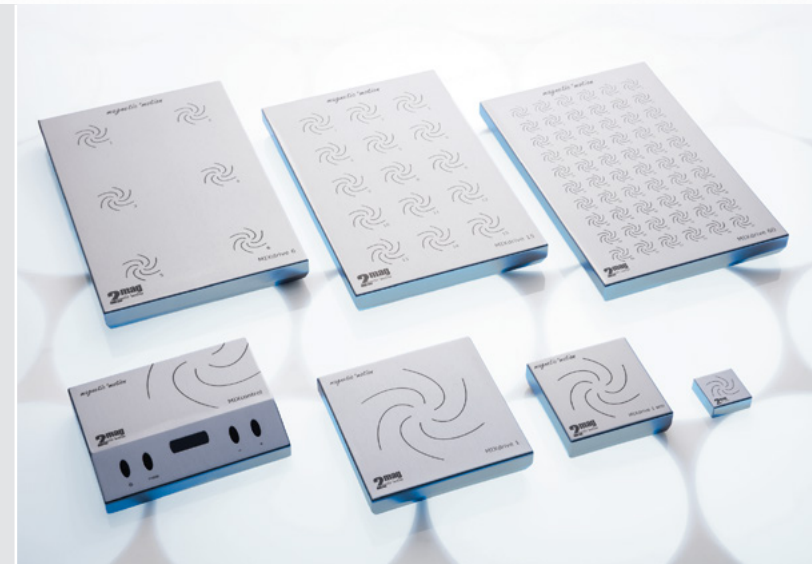


# MAGNETIC STIRRERS

## Well-proven concepts - innovative products



- 100% wear- and maintenance-free
- 30% more stirring power than comparable systems
- Super-flat, space-saving stirring drives - ideal for robotics
- Made for permanent operations
- Heat resistant and submersible
- Synchronous speed at all stirring positions
- Individual configurations fast and economic realizable
- Experience with inductive and magnetic drive concepts since 1974



## Inductive drive - maintenance- and wear-free

Our magnetic drives are working on the inductive principle. This means that instead of conventionally problematic motors with pull magnets, 2mag is working with stationary coils, which are defined flown through by alternating currents. The thereby generated electromagnetic rotating field is 100% wear- and maintenance-free.

The drive does not have any mechanically moved parts, as e.g. belts, bearings or motors. Therefore, the drives are reliable and absolutely wear-free even at high operation temperatures (up to +300 °C).



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with internal control unit  
from page 4



Multiple stirrers  
with internal control unit  
from page 7



Single point stirrers,  
submersible  
with external control unit  
from page 13



Multiple stirrers,  
submersible  
with external control unit  
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with 6 or 15 positions  
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Drybaths  
for bottles, beakers and flasks  
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Microtiter plate stirrers  
easy to integrate  
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Cell culture stirrers  
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Industrial stirrers  
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explosion-proof / autoclavable  
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Stirring bars  
powerful  
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for stirrers and control units  
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The main importance of our passion lies upon our customers and our products! 2mag is providing you more than 30 years of competence in the conception, development, production and sales of magnetic and inductive drive concepts, as e.g. magnetic stirrers. This experience paired with a great passion and emotion for our customers – and our products – enables the fast and economic creation of solutions precisely for your needs.

„Customizing“, the manufacturing of special made products, is our business, our competence and our passion! Individual requests will result in individual – and even more important – also economically realizable solutions.

[Ask us – test us – we are there for you!](#)

# SINGLE POINT STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, developed for the daily lab use and continuous operation.

## MIX 1

Ultra flat, wear-free magnetic stirrer with 1 stirring position, up to 10,000 ml stirring volume, also suitable for viscous media.



| Type2                          | MIX 1                                 |
|--------------------------------|---------------------------------------|
| Stirring points                | 1                                     |
| Stirring volume/stirring point | 1 - 10,000 ml                         |
| Speed range                    | 100 - 2,000 rpm                       |
| Stirring power (max.)          | 20 W                                  |
| Power setting                  | 5/10/15/20 W (4-step)                 |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 188 x 238 x 38 mm                     |
| Protection category            | IP65                                  |
| Weight (gross)                 | approx. 4.2 kg                        |
| Order no.                      | 30001                                 |

### Accessories

ASTEROID 40 stirring bar  
Stirring bar remover PTFE

100% maintenance-free and wear-free inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, speed range from 100 up to 2,000 rpm, jerk-free stirring even at low speeds.

4-step power setting for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar. QuickSet for quick setting of start- and maximum speed, automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

- ⚙ Maintenance- and wear-free
- ⚙ Up to 10 litres or for viscous media
- ⚙ Outstanding long-life quality
- ⚙ Developed and Made in Germany

# SINGLE POINT STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, developed for the daily lab use and continuous operation.

## MIX 1 eco

Ultra flat, wear-free magnetic stirrer with 1 stirring position, up to 3,000 ml stirring volume, also suitable for the operation with aggressive media.



| Type                    | MIX 1 eco                               |
|-------------------------|-----------------------------------------|
| Rührstellen             | 1                                       |
| Rührvolumen/Rührstelle  | 1 - 3.000 ml                            |
| Drehzahlbereich         | 120 - 1.400 rpm                         |
| Rührleistung (max.)     | 10 W                                    |
| Leistungseinstellung    | -                                       |
| Gehäusewerkstoff        | Edelstahl                               |
| Zul. Betriebstemperatur | -10 °C bis +50 °C (bei 80% Luftfeuchte) |
| Anschlusswert           | 100-240 V / 50-60 Hz / 0,7 A            |
| Maße (BxTxH)            | 120 x 120 x 35 mm                       |
| Schutzart               | IP65                                    |
| Versandgewicht (brutto) | ca. 1,8 kg                              |
| Order no.               | 30101                                   |

### Accessories

ASTEROID 25 stirring bar  
Stirring bar remover PTFE

Price-optimized magnetic stirrer, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for mixing of solutions, speed range from 120 up to 1,400 rpm, jerk-free stirring even at low speeds.

SoftStart for reliable catching/centring and safe accelerating of the stirring bar, fully encapsulated stainless steel housing, extremely robust construction.

- Price-optimized
- Maintenance- and wear-free
- Up to 3,000 ml
- Developed and Made in Germany

# SINGLE POINT STIRRER WITH ILLUMINATED STIRRING PLATE

Designed for chemical, biotechnical and medical applications of all kinds, developed for the hard daily lab use and uncompromising continuous operation. Particularly glare-free illumination of samples for the optical test range, e.g. color changes, titrations.

## luMIX

Ultra-flat, wear-free magnetic stirrer with 1 large stirring position and a luminescent plate, up to 3,000 mL stirring volume, also suitable for viscous media. Stirring function and illumination function separately switchable.



| Type                           | luMIX                                 |
|--------------------------------|---------------------------------------|
| Stirring points                | 1                                     |
| Stirring volume/stirring point | 1 - 3,000 ml                          |
| Speed range                    | 100 - 2,000 rpm                       |
| Stirring power (max.)          | 20 W                                  |
| Power setting                  | 25/50/75/100% (4-step)                |
| Light setting                  | 25/50/75/100% (4-step)                |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 188 x 238 x 44 mm                     |
| Protection category            | IP65                                  |
| Weight (gross)                 | approx. 4.4 kg                        |
| Order no.                      | 31001                                 |

### Accessories

ASTEROID 40 stirring bar  
Stirring bar remover PTFE

**Stirring** - 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, extremely wide speed range from 100 to 2,000 rpm, jerk-free stirring even at low speeds, 4-step power setting for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation.

**Light** - Bright and warming-free luminescent PMMA plate, white LEDs with homogenous brightness and variable light intensity (4-step), non-reflecting illumination..

Clear digital display for light-, speed- and power settings, SoftStart procedure for reliable catching/centering and safe accelerating of the stirring bar, QuickSet for quick setting of start and maximum speed, automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

- 🌀 Large stirring position, luminescent
- 🌀 Homogenous brightness, variable
- 🌀 Maintenance- and wear-free
- 🌀 Outstanding long-life quality
- 🌀 Developed and Made in Germany

# MULTIPLE STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIX 6 / MIX 15

Ultra-flat, wear-free magnetic stirrer with 6 stirring positions, optimised for simultaneous use of 6 x 1,000 ml Erlenmeyer flasks, or with 15 stirring positions, optimised for simultaneous work with 15 x 250 ml beakers (tall Typee).



| Type                           | MIX 6                                 | MIX 15 |
|--------------------------------|---------------------------------------|--------|
| Stirring points                | 6                                     | 15     |
| Stirring point distance        | 130 mm                                | 65 mm  |
| Stirring volume/stirring point | 1 - 3,000 ml                          |        |
| Speed range                    | 100 - 2,000 rpm                       |        |
| Stirring power (max.)          | 20 W                                  |        |
| Power setting                  | 5/10/15/20 W (4-step)                 |        |
| Material housing               | stainless steel                       |        |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |        |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |        |
| Dimensions (WxDxH)             | 245 x 425 x 38 mm                     |        |
| Protection category            | IP65                                  |        |
| Weight (gross)                 | approx. 9.0 kg                        |        |
| Order no.                      | 30006                                 | 30015  |

### Accessories

ASTEROID 25 stirring bar  
ASTEROID 40 stirring bar  
Stirring bar remover PTFE

6 or 15 stirring positions, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, power reserves up to 3,000 ml stirring volume per stirring point, extremely wide speed range of 100 to 2,000 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 4-step power setting of the stirrer, high power setting for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer.

Clear digital display for settings of stirrer speed and power, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar, QuickSet for quick setting of start- and maximum speed, Automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning..

- 🌀 Maintenance- and wear-free
- 🌀 For different vessel sizes
- 🌀 Outstanding long-life quality
- 🌀 Developed and Made in Germany

# MULTIPLE STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIX 15 eco

Ultra flat, wear-free magnetic stirrer with 15 stirring positions, suitable for 15 x 250 ml beaker glasses (tall form).



| Type                           | MIX 15 eco                            |
|--------------------------------|---------------------------------------|
| Stirring points                | 15                                    |
| Stirring point distance        | 65 mm                                 |
| Stirring volume/stirring point | 1 - 1,500 ml                          |
| Speed range                    | 120 - 1,200 rpm                       |
| Stirring power (max.)          | 10 W                                  |
| Power setting                  | -                                     |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 245 x 425 x 38 mm                     |
| Protection category            | IP65                                  |
| Weight (gross)                 | approx. 9.0 kg                        |
| Order no.                      | 30115                                 |

### Accessories

ASTEROID 25 stirring bar  
Stirring bar remover PTFE

Price-optimized magnetic stirrer with 15 stirring positions, 100% maintenance-free and wear-free by inductive 2mag Magnetic-Drive concept for powerful mixing of solutions, power reserves up to 1,500 ml per stirring position, speed range from 120 up to 1,200 rpm, 100% synchronized speeds, jerk-free stirring even at low speeds.

Clear digital display for stirrer speed settings, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar. Automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

- 🌀 Price-optimized
- 🌀 Maintenance- and wear-free
- 🌀 For different vessel sizes
- 🌀 Developed and Made in Germany

# MULTIPLE STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIX 8 XL

Ultra-flat magnetic stirrer, stirring point distance 90 mm, with 8 stirring positions, suitable for 8 x 600 ml beaker glasses (tall form)



| Type                           | MIX 8 XL                              |
|--------------------------------|---------------------------------------|
| Stirring points                | 8                                     |
| Stirring point distance        | 90 mm                                 |
| Stirring volume/stirring point | 1 - 3,000 ml                          |
| Speed range                    | 100 - 1,600 rpm                       |
| Stirring power (max.)          | 20 W                                  |
| Power setting                  | 5/10/15/20 W (4-step)                 |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 185 x 420 x 38 mm                     |
| Protection category            | IP65                                  |
| Weight (gross)                 | approx. 7.8 kg                        |
| Order no.                      | 30208                                 |

### Accessories

ASTEROID 25 stirring bar  
Stirring bar remover PTFE

Powerful 8 stirring positions, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, power reserves up to 3,000 ml per stirring point, extremely wide speed range of 100 to 1,600 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 4-step power setting of the stirrer, high stirring power for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer.

Clear digital display for settings of stirrer speed and power, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar, QuickSet for quick setting of start- and maximum speed, automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

- ⚡ Maintenance- and wear-free
- ⚡ For different vessel sizes
- ⚡ Outstanding long-life quality
- ⚡ Developed and Made in Germany

# MULTIPLE STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIX 12 XL

Ultra-flat magnetic stirrer, stirring point distance 90 mm, with 12 stirring positions, suitable for 12 x 600 ml beaker glasses (tall form).



| Type                           | MIX 12 XL                             |
|--------------------------------|---------------------------------------|
| Stirring points                | 12                                    |
| Stirring point distance        | 90 mm                                 |
| Stirring volume/stirring point | 1 - 3,000 ml                          |
| Speed range                    | 100 - 1,600 rpm                       |
| Stirring power (max.)          | 20 W                                  |
| Power setting                  | 5/10/15/20 W (4-step)                 |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 275 x 420 x 38 mm                     |
| Protection category            | IP65                                  |
| Weight (gross)                 | approx. 10.2 kg                       |
| Order no.                      | 30212                                 |

### Accessories

ASTEROID 25 stirring bar  
Stirring bar remover PTFE

Powerful 12 stirring positions, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, power reserves up to 3,000 ml per stirring point, extremely wide speed range of 100 to 1,600 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 4-step power setting of the stirrer, high stirring power for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer.

