

## MSC basic

The "New" magnetic stirrer with heating

- × Large heating plate made of glass-ceramic
- × Excellent resistance to chemicals
- × Max. heating plate temperature: 450 °C
- × Special connector for temperature controller

TC 2 according to DIN 12878

|                                       |                   |
|---------------------------------------|-------------------|
| Stirring quantity (H <sub>2</sub> O): | 15 l              |
| Motor rating input / output:          | 8 / 2 W           |
| Speed range:                          | 150 - 1.200 rpm   |
| Heating output:                       | 500 W             |
| Temperature range:                    | RT - 450 °C       |
| Heating plate material:               | glass-ceramic     |
| Heating plate surface (L x W):        | 140 x 140 mm      |
| Max. load:                            | 15 kg             |
| Dimensions (W x D x H):               | 184 x 276 x 98 mm |
| Weight:                               | 2,9 kg            |
| Protection class acc. to DIN 40050:   | IP 22             |

Package\* Id-Nr. 9009300  
\* MSC basic, TC 2, H 16 V,  
H 36, H 44



MSC basic Id-Nr. L005245

## TC 2

Electronic temperature controller

### Electronic temperature controller TC 2

Special electronic temperature controller with digital display for magnetic stirrer MSC basic.

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Sensor:                             | PT 1000                              |
| Measuring / control range:          | 0 - 350 °C                           |
| Resolution:                         | 0,1 K (< 100 °C)<br>1,0 K (> 100 °C) |
| Measuring accuracy:                 | ± 1 K                                |
| Control deviation:                  | ± 3 K                                |
| Protection class acc. to DIN 40050: | IP 44                                |

### Accessories:

#### 1.1

#### Support rod H 16 V

Support rod made of stainless steel for secure clamping of the temperature controller TC 2 to the MSC basic.

|           |        |
|-----------|--------|
| Diameter: | 10 mm  |
| Length:   | 450 mm |

#### 1.2

#### Holding rod H 36

The holding rod is used to support the temperature controller TC 2 to the boss head clamp H 44 and the support rod H 16 V.

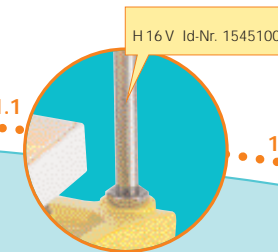
#### 1.3

#### Boss head clamp H 44

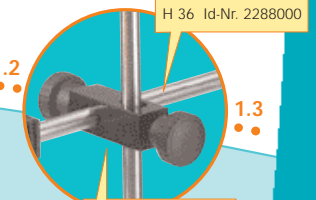
The boss head clamp H 44 is used to fasten the holding rod H 36 to the support rod H 16 V.



TC 2 Id-Nr. 3349000



H 16 V Id-Nr. 1545100



H 36 Id-Nr. 2288000

H 44 Id-Nr. 2437700

# MST basic and MST basic C

## Magnetic stirrers with heating

- × With adjustable safety temperature circuit
- × With a new, extremely powerful magnetic inductive stirring drive
- × With new hot-plate technology for equal heat distribution and fast heat-up cycles

|   |                    |
|---|--------------------|
| Speed range:  | 15 to 1.250 rpm    |
| Heat output:  | 600 W              |
| Temperature range:  | RT - 310 °C ± 20 K |
| Max. power consumption:   | 630 W              |
| Protection class acc. to DIN 40050:   | IP 53              |
| Separate adjustable safety temperature circuit:                               | 50 - 350 °C ± 10 K |
| Heating plate diameter:   | 135 mm             |
| Control accuracy of medium during operation with temperature controller TC 1: | ± 1 K              |
| Temperature controller connection:  | acc. to DIN 12 878 |
| Dimensions (W x D x H):   | 160 x 280 x 85 mm  |
| Weight:   | 3,2 kg             |

