

# IKA® Mixing Orbital shakers



## lab dancer

Economic, compact test tube shaker with touch function.

- Its compact and clever design makes it an indispensable tool for every laboratory
- The lab dancer can be used with all small vessels of up to 30 mm in diameter, e. g. test tubes, centrifuge tubes, Eppendorf vessels
- Excellent mixing action
- The upper casing and the test tube surface are made from inert plastic
- Secure stand thanks to coated zinc die cast base
- Includes light 12 V power pack set

|                                       |               |
|---------------------------------------|---------------|
| Shaking motion                        | orbital       |
| Shaking stroke                        | 4,5 mm        |
| Shaken quantity (1 test tube)         | max. 50 ml    |
| Motor rating                          |               |
| input / output                        | 1,2 W / 0,8 W |
| Speed (fixed)                         | 2.800 rpm     |
| <b>General data</b>                   |               |
| Material Casing                       | PP            |
| Attachment                            | TPU           |
| Bottom                                | zinc, coated  |
| Dimensions (Ø x H)                    | 100 x 70 mm   |
| Weight                                | 0,55 kg       |
| Permissible ambient temperature       | 5 - 40 °C     |
| Permissible relative humidity         | 80 %          |
| Protection class acc. to DIN EN 60529 | IP 40         |

Ident. No.

**3365000** 100 - 240 V / 50/60 Hz



## VORTEX Genius 3

New vortex shaker suitable for short-time operation (touch function), activated by pressing shaker attachment or continuous operation.

- Wide speed range, infinitely adjustable
- Different applications thanks to 3 interchangeable attachments and 7 inserts (e.g. Eppendorf tubes, microtiter plates, Erlenmeyer flasks 250 ml etc.), please order separately
- Attachments securely click onto appliance in any position
- Special strap (VG 3.36) ensures easy handling of round/Erlenmeyer flasks
- Sturdy metal zinc die cast casing
- Compact design
- Short-time operation activated by pressing attachment (touch function)
- Stable at high speeds thanks to special feet (silicon base with ultra high vibration damping)
- Eccentric with ball bearings
- Suitable for continuous operation with low self heating thanks to self ventilation of motor

### Accessories (Page):

Attachments (48): VG 3.1, VG 3.2, VG 3.3

Inserts (48): VG 3.31, VG 3.32, VG 3.33, VG 3.34, VG 3.35, VG 3.36, VG 3.37

|                                       |                    |
|---------------------------------------|--------------------|
| Shaking motion                        | orbital            |
| Orbital diameter                      | 4 mm               |
| Motor rating                          |                    |
| input / output                        | 160 W / 10 W       |
| Permitted on-time                     | 100 %              |
| Adjustable speed range*               | 250 - 2.500 rpm    |
| Speed display                         | scale 0 - 6        |
| Speed setting                         | knob, front        |
| <b>General data</b>                   |                    |
| Dimensions (W x D x H)                | 127 x 149 x 136 mm |
| Weight                                | 4,5 kg             |
| Permissible ambient temperature       | 5 - 40 °C          |
| Permissible relative humidity         | 80 %               |
| Protection class acc. to DIN EN 60529 | IP 21              |

\*depending on attachment and loading

Ident. No.

**3340000** 230 V 50/60 Hz Available 2. quarter 2005

**3340001** 115 V 50/60 Hz Available 2. quarter 2005

# IKA® Mixing Orbital shakers



**1 MS 2 Minishaker**  
Universal orbital shaker

**2 MS 1.1**  
Standard attachment, page 49.  
(included with MS 2)

**3 MS 1.2**  
One-hand attachment, page 49.  
(included with MS 2)



## MS 2 Minishaker

Universal, small-sized shaker. With an orbit of 4,5 mm and a speed range of 0 - 2.500 rpm, the MS 2 is suitable for all small vessels.

- Electronic speed control
- Convenient handling provided by control console facing the operator
- Flat construction
- Attractive design
- Short-time operation (touch function) activated by pressing attachment or continuous operation

### Accessories (Page):

Attachments (49): MS 1.1, MS 1.2, MS 1.3, MS 1.21 (included with delivery)

|  |                   |
|--|-------------------|
| Shaking motion                               | orbital           |
| Orbital diameter                             | 4,5 mm            |
| Permissible shaking weight (with attachment) | 0,5 kg            |
| Motor rating input / output                  | 30 / 23 W         |
| Permissible ON-time                          | 100 %             |
| Speed range                                  | 0 - 2.500 rpm     |
| Speed display                                | scale             |
| Dimensions (W x D x H)                       | 115 x 225 x 60 mm |
| Weight (without attachment)                  | 3,5 kg            |
| Permissible ambient temperature              | 5 - 40 °C         |
| Permissible relative humidity                | 80 %              |
| Protection class acc. to DIN EN 60529        | IP 21             |

## MS 1 Minishaker

Same features as MS 2, additionally suitable for work with a microtiter plate. Large selection of attachments.