Clear digital display for settings of stirrer speed and power, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar, QuickSet for quick setting of start- and maximum speed, automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

- ⚙ Maintenance- and wear-free
- ⚙ For different vessel sizes
- ⚙ Outstanding long-life quality
- ⚙ Developed and Made in Germany

# MULTIPLE STIRRERS WITH INTERNAL CONTROL

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIX 4 MS

Ultra-flat magnetic stirrer with 4 individually controlled stirring positions, suitable for 4 x 2,000 ml Erlenmeyer flasks.



| Type                           | MIX 4 MS                              |
|--------------------------------|---------------------------------------|
| Stirring points                | 4                                     |
| Stirring point distance        | 140 mm                                |
| Stirring volume/stirring point | 1 - 3,000 ml                          |
| Speed range                    | 100 - 2,000 rpm                       |
| Stirring power (max.)          | 28 W (4 x 7 W)                        |
| Power setting                  | -                                     |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 245 x 425 x 38 mm                     |
| Protection category            | IP65                                  |
| Weight (gross)                 | approx. 9.1 kg                        |
| Order no.                      | 30404                                 |

### Accessories

ASTEROID 40 stirring bar  
Stirring bar remover PTFE

Powerful 4 stirring positions, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, power reserves up to 3,000 ml per stirring point, individual and independent speed setting for each stirring drive (Master-Slave-Technology), also ON/OFF function, synchronous speed mode for all positions, extremely wide speed range of 100 to 2,000 rpm, jerk-free stirring even at low speeds.

Clear digital display for settings of stirrer speeds, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar, automatic memory function to save the last settings, outstanding long-life cycle of the hermetically sealed drive system, resistant stainless steel housing for easy and fast cleaning.

- 🌀 4 independent stirring positions
- 🌀 Wear- and maintenance-free
- 🌀 Space-saving
- 🌀 Outstanding long-life quality
- 🌀 Developed and Made in Germany

## Possible combinations of MIXdrive with MIXcontrol - unbeatably durable and powerful

| 2mag - MIXphilosophy |                                                                                                                                                                                             |                                                                                                                              |                |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------|
| Stirring drive*      | control unit                                                                                                                                                                                |                                                                                                                              |                |
| MIXdrive 60 (HT)     | MIXcontrol 40                                                                                                                                                                               | MIXcontrol 20                                                                                                                | MIXcontrol eco |
| MIXdrive 15 (HT)     |                                                                                                                                                                                             |                                                                                                                              |                |
| MIXdrive 6 (HT)      |                                                                                                                                                                                             |                                                                                                                              |                |
| MIXdrive 1 (HT)      | MIXcontrol 40<br>can only be used when connecting two MIXdrive 1 (HT) units or in combination with distriBOX 4 and connection of two or four MIXdrive 1 (HT) drives                         | MIXcontrol 20                                                                                                                | MIXcontrol eco |
| MIXdrive 1 eco (HT)  | MIXcontrol 40<br>Can only be used when connecting two MIXdrive 1 eco (HT) units or in combination with distriBOX 4 or distriBOX 8 and connection of at least two MIXdrive 1 eco (HT) drives | MIXcontrol 20<br>can only be used in combination with distriBOX 4 and connection of at least two MIXdrive 1 eco (HT) drives. | MIXcontrol eco |
| MIXdrive 1 XS (HT)   | -                                                                                                                                                                                           | MIXcontrol 20<br>can only be used in combination with distriBOX 8 and connection of eight MIXdrive 1 XS (HT) drives.         | MIXcontrol eco |
| cuvetteMIXdrive      | -                                                                                                                                                                                           | -                                                                                                                            | MIXcontrol eco |

The individual combination possibilities of three control unit Types MIXcontrol with the stirring drives MIXdrive always offer you the maximum quality for the optimum value for money exactly complementary to your needs.

The control units MIXcontrol define thereby the performance of the stirrers and the operation comfort.

The stirring drives MIXdrive are the indestructible equipment for your tasks in all days' laboratory work. No matter whether you decide for a serial device or a custom-made device, our aim is always: quality, stability and a reliable and affordable solution for exactly your needs. All MIXdrive are, with regard to the inner life, technically identical and can be combines with any of the 3 different control units MIXcontrol.

We offer you different stirring combinations for your individual applications. In case there will be no adequate stirrer available for you, we will be able to shortly work out a solution according to your needs.

[Ask us – test us – we are there for you!](#)

\* Basic up to +50 °C in air/immersed or HT (High Temperature) up to +200 °C (in air)/up to +95 °C (immersed)

# SINGLE POINT STIRRING DRIVES WITH EXTERNAL CONTROL UNIT

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIXdrive 1

Ultra flat, wear-free magnetic stirrer with 1 stirring position, suitable for vessels up to 10,000 ml.



| Type                               | MIXdrive 1                                        |
|------------------------------------|---------------------------------------------------|
| Stirring points                    | 1                                                 |
| Stirring volume/stirring point     | 1 - 10,000 ml                                     |
| Stirring power (max.)              | 20 W                                              |
| Material housing                   | stainless steel                                   |
| Perm. operation conditions (Basic) | -10 °C up to +50 °C in air, up to +50 °C in water |
| Perm. operation conditions (HT)    | up to +200 °C in air, up to +95 °C in water       |
| Operating voltage (max.)           | 48 VDC                                            |
| Dimensions (WxDxH)                 | 180 x 180 x 38 mm                                 |
| Protection category                | IP68                                              |
| Weight (gross)                     | approx. 3.5 kg                                    |
| Order no. Basic version            | 40001                                             |
| Order no. HT version               | 40201                                             |

Please order control unit separately!

Compatible control units

MIXcontrol eco

MIXcontrol eco DINrail

MIXcontrol 20

MIXcontrol 40 (only in combination with distriBOX 4)

Accessories

ASTEROID 40 stirring bar

Stirring bar remover PTFE

Extension cord for MIXdrive

distriBOX 4 distributor

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, jerk-free stirring even at low speeds.

Fully encapsulated and hermetically sealed stainless steel housing, IP68, water-, dust-, and germproof, extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- or oil baths, suitable for the use in CO<sub>2</sub>-incubators and ovens.

Two different temperature areas available:

Basic-version up to +50 °C, HT-version up to +95 °C submerged in water baths and up to +200 °C in ovens, individual dimensions on request.

🌀 Wear-free magnetic stirrer, up to +200 °C

🌀 Submersible, up to +95 °C

🌀 Extremely robust construction

🌀 Integrable in systems

🌀 Developed and Made in Germany

# SINGLE POINT STIRRING DRIVES WITH EXTERNAL CONTROL UNIT

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIXdrive 1 eco

Ultra flat, wear-free magnetic stirrer with 1 stirring position, suitable for vessels up to 3,000 ml.



| Type                               | MIXdrive 1 eco                                    |
|------------------------------------|---------------------------------------------------|
| Stirring points                    | 1                                                 |
| Stirring volume/stirring point     | 1 - 3,000 ml                                      |
| Stirring power (max.)              | 10 W                                              |
| Material housing                   | stainless steel                                   |
| Perm. operation conditions (Basic) | -10 °C up to +50 °C in air, up to +50 °C in water |
| Perm. operation conditions (HT)    | up to +200 °C in air, up to +95 °C in water       |
| Operating voltage (max.)           | 48 VDC                                            |
| Dimensions (WxDxH)                 | 120 x 120 x 35 mm                                 |
| Protection category                | IP68                                              |
| Weight (gross)                     | approx. 1.6 kg                                    |
| Order no. Basic version            | 40101                                             |
| Order no. HT version               | 40301                                             |

Please order control unit separately!

Compatible control units

[MIXcontrol eco](#)

[MIXcontrol eco DINrail](#)

[MIXcontrol 20](#) (only in combination with [distribOX 4](#))

[MIXcontrol 40](#) (only in combination with [distribOX 4/8](#))

Accessories

[ASTEROID 25](#) stirring bar

[Stirring bar remover PTFE](#)

[Extension cord for MIXdrive](#)

[distribOX 4/8](#) distributor

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag Magnetic-Drive concept for powerful mixing of solutions, jerk-free stirring even at low speeds.

Fully encapsulated and hermetically sealed stainless steel housing, IP68, water-, dust-, and germproof, extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- or oil baths, suitable for the use in CO<sub>2</sub>-incubators and ovens.

Two different temperature areas available:

Basic-version up to +50 °C, HT-version up to +95 °C submerged in water baths and up to +200 °C in ovens, individual dimensions on request.

🌀 Wear-free magnetic stirrer, up to +200 °C

🌀 Submersible, up to +95 °C

🌀 Extremely robust construction

🌀 Integrable in systems

🌀 Developed and Made in Germany

# SINGLE POINT STIRRING DRIVES WITH EXTERNAL CONTROL UNIT

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIXdrive 1 XS

Ultra flat, wear-free magnetic stirrer with 1 stirring position, optimized for stirring volume up to 1,000 ml, ideal size for integration.



| Type                               | MIXdrive 1 XS                                     |
|------------------------------------|---------------------------------------------------|
| Stirring points                    | 1                                                 |
| Stirring volume/stirring point     | 1 - 1,000 ml                                      |
| Stirring power (max.)              | 10 W                                              |
| Material housing                   | stainless steel                                   |
| Perm. operation conditions (Basic) | -10 °C up to +50 °C in air, up to +50 °C in water |
| Perm. operation conditions (HT)    | up to +200 °C in air, up to +95 °C in water       |
| Operating voltage (max.)           | 48 VDC                                            |
| Dimensions (WxDxH)                 | 48 x 48 x 18 mm                                   |
| Protection category                | IP68                                              |
| Weight (gross)                     | approx. 0.36 kg                                   |
| Order no. Basic version            | 40300                                             |
| Order no. HT version               | 40303                                             |

Please order control unit separately!

Compatible control units

[MIXcontrol eco](#)

[MIXcontrol eco DINrail](#)

[MIXcontrol 20](#) (only in combination with [distribOX 8](#))

Accessories

[ASTEROID 25](#) stirring bar

[Stirring bar remover PTFE](#)

[Extension cord for MIXdrive](#)

[distribOX 4/8](#) distributor

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, jerk-free stirring even at low speeds.

Fully encapsulated and hermetically sealed stainless steel housing, thread M4 integrated in stainless-steel bottom plate (not HT-version), IP68, water-, dust- and germproof, extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- or oil baths, suitable for the use in CO<sub>2</sub>-incubators and ovens.

Two different temperature areas available:

Basic-version up to +50 °C, HT-version up to +95 °C submerged in water baths and up to +200 °C in ovens, individual dimensions on request.

- 🌀 Wear-free magnetic stirrer, up to +200 °C
- 🌀 Submersible, up to +95 °C
- 🌀 Extremely robust construction
- 🌀 Integrable in systems
- 🌀 Developed and Made in Germany

# SINGLE POINT STIRRING DRIVES WITH EXTERNAL CONTROL UNIT

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## cuvetteMIXdrive 1

Miniaturized, wear-free magnetic stirrer with 1 stirring position for cuvettes, optimized for stirring volume up to 25 ml, ideal size for system integration e.g. in photometer.



| Type                           | cuvetteMIXdrive 1                                 |
|--------------------------------|---------------------------------------------------|
| Stirring points                | 1                                                 |
| Stirring volume/stirring point | 1 - 25 ml                                         |
| Stirring power (max.)          | 10 W                                              |
| Material housing               | PUR                                               |
| Permitted operation conditions | -10 °C up to +50 °C in air, up to +50 °C in water |
| Operating voltage (max.)       | 24 VDC                                            |
| Dimensions (WxDxH)             | 12.5 x 12. x 6 mm                                 |
| Protection category            | IP68                                              |
| Weight (gross)                 | approx. 0.14 kg                                   |
| Order no.                      | 40400                                             |

Please order control unit separately!

Compatible control units

[MIXcontrol eco](#)

[MIXcontrol eco DINrail](#)

Accessories

[Extension cord for MIXdrive](#)

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for reliable mixing of solutions, jerk-free stirring even at low speeds.

Fully encapsulated and hermetically sealed polyurethane housing, IP68, water-, dust- and germproof.

Extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- or oil baths, suitable for the use in CO2-incubators and ovens.

- ⚡ Maintenance- and wear-free
- ⚡ Submersible up to +50 °C
- ⚡ Ideal for integration
- ⚡ Outstanding long-life quality
- ⚡ Developed and Made in Germany

# MULTIPLE STIRRING DRIVES WITH EXTERNAL CONTROL UNIT

Designed for chemical, biotechnical and medical applications of all kinds, for the hard daily lab use and uncompromising continuous operation.

## MIXdrive 6 / MIXdrive 15 / MIXdrive 60

Ultra-flat, 100% maintenance- and wear-free magnetic stirrer with inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions.



| Type                               | MIXdrive 6                                        | MIXdrive 15 | MIXdrive 60 |
|------------------------------------|---------------------------------------------------|-------------|-------------|
| Stirring points                    | 6                                                 | 15          | 60          |
| Stirring point distance            | 130 mm                                            | 65 mm       | 32.5 mm     |
| Stirring volume/stirring point     | 1 - 3.000 ml                                      |             | 1 - 500 ml  |
| Stirring power (max.)              | 40 W                                              |             |             |
| Material housing                   | stainless steel                                   |             |             |
| Perm. operation conditions (Basic) | -10 °C up to +50 °C in air, up to +50 °C in water |             |             |
| Perm. operation conditions (HT)    | up to +200 °C in air, up to +95 °C in water       |             |             |
| Operating voltage (max.)           | 48 VDC                                            |             |             |
| Dimensions (WxDxH)                 | 245 x 375 x 38 mm                                 |             |             |
| Protection category                | IP68                                              |             |             |
| Weight (gross) approx.             | 9.4 kg                                            | 9.5 kg      | 8.9 kg      |
| Order no. Basic version            | 40006                                             | 40015       | 40060       |
| Order no. HT version               | 40206                                             | 40215       | 40260       |

Please order control unit separately!

Compatible control units

MIXcontrol eco  
MIXcontrol eco DINrail  
MIXcontrol 20  
MIXcontrol 40

Accessories

ASTEROID 25/40 stirring bars  
Stirring bar remover PTFE  
Extension cord for MIXdrive

### MIXdrive 6

6 stirring positions, suitable for 6 x 1,000 ml Erlenmeyer flasks, stirring point distance 130 mm.

### MIXdrive 15

15 stirring positions, suitable for 15 x 250 ml beaker glasses (tall form), stirring point distance 65 mm.