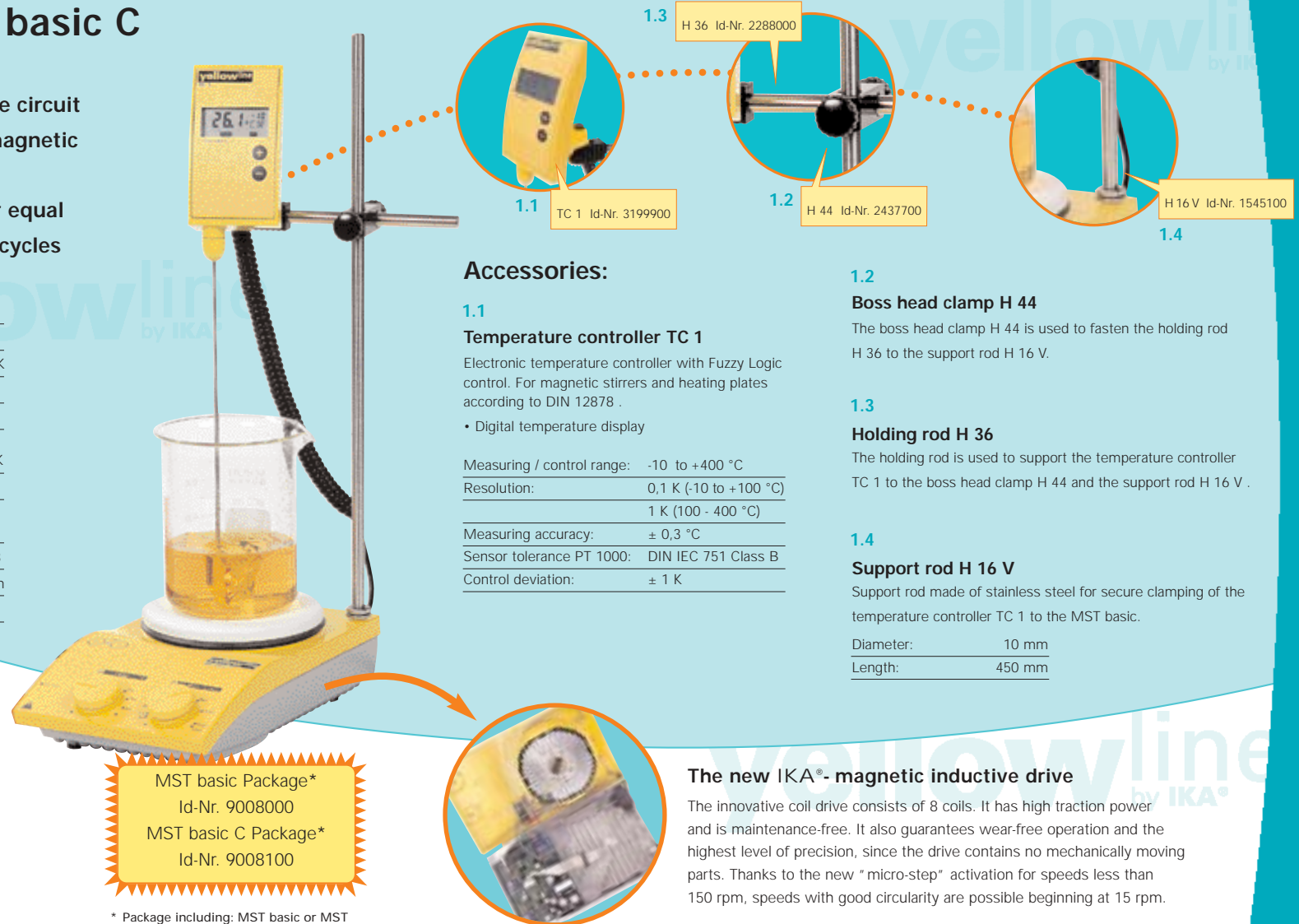
The MST is available in two versions:

### MST basic

with a stainless steel plated heating plate surface, which is very fast in comparison to standard Silumin heating plates .  
Id-Nr. 2987000

### MST basic C

with a chemical resistant white coated heating plate surface.  
Id-Nr. 2989900



MST basic Package\*  
Id-Nr. 9008000  
MST basic C Package\*  
Id-Nr. 9008100

\* Package including: MST basic or MST basic C and accessories 1.1 to 1.4

## Accessories:

### 1.1 Temperature controller TC 1

Electronic temperature controller with Fuzzy Logic control. For magnetic stirrers and heating plates according to DIN 12878 .

- Digital temperature display

|                            |  |
|----------------------------|--|
| Measuring / control range: | -10 to +400 °C                               |
| Resolution:                | 0,1 K (-10 to +100 °C)<br>1 K (100 - 400 °C) |
| Measuring accuracy:        | ± 0,3 °C                                     |
| Sensor tolerance PT 1000:  | DIN IEC 751 Class B                          |
| Control deviation:         | ± 1 K  |

### 1.2 Boss head clamp H 44

The boss head clamp H 44 is used to fasten the holding rod H 36 to the support rod H 16 V.