### Accessories (Page):

Attachments (49): MS 1.1, MS 1.2, MS 1.3, MS 1.21, MS 1.32, MS 1.4 (included with delivery)



|      | Ident. No.     | 230 V 50/60 Hz | Ident. No.     | 115 V 50/60 Hz |
|------|----------------|----------------|----------------|----------------|
| MS 2 | <b>L002050</b> |                | <b>L002051</b> |                |
| MS 1 | <b>L001500</b> |                | <b>L001501</b> |                |

# IKA® Mixing Orbital shakers

## VXR basic IKA Vibrax®

Optoelectronically controlled small shaker with a very wide speed range.

- Suitable for continuous operation
- New design and improved drive system
- Circular shaking motions
- Slow speeds are well maintained
- Attachments are interchangeable



### Accessories (Page):

Attachments (50): VX 1, VX 2, VX 2E, VX 7, VX 8

|                                       |                    |
|---------------------------------------|--------------------|
| Shaking motion                        | orbital            |
| Orbital diameter                      | 4 mm               |
| Max. shaking weight (with attachment) | 2 kg               |
| Motor rating input / output           | 35 / 13,2 W        |
| Max. ON-time                          | 100 %              |
| Speed range                           | 0 - 2.200 rpm      |
| Speed display                         | scale              |
| Dimensions (W x D x H)                | 157 x 247 x 130 mm |
| Weight (without attachment)           | 5,7 kg             |
| Permissible ambient temperature       | 5 - 40 °C          |
| Permissible relative humidity         | 80 %               |
| Protection class acc. to DIN EN 60529 | IP 21              |

|                               |                               |
|-------------------------------|-------------------------------|
| Ident. No.                    | Ident. No.                    |
| <b>2819000</b> 230 V 50/60 Hz | <b>2819001</b> 115 V 50/60 Hz |

## MTS 2/4 digital microtiter shaker

Special shaker for shaking two or four microtiter plates.

- Electronic speed control
- Digital timer
- Alarm to indicate set time has expired
- Incl. attachment (without microtiter plate)



|                                       |                          |
|---------------------------------------|--------------------------|
| Shaking motion                        | orbital                  |
| Orbital diameter                      | 3 mm                     |
| Max. shaking weight                   | 2 or 4 microtiter plates |
| Motor rating input / output           | 35 / 13,2 W              |
| Max. ON-time                          | 100 %                    |
| Speed range                           | 0 - 1.100 rpm            |
| Speed display                         | scale                    |
| Timer                                 | ∞ / 1 - 99 min           |
| Timer display                         | digital                  |
| Dimensions (W x D x H)                | 185 x 320 x 105 mm       |
| Weight (without attachment)           | 2,7 kg                   |
| Permissible ambient temperature       | 5 - 40 °C                |
| Permissible relative humidity         | 80 %                     |
| Protection class acc. to DIN EN 60529 | IP 21                    |

|                               |                               |
|-------------------------------|-------------------------------|
| Ident. No.                    | Ident. No.                    |
| <b>3208000</b> 230 V 50/60 Hz | <b>3208001</b> 115 V 50/60 Hz |

# IKA® Mixing Orbital shakers



## KS 130 basic

Small, quiet shaker ensures long life with ideal swivel motion, for a maximum shaking weight of 2 kg.

- Electronic adjustment of speed and timer
- LED display for speed and time adjustment
- Wide range of attachment combinations makes it possible to use almost all shapes and sizes of vessels
- Attachments are not included, please order separately