### MIXdrive 60

60 (6x10) stirring positions, suitable for 60 testing tubes, ideal for integration, stirring point distance 32.5 mm.

100% synchronized speeds, jerk-free stirring even at low speeds. Fully encapsulated and hermetically sealed stainless steel housing, IP68, water-, dust-, and germproof.

Extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- or oil baths, suitable for the use in CO<sub>2</sub>-incubators and ovens.

Two different temperature areas available:  
Basic-version up to +50 °C, HT-version up to +95 °C  
submerged in water baths and up to +200 °C in ovens, individual dimensions on request.

- 🌀 Wear-free magnetic stirrer, up to +200 °C
- 🌀 Submersible, up to +95 °C
- 🌀 Extremely robust construction
- 🌀 Integrable in systems
- 🌀 Developed and Made in Germany

## MIXcontrol eco

Price-optimized control unit for small medium volumes and the connection of 1 stirring drive MIXdrive.



|                            |                                     |
|----------------------------|-------------------------------------|
| Type                       | MIXcontrol eco                      |
| Speed range                | 120 - 1,200 rpm                     |
| Stirring power (max.)      | 10 W                                |
| Power setting              | -                                   |
| Material housing           | plastic                             |
| Perm. operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data            | 100-240 V / 50-60 Hz / 0.75 A       |
| Dimensions (WxDxH)         | 65 x 50 x 45 mm                     |
| Protection category        | IP20                                |
| Weight (gross)             | approx. 0.5 kg                      |
| Order no.                  | 90100                               |

### Compatible stirring drives

MIXdrive 1  
MIXdrive 1 eco  
MIXdrive 1 XS  
cuvetteMIXdrive 1  
MIXdrive 6  
MIXdrive 15  
MIXdrive 60

Control unit with 10 watts stirring power, speed range from 100 up to 1,200 rpm, SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

Software changes on request.

- Price-optimized
- Speed range 120 up to 1,200 rpm
- SoftStart

## MIXcontrol eco DINrail

Price-optimized control unit for DIN installation (electrical cabinets).



| Type                       | MIXcontrol eco DINrail              |
|----------------------------|-------------------------------------|
| Speed range                | 120 - 1,200 rpm                     |
| Stirring power (max.)      | 10 W                                |
| Power setting              | -                                   |
| Material housing           | plastic                             |
| Perm. operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Operating voltage (max.)   | 24 VDC                              |
| Dimensions (WxDxH)         | 24 x 100 x 120 mm                   |
| Protection category        | IP20                                |
| Weight (gross)             | approx. 0.25 kg                     |
| Order no. Potentiometer    | 90140                               |
| Order no. 0-10 V           | 90150                               |
| Order no. RS232            | 90160                               |

### Compatible stirring drives

MIXdrive 1  
MIXdrive 1 eco  
MIXdrive 1 XS  
cuvetteMIXdrive 1  
MIXdrive 6  
MIXdrive 15  
MIXdrive 60

Control unit for DINrail installation (electrical cabinets) for small to medium volumes and the connection of one stirring drive MIXdrive, with analog interface 0-10 V, RS232 or potentiometer for ON/OFF and speed adjustment.

Control unit with 10 watts stirring power, speed range from 100 to 1,200 rpm, SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

- ⚙️ DINrail installation (electrical cabinets)
- ⚙️ Speed range 120 up to 1,200 rpm
- ⚙️ SoftStart

## MIXcontrol 20

Universal control unit for the connection of 1 stirring drive MIXdrive.



|                                |                                     |
|--------------------------------|-------------------------------------|
| Type                           | MIXcontrol 20                       |
| Speed range                    | 100 - 1,600 rpm                     |
| Stirring power (max.)          | 20 W                                |
| Power setting                  | 25/50/75/100% (4-step)              |
| Material housing               | stainless steel                     |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A        |
| Dimensions (WxDxH)             | 200 x 155 x 38 mm                   |
| Protection category            | IP20                                |
| Weight (gross)                 | approx. 1.9 kg                      |
| Order no.                      | 90200                               |
| Order no. RS232                | 90210                               |

### Compatible stirring drives

MIXdrive 1  
 MIXdrive 1 eco (only in combination with distriBOX 4)  
 MIXdrive 1 XS (only in combination with distriBOX 8)  
 MIXdrive 6  
 MIXdrive 15  
 MIXdrive 60

Control unit with 20 watts stirring power, speed range from 100 up to 1,600 rpm, jerk-free stirring also at low speeds, power setting (4-steps) for high power with regard to large and viscous stirring amounts and reduced power for the warming-free continuous operation of MIXdrive stirring drives.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

QuickSet for quick setting of start- and maximum speed, automatic memory function to save the last settings, resistant stainless steel housing, easy to clean.

### Also available with RS232 interface.

Interfaces (0-10 V, 4-20 mA, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and customized software adaption on request.

- ⚡ 20 watts stirring power
- ⚡ 4-step power setting
- ⚡ Speed range 100 - 1,600 rpm
- ⚡ Developed and Made in Germany

# CONTROL UNITS FOR MIXdrive STIRRING DRIVES

Designed for 2mag stirring drives MIXdrive.

## MIXcontrol 40

Powerful control unit, for 2mag MIXdrive series, developed for the hard daily lab use and uncompromising continuous operation.



|                                |                                     |
|--------------------------------|-------------------------------------|
| Type                           | MIXcontrol 40                       |
| Speed range                    | 100 - 2,000 rpm                     |
| Stirring power (max.)          | 40 W                                |
| Power setting                  | 10 - 100% (10-step)                 |
| Material housing               | stainless steel                     |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A        |
| Dimensions (WxDxH)             | 200 x 155 x 38 mm                   |
| Protection category            | IP20                                |
| Weight (gross)                 | approx. 1.9 kg                      |
| Order no.                      | 90400                               |
| Order no. RS232                | 90410                               |

### Compatible stirring drives

MIXdrive 1 (only in combination with distriBOX 4)  
MIXdrive 1 eco (only in combination with distriBOX 4/8)  
MIXdrive 6  
MIXdrive 15  
MIXdrive 60

Powerful control unit for the connection of up to two stirring drives MIXdrive, powerful 40 watts stirring power, wide speed range from 100 up to 2,000 rpm, jerk-free stirring also at low speeds, power setting (10-steps) for high power with regard to large and viscous stirring amounts and reduced power for the warming-free continuous operation of MIXdrive stirring drives.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar. QuickSet for quick setting of start- and maximum speed, automatic memory function to save the last settings, resistant stainless steel housing, easy to clean.

### Also available with RS232 interface.

Interfaces (0-10 V, 4-20 mA, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and customized software adaption on request.

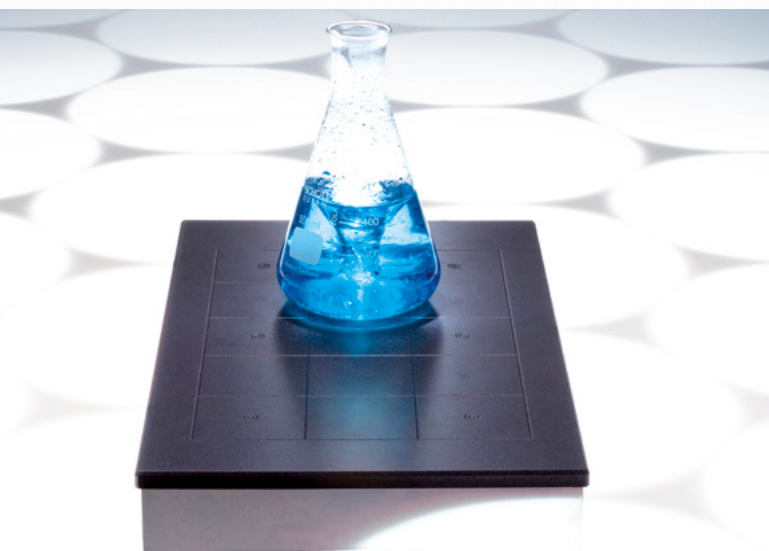
- ⚡ 40 watts stirring power
- ⚡ For connection of 2 stirring drives MIXdrive
- ⚡ Speed range 100 - 2,000 rpm
- ⚡ Developed and Made in Germany

# STIRRING HOTPLATES WITH EXTERNAL CONTROL UNIT

For mass screenings, incubating or concentrating of probes, evaporating of solvents, simple and easy system integration.

## STIRRING HOTPLATE 6

Stirring-heating plate with 6 stirring positions, stirring point distance 130 mm, suitable for 6 x 1,000 ml Erlenmeyer flasks.



| Type                           | HOTPLATE 6           |
|--------------------------------|----------------------|
| Stirring points                | 6                    |
| Stirring point distance        | 130 mm               |
| Stirring volume/stirring point | 1 - 1,500 ml         |
| Stirring power (max.)          | 40 W                 |
| Power setting                  | 10 - 100% (10-step)  |
| Temperature range              | +40 °C up to +200 °C |
| Speed range                    | 100 - 2,000 rpm      |
| Operating voltage              | 230 V                |
| Heating power (max.) at 230 V  | 1,200 W              |
| Dimensions (WxDxH)             | 250 x 430 x 75 mm    |
| Protection category            | IP20                 |
| Weight (gross)                 | approx. 13 kg        |
| Order no.                      | 66306                |

### Accessories

External probe sensor Pt100  
Stand for heatMIXcontrol

### Scope of delivery

STIRRING HOTPLATE 6  
heatMIXcontrol control unit

**Stirring** - Powerful 6 or 15 stirring points, maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, extremely wide speed range of 100 to 2,000 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power setting of the stirrer, high power setting for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

**Heating** - Heating plate made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, fast heating-up by powerful integrated electrical heater, homogenous temperature distribution, maximum heating temperature +200 °C.

PowerDetect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, independent over-temperature protection inside the plate.

Inclusive separate control unit for operation of magnetic stirrer and integrated heater, for long-term protection of the electronics against aggressive liquids and gases as well as thermal influences, stainless steel housing.

- Fast heating-up
- Energy-saving
- For all vessel sizes and shapes
- Simple system integration
- Developed and Made in Germany

# STIRRING HOTPLATES WITH EXTERNAL CONTROL UNIT

For mass screenings, incubating or concentrating of probes, evaporating of solvents, simple and easy system integration.

## STIRRING HOTPLATE 15

Stirring-heating plate with 15 stirring positions, stirring point distance 65 mm, suitable for 15 x 250 ml beaker glasses (tall form).



| Type                           | HOTPLATE 15          |
|--------------------------------|----------------------|
| Stirring points                | 15                   |
| Stirring point distance        | 65 mm                |
| Stirring volume/stirring point | 1 - 1,000 ml         |
| Stirring power (max.)          | 40 W                 |
| Power setting                  | 10 - 100% (10-step)  |
| Temperature range              | +40 °C up to +200 °C |
| Speed range                    | 100 - 2,000 rpm      |
| Operating voltage              | 230 V                |
| Heating power (max.) at 230 V  | 1,200 W              |
| Dimensions (WxDxH)             | 250 x 430 x 75 mm    |
| Protection category            | IP20                 |
| Weight (gross)                 | approx. 13 kg        |
| Order no.                      | 66315                |

### Accessories

External probe sensor Pt100  
Stand for heatMIXcontrol

### Scope of delivery

STIRRING HOTPLATE 15  
heatMIXcontrol control unit

**Stirring** - Powerful 6 or 15 stirring points, maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, extremely wide speed range of 100 to 2,000 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power setting of the stirrer, high power setting for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

**Heating** - Heating plate made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, fast heating-up by powerful integrated electrical heater, homogenous temperature distribution, maximum heating temperature +200 °C.

PowerDetect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, independent over-temperature protection inside the plate.

Inclusive separate control unit for operation of magnetic stirrer and integrated heater, for long-term protection of the electronics against aggressive liquids and gases as well as thermal influences, stainless steel housing.

- Fast heating-up
- Energy-saving
- For all vessel sizes and shapes
- Simple system integration
- Developed and Made in Germany

# STIRRING-HEATING BLOCKS WITH EXTERNAL CONTROL UNIT

For viscosity measurements, R&D, combinatorial chemistry, biological applications, testing the solution behavior of synthetic materials, quality control in food, chemical and waste water technology, simple and easy system integration.

## STIRRING DRYBATH 15-100

Stirring-heating block combination with 15 bore holes (Ø 57.5 mm, depth 48 mm, distance 65 mm), suitable for 100 ml lab-flasks and for 150 ml beakers tall form.



| Type                           | DRYBATH 15-100       |
|--------------------------------|----------------------|
| Stirring points                | 15                   |
| Stirring point distance        | 65 mm                |
| Bore holes Ø/T                 | Ø 57.5 / 48 mm       |
| Stirring volume/stirring point | 1 - 150 ml           |
| Stirring power (max.)          | 40 W                 |
| Power setting                  | 10 - 100% (10-step)  |
| Temperature range              | +40 °C up to +200 °C |
| Speed range                    | 100 - 2,000 rpm      |
| Operating voltage              | 230 V                |
| Heating power (max.) at 230 V  | 1,000 W              |
| Dimensions (WxDxH)             | 280 x 430 x 120 mm   |
| Protection category            | IP20                 |
| Weight (gross)                 | approx. 20 kg        |
| Order no.                      | 63100                |

### Accessories

External probe sensor Pt100  
Stand for heatMIXcontrol  
Reducing adapters

### Scope of delivery

STIRRING DRYBATH 15-100  
heatMIXcontrol control unit

**Stirring** - maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, extremely wide speed range of 100 to 2,000 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power setting of the stirrer, high stirring power for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

**Heating** - Heating plate made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, fast heating-up by powerful integrated electrical heater, homogenous temperature distribution, maximum heating temperature +200 °C.

PowerDetect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, independent over-temperature protection inside the plate.

Inclusive separate control unit for operation of magnetic stirrer and integrated heater, for long-term protection of the electronics against aggressive liquids and gases as well as thermal influences, stainless steel housing.

Customised designs and other bore diameters available on request.

