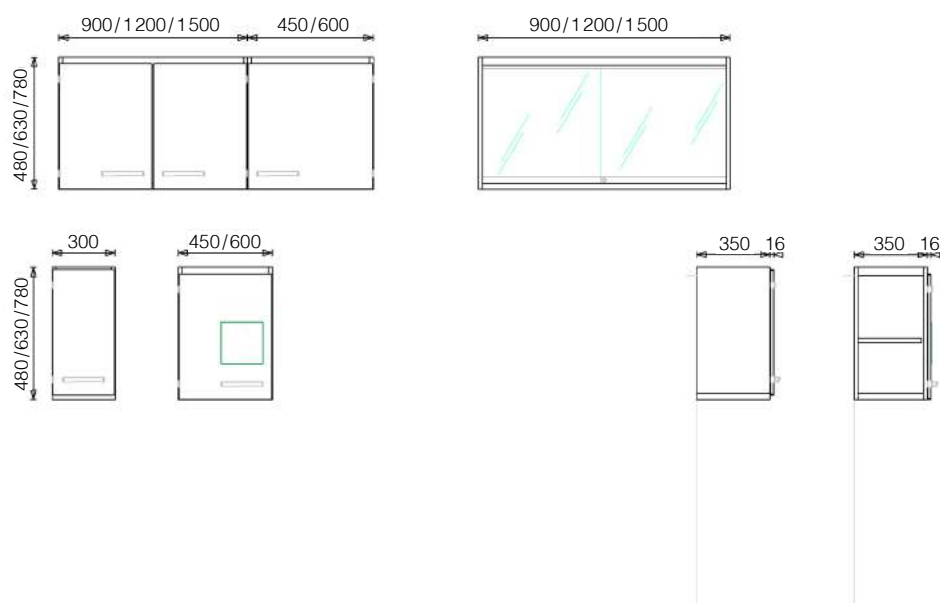
- Three substructure options
  - pedestal cabinets
  - suspended cabinets for bench frames
  - cabinets on castors
- Various combinations of doors and drawers

# Wall- and top-mounted cabinets

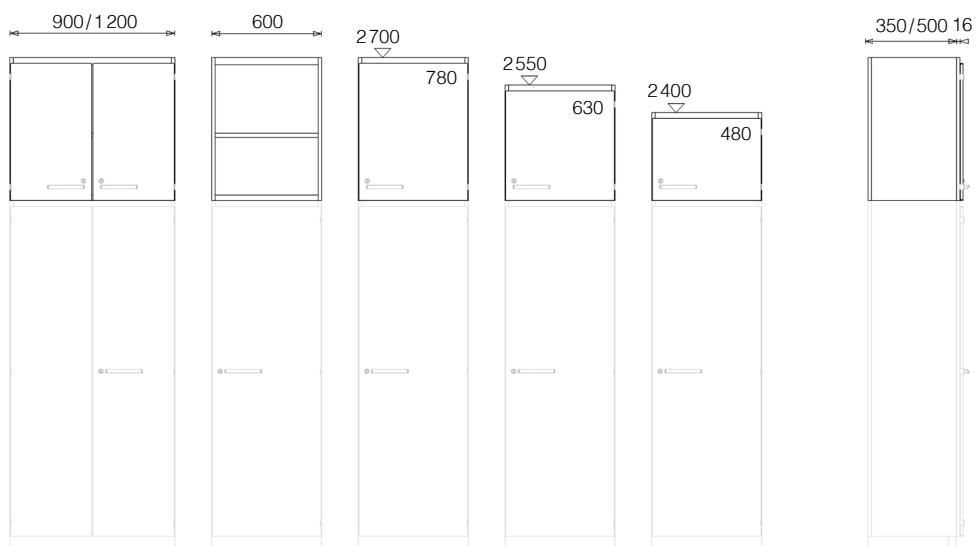
Tidy instead of overfilled



## Dimensions Wall-mounted cabinets



## Dimensions Top-mounted cabinets



## Wall and top-mounted cabinets

Dimensions in mm

	Width						Height			Carcass depth	
Top-mounted cabinet for tall storage cabinet	–	–	600	900	1200	–	480	630	780	350	500
Wall-mounted cabinet to be mounted between the columns at island benches	–	–	600	900	1200	1500	480	630	–	350	–
Wall-mounted cabinets with hinged doors	–	450	600	900	1200	1500	480	630	780	350	–
Wall-mounted cabinet with sliding glass doors	–	–	–	900	1200	1500	480	630	780	350	–
First aid cabinet	–	450	600	–	–	–	480	630	780	350	–
Installation cabinet	300	–	–	900	–	–	480	630	780	350	–