### Accessories (Page):

Attachments (51): AS 130.1, AS 130.2, AS 130.3, AS 130.4

|                                       |                   |
|---------------------------------------|-------------------|
| Shaking motion                        | orbital           |
| Orbital diameter                      | 4 mm              |
| Max. shaking weight (with attachment) | 2 kg              |
| Motor rating input / output           | 45 / 10 W         |
| Max. ON-time                          | 100 %             |
| Adjustable speed range                | 80 - 800 rpm      |
| Speed display                         | LED line          |
| Timer                                 | ∞ / 5 - 50 min    |
| Dimensions (W x D x H)                | 270 x 316 x 98 mm |
| Weight (without attachment)           | 7,7 kg            |
| Permissible ambient temperature       | 5 - 50 °C         |
| Permissible relative humidity         | 80 %              |
| Protection class acc. to DIN EN 60529 | IP 21             |

|                               |                               |
|-------------------------------|-------------------------------|
| Ident. No.                    | Ident. No.                    |
| <b>2980000</b> 230 V 50/60 Hz | <b>2980001</b> 115 V 50/60 Hz |



## KS 130 control

Small, quiet shaker ensures long life with ideal swivel motion, for a maximum shaking weight of 2 kg.

- Electronic adjustment of speed and timer
- A digital display makes it possible to read the speed, timer function and operating modes
- Electronic time switching clock: 0 - 9 h 59 min or continuous operation (∞)
- With integrated end point positioning (for automated robot-controlled sampling)
- All functions can be controlled and documented with labworldsoft®
- Special version with reverse rotating direction on request
- Wide range of attachment combinations makes it possible to use almost all shapes and sizes of vessels
- Attachments are not included in delivery, please order separately

### Accessories (Page):

Attachments (51): AS 130.1, AS 130.2, AS 130.3, AS 130.4, labworldsoft® (131), PC 1.5 Cable (136)

|                                       |                    |
|---------------------------------------|--------------------|
| Shaking motion                        | orbital            |
| Orbital diameter                      | 4 mm               |
| Max. shaking weight (with attachment) | 2 kg               |
| Motor rating input / output           | 45 / 10 W          |
| Max. ON-time                          | 100 %              |
| Adjustable speed range                | 80 - 800 rpm       |
| Speed display                         | digital            |
| Timer                                 | ∞ / 0 - 9 h 59 min |
| Dimensions (W x D x H)                | 270 x 316 x 98 mm  |
| Weight (without attachment)           | 8,8 kg             |
| Permissible ambient temperature       | 5 - 50 °C          |
| Permissible relative humidity         | 80 %               |
| Protection class acc. to DIN EN 60529 | IP 21              |
| Interface                             | RS 232 / analog    |

|                               |                               |
|-------------------------------|-------------------------------|
| Ident. No.                    | Ident. No.                    |
| <b>2980100</b> 230 V 50/60 Hz | <b>2980101</b> 115 V 50/60 Hz |

## Shakers accessories (VORTEX Genius 3)



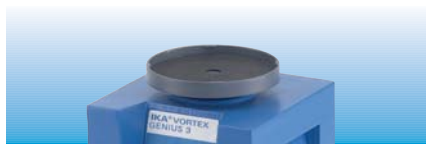
### VG 3.1 Standard attachment

Standard attachment for reagent glasses / small vessels (continuous / touch operation), included with delivery.

Ident. No.

**3341200**

Available 2. quarter 2005



### VG 3.2 One-hand attachment

One-hand attachment, 88 mm, round, with rubber insert (continuous / touch operation).

Ident. No.

**3342300**

Available 2. quarter 2005



### VG 3.3 Universal attachment

Universal attachment, 150 mm, with rubber insert (continuous / touch operation).

Ident. No.

**3342400**

Available 2. quarter 2005



### VG 3.31 Test tube attachment (for VG 3.3)

For 54 Eppendorf tubes (continuous operation).

Ident. No.

**3344300**

Available 2. quarter 2005



### VG 3.32 Test tube attachment (for VG 3.3)

For 18 reagent glasses, 10 mm (continuous operation).

Ident. No.

**3343900**

Available 2. quarter 2005



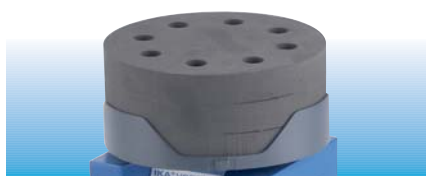
### VG 3.33 Test tube attachment (for VG 3.3)

For 12 reagent glasses, 12 mm (continuous operation).

Ident. No.

**3344000**

Available 2. quarter 2005



### VG 3.34 Test tube attachment (for VG 3.3)

For 8 reagent glasses, 16 mm (continuous operation).

Ident. No.

**3344100**

Available 2. quarter 2005



### VG 3.35 Test tube attachment (for VG 3.3)

For 8 reagent glasses, 20 mm (continuous operation).

Ident. No.