### 1.3 Holding rod H 36

The holding rod is used to support the temperature controller TC 1 to the boss head clamp H 44 and the support rod H 16 V .

### 1.4 Support rod H 16 V

Support rod made of stainless steel for secure clamping of the temperature controller TC 1 to the MST basic.

|           |        |
|-----------|--------|
| Diameter: | 10 mm  |
| Length:   | 450 mm |

## The new IKA®- magnetic inductive drive

The innovative coil drive consists of 8 coils. It has high traction power and is maintenance-free. It also guarantees wear-free operation and the highest level of precision, since the drive contains no mechanically moving parts. Thanks to the new "micro-step" activation for speeds less than 150 rpm, speeds with good circularity are possible beginning at 15 rpm.

## Magnetic stirrers from 0,8 - 5 l (H<sub>2</sub>O)

### MST mini

Magnetic stirrer without heating.  
White surface for viewing color change (titration).



MST Mini Id-Nr. 3287000

|                                       |                   |
|---------------------------------------|-------------------|
| Stirring quantity (H <sub>2</sub> O): | 800 ml            |
| Motor rating input/output:            | 2 / 1 W           |
| Infinitely variable speed:            | 0 - 1.500 rpm     |
| Set-up surface:                       | 115 x 115 mm      |
| Max. load:                            | 2 kg              |
| Dimensions (W x D x H):               | 115 x 130 x 40 mm |
| Weight:                               | 0,23 kg           |
| Protection class acc. to DIN 40050:   | IP 42             |

### BIG SQUID

- x With very good chemical resistance provided by glass top
- x Electronically controlled motor with infinitely variable speed

|                                       |                   |
|---------------------------------------|-------------------|
| Stirring quantity (H <sub>2</sub> O): | 1,5 l             |
| Motor rating input / output:          | 2 / 1 W           |
| Torque:                               | 0,5 Ncm           |
| Speed range:                          | 0 - 1.500 rpm     |
| Max. length of the magnetic bar:      | 30 x 7 mm         |
| Set-up surface:                       | 160 mm            |
| Max. load:                            | 5 kg              |
| Dimensions (W x D x H):               | 180 x 180 x 48 mm |
| Weight:                               | 1 kg              |
| Protection class acc. to DIN 40050:   | IP 54             |



BIG SQUID Id-Nr. 3286000

### MSH basic

Magnetic stirrer with stainless steel heating plate.

|                                       |                    |
|---------------------------------------|--------------------|
| Stirring quantity (H <sub>2</sub> O): | 5 l                |
| Temperature range:                    | RT - 350 °C        |
| Speed range:                          | 0 - 2.000 rpm      |
| Heat output:                          | 400 W              |
| Dimensions (W x D x H):               | 160 x 210 x 105 mm |
| Weight:                               | 2,3 kg             |



MSH basic Id-Nr. 3131200

## Overhead stirring drive OST basic

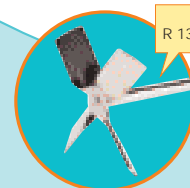
- x For use up to the "medium viscosity" range
- x With constant torque through micro-processor-driven control
- x Push-through agitator shafts, drive protected against overload

|                                       |                   |
|---------------------------------------|-------------------|
| Stirring quantity (H <sub>2</sub> O): | 20 l              |
| Speed range:                          | 50 - 2.000 rpm    |
| Viscosity range:                      | up to 10.000 mPas |
| Motor rating input / output:          | 75 / 55 W         |
| Output at stirring shaft:             | 53 W              |
| Maximum torque at chuck:              | 30 Ncm            |
| Speed variation under changing load:  | 2,5 %             |
| Chuck range:                          | 0,5 - 10 mm       |
| Hollow shaft, inner diameter:         | 11 mm             |
| Dimensions (W x D x H):               | 80 x 190 x 175 mm |
| Weight:                               | 2,8 kg            |



OST basic Id-Nr. 3145000

Package\* Id-Nr. 9006300  
\*OST basic, R 1826,  
R 182, R 1342



R 1342 Id-Nr. 0741000

### Propeller stirrer R 1342

Matches lab stirrer-mixer OST basic.

|                           |        |
|---------------------------|--------|
| Material stainless steel: | 1.4401 |
| Diameter of stirrer:      | 50 mm  |
| Stirrer length:           | 350 mm |
| Diameter of shaft:        | 8 mm   |