## Types

- Wall-mounted cabinet
  - as open shelf, with hinged doors or with sliding glass doors
  - as installation cabinet for cable bushing
  - as first aid cabinet
- Top-mounted cabinet for tall storage cabinets
  - as open shelf or with hinged doors
- Cell cabinets for island benches
  - open
  - with hinged doors
  - with sliding glass doors
- First aid cabinet
- Installation cabinet

## Designs Wall-mounted cabinets

- Grid height
  - exterior: 480 mm, 630 mm, 780 mm
  - interior: less 70 mm
- Grid width
  - exterior: 300 mm \*, 450 mm, 600 mm, 900 mm, 1 200 mm, 1 500 mm
  - interior: less 40 mm
- Depth
  - open: 350 mm
  - with door: 366 mm
- Load capacity
  - 80 kg additional load

## Designs Top-mounted cabinets

- Grid height
  - exterior: 480 mm, 630 mm, 780 mm
  - interior: less 70 mm
- Grid width
  - exterior: 600 mm, 900 mm, 1 200 mm
  - interior: less 40 mm
- Depth
  - open: 350 mm and 500 mm
  - with hinged door: 366 mm and 516 mm
- Load capacity
  - 80 kg additional load

## Description

Even with little laboratory space, there is still room at the top for the storage of work material. **EXPLORIS® wall- and top-mounted cabinets** make optimal use of this space and solve any space problem.

Wall-mounted cabinets are mounted above the workstations. They create additional storage space for the laboratory material required, small devices or reagents. An effective use can help to avoid long distances and improve laboratory efficiency. Wall-mounted cabinets are available with open fronts, hinged doors or sliding glass doors.

Tall storage cabinets are available with open fronts, hinged doors or sliding glass doors, as well as installation and first aid cabinets

Top-mounted cabinets are placed on tall storage cabinets and expand the range of cabinets. They are available with open fronts and with hinged doors.

## Properties and Benefits

- Large number of variations
- Maximum storage space in minimum laboratory space
- Optionally with practical ladder for top-mounted cabinets
- Wall-mounted cabinets also suitable for KÖTTERMANN service systems