**3344200**

Available 2. quarter 2005



### VG 3.36 Erlenmeyer flask attachment (for VG 3.3)

For 1 Erlenmeyer / round flask from 100 to 250 ml (continuous operation).

Ident. No.

**3342100**

Available 2. quarter 2005



### VG 3.37 Microtiter plate attachment (for VG 3.3)

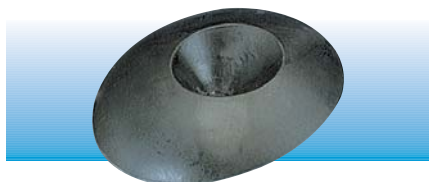
For 1 standard microtiter plate (continuous operation).

Ident. No.

**3344400**

Available 2. quarter 2005

## Shakers accessories (MS 1/MS 2)

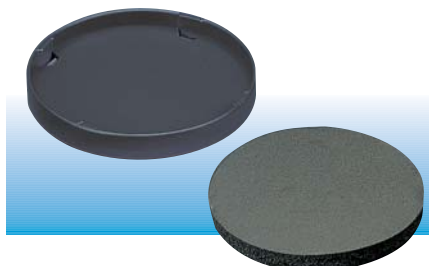


### MS 1.1 Standard attachment

For mounting test tubes and other small vessels of up to 30 mm in diameter. A trough prevents slipping caused by vibrations.

Included with the minishakers MS 1 and MS 2.

Ident. No.  
**L001260**



### MS 1.2 One-hand attachment

With a soft foam platform for processing larger vessels as well, e.g. 100 ml flasks.

Diameter 85 mm

Included with the minishakers MS 1 and MS 2.

Ident. No.  
**L001900**



### MS 1.3 Test tube attachment

For various foam inserts for processing of several test tubes simultaneously and in continuous operation.

Included with the minishakers MS 1 and MS 2.

**Accessories** (Page 49/50):  
MS 1.21, MS 1.31, MS 1.32, MS 1.33, MS 1.34

Ident. No.  
**L001490**



### MS 1.21 One-hand insert

Foam insert for insertion into the test tube attachment MS 1.3.

Included with the minishakers MS 1 and MS 2.

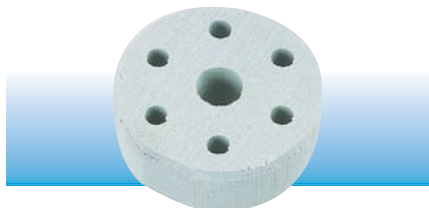
Ident. No.  
**L001540**



### MS 1.31 Test tube insert

|                     |                    |
|---------------------|--------------------|
| Bore holes (number) | 14                 |
| Hole Ø              | 8 mm               |
| Material            | ethylvinyl-acetate |

Ident. No.  
**L001840**

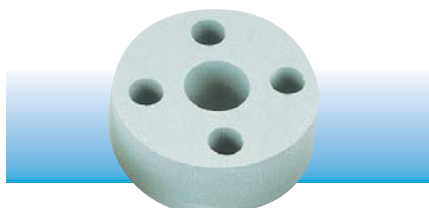


### MS 1.32 Test tube insert

|                     |                    |
|---------------------|--------------------|
| Bore holes (number) | 6                  |
| Hole Ø              | 10 mm              |
| Material            | ethylvinyl-acetate |

Included with the minishakers MS 1 and MS 2.

Ident. No.  
**L001850**

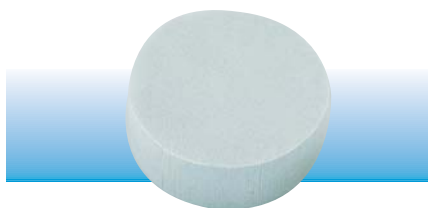


### MS 1.33 Test tube insert

|                     |                    |
|---------------------|--------------------|
| Bore holes (number) | 4                  |
| Hole Ø              | 15 mm              |
| Material            | ethylvinyl-acetate |

Ident. No.  
**L001860**

## Shakers accessories (MS 1/MS 2 / VXR)



**MS 1.34 Test tube insert**  
For any number of bore holes.

Material ethylvinyl-acetate

Ident. No.  
**L001830**



**MS 1.4 Microtiter plate attachment**  
For use with a microtiter plate.

Dimensions microtiter plate (W x D) 85 x 130 mm

Included with minishaker MS 1.