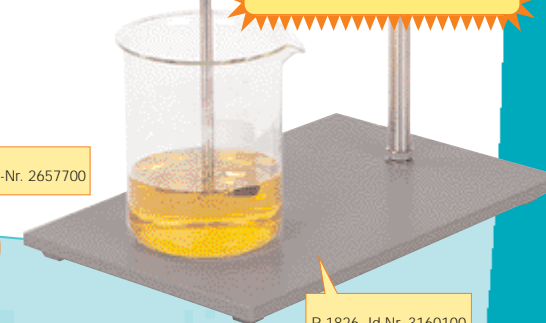


R 182 Id-Nr. 2657700

### Boss head clamp R 182

Matches plate stand R 1826.

|                           |           |
|---------------------------|-----------|
| Clamping range of column: | 6 - 16 mm |
| Clamping range of boom:   | 6 - 16 mm |



R 1826 Id-Nr. 3160100

### Plate stand R 1826

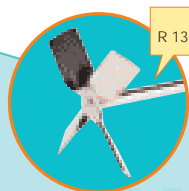
Stable, slip-free plate stand.  
(including PUR cover)

|                     |        |
|---------------------|--------|
| Diameter of column: | 16 mm  |
| Height:             | 800 mm |

## Overhead stirring drive OST 20 basic /OST 20 digital

- x **Sturdy, slim stirrer**
- x **Up to 20 l (H<sub>2</sub>O) with constant power drive**
- x **Two speed ranges for universal use from 60 - 2.000 rpm**
- x **Push-through agitator shafts**
- x **OST 20 digital with digital display**

|                                       |                   |
|---------------------------------------|-------------------|
| Stirring quantity (H <sub>2</sub> O): | 20 l              |
| Speed range I (50 Hz):                | 60 - 500 rpm      |
| Speed range II (50 Hz):               | 240 - 2.000 rpm   |
| Viscosity range:                      | 10.000 mPas       |
| Motor rating input / output:          | 70 / 30 W         |
| Output at stirring shaft:             | 20 W + 35 %       |
| Permissible ON-time:                  | 100 %             |
| Maximum torque at chuck:              | 150 Ncm (100 rpm) |
| Speed variation under changing load:  | 5 %               |
| Chuck range:                          | 0,5 - 10 mm       |
| Hollow shaft, inner diameter:         | 10,5 mm           |
| Diameter of extension arm:            | 13 mm             |
| Dimensions (W x D x H):               | 88 x 212 x 294 mm |
| Weight:                               | 3 kg              |



R 1342 Id-Nr. 0741000

### Propeller stirrer R 1342

Matches OST 20 basic / digital.  
For description, see page 7.



R 182 Id-Nr. 2657700

### Boss head clamp R 182

For description, see page 7.



OST 20 basic Id-Nr. 3292000

OST 20 digital Id-Nr. 3293000

Package\* Id-Nr. 9008800  
\*OST 20 digital,  
R 1826, R 182, R 1342

Package\* Id-Nr. 9008700  
\*OST 20 basic,  
R 1826, R 182, R 1342

R 1826 Id-Nr. 3160100

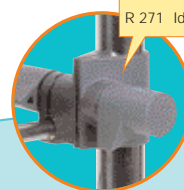
### Plate stand R 1826

For description, see page 7.

## Overhead stirring drive OST 20 hightorque

- x **Powerful laboratory stirrer**
- x **Sturdy and streamlined design**
- x **For high viscosities and intensive mixing**

|                                       |                   |
|---------------------------------------|-------------------|
| Stirring quantity (H <sub>2</sub> O): | 20 l              |
| Speed range (50 Hz):                  | 16 - 135 rpm      |
| Viscosity range:                      | 100.000 mPas      |
| Motor rating input / output:          | 70 / 30 W         |
| Output at stirring shaft:             | 20 W + 35 %       |
| Permissible ON-time:                  | 100 %             |
| Maximum torque at chuck:              | 600 Ncm (100 rpm) |
| Speed variation under changing load:  | 5 %               |
| Speed display:                        | digital           |
| Chuck range:                          | 0,5 - 10 mm       |
| Hollow shaft, inner diameter:         | 10,5 mm           |
| Diameter of extension arm:            | 16 mm             |
| Dimensions (W x D x H):               | 88 x 212 x 383 mm |
| Weight:                               | 4,2 kg            |