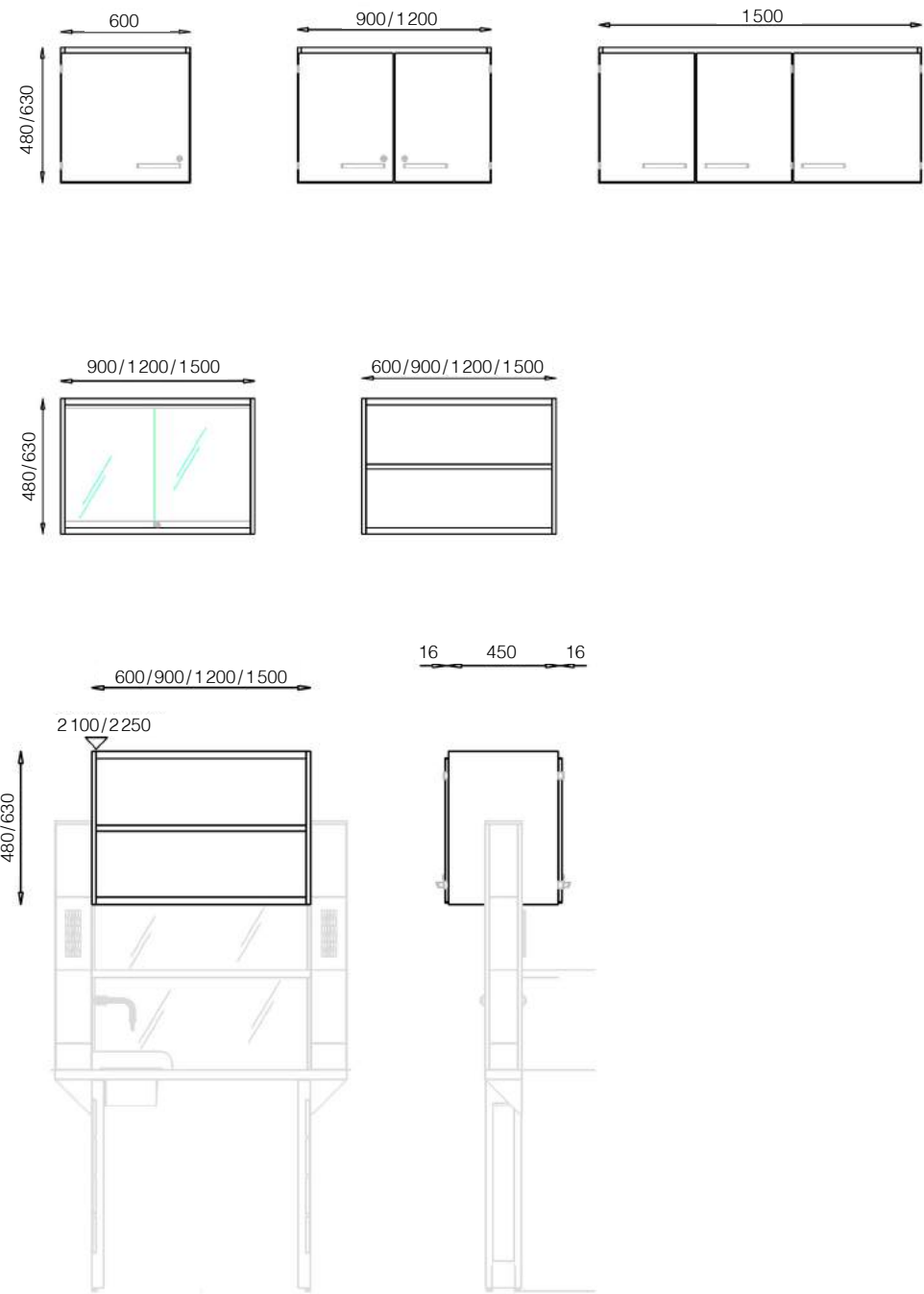
\* only in case of cabinets for cable bushing

# Cell cabinets

Transparency at island benches



Dimensions Cell cabinets



Cell cabinets

Dimensions in mm

	Width				Height		Carcass depth
Open	600	900	1200	1500	480	630	450
With hinged doors	600	900	1200	1500	480	630	450
With sliding glass doors	–	900	1200	1500	480	630	450



## Types

- Open on both sides
- Two hinged doors
- Two sliding glass doors

## Description

**EXPLORIS® cell cabinets** can be mounted between the columns. The special feature is that the access is possible from both sides, as long as it is an island bench. The cell cabinets create valuable storage space for reagents, laboratory material and small devices via the service cell workstations.

Cell cabinets are available with open design, hinged doors or sliding glass doors. The glass doors create a light, transparent look. A closed front creates a uniform and orderly overall appearance.

## Designs

- Grid height
  - exterior: 480mm, 630mm
  - interior: less 70mm
- Grid width
  - exterior: 600mm, 900mm, 1 200mm, 1 500mm
  - interior: less 40mm
- Depth
  - open / with sliding glass doors: 450mm
  - with hinged doors: 482mm
- Load capacity
  - 80kg additional load

## Properties and Benefits

- Access from both sides of the island bench
- Maximum storage space in minimum laboratory space

# Worktops

## Material for all purposes

### General

The work in the laboratory is very diverse. Corresponding requirements must also be met with regard to **EXPLORIS® worktops**.

For example, when working with aggressive acids, ceramic worktops are best, stainless steel worktops should be used in the biological field, and melamine worktops are ideal for lower chemical loads.

For ergonomic working and optimal utilization of the laboratory surface, the worktops are also available in the typical KÖTTERMANN octagonal form. The harmonious colour matching of worktops and furniture not only looks good, but also creates a creative atmosphere.