- Fast heating-up
- Energy-saving
- Insulated frame
- Durable quality
- Developed and Made in Germany

# STIRRING-HEATING BLOCKS WITH EXTERNAL CONTROL UNIT

For viscosity measurements, R&D, combinatorial chemistry, biological applications, testing the solution behavior of synthetic materials, quality control in food, chemical and waste water technology, simple and easy system integration.

## STIRRING DRYBATH 15-250

Stirring-heating block combination with 15 bore holes (ø 71.5 mm, depth 78 mm, distance 84 mm), suitable for 250 ml lab-flasks and for 400 ml beaker glasses tall form.



| Type                           | DRYBATH 15-250       |
|--------------------------------|----------------------|
| Stirring points                | 15                   |
| Stirring point distance        | 84 mm                |
| Bore holes Ø/T                 | Ø 71.5 / 78 mm       |
| Stirring volume/stirring point | 1 - 400 ml           |
| Stirring power (max.)          | 40 W                 |
| Power setting                  | 10 - 100% (10-step)  |
| Temperature range              | +40 °C up to +200 °C |
| Speed range                    | 100 - 2,000 rpm      |
| Operating voltage              | 230 V                |
| Heating power (max.) at 230 V  | 1,150 W              |
| Dimensions (WxDxH)             | 335 x 515 x 150 mm   |
| Protection category            | IP20                 |
| Weight (gross)                 | approx. 35 kg        |
| Order no.                      | 63250                |

### Accessories

External probe sensor Pt100  
Stand for heatMIXcontrol  
Reducing adapters

### Scope of delivery

STIRRING DRYBATH 15-250  
heatMIXcontrol control unit

**Stirring** - maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept, extremely wide speed range of 100 to 2,000 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power setting of the stirrer, high stirring power for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

**Heating** - Heating plate made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, fast heating-up by powerful integrated electrical heater, homogenous temperature distribution, maximum heating temperature +200 °C.

PowerDetect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, independent over-temperature protection inside the plate.

Inclusive separate control unit for operation of magnetic stirrer and integrated heater, for long-term protection of the electronics against aggressive liquids and gases as well as thermal influences, stainless steel housing.

Customised designs and other bore diameters available on request.

- Fast heating-up
- Energy-saving
- Insulated frame
- Durable quality
- Developed and Made in Germany

# STIRRING-HEATING BLOCKS WITH EXTERNAL CONTROL UNIT

For viscosity measurements, R&D, combinatorial chemistry, biological applications, testing the solution behavior of synthetic materials, quality control in food, chemical and waste water technology, simple and easy system integration.

## STIRRING DRYBATH 8-250 ERL

Stirring-heating block combination with 8 stirring positions (ø 87.2 mm, depth 78 mm, distance 100/140 mm), suitable for 250 ml Erlenmeyer flasks.



| Type                           | DRYBATH 8-250 ERL    |
|--------------------------------|----------------------|
| Stirring points                | 8                    |
| Stirring point distance        | 100 / 140 mm         |
| Bore holes Ø/T                 | Ø 87.2 / 78 mm       |
| Stirring volume/stirring point | 1 - 250 ml           |
| Stirring power (max.)          | 40 W                 |
| Power setting                  | 10 - 100% (10-step)  |
| Temperature range              | +40 °C up to +200 °C |
| Speed range                    | 100 - 2,000 rpm      |
| Operating voltage              | 230 V                |
| Heating power (max.) at 230 V  | 1,150 W              |
| Dimensions (WxDxH)             | 335 x 515 x 150 mm   |
| Protection category            | IP20                 |
| Weight (gross)                 | approx. 40 kg        |
| Order no.                      | 63825                |

### Accessories

External probe sensor Pt100  
Stand for heatMIXcontrol

### Scope of delivery

STIRRING DRYBATH 8-250 ERL  
heatMIXcontrol control unit  
8 contact adapters for an optimized heat transfer

**Stirring** - Maintenance-free and wear-free by inductive 2mag-Magnetic Drive concept, extremely wide speed range of 100 to 2,000 rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power setting of the stirrer, high stirring power for viscous liquids and reduced stirring power for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

**Heating** - Massive heating block made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, contact adapters for an optimal heat transfer, lowest possible temperature gradient inside the stirring vessels, integrated electrical heater, maximum heating temperature +200 °C.

PowerDetect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, specially made insulated stainless steel frame for energy- and time saving heating process, additionally for a homogenous temperature distribution and protection against accidental contact, independent over-temperature protection inside the plate.

Inclusive separate control unit for operation of magnetic stirrer and integrated heater, for long-term protection of the electronics against aggressive liquids and gases as well as thermal influences, stainless steel housing.

Customised designs and other bore diameters available on request.

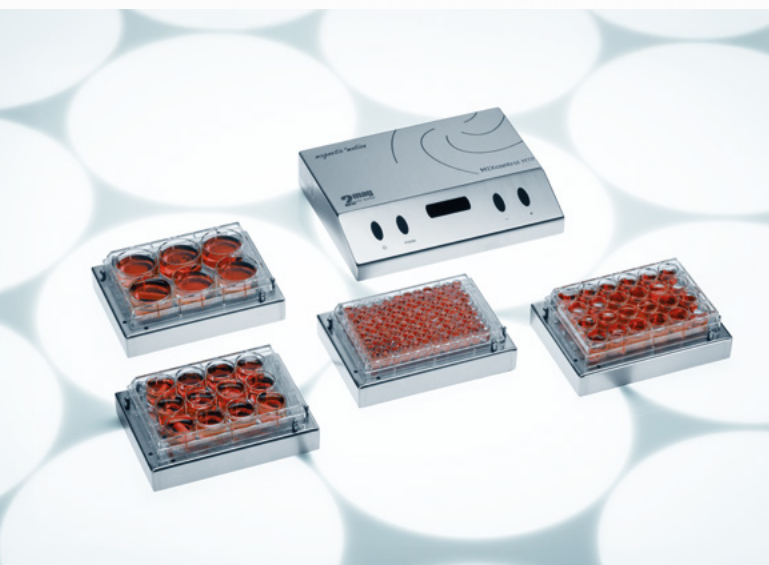
- Fast heating-up
- Energy-saving
- Insulated frame
- Durable quality
- Developed and Made in Germany

# MICROTITER PLATE STIRRERS

Designed for reliable mass screenings as well as chemical, biotechnical and medical applications of all kinds, developed for the hard daily lab use and uncompromising continuous operation.

## MIXdrive 6 / 12 / 24 / 96 MTP

Ultra flat, wear-free magnetic stirrer with 6/12/24/96 stirring positions, suitable for microtiter plates.



| Type MIXdrive                         | 6 MTP                                                       | 12 MTP      | 24 MTP | 96 MTP |
|---------------------------------------|-------------------------------------------------------------|-------------|--------|--------|
| Stirring points                       | 6                                                           | 12          | 24     | 96     |
| Stirring point distance               | 39 mm                                                       | 26 mm       | 19 mm  | 9 mm   |
| Stirring volume/stirring point (max.) | 20 ml                                                       | 7 ml        | 3,5 ml | 0,5 ml |
| Stirring power                        | 10 W                                                        |             |        |        |
| Material housing                      | stainless steel                                             |             |        |        |
| Permitted operation conditions        | -10 up to +50 °C in air,<br>up to +50 °C in water submerged |             |        |        |
| Operating voltage                     | 48 VDC                                                      |             |        |        |
| Dimensions (WxDxH)                    | 140 x 102 x 26 mm                                           |             |        |        |
| Protection category                   | IP68                                                        |             |        |        |
| Weight (gross)                        | approx. 1.3 kg                                              |             |        |        |
| Order no. Basic-Version               | 43006                                                       | auf Anfrage | 43024  | 43096  |

Please order control unit separately!

Compatible control units

[MIXcontrol MTP](#)

[MIXcontrol eco](#)

All stirring positions 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, 100% synchronized speeds, jerk-free stirring even at low speeds.

Fully encapsulated and hermetically sealed stainless steel housing, IP68, water-, dust- and germproof, extremely robust construction and performance, easy to clean and maximum resistance, submersible in water- resp. oil baths up to +50°C.

Suitable for the use in CO2 incubators and ovens, removable centering pins, suitable for integration into robots.

- 🌀 Wear-free magnetic stirrer
- 🌀 Submersible, up to + 50 °C, integrable
- 🌀 Extremely robust construction
- 🌀 Developed und Made in Germany

## MIXcontrol MTP

Powerful control unit for connection of one stirring drive MIXdrive 6/12/24/96 MTP.



| Type                           | MIXcontrol MTP                      |
|--------------------------------|-------------------------------------|
| Speed range                    | 100 - 2.000 rpm                     |
| Stirring power (max.)          | 10 W                                |
| Power setting                  | 25/50/75/100% (4-step)              |
| Material housing               | stainless steel                     |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1,5 A        |
| Dimensions (WxDxH)             | 200 x 155 x 38 mm                   |
| Protection category            | IP20                                |
| Weight (gross)                 | approx. 1.9 kg                      |
| Order no. MIXcontrol MTP       | 90250                               |
| Order no. MIXcontrol MTP RS232 | 90252                               |

### Compatible stirring drives

MIXdrive 6 MTP  
MIXdrive 12 MTP  
MIXdrive 24 MTP  
MIXdrive 96 MTP

Universal control unit for the connection of one stirring drive MIXdrive MTP, universal 10 watts stirring power, wide speed range from 100 up to 2,000 rpm, jerk-free stirring also at low speeds, 4-step power setting.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

QuickSet for quick setting of start- and maximum speed, automatic memory function to save the last settings, resistant stainless steel housing, easy to clean.

### Also available with RS232 interface.

Interfaces (0-10 V, 4-20 mA, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and customized software adaption on request.

- ⚡ Speed range 100 - 2.000 rpm
- ⚡ For stirring drives MIXdrive MTP
- ⚡ Extremely robust construction
- ⚡ Developed und Made in Germany

# STIRRER FOR CELL CULTURES WITH INTERNAL CONTROL

Designed for careful and protective mixing of cell suspensions and culture broths, developed for highest demands as well as warming-free and uncompromising continuous operations.

## bioMIX 1

Price-optimized maintenance-free magnetic stirrer with 1 stirring point, large surface, space saving, also suitable for viscous culture media.



| Type                           | bioMIX 1                              |
|--------------------------------|---------------------------------------|
| Stirring points                | 1                                     |
| Stirring volume/stirring point | 5 - 5,000 ml                          |
| Speed range                    | 5 - 250 rpm                           |
| Stirring power (max.)          | 6 W                                   |
| Power setting                  | 10 - 100% (10-step)                   |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 188 x 238 x 38 mm                     |
| Protection category            | IP64                                  |
| Weight (gross)                 | approx. 3.3 kg                        |
| Order no.                      | 85001                                 |

### Hint

For using in incubators we recommend due to the minimized temperature emission the especially developed series [bioMIXdrive](#).

Maintenance-free 2mag-stepper-motor-drive for extremely slow and 100% jerk-free and gentle mixing of cell cultures, extended speed range from 5 up to 250 rpm, jerk-free, even and smooth stirring also at slow speeds, power setting (10-step) for high power with regard to large and viscous stirring amounts and reduced power for the warming-free continuous operation.

Digital display for speed- and power setting, SoftStart for reliable and safe accelerating of stirring bar, QuickSet for quick setting of start- and maximum speed, saving of last working status when turning off, suitable for culture flasks with spinning propeller- and spinning ball systems.

Fully encapsulated and water resistant stainless steel housing, germ-proof, IP64, easy to clean and firm, robust construction and performance, ultra-flat design.

- 🌀 Price-optimized
- 🌀 Space saving
- 🌀 Germ-proof, easy to clean
- 🌀 Outstanding long-life quality
- 🌀 Developed and Made in Germany

# STIRRING DRIVES FOR CELL CULTURES WITH EXTERNAL CONTROL UNIT

Designed for careful and protective mixing of cell suspensions and culture broths, developed for highest demands as well as warming-free and uncompromising continuous operations for e.g. in CO<sub>2</sub>-incubators.

## bioMIXdrive 1 / 2 / 3 / 4

Ultra flat, wear-free magnetic stirrer with large standing surface, up to 5,000 ml stirring volume, also suitable for viscous culture media.



| Type                           | bioMIXdrive                            |           |           |           |
|--------------------------------|----------------------------------------|-----------|-----------|-----------|
| Stirring points                | 1                                      | 2         | 3         | 4         |
| Stirring point distance        | -                                      | 140 mm    |           |           |
| Stirring volume/stirring point | 5 - 5,000 ml                           |           |           |           |
| Speed range                    | 5 - 250 rpm                            |           |           |           |
| Stirring power/stirring point  | 5 W                                    |           |           |           |
| Material housing               | stainless steel                        |           |           |           |
| Perm. operation conditions     | -10 °C up to +50 °C (at 100% humidity) |           |           |           |
| Perm. operation conditions     | +50 °C submerged in water              |           |           |           |
| Operating voltage (max.)       | 48 VDC                                 |           |           |           |
| Dimensions (WxD, mm)           | 180 x 180                              | 130 x 270 | 130 x 410 | 270 x 270 |
| Dimensions (H, mm)             | 38                                     |           |           |           |
| Protection category            | IP68                                   |           |           |           |
| Weight (gross), approx.        | 2.5 kg                                 | 2.9 kg    | 4.1 kg    | 5.6 kg    |
| Order no.                      | 80001                                  | 80002     | 80003     | 80004     |

Please order control unit separately!

Compatible control units

[bioMIXcontrol](#)

[bioMIXcontrol S](#)

[bioMIXcontrol 4MS](#) (only for bioMIXdrive 1)

Accessories

[Extension cord for bioMIXdrive](#)

Maintenance-free 2mag-stepper-motor-drive for extremely slow and 100% jerk-free and gentle mixing of cell cultures, extended speed range from 5 up to 250 rpm, jerk-free, even and smooth stirring also at slow speeds, suitable for culture flasks with spinning propeller- and spinning ball systems.