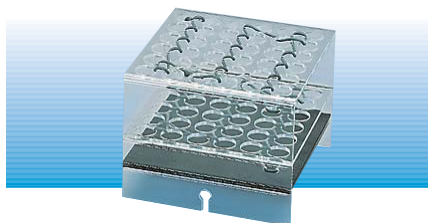
Ident. No.  
**L001280**



**VX 1 One-hand attachment**  
For shaking single, non-fixed vessels of 1 - 250 ml.

Dimensions (W x D x H) 130 x 135 x 40 mm  
Weight 160 g

Ident. No.  
**0607200**



**VX 2 Test tube attachment**  
For up to 36 test tubes or centrifugal tubes with a diameter of 16 mm.

Dimensions (W x D x H) 140 x 145 x 115 mm  
Material Macrolon  
Weight 300 g

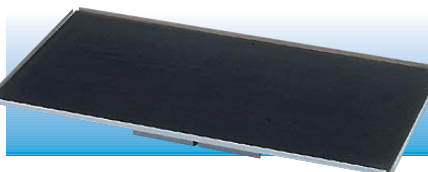
Ident. No.  
**0568900**



**VX 2E "Eppendorf" attachment**  
For intensive mixing of up to 64 "Eppendorf" tubes (1.5 ml).

Dimensions (W x D x H) 210 x 210 x 65 mm  
Weight 240 g

Ident. No.  
**1618100**



**VX 7 Dish attachment**  
For careful mixing of culture bottles, Petri dishes, ect.

Dimensions (W x D x H) 410 x 210 x 40 mm  
Weight 740 g

Ident. No.  
**0953300**



**VX 8 Universal attachment**  
For rapid and secure clamping, e.g. 2 Erlenmeyer flasks up to 500 ml.

Dimensions (W x D x H) 265 x 136 x 60 mm  
Clamping length 25 - 135 mm  
Min. height of vessel 80 mm  
Weight 760 g

Ident. No.  
**0910400**

## Shakers accessories (KS 130)



### AS 130.1 Universal attachment

For use with various types of vessels by means of universal, infinitely variable clamping rolls.

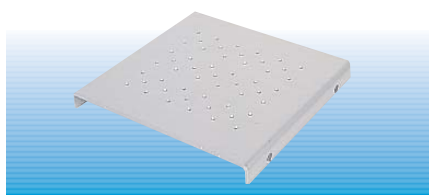
|                        |                   |
|------------------------|-------------------|
| Dimensions (W x D x H) | 325 x 234 x 88 mm |
| Set-up surface         | 220 x 220 mm      |
| Weight                 | 850 g             |

#### Included with delivery (Page):

- 1 x AS 1.30 Basic holder (54)
- 3 x AS 1.31 Clamping roll (54)
- 6 x AS 1.5 Fastening screw (54)

Ident. No.

**8017300**



### AS 130.2 Fixing clip attachment

For processing round flasks, measuring flasks and Erlenmeyer flasks. Please order fixing clips separately.

#### Accessories (Page):

Fixing clips (55): AS 2.1, AS 2.2, AS 2.3, AS 2.4, AS 2.5

|   |                      |
|---|----------------------|
| Dimensions (W x D x H)                    | 230 x 230 x 24 mm    |
| Capacity: Number of fixing clips (volume) | 20 x AS 2.1 (25 ml)  |
|   | 12 x AS 2.2 (50 ml)  |
|   | 12 x AS 2.3 (100 ml) |
|   | 6 x AS 2.4 (250 ml)  |
|   | 4 x AS 2.5 (500 ml)  |
| Weight                                    | 650 g                |

Ident. No.

**3115000**



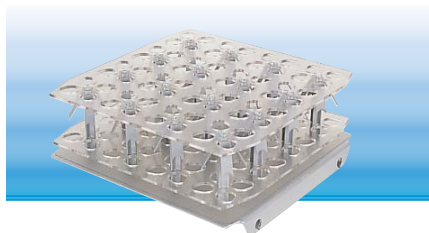
### AS 130.3 Dish attachment

For smooth shaking operations in the low viscosity range, e.g. Petri dishes or culture bottles. With integrated slip-resistant foil (PP).

|                        |                   |
|------------------------|-------------------|
| Dimensions (W x D x H) | 420 x 270 x 32 mm |
| Set-up surface         | 220 x 340 mm      |
| Weight                 | 370 g             |

Ident. No.