### Properties and Benefits

- Ten materials for every application
- Five materials with marine edge for catching spilled liquids
- Diverse design options through material combinations as well as rectangular and octagonal shapes
- Harmoniously matched colours

### Designs

- Colours (except for stainless steel)
  - Baltic Blue (NCS S 2030 R70B)
  - White (similar RAL 9010)
  - Grey (similar RAL 7035)
- Forms
  - rectangular worktops
  - exterior corner worktops
  - octagonal and interior corner worktops
- Edge designs\*
  - marine edge
  - thick edge
  - plain edge
- Dimensions
  - width: running metre
  - depths: 600mm, 750mm, 900mm
- Depths
  - before the service wall: 670mm and 820mm

### Quality

- Lab-quality melamine TopResist® worktops offer high chemical resistance at the best price performance ratio.

### Safety

- Worktops with surrounding marine edge catch spilled liquids

\*Worktops without marine edge: melamine, melamine TopResist®, HPL solid-core material in standard quality, HPL solid-core material in laboratory quality, composite ceramic, glass

\*Worktops with marine edge: Solid ceramic, HPL solid-core material in laboratory quality, polypropylene, epoxy, stainless steel

## Chemical resistance of worktop materials

	Melamine Standard	Melamine, TopResist®	Trespa® TopLab® <sup>BASE</sup>	Trespa® TopLab® <sup>PLUS</sup>	Ceramic/ Composite ceramic	Laminated glass	Stainless steel	Epoxy resin	Poly- propylene
<b>Solvents</b>									
Ethanol	+	+	+	+	+	+	+	+	+
Isopropanol	+	+	+	+	+	+	+	+	+
Aceton	+	+	+	+	+	+	+	+	+
Ethylacetat	+	+	+	+	+	+	+	+	+
Chloroform	+	+	+	+	+	+	+	+	0
Diethylether	+	+	+	+	+	+	+	+	+
Toluol	+	+	+	+	+	+	+	+	–
n-hexane	+	+	+	+	+	+	+	+	+
Petroleum ether	+	+	+	+	+	+	+	+	0
<b>Mineral acids</b>									
Hydrochloric acid conc.	–	+	–	+	+	+	–	+	–
Sulphuric acid conc.	–	0	–	0	+	+	–	+	+
Sulphuric acid 50%	–	0	–	0	+	+	–	–	+
Nitric acid conc.	–	0	–	0	+	+	–	–	–
Phosphoric acid conc.	–	+	–	+	+	+	–	0	+
Hydrofluoric acid	–	0	–	–	–	–	–	–	+
<b>Organic acids</b>									
Formic acid conc.	–	0	–	+	+	+	+	+	–
Acetic acid conc.	+	+	+	+	+	+	+	+	+
<b>Bases</b>									
Caustic soda 20%ig	+	+	0	+	+	+	+	+	+
Ammonia solution conc.	+	+	+	+	+	+	+	+	+
<b>Neutral solutions</b>									
Formaldehyde 25%	+	+	+	+	+	+	+	+	+
<b>Oxidants</b>									
Hydrogen peroxide 30%	–	+	–	+	+	+	+	+	+
Potassium permanganate 5%	+	+	+	+	+	+	+	–	+
Potassium dichromate 5%	+	+	+	+	+	+	+	+	+
Iodine 5% in chloroform	+	+	+	+	+	+	+	+	–
<b>Reducing agents</b>									
Sodium sulphite 5%	+	+	+	+	+	+	+	+	+
<b>Dyes</b>									
Eosin	+	+	+	+	+	+	+	+	+
Methylene blue	+	+	+	+	+	+	+	+	+
Crystal violet	+	+	+	+	+	+	+	+	+

+ Material is well suited, 0 Material is suited to a certain extent, – Material is inappropriate

**Colours**

Baltic Blue, Grey, White

**Office and evaluation**

Workplaces where paperwork is done.  
Worktops without marine edge with  
sufficient scratch resistance.

**Wet chemistry**

Workplaces working with larger quantities  
of chemicals. Worktops with marine edge  
with very high chemical resistance.

**Workplaces for devices**

Workplaces working with analytical  
equipment and small quantities of  
chemicals. Worktops without marine  
edge with good chemical resistance.