Fully encapsulated and hermetically closed stainless steel housing, IP68, water-, dust- and germ-proof, extremely robust construction and performance, easy to clean and maximum firm.

Submersible in water baths, designed for the warming-free long term operation in CO<sub>2</sub>-incubators, individual measurements on request.

- 🌀 Water- and germ-proof
- 🌀 Warming-free long term operation
- 🌀 Outstanding long-life quality
- 🌀 Developed and Made in Germany

# CONTROL UNITS FOR bioMIXdrive STIRRING DRIVES

Designed for 2mag stirring drives bioMIXdrive.

## bioMIXcontrol

Efficient control unit, for 2mag bioMIXdrive series, developed for the hard daily lab use and uncompromising warming-free continuous operation.



|                                |                                     |
|--------------------------------|-------------------------------------|
| Type                           | bioMIXcontrol                       |
| Speed range                    | 5 - 250 rpm                         |
| Stirring power (max.)          | 40 W                                |
| Power setting                  | 10 - 100% (10-step)                 |
| Material housing               | stainless steel                     |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A        |
| Dimensions (WxDxH)             | 200 x 155 x 38 mm                   |
| Protection category            | IP20                                |
| Weight (gross)                 | approx. 1.9 kg                      |
| Order no.                      | 98400                               |

### Compatible stirring drives

bioMIXdrive 1  
bioMIXdrive 2  
bioMIXdrive 3  
bioMIXdrive 4

Control unit for the connection of 1 stirring drive bioMIXdrive 1, 2, 3 or 4 extended speed range from 5 to 250 rpm, without any own-generated heating effect, jerk-free stirring, even and smooth stirring also at slow speeds.

Power setting (10-steps) for high power with regard to large and viscous stirring amounts and reduced power for the warming-free continuous operation e.g. in CO<sub>2</sub>-incubators.

Digital display for speed- and power setting, SoftStart for reliable and safe accelerating of stirring bar, QuickSet for quick setting of start- and maximum speed, storage of last working status when turning off, firm stainless steel housing, easy to clean.

Interfaces (0-10 V, 4-20 mA, RS232, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and firmware adaptations on request.

- ⚙ Speed range 5 - 250 rpm
- ⚙ Power setting 10-step
- ⚙ Outstanding long-life quality
- ⚙ Developed and Made in Germany

# CONTROL UNITS FOR bioMIXdrive STIRRING DRIVES

Designed for 2mag stirring drives bioMIXdrive.

## bioMIXcontrol S

Efficient control unit, for 2mag bioMIXdrive series, developed for the hard daily lab use and uncompromising warming-free continuous operation.



|                                |                                     |
|--------------------------------|-------------------------------------|
| Type                           | bioMIXcontrol S                     |
| Speed range                    | 5 - 250 rpm                         |
| Stirring power (max.)          | 40 W                                |
| Power setting                  | 10 - 100% (10-step)                 |
| Material housing               | stainless steel                     |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A        |
| Dimensions (WxDxH)             | 215 x 120 x 57 mm                   |
| Protection category            | IP20                                |
| Weight (gross)                 | approx. 1.9 kg                      |
| Order no.                      | 98500                               |

### Compatible stirring drives

bioMIXdrive 1  
bioMIXdrive 2  
bioMIXdrive 3  
bioMIXdrive 4

Control unit for the connection of 1 stirring drive bioMIXdrive 1, 2, 3 or 4 extended speed range from 5 to 250 rpm, without any own-generated heating effect, jerk-free stirring, even and smooth stirring also at slow speeds.

Power setting (10-steps) for high power with regard to large and viscous stirring amounts and reduced power for the warming-free continuous operation e.g. in CO<sub>2</sub>-incubators.

Digital display for speed- and power setting, SoftStart for reliable and safe accelerating of stirring bar, QuickSet for quick setting of start- and maximum speed, storage of last working status when turning off, firm stainless steel housing, easy to clean.

Interfaces (0-10 V, 4-20 mA, RS232, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and firmware adaptations on request.

- ⚡ Speed range 5 - 250 rpm
- ⚡ Power setting 10-step
- ⚡ Outstanding long-life quality
- ⚡ Developed and Made in Germany

# CONTROL UNITS FOR bioMIXdrive 1 STIRRING DRIVES

Designed for 2mag stirring drives bioMIXdrive 1.

## bioMIXcontrol 4MS

Efficient control unit, for 4 drives 2mag bioMIXdrive 1, developed for the hard daily lab use and uncompromising warming-free continuous operation.



|                                |                                      |
|--------------------------------|--------------------------------------|
| Type                           | bioMIXcontrol 4MS                    |
| Speed range                    | 5 - 250 rpm (4x individual settings) |
| Stirring power (max.)          | 6 W / bioMIXdrive 1 (automatic)      |
| Power setting                  | -                                    |
| Connection sockets             | 4                                    |
| Material housing               | stainless steel                      |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity)  |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A         |
| Dimensions (WxDxH)             | 200 x 155 x 38 mm                    |
| Protection category            | IP20                                 |
| Weight (gross)                 | approx. 2.0 kg                       |
| Order no.                      | 98604                                |

Compatible stirring drives  
bioMIXdrive 1

Control unit for the connection of 4 stirring drive bioMIXdrive 1, individual and independent speed setting for each stirring drive (Master-Slave-Technology), also ON/OFF function, synchronous speed mode for all drives, extended speed range from 5 to 250 rpm, 6 watts/stirring position without any own-generated heating effect, automatic stirring power for the warming-free continuous operation e.g. in CO<sub>2</sub>-incubators, jerk-free stirring, even and smooth stirring also at slow speeds.

Digital display for speed setting, SoftStart for reliable and safe accelerating of stirring bar, QuickSet for quick setting of start and maximum speed, storage of last working status when turning off, firm stainless steel housing, easy to clean.

- ⚡ Speed range 5 - 250 rpm
- ⚡ For 4 stirring drives bioMIXdrive 1
- ⚡ Outstanding long-life quality
- ⚡ Developed und Made in Germany

# INDUSTRIAL STIRRERS FOR HIGHLY VISCOUS MEDIA AND LARGE VOLUMES

Designed for chemical and biotechnical applications of all kinds as e.g. within the field of quality insurance and pilot plant stations, developed for highest demands, unbeaten strong, high stability as well as uncompromising continuous operation.

## MIX 1 XL

Ultra flat, strong magnetic stirrer with large set-up area and fully automatic stirring bar monitoring mixWATCH, up to 40 litres stirring volume, also suitable for highly viscous media, very strong magnetic coupling, therefore predestined for magnetic power transmission over wide distances or for thick vessel bottoms.



| Type                           | MIX 1 XL                              |
|--------------------------------|---------------------------------------|
| Stirring points                | 1                                     |
| Stirring volume/stirring point | 1 - 40 litres                         |
| Speed range                    | 70 - 2,000 rpm                        |
| Stirring power (max.)          | 20 W                                  |
| Power setting                  | 5/10/15/20 W (4-step)                 |
| Acceleration                   | variable, 20/30/60/120 s              |
| Interval                       | variable, 0 - 240 s (2-step)          |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 95% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 1.5 A          |
| Dimensions (WxDxH)             | 225 x 280 x 38 mm                     |
| Protection category            | IP64                                  |
| Weight (gross)                 | approx. 4.5 kg                        |
| Order no.                      | 30201                                 |

### Accessories

ASTEROID 40 stirring bar  
SATELLITE 70 beared sirring bar  
Stirring bar remover PTFE

Maintenance-free 2mag-motor-drive with large speed range from 70 up to 2,000 rpm, fully encapsulated and tight stainless steel housing (IP64), extremely robust construction and performance, easy to clean and firm.

Integrated controller with strong 20 watts stirring power, 4-step power setting for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation, SoftStart-function (adjustable, 4 steps) for reliable catching/centering and safe accelerating of the stirring bar at different volumes and viscosities, adjustable interval times for automated restart of the stirrer after max. 240 seconds.

Digital display for speed-, power-, SoftStart- and interval setting, QuickSet for quick setting of start and maximum speed, after-run and glass breakage, storage of last function status when turning off.

MIX 1 XL is equipped as standard with mixWATCH stirring bar monitoring.

- Up to 40 litres or for viscous media
- mixWATCH stirring bar monitoring
- Outstanding long-life quality
- Developed and Made in Germany

# INDUSTRIAL STIRRERS FOR HIGHLY VISCOUS MEDIA AND LARGE VOLUMES

Designed for chemical and biotechnical applications of all kinds as e.g. within the field of quality insurance and pilot plant stations, developed for highest demands, unbeaten strong, high stability as well as uncompromising continuous operation.

## maxMIX

Unbeaten strong magnetic stirrer with large set-up area, up to 150 litres stirring volume, also suitable for highly viscous media.



| Type                           | maxMIX                                |
|--------------------------------|---------------------------------------|
| Stirring points                | 1                                     |
| Stirring volume/stirring point | 1 - 150 litres                        |
| Speed range                    | 100 - 1,200 rpm                       |
| Stirring power (max.)          | 40 W                                  |
| Power setting                  | -                                     |
| Acceleration                   | variable, 20 - 99 s                   |
| Material housing               | stainless steel                       |
| Permitted operation conditions | -10 °C up to +50 °C (at 80% humidity) |
| Electrical data                | 100-240 V / 50-60 Hz / 4.2 A          |
| Dimensions (WxDxH)             | 265 x 320 x 68 mm                     |
| Protection category            | IP64                                  |
| Weight (gross)                 | approx. 10.0 kg                       |
| Order no.                      | 30501                                 |

### Accessories

[ASTEROID 70](#) stirring bar

[SATELLITE 140](#) beared stirring bar

[Stirring bar remover XL](#)

[maxFRAME](#) enlargement

Very strong magnetic coupling, therefore predestined for magnetic power transmission over wide distances (up to 60 mm), for thick vessel bottoms or for double-coat vessels. Maintenance-free 2mag-motor-drive with large speed range from 100 up to 1,200 rpm, fully encapsulated and tight stainless steel housing, IP64, extremely robust construction and performance, easy to clean under running water and firm.

Integrated control unit with strong 40 watts stirring power, large speed range from 100 up to 1,200 rpm, SoftStart-function (variable 20 - 99 seconds) for reliable catching/centring and safe accelerating of the stirring bar at different volumes and viscosities.

Digital display for speed- and SoftStart-setting, QuickSet for quick setting of the start and maximum speed, QuickStop-function against after-run and glass breakage, storage of last function status when turning off, firm stainless steel housing, easy to clean.

- Up to 150 litres stirring volume
- Compact dimensions
- Ideal for highly viscous media
- Developed and Made in Germany

# INDUSTRIAL STIRRING SYSTEMS FOR HIGHLY VISCOUS MEDIA AND LARGE VOLUMES

Designed for chemical and biotechnical applications of all kinds as e.g. within the field of quality insurance and pilot plant stations, developed for highest demands, unbeaten strong, high stability as well as uncompromising continuous operation.

## MIXdrive 1 XL

Ultra flat, compact and strong magnetic stirrer, up to 40 litres stirring volume, also suitable for highly viscous media, temperature resistant up to +100°C.



Maintenance-free 2mag-motor-drive with large speed range from 70 up to 2,000 rpm, IP66, temperature resistant up to +100°C, designed for use in ovens, extremely robust construction and performance, easy to clean and firm, very strong magnetic coupling by SmCo-magnets, therefore predestined for magnetic power transmission over wide distances or for thick vessel bottoms.

## MIXcontrol XL

Powerful control unit for MIXdrive 1 XL stirring drives with 20 watts stirring power and mixWATCH stirring bar monitoring.

| Type                           | MIXdrive 1 XL                        | MIXcontrol XL                      |
|--------------------------------|--------------------------------------|------------------------------------|
| Stirring points                | 1                                    | -                                  |
| Stirring volume/stirring point | 1 - 40 litres                        | -                                  |
| Stirring power (max.)          | -                                    | 20 W                               |
| Power setting                  | -                                    | 5/10/15/20 W (4-step)              |
| Speed range                    | -                                    | 70 - 2,000 rpm                     |
| Acceleration                   | -                                    | variable, 20/30/60/120 s           |
| Interval                       | -                                    | variable, 0 - 240 s                |
| Material housing               | stainless steel                      |                                    |
| Operating voltage (max.)       | 24 VDC                               | -                                  |
| Electrical data                | -                                    | 100-240 V / 50-60 Hz / 1.5 A       |
| Permitted operation conditions | +5 °C up to +100°C (at 95% humidity) | 0 °C up to +40°C (at 80% humidity) |
| Dimensions (WxDxH)             | 225 x 225 x 38 mm                    | 200 x 155 x 38 mm                  |
| Protection category            | IP66                                 | IP20                               |
| Weight (gross)                 | approx. 4.0 kg                       | approx. 1.9 kg                     |
| Order no.                      | 40601                                | 90600                              |

Please order control unit separately!

### Accessories

ASTEROID 40 stirring bar  
SATELLITE 70 beared stirring bar  
Stirring bar remover PTFE  
Extension cord for MIXdrive 1 XL

SoftStart-function (adjustable, 4-step), for reliable catching/centering and safe accelerating of the stirring bar at different volumes and viscosities, adjustable interval times for automated restart of the stirrer after max. 240 seconds.

20 watts stirring power, speed range from 70 up to 2,000 rpm, power setting in 4 steps. Digital display for speed and interval setting, Quick-Set for quick setting of start and maximum speed, QuickStop-function against after-run and glass breakage, storage of last function status when turning off. Equipped as standard with RS232 interface.

The stirring system MIXdrive 1 XL with the control unit MIXcontrol XL is equipped as standard with mixWATCH stirring bar monitoring.

Interfaces (0-10 V, 4-20 mA, RS232, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and firmware adaptations on request.