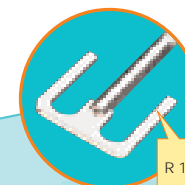


R 271 Id-Nr. 2664000

### Boss head clamp R 271

Matches telescopic stand R 2723.

|                               |       |
|-------------------------------|-------|
| Clamping range stand:         | 34 mm |
| Clamping range extension arm: | 16 mm |

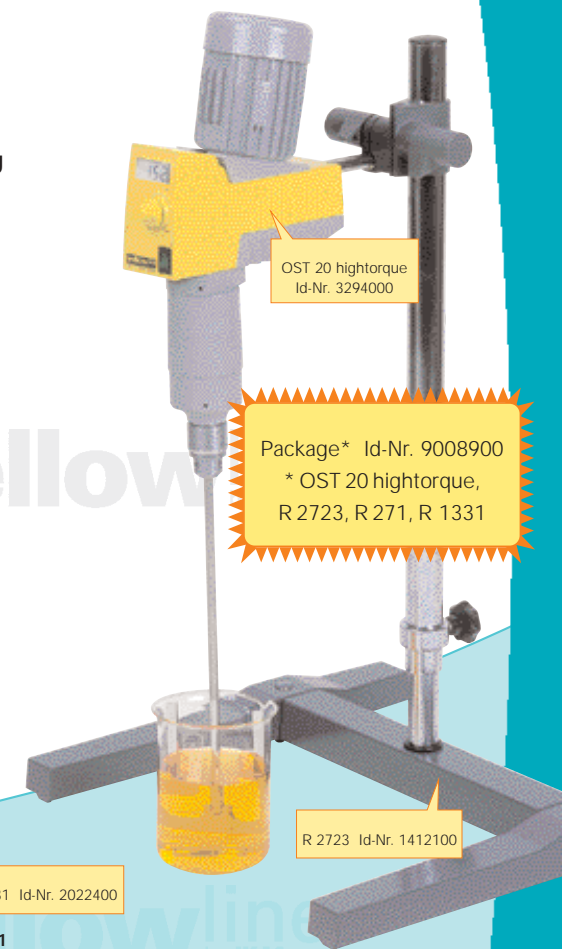


R 1331 Id-Nr. 2022400

### Anchor stirrer R 1331

Matches OST 20 hightorque.

|                           |        |
|---------------------------|--------|
| Material stainless steel: | 1.4571 |
| Diameter of stirrer:      | 90 mm  |
| Shaft length:             | 350 mm |
| Diameter of shaft:        | 8 mm   |



OST 20 hightorque  
Id-Nr. 3294000

Package\* Id-Nr. 9008900  
\* OST 20 hightorque,  
R 2723, R 271, R 1331

R 2723 Id-Nr. 1412100

### Telescopic stand R 2723

For heavy instruments and attachments.

|                          |                |
|--------------------------|----------------|
| Diameter of support rod: | 34 mm          |
| Height:                  | 620 - 1.010 mm |
| Stroke:                  | 390 mm         |

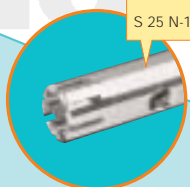
## Dispersing device DI 25 basic

- x High performance dispersion device for use in numerous applications

|                              |                     |
|------------------------------|---------------------|
| Speed range:                 | 8.000 - 24.000 rpm  |
| Motor rating input / output: | 600 / 350 W         |
| Speed adjustment:            | infinitely variable |
| Speed stability:             | 1%                  |
| Speed display:               | scale / analog      |
| Dimensions (W x D x H):      | 70 x 66 x 221 mm    |
| Weight:                      | 1,6 kg              |



Drive DI 25 basic  
Id-Nr. 3130000



S 25 N-18G Id-Nr. 0593400

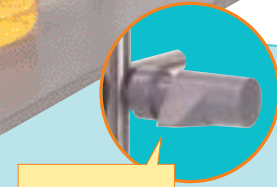
### Dispersing tool S 25 N-18G

Tool made of stainless steel 1.4571 with PTFE bearing.