**Biology / Life Science**

Workplaces with special requirements for  
hygiene and moderate chemical load.  
Worktops without joints with good chemical  
resistance.

**Worktops**

Dimensions in mm

	Width	Depth
Rectangular	600 - 2 400 *	400 **, 600, 750, 900
Octagonal 90°	750	750
	900	900
	1500	750
Octagonal 180°	1 650	750
	1 800	900
	1 950	900
	1 500	1 500
Octagonal 360°	1 800	1 800

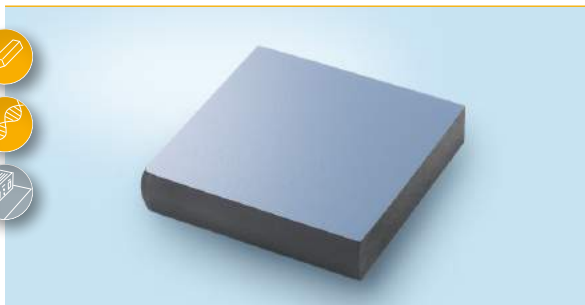
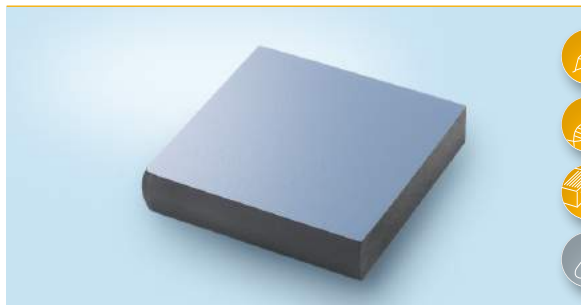
\* ceramic max. 1 800 mm

\*\* without marine edge

Melamine Standard



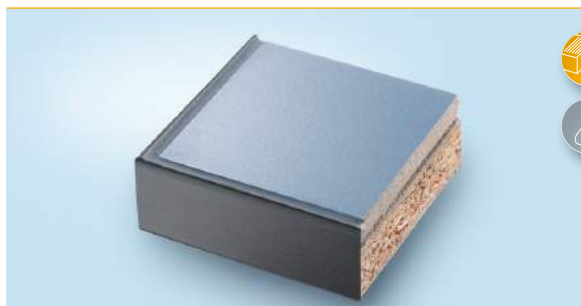
Melamine TopResist®

Trespa® TopLab®*BASE*Trespa® TopLab®*PLUS*

Solid ceramic



Composite ceramic



Glass



Polypropylene



Epoxy resin (Epoxy)