- 🌀 Temperature resistant up to 100°C
- 🌀 Up to 40 litres stirring volume
- 🌀 mixWATCH stirring bar monitoring
- 🌀 Outstanding long-life quality
- 🌀 Developed and Made in Germany

# INDUSTRIAL STIRRING SYSTEMS FOR HIGHLY VISCOUS MEDIA AND LARGE VOLUMES

Designed for chemical and biotechnical applications of all kinds as e.g. within the field of quality insurance and pilot plant stations, developed for highest demands, unbeaten strong, high stability as well as uncompromising continuous operation.

## MAXdrive

Unbeaten strong magnetic stirrer with large set-up area, up to 250 litres stirring volume, also suitable for highly viscous media.



Very strong magnetic coupling, therefore predestined for magnetic power transmission over wide distances (up to 60 mm), for thick vessel bottoms or for double-coat vessels, ideal for the integration into process engineering systems.

Maintenance-free 2mag-motor-drive with large speed range from 100 up to 1,200 rpm. Fully encapsulated and tight stainless steel housing, IP64, extremely robust construction and performance, easy to clean under running water and maximum firm. Individual measurements on request.

## MAXcontrol

Control unit for the connection of MAXdrive, powerful 60 watts stirring power, large speed range from 100 up to 1,200 rpm.

| Type                           | MAXdrive                             | MAXcontrol                         |
|--------------------------------|--------------------------------------|------------------------------------|
| Stirring points                | 1                                    | -                                  |
| Stirring volume/stirring point | 1 - 250 litres                       | -                                  |
| Stirring power (max.)          | -                                    | 60 W                               |
| Power setting                  | -                                    | -                                  |
| Speed range                    | -                                    | 100 - 1,200 rpm                    |
| Acceleration                   | -                                    | variable, 20 - 99 s                |
| Material housing               | stainless steel                      |                                    |
| Operating voltage (max.)       | 24 VDC                               | -                                  |
| Electrical data                | -                                    | 100-240 V / 50-60 Hz / 4.2 A       |
| Permitted operation conditions | -10 °C up to +50°C (at 95% humidity) | 0 °C up to +40°C (at 80% humidity) |
| Dimensions (WxDxH)             | 260 x 260 x 68 mm                    | 200 x 175 x 51 mm                  |
| Protection category            | IP64                                 | IP20                               |
| Weight (gross)                 | approx. 9.8 kg                       | approx. 2.0 kg                     |
| Order no.                      | 50001                                | 94400                              |

Please order control unit separately!

### Accessories

ASTEROID 70 stirring bar  
SATELLITE 140 beared stirring bar  
Stirring bar remover XL  
Extension cord for MAXdrive/FABdrive  
maxFRAME enlargement

Variable SoftStart-function for reliable catching/centering and safe accelerating of the stirring bar at different volumes and viscosities. Digital display for speed- and SoftStart-setting (variable 20 - 99 seconds).

QuickSet for quick setting of the start-and maximum speed, QuickStop-function against after-run and glass breakage, storage of last function status when turning off, firm stainless steel housing, easy to clean.

Interfaces (0-10 V, 4-20 mA, RS232, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail Installation and customized software adaption on request.

- Up to 250 litres stirring volume
- Stirring over wide distances
- Ideal for highly viscous media
- Outstanding long-life quality
- Developed and Made in Germany

# INDUSTRIAL STIRRING SYSTEMS FOR HIGHLY VISCOUS MEDIA AND LARGE VOLUMES

Designed for chemical and biotechnical applications of all kinds as e.g. within the field of quality insurance and pilot plant stations, developed for highest demands, unbeaten strong, high stability as well as uncompromising continuous operation.

## FABdrive

Unbeaten strong magnetic stirrer with very compact housing dimensions, up to 1,000 litres stirring volume, also suitable for highly viscous media.



## FABcontrol

Control unit for the connection of magnetic stirrer FABdrive, powerful 100 watts stirring power, large speed range from 80 up to 990 rpm.

| Type                           | FABdrive                                 | FABcontrol                             |
|--------------------------------|------------------------------------------|----------------------------------------|
| Stirring volume/stirring point | 1 - 1,000 litres                         | -                                      |
| Speed range                    | -                                        | 80 - 990 rpm                           |
| Stirring power (max.)          | -                                        | 100 W                                  |
| Power setting                  | -                                        | -                                      |
| Acceleration                   | -                                        | variable, 20 - 99 s                    |
| Buzzer, Tolerance              | -                                        | variable, 5 - 50 rpm                   |
| Material housing               | stainless steel                          |                                        |
| Perm. operation conditions     | -10 °C up to +50 °C<br>(at 95% humidity) | 0 °C up to +40 °C<br>(at 80% humidity) |
| Operating voltage (max.)       | 24 VDC                                   | -                                      |
| Electrical data                | -                                        | 100-240 V / 50-60 Hz / 4.2 A           |
| Dimensions (WxDxH)             | 180 x 180 x 75 mm                        | 200 x 175 x 51 mm                      |
| Protection category            | IP64                                     | IP20                                   |
| Weight (gross)                 | approx. 4.8 kg                           | approx. 2.0 kg                         |
| Order no.                      | 50101                                    | 94402                                  |

Please order control unit separately!

### Accessories

[ASTEROID 70](#) stirring bar  
[SATELLITE 140](#) beared stirring bar  
[Stirring bar remover XL](#)  
[Extension cord for MAXdrive/FABdrive](#)  
[fabFRAME](#) enlargement

Very strong magnetic coupling, therefore predestined for magnetic power transmission over wide distances (up to 150 mm), for thick vessel bottoms or for double-coat vessels, ideal for the integration into process engineering systems and industrial processing.

Maintenance-free 2mag-motor-drive with large speed range from 80 up to 990 rpm. Fully encapsulated and tight stainless steel housing, IP64, extremely robust construction and performance, easy to clean under running water and maximum firm. Individual measurements on request.

Variable SoftStart-function for reliable catching/centering and safe accelerating of the stirring bar at different volumes and viscosities. Digital display for speed- and SoftStart-setting (variable, 20 - 99 seconds) and live speed, QuickSet for quick setting of the start-and maximum speed, QuickStop-function against after-run and glass breakage.

Beep-function at falling below set speed, storage of last function status when turning off, firm stainless steel housing, easy to clean.

Interfaces (0-10 V, 4-20 mA, RS232, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and customized software adaption on request.

- Up to 1,000 litres stirring volume
- Stirring over wide distances
- Ideal for highly viscous media
- Developed and Made in Germany

# SPECIAL STIRRING SYSTEM FOR OPERATION IN PRESSURE, VACUUM AND STEAM

Designed for operation in pressure, vacuum and steam up to +150°C, e.g. in steam sterilizers.

## steriMIXdrive

Ultra flat, compact and strong magnetic stirrer, up to 40 litres stirring volume, also suitable for use in autoclaves.



Very strong magnetic coupling by SmCo-magnets, therefore predestined for magnetic power transmission over wide distances or for thick vessel bottoms. Maintenance-free 2mag-motor-drive with large speed range from 100 up to 1,200 rpm.

Fully encapsulated, pressure- and vacuum resistant stainless steel housing, IP68, temperature resistant up to +150°C, extremely robust construction and performance, easy to clean and firm.

easyMOUNT plug coupling for quick installation of the stirrer cable through a pressure and steam tight grommet into a steam sterilizer.

## steriMIXcontrol

Powerful control unit with 20 watts stirring power and mixWATCH stirring bar monitoring (without stirring speed reduction).

| Type                           | steriMIXdrive                                 | steriMIXcontrol                        |
|--------------------------------|-----------------------------------------------|----------------------------------------|
| Stirring points                | 1                                             | -                                      |
| Stirring volume/stirring point | 1 - 40 litres                                 | -                                      |
| Stirring power (max.)          | -                                             | 20 W                                   |
| Power setting                  | -                                             | -                                      |
| Speed range                    | -                                             | 100 - 1,200 rpm                        |
| Acceleration                   | -                                             | variable, 20/30/60/120 s               |
| Interval                       | -                                             | variable, 0 - 240 s                    |
| Material housing               | stainless steel / PPSU<br>hermetically closed | stainless steel                        |
| Perm.operation<br>conditions   | -10 °C up to +150 °C<br>(at 100% humidity)    | 0 °C up to +40 °C<br>(at 80% humidity) |
| Operating voltage (max.)       | 24 VDC                                        | -                                      |
| Electrical data                | -                                             | 100-240 V / 50-60 Hz / 1.5 A           |
| Dimensions (WxDxH)             | 140 x 140 x 32 mm                             | 200 x 155 x 38 mm                      |
| Protection category            | IP68                                          | IP20                                   |
| Weight (gross)                 | approx. 1.5 kg                                | approx. 1.9 kg                         |
| Order no.                      | 40700                                         | 95200                                  |

Please order control unit separately!

### Accessories

ASTEROID 40 stirring bar  
SATELLITE 70 beared stirring bar  
Stirring bar remover PTFE

SoftStart-function, for reliable catching/centering and safe accelerating of the stirring bar at different volumes and viscosities, adjustable interval times for automated restart of the stirrer after max. 240 sec.

Digital display for speed- and interval setting, QuickSet for quick setting of start and maximum speed, QuickStop-function against after-run and glass breakage, storage of last function status when turning off.

The stirring system steriMIXdrive with the control unit steriMIXcontrol is equipped as standard with mixWATCH stirring bar monitoring.

Interfaces (0-10 V, 4-20 mA, RS232, USB, Ethernet, LADS OPC UA), other housings e.g. for DINrail installation and customized software adaption on request.

- Up to 40 litres stirring volume
- mixWATCH stirring bar monitoring
- Steam-, pressure- and vacuum resistant
- Ideal für high viscous media
- Developed and Made in Germany

# EXPLOSION-PROOF STIRRER DRIVE

Designed for all types of chemical, biotechnical and medical applications, developed to meet the highest demands, high resistance and uncompromising continuous operation in EX protection zones.

## atexMIXdrive

Explosion protected, ultra flat, wear-free magnetic stirrer with 1 stirring position, for up to 10,000 ml.



| Type                           | atexMIXdrive                                      |
|--------------------------------|---------------------------------------------------|
| Stirring points                | 1                                                 |
| Stirring volume/stirring point | 1 - 10,000 ml                                     |
| Stirring power (max.)          | 20 W                                              |
| Material housing               | stainless steel                                   |
| Permitted operation conditions | -10 °C up to +40 °C in air, up to +40 °C in water |
| Operating voltage (max.)       | 48 VDC                                            |
| Dimensions (WxDxH)             | 180 x 180 x 38 mm                                 |
| Protection category            | IP68                                              |
| Weight (gross)                 | 3.5 kg                                            |
| Ex-mark                        | ATEX II 2G Ex mb IIC T4 Gb                        |
| Order no.                      | 49001                                             |

### Compatible control units

[atexMIXcontrol](#) (protection zone 1)  
[atexMIXcontrol cleanroom](#) (protection zone 2)  
[MIXcontrol 20](#) (outside the protection zone)

### Accessories

[ASTEROID 40](#) stirring bar  
[Stirring bar remover PTFE](#)

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, jerk-free stirring even at low speeds.

Fully encapsulated and hermetically sealed stainless steel housing, IP68, water-, dust- and germproof. Extremely robust construction and performance, easy to clean and maximum resistance.

Submersible in water- or oil baths, suitable for the use in CO<sub>2</sub>-incubators and ovens, temperate range up to +40 °C, certified according to ATEX II 2G Ex mb IIC T4 Gb.

**Hint: Stirring drive atexMIXdrive and control unit atexMIXcontrol (cleanroom) are firmly connected!**

- ⚡ Explosion protected magnetic stirring system
- ⚡ Certified according to ATEX
- ⚡ Wear-free magnetic stirrer
- ⚡ Up to 10,000 ml stirring volume
- ⚡ Outstanding long-life quality
- ⚡ Developed and Made in Germany

# CONTROL UNITS FOR atexMIXDRIVE STIRRING DRIVE

Designed for 2mag stirring drive atexMIXdrive.

## atexMIXcontrol

Explosion protected control unit for the connection of 1 stirring drive atexMIXdrive, suitable for protection zone 1.



|                            |                                     |
|----------------------------|-------------------------------------|
| Type                       | atexMIXcontrol                      |
| Speed range                | 100 - 2,000 rpm                     |
| Stirring power (max.)      | 20 W                                |
| Power setting              | 5/10/15/20 W (4-step)               |
| Material housing           | aluminium/plastic                   |
| Perm. operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data            | 100-240 V / 50-60 Hz / 1.5 A        |
| Dimensions (WxDxH)         | 360 x 460 x 200 mm                  |
| Weight (gross)             | approx. 18 kg                       |
| Protection category        | IP65                                |
| Ex-mark                    | ATEX II 2G Ex db eb IIC T6 Gb       |
| Order no.                  | 99200                               |

Compatible stirring drives

atexMIXdrive explosion protected stirring drive

20 watts stirring power, speed range from 100 up to 2,000 rpm, jerk-free stirring even at low speeds, 4-step power setting.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

QuickSet for quick setting of start and maximum speed, automatic memory function to save the last settings, explosion protected housing, operation temperature up to +40°C, certified according to ATEX II 2G Ex db eb IIC T6 Gb.

**Hint: Control unit atexMIXcontrol and stirring drive atexMIXdrive are firmly connected!**

- Explosion protected control unit
- Certified according to ATEX
- 20 watts stirring power
- Speed range 100 - 2,000 rpm
- Developed and Made in Germany

# CONTROL UNITS FOR atexMIXDRIVE STIRRING DRIVE

Designed for 2mag stirring drive atexMIXdrive.

## atexMIXcontrol cleanroom

Explosion-proof and ATEX-certified control unit for connecting an atexMIXdrive agitator drive and operation in EX protection zone 2 or clean rooms.



|                            |                                     |
|----------------------------|-------------------------------------|
| Type                       | atexMIXcontrol cleanroom            |
| Speed range                | 100 - 2,000 rpm                     |
| Stirring power (max.)      | 20 W                                |
| Power setting              | 5/10/15/20 W (4-step)               |
| Material housing           | aluminium                           |
| Perm. operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data            | 100-240 V / 50-60 Hz / 1.5 A        |
| Dimensions (WxDxH)         | 210 x 55 x 30 mm                    |
| Weight (gross)             | approx. 4.5 kg                      |
| Protection category        | IP65                                |
| Ex-mark                    | ATEX II 3G Ex nA nL IIC T6          |
| Order no.                  | 99300                               |

Compatible stirring drives

atexMIXdrive explosion protected stirring drive

20 watts stirring power, speed range from 100 up to 2,000 rpm, jerk-free stirring even at low speeds, 4-step power setting.