- Suitable for solvents and abrasive substances
- Dispersion tool can be sterilized using all methods

|                     |               |
|---------------------|---------------|
| Diameter of stator: | 18 mm         |
| Working range:      | 10 - 1.000 ml |
| Temperature range:  | up to 180 °C  |

Package\* Id-Nr. 9006400  
\*DI 25 basic, R 1826,  
R 182, S 25 N - 18G

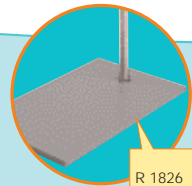


R 182 Id-Nr. 2657700

### Boss head clamp R 182

Matches plate stand R 1826.

|                           |           |
|---------------------------|-----------|
| Clamping range of column: | 6 - 16 mm |
| Clamping range of boom:   | 6 - 16 mm |



R 1826 Id-Nr. 3160100

### Plate stand R 1826

Stable, slip-free plate stand.

|                     |        |
|---------------------|--------|
| Diameter of column: | 16 mm  |
| Height:             | 800 mm |

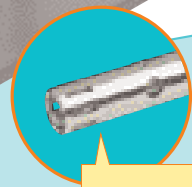
## Dispersing device DI 18 basic

- x An affordable low cost high value unit for simple mixing tasks
- x The wide speed range makes it possible to work at high circumferential speed
- x Accepts plug-in dispersing tools

|                              |                     |
|------------------------------|---------------------|
| Speed range:                 | 6.000 - 24.000 rpm  |
| Motor rating input / output: | 300 / 160 W         |
| Speed adjustment:            | infinitely variable |
| Speed display:               | scale / analog      |
| Dimensions (W x D x H):      | 78 x 78 x 220 mm    |
| Weight:                      | 1,2 kg              |



Drive DI 18 basic  
Id-Nr. L005118



S 18 N-10G Id-Nr. L004639

Package\* Id-Nr. 9007900  
\*DI 18 basic, R 1826,  
R 182, S 18 N - 10G

### Dispersing tool S 18 N-10G

Tool made of stainless steel 1.4571 with PTFE bearing.

- Suitable for solvents and aggressive substances
- Dispersion tool can be sterilized using all methods

|                     |              |
|---------------------|--------------|
| Diameter of stator: | 10 mm        |
| Working range:      | 1 - 100 ml   |
| Temperature range:  | up to 180 °C |

## Orbital shaker OS 5 basic

- x Quiet operation, wear-free
- x Adjustable timer from 5 - 50 min or continuous operation
- x LED display for speed and time setting
- x AS 130.1 universal attachment allows to use almost all shapes and sizes of vessels.
- x With constant torque through micro-processor-driven control
- x Drive protected against overload
- x Intrinsically safe by permanent supervision of all electric components

yellowline  
by IKA®



OS 5 basic Id-Nr. 3180100

|   |                   |
|---|-------------------|
| Shaking motion:                               | orbital           |
| Shaking orbit:                                | Ø 4 mm            |
| Permissible shaking weight (with attachment): | 2 kg              |
| Motor rating input:                           | 45 W              |
| Permissible ON-time:                          | 100 %             |
| Speed range infinitely adjustable:            | 80 - 800 rpm      |
| Speed display:                                | LED line          |
| Time switch clock:                            | 5 - 50 min        |
| Dimensions without attachment (W x D x H):    | 270 x 316 x 98 mm |
| Weight:                                       | 7,7 kg            |

Package\* Id-Nr. 9007300  
\*OS 5 basic, AS 130.1

## Orbital shaker OS 5 control

Details as per OS 5 basic plus the following:

- x Digital display for speed and time
- x An RS 232 interface makes it possible to control and document all functions with a PC
- x Adjustable timer up to max. 9 hrs 59 min or continuous operation

yellowline  
by IKA®



AS 130.1 Id-Nr. 8017300

### Universal attachment AS 130.1

Can be adjusted to fit all types of vessels with 3 universal, infinitely adjustable clamping rolls.

|                         |                   |
|-------------------------|-------------------|
| Dimensions (W x D x H): | 325 x 234 x 88 mm |
| Holding surface:        | 220 x 220 mm      |
| Weight:                 | 0,85 kg           |



OS 5 control  
Id-Nr. 3180200

Package\* Id-Nr. 9007400  
\*OS 5 control, AS 130.1

## Orbital shaker OS 10 basic Reciprocating shaker RS 10 basic

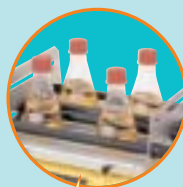
- x Compact, flat laboratory shakers available with orbital or reciprocating motion
- x Adjustable timer from 5 - 50 min or continuous operation
- x LED display for speed and time setting
- x AS 260.1 universal attachment (accessory) allows to use almost all shapes and sizes of vessels
- x With constant torque, protected against overload and intrinsically safe operation