Stainless steel



well suited

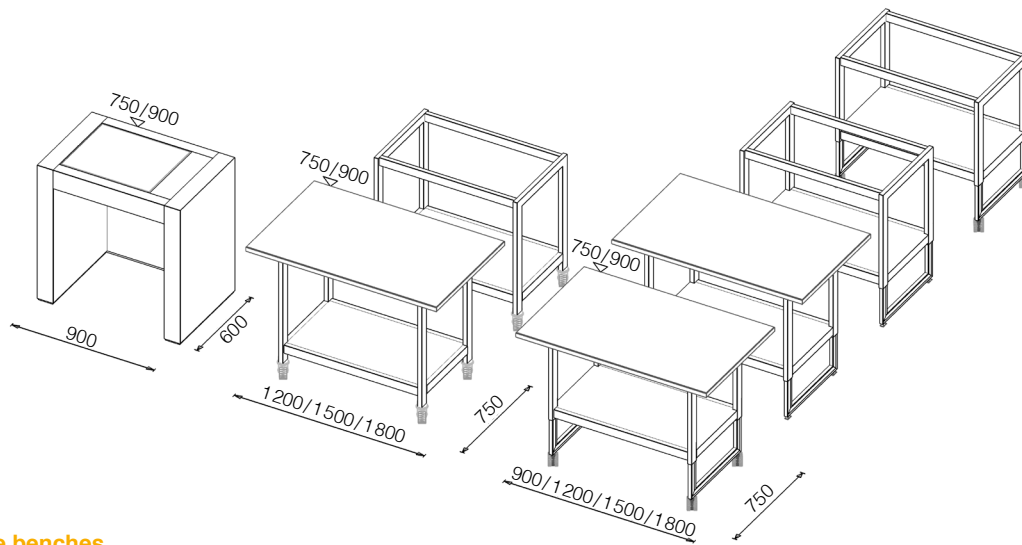
suited to a certain extent

# Single benches and frames

Mobile, load-bearing, extremely precise



## Dimensions Benches

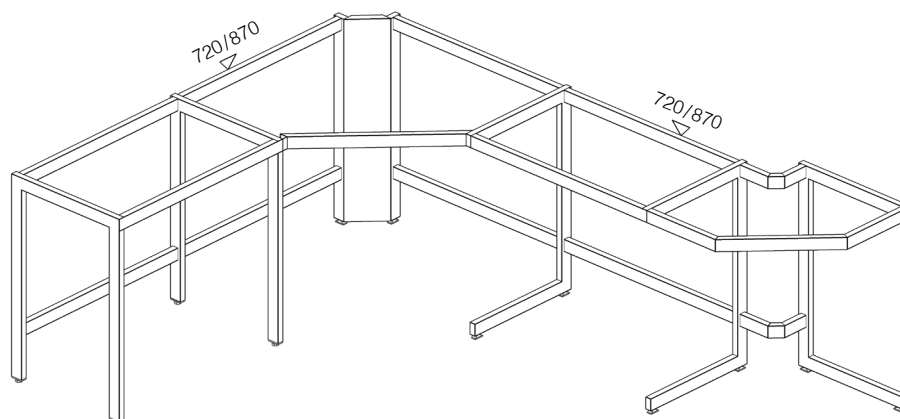


### Single benches

Dimensions in mm

	Width				Height		Worktop depth	
Single bench without castors	900	1200	1500	1800	variable 720 - 960		600	750
Single bench with castors	900	1200	1500	1800	variable 720 - 960		600	750
Heavy-duty table	–	1200	1500	1800	750	900	600	750
Balance bench, free-standing	900	–	–	–	750	900	600	–
Balance bench, integrated	ca. 900	–	–	–	750	900	–	–

## Dimensions Table frames



### Table frames

Dimensions in mm

	Width					Height		Worktop depth		
A frames	600	900	1200	1500	1800	720	870	600	750	900
C frames	600	900	1200	1500	1800	720	870	600	750	900

### Types laboratory single benches

- Balance bench free-standing or as integrated version
- Single benches with and without castors
  - with worktops made of Melamine Top Resist® and Trespa® TopLab®<sup>PLUS</sup>
  - work heights from 750 to 900 mm
  - shelves made of steel
- Heavy-duty table with castors
  - with worktops made of Melamine Top Resist® and Trespa® TopLab®<sup>PLUS</sup>
  - work heights from 750 to 900 mm
  - shelves made of steel
- Configurable table frames with worktops made of different materials
  - work heights from 750 to 900 mm
  - shelves made of steel

### Description

Work place, storage space or footprint for test setups and devices – **EXPLORIS® benches** fulfil a variety of tasks in the laboratory. If fixed, they can be flexibly adjusted in height and adapted to uneven floors. On castors, they enable mobile working and the transport of heavy equipment.

A specialist is the balance bench, which can be freestanding or installed in a worktop assembly, and is available in sitting and standing heights. Balance benches are used for the vibration-dampened installation of sensitive analytical balances, so that even the smallest quantities can be accurately weighed.

### Designs laboratory single benches

- In sitting and standing work height
- In different widths
- With shelves
- Load capacity
  - single bench, fixed 300 kg
  - single bench, mobile 100 kg
  - heavy-duty table:
    - maximum point load per table: 200 kg
    - maximum surface load per table: 400 kg

### Description: Frames

The frame is the backbone of every workplace – flexible and resistant at the same time. It not only supports the worktop, but also suspended under-bench cabinets.

Especially for the octagonal worktops and under-bench cabinets so typical of KÖTTERMANN, there are suitable frames in geometries from 90° to 360°.