Clear digital display for speed- and power settings, SoftStart for reliable catching/centering and safe accelerating of the stirring bar.

QuickSet for quick setting of start and maximum speed, automatic memory function to save the last settings, explosion protected housing, operation temperature up to +40°C, certified according to ATEX II 2G Ex db eb IIC T6 Gb.

**Hint: Control unit atexMIXcontrol cleanroom and stirring drive atexMIXdrive are firmly connected!**

- ⚡ Explosion protected control unit
- ⚡ Certified according to ATEX
- ⚡ 20 watts stirring power
- ⚡ Speed range 100 - 2,000 rpm
- ⚡ Developed and Made in Germany

# STIRRING BARS

Designed for strong stirrers and viscous media.  
Designed for chemical, biotechnical and medical applications of all kinds.

## ASTEROID 25 / 40 / 70

High-effective stirring bar, ideal for large mixing volumes, viscous media, stirring over wide distances or for disadvantageous vessel bottoms.



| Type                   | ASTEROID 25        | ASTEROID 40 | ASTEROID 70 |
|------------------------|--------------------|-------------|-------------|
| Material (Cover)       | PTFE               |             |             |
| Material (Magnet)      | SmCo               |             |             |
| Shape                  | triangular, convex |             |             |
| Dimensions (HxL)       | 14 x 25 mm         | 28 x 40 mm  | 39 x 70 mm  |
| Dimensions (Ø)         | 16 mm              | 33 mm       | 45 mm       |
| Weight (gross) approx. | ca. 0,07 kg        | ca. 0,12 kg | ca. 0,37 kg |
| Order no.              | 44025              | 44040       | 44070       |

### Accessories

Stirring bar remover PTFE  
Stirring bar remover XL

More than 4x higher torque transmissible, unbeatable increased mixing effect in comparison to conventional stirring bars, high energetic and long-term stable magnetic field, no demagnetization effect, convex design for a minimum of bearing surface and reliable rotation, triangular shape for powerful shear force, better mixing effect at lower rotation speed.

300% less PTFE abrasion than comparable round shape stirring bars, significantly higher rotation speed reachable, high quality, even and sealed PTFE cover, FDA-conform, steam sterilizable at 121°C.

Multiple improved performances for all types of magnetic stirrers.

# STIRRING BARS

Designed for strong stirrers and viscous media.  
Designed for chemical, biotechnical and medical applications of all kinds.

## SATELLITE 70

High-effective stirring bar, recommended for magnetic stirrers MIXdrive 1 XL or MIX 1 XL.



Extremely strong, abrasion-free and wear-free magnetic stirring bar, bearing on a tripod-construction, ideal for large mixing volumes, viscous media, stirring over wide distances or for disadvantageous vessel bottoms, especially for the use in stainless steel vessels and in the case of media containing abrasive particles, e.g. sand or sediments.

No direct contact between stirring bar and reaction vessel, therefore steady firm, wear-free, stirring bar sealed with PTFE, tripod construction made of ZEDEX, chemical resistance comparable to PTFE, FDA-certification, steam sterilizable at 121°C, wearing parts can be re-ordered separately.

## SATELLITE 140

High-effective stirring bar, recommended for magnetic stirrers FABdrive, MAXdrive or maxMIX.



Extremely strong, abrasion-free and wear-free magnetic stirring bar, bearing on a tripod-construction, ideal for large mixing volumes, viscous media, stirring over wide distances or for disadvantageous vessel bottoms, especially for the use in stainless steel vessels and in the case of media containing abrasive particles, e.g. sand or sediments.

No direct contact between stirring bar and reaction vessel, therefore steady firm, wear-free, chemical resistance comparable to PTFE, FDA-certification, steam sterilizable at 121°C, wearing parts can be re-ordered separately.

| Type                             | SATELLITE 70    | SATELLITE 140   |
|----------------------------------|-----------------|-----------------|
| Shape                            | round, tripod   | round, tripod   |
| Material (Cover)                 | PTFE            | ZEDEX           |
| Dimensions ØxL bars              | Ø 13 x 70 mm    | Ø 32 x 140 mm   |
| Dimensions Ø tripod construction | Ø 99 mm         | Ø 227 mm        |
| Weight (gross)                   | approx. 0.15 kg | approx. 0.46 kg |
| Order no.                        | 44700           | 44900           |

### Accessories

Stirring bar remover PTFE  
Stirring bar remover XL

# STIRRING BAR REMOVER

Designed for strong stirring bars.

## Stirring bar remover PTFE

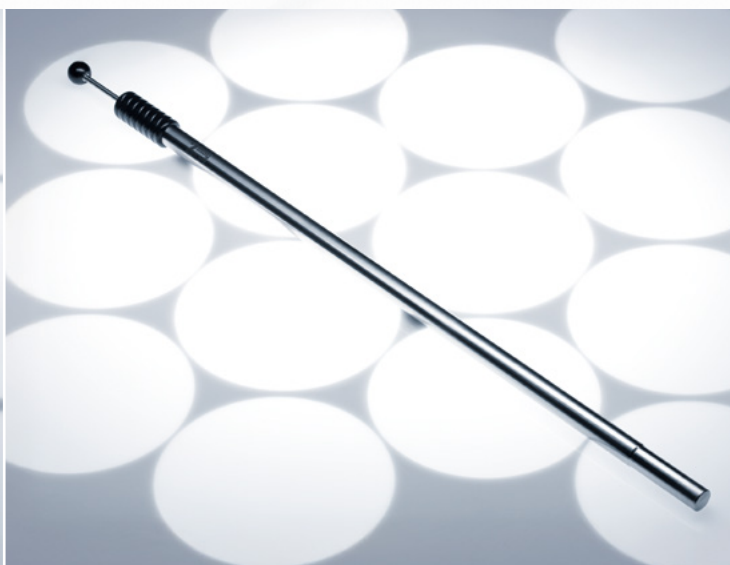
PTFE-coated flexible stirring bar remover with extremely strong permanent magnet (neodym), 70 cm length.



Universal chemical resistance also in aggressive media, ideal for fast removal of heavy and big magnetic stirring bars with a weight up to 400 g.

## Stirring bar remover XL

Extremely strong stirring bar remover with an integrated corrosion-resistant high energy magnet, ideal for reliable inserting and removing of strong and heavy magnetic stirring bars.



Simple handling due to a special developed stripping mechanism, length of 100 cm for deep reaction vessels, construction of stainless steel, solid and easy to clean, high chemical resistance.

Ideal for fast removal of big and heavy magnetic stirring bars with a weight up to 1,000 g.

| Type           | Stirring bar remover PTFE | Stirring bar remover XL |
|----------------|---------------------------|-------------------------|
| Material       | PTFE                      | stainless steel         |
| Dimensions ØxL | Ø 15 x 700 mm             | Ø 28 x 1,000 mm         |
| Weight (gross) | approx. 0.5 kg            | approx. 1.8 kg          |
| Order no.      | 45070                     | 45100                   |

# EXTENSION CORDS / DISTRIBUTORS

For 2mag stirring systems with external control.

## Extension cords

Extension cord for stirring drives, length 3m.



Extension cord for MIXdrive, length 3m.  
Extension cord for MIXdrive 1 XL, length 3m.  
Extension cord for bioMIXdrive, length 3m.  
Extension cord for MAXdrive and FABdrive, length 3m.

## distriBOX 4 / 8

4-fold / 8-fold distributor.



Distributor for synchronized operating of 4 or 8 stirring drives with one MIXcontrol 20 or MIXcontrol 40, identical operation conditions, synchronous speeds, same stirring power, space-saving, sealed stainless steel housing.

| Extension cords for        | MIXdrive                            | MIXdrive 1 XL | bioMIXdrive | FAB/MAXdrive |
|----------------------------|-------------------------------------|---------------|-------------|--------------|
| Length                     | 3 m                                 |               |             |              |
| Perm. operation conditions | -10°C up to +50°C (at 80% humidity) |               |             |              |
| Weight (gross) approx.     | 0.15 kg                             |               |             | 0.27 kg      |
| Order no.                  | 46100                               | 46108         | 46200       | 46300        |

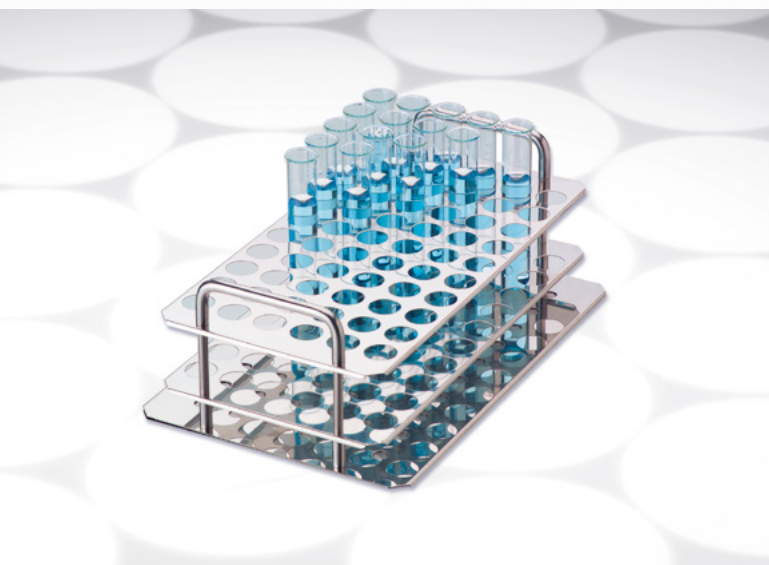
| Type                   | distriBOX 4     | distriBOX 8     |
|------------------------|-----------------|-----------------|
| Connection sockets     | 4               | 8               |
| Dimensions (WxDxH)     | 48 x 48 x 25 mm | 48 x 92 x 25 mm |
| Weight (gross) approx. | 0.18 kg         | 0.27 kg         |
| Order no.              | 49004           | 49008           |

# ACCESSORIES FOR MULTIPLES STIRRERS

Designed for 2mag multiple stirrers.

## mixRACK

Stand for test tubes.



|                    |             |
|--------------------|-------------|
| Type               | mixRACK     |
| Dimensions (WxDxH) | on request  |
| Order no.          | auf Anfrage |



For exactly centred positioning of test tubes on the stirring points, rack function, can be used to carry all test tubes at once, two convenient handles, stainless steel construction.

# ACCESSORIES FOR HEATABLE STIRRING SYSTEMS

Designed for 2mag STIRRING DRYBATH and STIRRING HOTPLATE.

## heatMIXcontrol - spare part

Separate control unit heatMIXcontrol for operation of STIRRING DRYBATH and STIRRING HOTPLATE.



Long-term protection of the electronics against aggressive liquids and gases as well as thermal influences, independent and adjustable over-temperature limiter for the additional protection of the heating controller against technical defects or unintended operation errors, stainless steel housing, compact and space-saving, connection for external Pt100 sensor, RS232 interface.

## Stand for heatMIXcontrol

Stand for vertical positioning of the control unit heatMIXcontrol, incl. assembling material.



Stable stainless steel stand for space-saving positioning of the control unit heatMIXcontrol, organized cable route on rear side, easy installation.

|                                |                                     |
|--------------------------------|-------------------------------------|
| Type                           | heatMIXcontrol - spare part         |
| Stirring power (max.)          | 40 W                                |
| Power setting                  | 10 - 100% (10-step)                 |
| Speed range                    | 100 - 2,000 rpm                     |
| Temperature range              | +40 °C up to +200 °C                |
| Material housing               | stainless steel                     |
| Permitted operation conditions | 0 °C up to +40 °C (at 80% humidity) |
| Electrical data                | 230-240 V / 50-60 Hz / 5 A          |
| Dimensions (WxDxH)             | 225 x 171 x 48 mm                   |
| Weight (gross)                 | approx. 2.2 kg                      |
| Protection category            | IP20                                |
| Order no.                      | 68300                               |

|                    |                          |
|--------------------|--------------------------|
| Type               | Stand for heatMIXcontrol |
| Material           | stainless steel          |
| Dimensions (WxDxH) | 225 x 132 x 150 mm       |
| Weight (gross)     | approx. 1.0 kg           |
| Order no.          | 69500                    |

# ACCESSORIES FOR HEATABLE STIRRING SYSTEMS

Designed for 2mag STIRRING DRYBATH and STIRRING HOTPLATE.

## External probe sensor Pt100

External probe sensor Pt100 for control unit heatMIXcontrol.



Temperature sensor for direct controlling of the probe temperature.

## Reducing adapter

Inserts (aluminium alloy) for STIRRING DRYBATH 15-100 and STIRRING DRYBATH 15-250 for reducing the bore hole diameter.