OS 10 basic + AS 260.1  
Id-Nr. 9007500  
RS 10 basic + AS 260.1  
Id-Nr. 9007700

|   |                                    |
|---|------------------------------------|
| Shaking motion:                         | orbital (OS), reciprocating (RS)   |
| Shaking movement:                       | 10 mm (OS), 20 mm (RS)             |
| Perm. shaking weight (with attachment): | 7,5 kg                             |
| Motor rating input:                     | 45 W                               |
| Permissible ON-time:                    | 100 %                              |
| Speed range infinitely adjustable:      | 0 - 500 rpm (OS), 0 - 300 rpm (RS) |
| Speed display:                          | LED line                           |
| Timer:                                  | 5 - 50 min                         |
| Dimensions (W x D x H):                 | 360 x 420 x 98 mm                  |
| Weight:                                 | 8,1 kg                             |



OS 10 basic Id-Nr. 3180300  
RS 10 basic Id-Nr. 3180700



AS 260.1 Id-Nr. 8017400

## Orbital shaker OS 10 control Reciprocating shaker RS 10 control

Details as per OS 10 basic/ RS 10 basic, but with these additional features:

- x Digital display for speed and time
- x An RS 232 interface will allow remote control and documentation of all functions with a PC
- x Time setting: max. 9 hrs 59 min or continuous operation



OS 10 control Id-Nr. 3180400  
RS 10 control Id-Nr. 3180800



### Universal attachment AS 260.1

Can be adjusted to fit all types of vessels with 4 universal, infinitely adjustable clamping rolls.

|                         |                    |
|-------------------------|--------------------|
| Dimensions (W x D x H): | 425 x 335 x 135 mm |
| Holding surface:        | 320 x 320 mm       |
| Weight:                 | 1,6 kg             |

OS 10 control + AS 260.1  
Id-Nr. 9007600  
RS 10 control + AS 260.1  
Id-Nr. 9007800

## Orbital shaker OS 2 basic

- x Cost effective orbital shaker that includes universal attachment, 2 clamping rolls and 4 fastening screws
- x Very stable and sturdy housing
- x With constant torque through micro-processor-driven control
- x Wide adjustable speed range
- x Drive protected against overload
- x Intrinsically safe by permanent supervision of all electric components
- x Incl. protection cover



OS 2 basic Id-Nr. 3295000  
(incl. attachment)

|                         |                    |
|-------------------------|--------------------|
| Shaking motion:         | orbital            |
| Shaking orbit:          | Ø 4 mm             |
| Shaking weight:         | 2 kg               |
| Motor rating input:     | 45 W               |
| Permissible ON-time:    | 100 %              |
| Speed range:            | 0 - 1.100 rpm      |
| Speed display:          | scale              |
| Dimensions (W x D x H): | 375 x 152 x 383 mm |
| Weight:                 | 11,6 kg            |

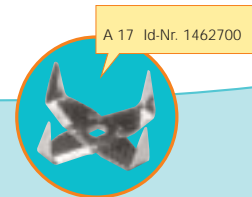
## Analytical grinder A 10

- x With a built-in cooling chamber
- x Suitable for low-loss dry grinding of soft, hard and brittle substances
- x Removable, easy-to-clean, high-grade steel chamber
- x 3 interchangeable cutters available
- x Electronic overload protection

|                                     |                    |
|-------------------------------------|--------------------|
| Maximum task granularity:           | 6 - 7 mm           |
| Nominal speed:                      | 20.000 rpm         |
| Effective vol. of grinding chamber: | 50 ml              |
| Dimensions (W x D x H):             | 120 x 105 x 225 mm |
| Weight:                             | 2,2 kg             |



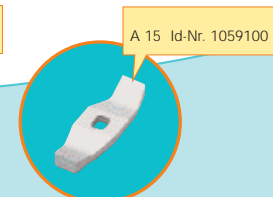
A 10 Id-Nr. 3250000  
(incl. A 14 and A 18)



A 17 Id-Nr. 1462700

### Star-shaped cutter A 17

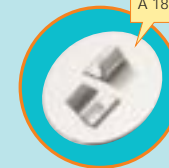
Suitable to grind fibrous substances such as paper and dried vegetation, soil samples, frozen meat and plastic granulates with low volume weight.



A 15 Id-Nr. 1059100

### Hard metal cutter A 15

Made of tungsten carbide for hard materials suitable for Mohs hardness up to 9.