### Designs balance benches

- Heights
  - 750 mm and 900 mm
- Width
  - 900 mm
- Depths
  - free-standing: 600 mm
  - integrated into the laboratory worktop: 500 mm

### Properties and Benefits

- As A-frame version for particularly high load capacity
- As C-frame version for extra legroom
- High load capacity in both versions:
  - C-frame: 250 kg / sqm bench surface
  - A-frame: 350 kg / sqm bench surface
- Floor under workbenches easily accessible for cleaning



# Basins and sinks

A clean solution



### Description

Wherever water is used in the laboratory, practical solutions are required. Whether basins or complete sinks - that depends entirely on your ideas and the available space. **EXPLORIS® Laboratory sinks and basins**, together with water fittings, draining racks, soap and towel dispensers and eye showers, form a well-equipped cleaning workplace that is adapted to safety standards.

### Properties and Benefits

- Four materials for basins
- Different installation types
  - flush installation
  - fitted with marine edge
  - underslung
  - welded without joints
- Various combinations of
  - basins and worktop materials
  - sinks in different versions and materials

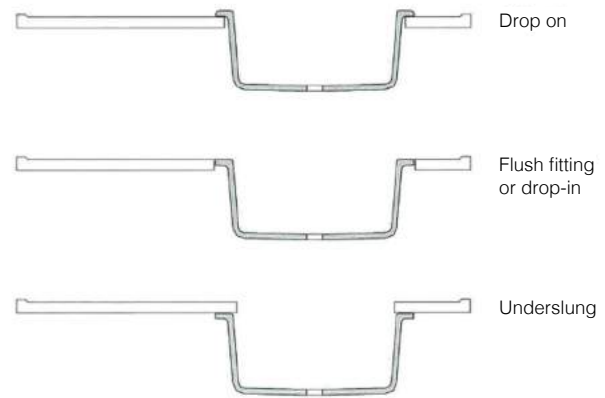
### Types of basins

- Four materials
  - solid ceramic, stainless steel, polypropylene, epoxy
- Different installation types (depending on material)
  - double bowl, drip cup, round bowl

### Types of sinks

- Three materials
  - ceramic, stainless steel, polypropylene
- Basins left, centred, right
- Drainboard left or right

### Installation options



### Basins and sinks

Dimensions in mm

	Materials	Widths	Depths	Equipment options
Basins	Ceramic, stainless steel, Polypropylene, epoxy	250 - 895	100 - 500	Mounted in the worktop, flush installation, underslung
Sinks	Ceramic, stainless steel, Polypropylene	1 200	600   750	Basins left/right, drainboard left/right
Front sinks	Ceramic, stainless steel, Polypropylene, epoxy, Trespa® TopLab <sup>PLUS</sup>	1 350	680	Basins centred, drainboard left and right
		1 500	680	
		1 650	680	
		1 800	680	
		1 950	680	

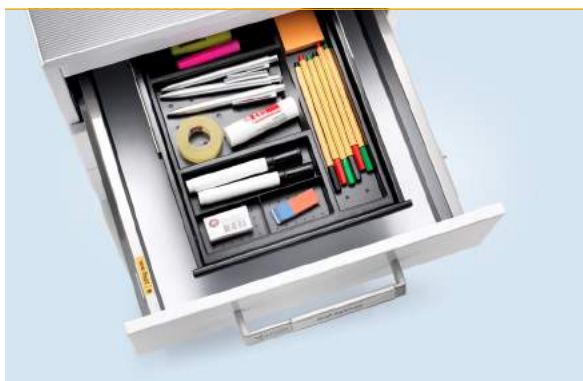
# Accessories

Things that make (laboratory) life easier

## General

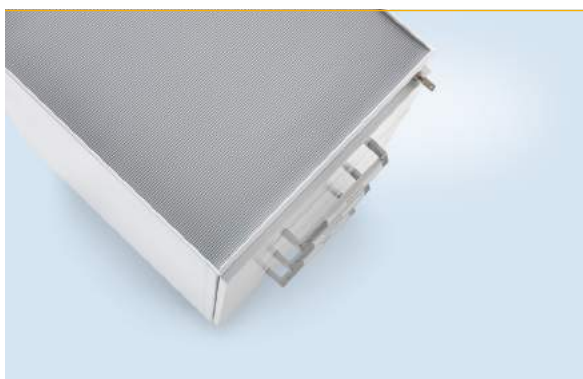
A laboratory has to meet many different requirements, which can change over time. A large additional range with laboratory chairs, shelves and cabinet pull-outs offer individual and practical equipment options.