For reduction of the bore hole diameter, guarantees an excellent heat transfer in the case of using smaller glasses. Individual inner diameter on request.

| Type             | External probe sensor Pt100 |
|------------------|-----------------------------|
| Sensor type      | Pt100                       |
| Material         | stainless steel             |
| Dimensions (ØxL) | Ø 3 x 150 mm                |
| Cable length     | 1 m                         |
| Weight (gross)   | approx. 0.1 kg              |
| Order no.        | 69100                       |

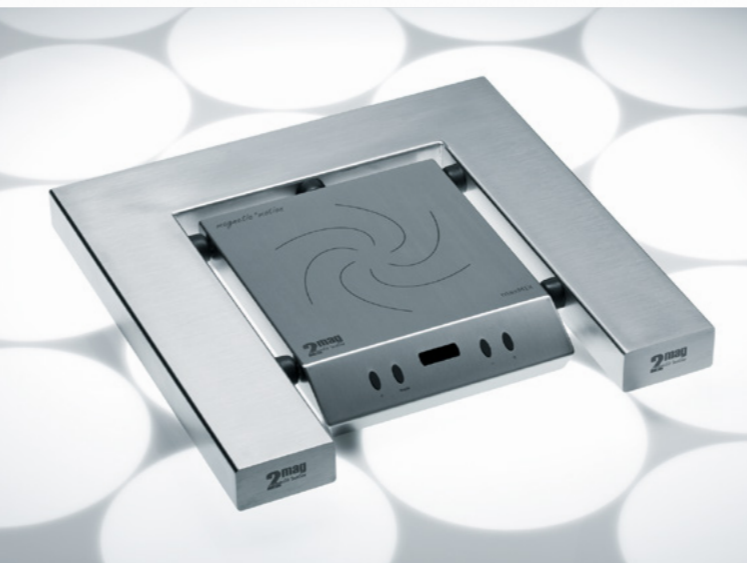
| Reducing adapter       | for DRYBATH 15-100 | for DRYBATH 15-250 |
|------------------------|--------------------|--------------------|
| Outer dimensions (ØxH) | Ø 57.5 x 47 mm     | Ø 71.5 x 78 mm     |
| Inner diameter         | on request         |                    |
| Order no.              | on request         |                    |

# ACCESSORIES FOR INDUSTRIAL STIRRERS

Designed for large volumes.

## maxFRAME

Frame for easy and fast enlargement of surface area and loading capacity of magnetic stirrers maxMIX and MAXdrive.



Solid welded stainless steel construction, easy to clean due to enclosed design, high chemical resistance, simple enlargement of the utility space of maxMIX and MAXdrive to 500 x 500 mm, loading capacity up to 1000 kg.

No installation necessary.

## fabFRAME

Frame for easy and fast enlargement of surface area and loading capacity of magnetic stirrer FABdrive.



Solid welded stainless steel construction, easy to clean due to enclosed design, high chemical resistance, simple enlargement of the utility space of FABdrive to 500 x 500 mm, loading capacity up to 1000 kg.

No installation necessary.

|                    |                   |
|--------------------|-------------------|
| Type               | maxFRAME          |
| Material           | stainless steel   |
| Dimensions (WxDxH) | 500 x 500 x 70 mm |
| Weight (gross)     | approx. 10.5 kg   |
| Order no.          | 48500             |

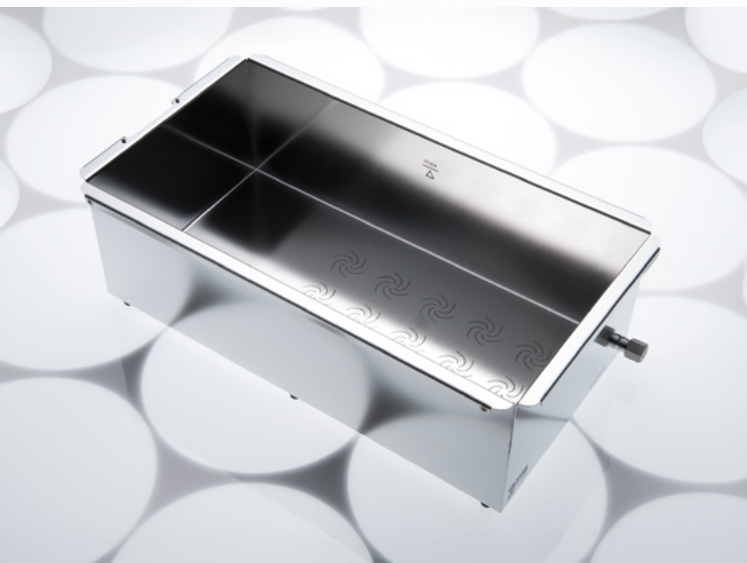
|                    |                   |
|--------------------|-------------------|
| Type               | fabFRAME          |
| Material           | stainless steel   |
| Dimensions (WxDxH) | 500 x 500 x 76 mm |
| Weight (gross)     | approx. 10.5 kg   |
| Order no.          | 48600             |

# WATER BATHS

Designed for 2mag MIXdrive.

## mixBATH

Durable, robust stainless steel bath, easy to clean, suitable for MIXdrive 6/15/60 and MIXdrive 1/1 eco/1 XS.



Fitting for immersion thermostats (heating/ cooling), easy to clean, even weld and electropolished, framed ridge formed as handle, integrated drain makes emptying liquid easy and safe, exact positioning of the stirrer in the case of use the stirrer under the bath. Stirring point mark inside the bath, left-/right stop for optimized thermostat positioning (circulation pump) for use with MIXdrive 6 or MIXdrive 15.

## mixBATHcover

Chemically resistant, transparent cover for mixBATH, consisting of polycarbonate, for minimization of evaporation effects.



Different cutouts for the perfect positioning of the thermostat in the case of using the stirring drives MIXdrive 6 or MIXdrive 15 immersed into the mixBATH.

|                          |                    |
|--------------------------|--------------------|
| Type                     | mixBATH            |
| Material                 | stainless steel    |
| Inner dimensions (WxDxH) | 277 x 537 x 175 mm |
| Outer dimensions (WxDxH) | 318 x 600 x 190 mm |
| Weight (gross)           | approx. 8.0 kg     |
| Order no.                | 40950              |

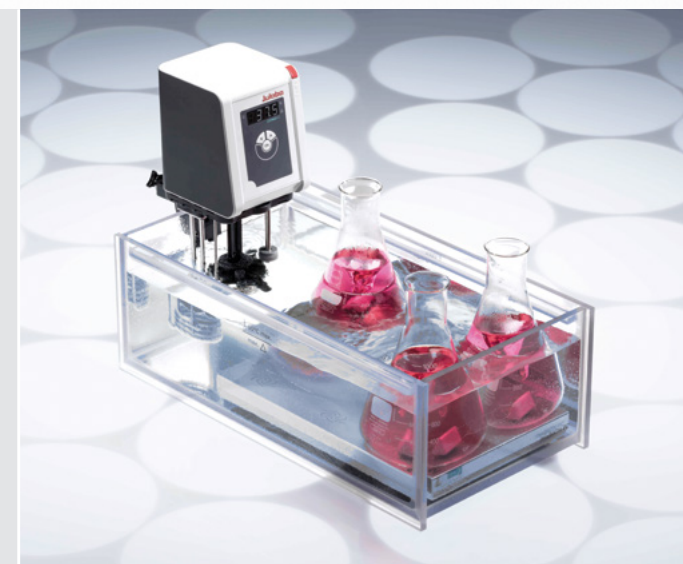
|                    |                  |                 |
|--------------------|------------------|-----------------|
| mixBATHcover       | for MIXdrive 6   | for MIXdrive 15 |
| Material           | polycarbonate    |                 |
| Dimensions (WxDxH) | 315 x 575 x 8 mm |                 |
| Weight (gross)     | approx. 2.6 kg   |                 |
| Order no.          | 40806            | 40815           |

## mixBATH PC

Durable, robust bath, made of polycarbonate, easy to clean, suitable for MIXdrive 6/15/60 and MIXdrive 1/1 eco/1 XS.

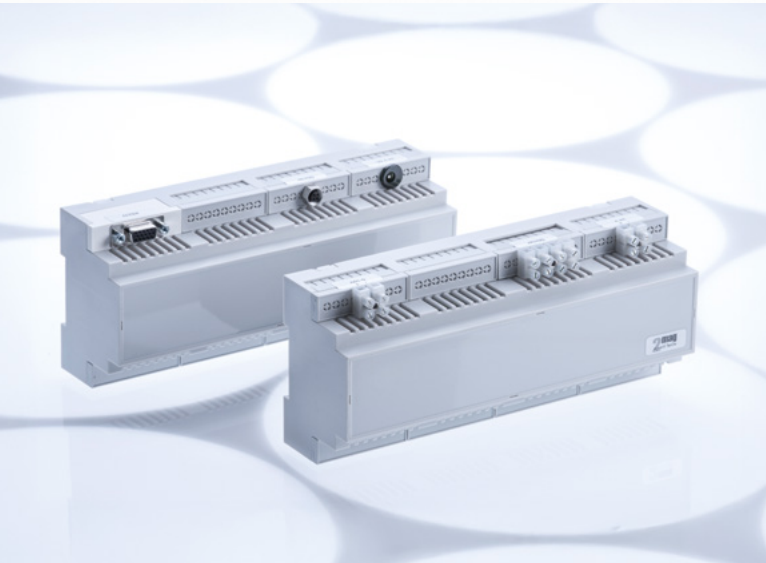


|                          |                    |
|--------------------------|--------------------|
| Type                     | mixBATH PC         |
| Material                 | polycarbonate      |
| Inner dimensions (WxDxH) | 280 x 540 x 178 mm |
| Outer dimensions (WxDxH) | 300 x 560 x 198 mm |
| Weight (gross)           | approx 8.3 kg      |
| Order no.                | 40850              |

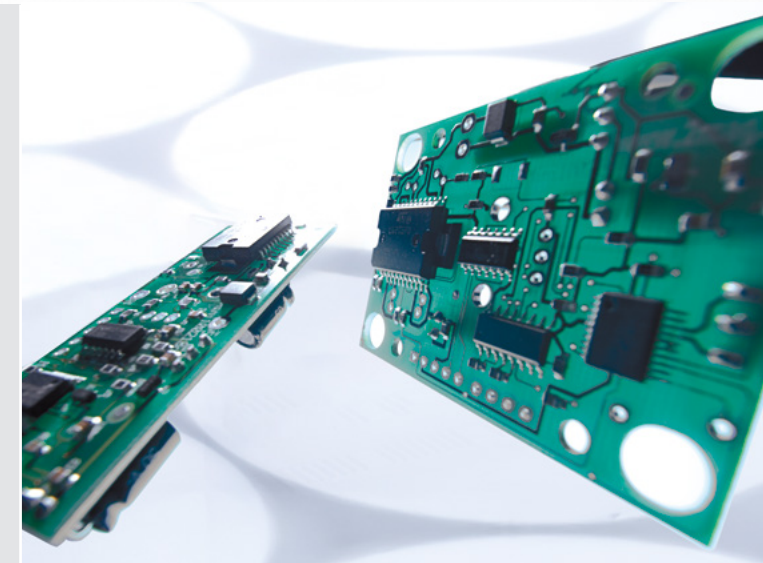


Water bath made of polycarbonate, durable up to +50° C, robust, easy to clean, suitable for MIXdrive 6/15/60 as well as and MIXdrive 1/1 eco/1 XS., fitting for immersion thermostats (heating/cooling), easy to clean, exact positioning of the stirrer in the case of use the stirrer under the bath.

## Customized stirrers - configuration possibilities



- ⌘ Individual housing dimensions
- ⌘ Stirring positions from 1 to 96
- ⌘ Individual arrangement of stirring positions
- ⌘ Variable cable length and positioning of cable output
- ⌘ Adaption to environmental conditions (temperature, pressure, steam, etc.)
- ⌘ Control/Interfaces (RS232, 0-10 V, 4-20 mA)
- ⌘ Other housings of control units e.g. for DINrail installation
- ⌘ Special functions (Interval, Timer, etc.)
- ⌘ Customized firmware (Default values)
- ⌘ Integration (screwing, covering, assembly)
- ⌘ Customized labeling (elektrolysis)



2mag is providing you more than 30 years of competence in the conception, development, production and sales of magnetic and inductive drive concepts, as e.g. magnetic stirrers.

This experience paired with a great passion and emotion for our customers – and our products – enables the fast and economic creation of solutions precisely for your needs.

„Customizing“, the manufacturing of special made products, is our business, our competence and our passion!

Individual requests will result in individual – and even more important – also economically realizable solutions.

Ask us – test us – we are there for you!

## LADS - Laboratory Interface of the Future

Reduce integration costs and times with plug & play for laboratory equipment integration



Control units with LADS OPC UA:

- ⌘ MIXcontrol 20
- ⌘ MIXcontrol 40
- ⌘ heatMIXcontrol
- ⌘ MAXcontrol
- ⌘ FABcontrol
- ⌘ bioMIXcontrol (on request)
- ⌘ MIXcontrol MTP (on request)



Open Platform Communications Unified Architecture, or OPC UA for short, is an open source collection of standards for communication and data exchange. OPC has been used successfully in industrial automation for over 25 years and is constantly being expanded and improved. It is essentially a regulatory framework that can be easily integrated into existing software.

In 2024, the industry association SPECTARIS introduced the [Laboratory Analytic Device Standard \(LADS\)](#) extension. The Companion Specification LADS brings together the requirements of the laboratory world. LADS-compatible devices, even from different manufacturers, can be quickly and easily integrated into networks using 'plug & play' and LADS-compatible software, as easily as, for example, printers on PCs.

The devices can be controlled, monitored, maintained and even orchestrated via software processes. They can be operated via mobile phone, tablet or PC. Data communication is encrypted and complies with the latest data security requirements.

For more information visit: <https://opcua-lads.com/en/>

## 2mag - Sustainability

The trend theme sustainability of 2mag is not only a short-living term of a current spirit of time but a concept and philosophy since the founding in 2007. At the beginning as we designed our products, we thought highly of a maximal reliability, quality, durability and low lifecycle costs.



### Convince yourself of the sustainability and the value of 2mag magnetic stirrers!

- ⌘ Longlife quality due to hermetically closed stainless steel housings, completely sealed
- ⌘ 2mag magnetic stirring drives are water-, dust- and germ-proofed and even in some cases pressure- and vacuum-tight
- ⌘ High efficiency, 30 - 40% more stirring power than other comparable products of our competitors at the same electrical input
- ⌘ 100% wear- and maintenance-free
- ⌘ High quality Zero-stand-by power supply units for minimization of energy costs in the stand-by mode
- ⌘ Regional suppliers warrant a high quality and a minimum environmental impact due to short transport routes
- ⌘ Excellent price/performance with regard to trouble-free economic life of 10 years and more in daily use
- ⌘ 3 years warranty

## 2mag AG

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