A 18 Id-Nr. 2318200

### Grinding chamber reduction A 18

For pulverizing only very small test samples.  
(incl. in the A 10 supply schedule)



A 14 Id-Nr. 1059300

### Stainless steel cutter A 14

For pulverizing most brittle materials, suitable for Mohs hardness up to 5.  
(incl. in the A 10 supply schedule)

## Bath vessels EH 4.1, EH 4.2 and EH 4.3

- x Suitable for the immersion thermostat ET basic
- x Constructed of Polycarbonate

| Bath vessels:                     | EH 4.3             | EH 4.2             | EH 4.1             |
|-----------------------------------|--------------------|--------------------|--------------------|
| Material:                         | Polycarbonate      |                    |                    |
| Filling quantity without vessels: | max. 18 l          | max. 11 l          | max. 5 l           |
| Outer dimensions (W x D x H):     | 350 x 473 x 168 mm | 350 x 313 x 168 mm | 132 x 280 x 160 mm |
| Inner dimensions (W x D x H):     | 302 x 455 x 150 mm | 302 x 295 x 150 mm | 120 x 262 x 150 mm |



EH 4.3 Id-Nr. 3335200

EH 4.2 Id-Nr. 3335100

EH 4.1 Id-Nr. 3335000

\*Package Id-Nr. 9009200  
\*ET basic, EH 4.3

\*Package Id-Nr. 9009100  
\*ET basic, EH 4.2

\*Package Id-Nr. 9009000  
\*ET basic, EH 4.1

## Immersion Thermostat ET basic

- x For temperature control up to 100 °C, in all open water baths
- x Short heating cycles
- x High pump capacity
- x Universal mounting
- x Safe operation and maintenance free
- x Analog temperature setting
- x Adjustable safety circuit

|                         |                    |
|-------------------------|--------------------|
| Temperature range:      | RT - 100 °C        |
| Control accuracy:       | ± 0,2 K            |
| Heat output:            | 1.500 W            |
| Immersion depth:        | 150 mm             |
| Voltage:                | 230/115 V          |
| Frequency:              | 50/60 Hz           |
| Dimensions (W x D x H): | 105 x 139 x 319 mm |
| Weight:                 | 2,3 kg             |

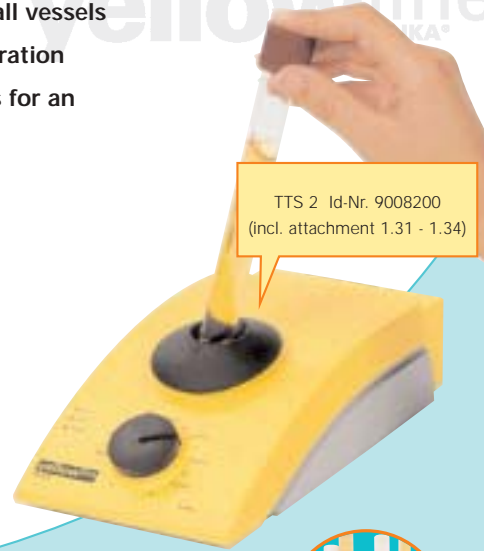


ET basic Id-Nr. 3163000

## Test tube shaker TTS 2

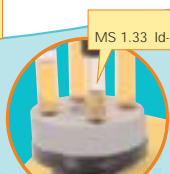
- × Universal shaker for test tubes and small vessels
- × Continuous or automatic - "touch" operation
- × A large selection of attachments allows for an extensive range of applications

|   |                   |
|---|-------------------|
| Shaking motion:                           | orbital           |
| Shaking orbit:                            | Ø 4,5 mm          |
| Perm. agitation weight (with attachment): | 0,5 kg            |
| Motor rating input / output:              | 18 / 10 W         |
| Permissible ON-time:                      | 100 %             |
| Speed range (infinitely adjustable):      | 0 - 2.500 rpm     |
| Speed display:                            | scale / analog    |
| Dimensions (W x D x H):                   | 115 x 225 x 60 mm |
| Weight:                                   | 3,5 kg            |



MS 1.34 Id-Nr. L001830

**Test tube insert MS 1.34**  
No pre-drilled holes. Any number of holes may be drilled.



MS 1.33 Id-Nr. L001860

**Test tube insert MS 1.33**  
4 holes, Ø 15 mm



MS 1.32 Id-Nr. L001850

**Test tube insert MS 1.32**  
6 holes, Ø 10 mm



MS 1.31 Id-Nr. L001840

**Test tube insert MS 1.31**  
14 holes, Ø 8 mm

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