**3120000**



### AS 130.4 Test tube support

For intensive shaking, e.g. small tubes, test tubes, cuvettes, centrifuge tubes.

|                        |                   |
|------------------------|-------------------|
| Dimensions (W x D x H) | 220 x 230 x 95 mm |
| Capacity               | 64                |
| Vessel Ø               | 10 - 16 mm        |
| Min. height of vessel  | 80 mm             |
| Weight                 | 670 g             |

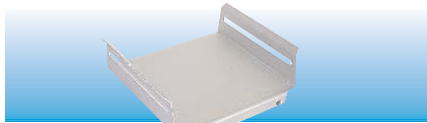
Ident. No.

**3120300**



# IKA® Mixing

## Shakers accessories



### AS 1.30 Basic holder

For use with universal attachment AS 130.1.

Dimensions (W x D x H) 252 x 234 x 88 mm

Accessories (Page): AS 1.31, AS 1.5 (54)

Ident. No.

**3148000**



### AS 1.60 Basic holder

For use with universal attachment AS 260.1.

Dimensions (W x D x H) 348 x 335 x 135 mm

Accessories (Page): AS 1.31, AS 1.5 (54)

Ident. No.

**3149000**



### AS 1.10 Basic holder

For use with universal attachment AS 501.1 and separating funnel attachments AS 501.2, AS 501.3 and AS 501.6.

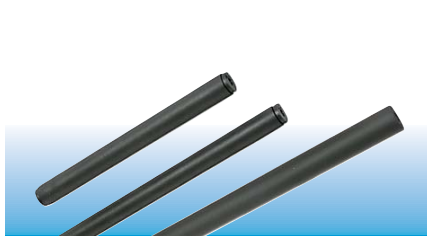
Dimensions (W x D x H) 480 x 480 x 120 mm

Accessories (Page):

AS 1.11, AS 1.6 (54), AS 1.7, AS 1.8, AS 1.12, AS 1.13 (55)

Ident. No.

**2339700**



### Clamping roll

#### AS 1.31

For use with basic holder AS 1.30

Length 228 mm

#### AS 1.61

For use with basic holder AS 1.60

Length 335 mm

#### AS 1.11

For use with basic holder AS 1.10

Length 410 mm

Ident. No.

**3030500** AS 1.31

**3030501** AS 1.61

**2339800** AS 1.11



### AS 1.5 Fastening screw

Fastening screw for the universal attachments AS 130.1, AS 260.1 and the separating funnel attachment AS 260.5.

Two AS 1.5 fastening screws are required for fastening a clamping roll onto the corresponding basic holder.

Ident. No.

**2979400**



### AS 1.6 Clamping device

Two AS 1.6 clamping devices are required for fastening a clamping roll to the corresponding basic holder (for basic holder AS 1.10 only)

Ident. No.

**1268400**

# IKA® Mixing

## Shakers accessories

### AS 1.7 Clamping device

Two AS 1.6 and two AS 1.7 clamping devices are required for fastening two clamping rolls one above the other (for clamping separating funnels). For basic holder AS 1.10 only.



Ident. No.  
**1269200**

### AS 1.8 Supporting clamping device

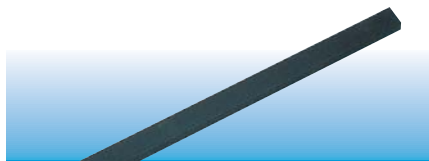
Two AS 1.6 clamping devices and two AS 1.8 supporting clamping devices are required if a clamping roll is to be attached at a higher position (e.g. for fixing a vessel which has a higher point of gravity). For basic holder AS 1.10 only.



Ident. No.  
**1268900**

### AS 1.12 Supporting bar

For attaching two AS 1.13 ground section holders for fixing 1.000 ml separating funnels. For basic holder AS 1.10 only.



**Accessories** (Page):  
AS 1.13 (55)

Length 437 mm

Ident. No.  
**2594500**

### AS 1.13 Ground section holder

For attaching separating funnels with ground opening NS 29 (2x AS 1.13 necessary per separating funnel). For basic holder AS 1.10 only.



Ident. No.  
**2597000**

### AS 2.1 Fixing clips

### AS 2.2 Fixing clips

### AS 2.3 Fixing clips

### AS 2.4 Fixing clips

### AS 2.5 Fixing clips



|                  |                 |
|------------------|-----------------|
| For flask volume | 25 ml           |
| For flask volume | 50 ml           |
| For flask volume | 100 ml          |
| For flask volume | 200 ml / 250 ml |
| For flask volume | 500 ml          |

Ident. No.  
**1234300** AS 2.1  
**1234400** AS 2.2  
**1234500** AS 2.3  
**1234600** AS 2.4  
**1234700** AS 2.5