## Drawers



- With automatic pull-in function and stop damping (full-extension drawers)
- Interior drawers
- Pencil tray

## Rubber mats



- For the tops of cabinets on castors
- As inlays for drawers

## Drawer dividers



- Plug-in system-set-divider for cabinet w 600mm, 1 crossbeam, frame with 2 compartments and 6 compartments
- Drawer divider for cabinet w 600mm, 10 stainless steel boxes, 1 terminal block, type Inox

## Ladders



- Rolling steps
- Stepladder
- Hook-in ladders for tall storage cabinets

### PC accessories



- PC/monitor holder, keyboard pull-outs, ducts and cable bushing

### Cleaning accessories



- Draining rack, soap dispenser, disinfectant dispenser, towel dispenser

### Cleaning set



- For work surfaces and furniture fronts
- Cleanliness and hygiene for safe and precise working
- Specially tested for the KÖTTERMANN surfaces and materials

### Chairs



- Chairs, stools and standing aids
- Partially height-adjustable
- With and without castors

### Shelves

- Shelves for underbench, tall storage, top-mounted and wall-mounted cabinets
- 30kg load capacity

### Waste bin

- For underbench cabinets with waste collector unit

### Equipment pull-outs

- For the installation in underbench cabinets
- 30kg load capacity

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[www.kottermann.com](http://www.kottermann.com)

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## KÖTTERMANN GMBH & CO KG

Industriestraße 2-10  
DE - 31311 Uetze/Hänigsen  
Phone: + 49 5147 976-0  
E-Mail: [exploris@koettermann.com](mailto:exploris@koettermann.com)

### AUSTRIA

#### KÖTTERMANN GMBH AUSTRIA

Autokaderstraße 29 – Bauteil 1  
AT - 1210 Wien  
Phone: + 43 1 544937420  
E-Mail: [exploris.at@koettermann.com](mailto:exploris.at@koettermann.com)

### BELGIUM

#### KÖTTERMANN BVBA

Keesinglaan 26  
BE - 2100 Antwerpen  
Phone: + 32 3 3609790  
E-Mail: [exploris.be@kottermann.com](mailto:exploris.be@kottermann.com)

### FRANCE

#### KÖTTERMANN SYSTEMLABOR S.A.S.

Parc Business Airport  
Bât. Epsilon, 80 rue Condorcet  
FR - 38090 Vaulx - Milieu  
Phone: + 33 474 952380  
E-Mail: [exploris.fr@koettermann.com](mailto:exploris.fr@koettermann.com)

### POLAND

#### KÖTTERMANN SP. Z O.O.

ul. Szamocka 8  
PL - 01 - 748 Warszawa  
Phone: + 48 22 8324760  
E-Mail: [exploris.pl@koettermann.com](mailto:exploris.pl@koettermann.com)

### SPAIN

#### KÖTTERMANN SYSTEMLABOR, S.A.

Calle Consuegra 7, 3°C  
ES - 28036 Madrid  
Phone: + 34 91 7320110  
E-Mail: [exploris.es@koettermann.com](mailto:exploris.es@koettermann.com)

### SWITZERLAND

#### KÖTTERMANN AG

Industriestrasse 37  
CH - 8625 Gossau ZH  
Phone: + 41 44 9361809  
E-Mail: [exploris.ch@koettermann.com](mailto:exploris.ch@koettermann.com)

### THE NETHERLANDS

#### KÖTTERMANN B.V.

Nieuwe Prinsenkade 3  
NL - 4811 VC Breda  
Phone: + 31 76 2030044  
E-Mail: [exploris.nl@kottermann.com](mailto:exploris.nl@kottermann.com)

### UK & IRELAND

#### KÖTTERMANN LTD.

3 The Courtyard, Furlong Road  
Bourne End  
UK - Buckinghamshire SL8 5AU  
Phone: + 44 1628 532211  
E-Mail: [exploris.uk@koettermann.com](mailto:exploris.uk@koettermann.com)