

## 1 Test tube shaker LLG-uniTEXER 1

**Compact and cost-efficient** test tube shaker with brushless motor drive and touch function for short-term operation. Adjustable speed control up to 4500 rpm for excellent mixing results in a very short time. Especially for small volumes.

**Scope of supply:** vortexer, 1 mains adapter each US, AUS, UK

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### Specifications

Type of movement:	orbital
Orbit:	4.5 mm
Speed:	0 ... 4500 min <sup>-1</sup>
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	< 80 %
Dimensions (W x D x H):	100 x 100 x 70 mm
Weight:	0.55 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 43
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniTEXER 1	EU	1	6.263 490
LLG-uniTEXER 1	UK	1	6.263 491

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## Vortexer LLG-uniTEXER with universal attachment

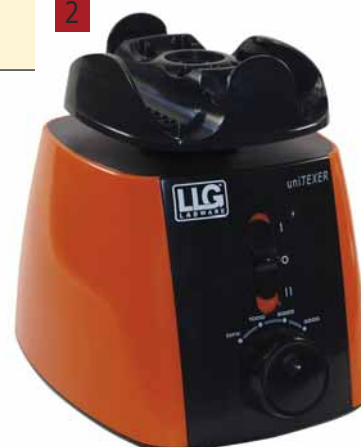
### One head - multiple uses

Vortexer with single carrier head, accommodating the most popular consumables and tubes: for 1 x assay plate, 2 x 50 ml conical tubes, 2 x 15 ml conical tubes, 2 x 5 ml conical tubes, 4 x 1.5/2 ml microcentrifuge tubes, 6 x 0.5 ml and 24 x 0.2 ml microcentrifuge tubes.

- Touch function for short-term operation
- Very easy to clean
- Elastomeric feet ensure excellent stability on the bench
- Modern design
- Robust housing made of ABS

**Scope of supply:** vortexer, 1 x universal attachment

2



### Specifications

Type of movement:	orbital/vortex
Orbital diameter:	3.7 mm
Speed:	1000, 2000 und 3000 min <sup>-1</sup>
Dimensions (W x D x H):	173 x 198 x 198 mm
Weight:	3.8 kg
Power supply:	220 V, 50/60 Hz
IP code:	IP 20
Warranty:	3 years

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Type	Plug type	PK	Cat. No.
LLG-uniTEXER	EU	1	6.261 826
LLG-uniTEXER	UK	1	4.655 191



7.971 461

### Vortex mixers ZX4/WIZARD/TX4 with IR sensor

Vortexers with patented IR sensor for sample recognition: the shaking process starts automatically when the sample tube approaches the mixing cup head. This enables fatigue-free working, as the sample doesn't have to be pressed on the device.

*Velp Scientifica*

- For IR sensor and continuous operation
- Electronic speed control
- Adjustable shaking speeds up to 3000 min<sup>-1</sup>
- Very good chemical resistance
- Broad range of accessories available

**ZX4:** Analog vortex mixer

**WIZARD:** Compact, analog vortex mixer

**TX4:** Digital vortex mixer with timer and LCD display

**Scope of delivery:** Vortex mixer with mixing head

#### Specifications

Type of movement:	orbital
Orbital diameter:	4.5 mm
Speed range:	0 ... 3000 min <sup>-1</sup>
Input power	15 W
IP code:	IP 42
Power supply:	100 ... 240 V, 50 ... 60 Hz
Warranty:	3 years



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Type	Net weight	Plug type	PK	Cat. No.
	kg			
ZX4	2.7	EU	1	7.971 461 1
ZX4 with foam stands	2.7	EU	1	4.666 714
WIZARD	2.2	EU	1	4.666 536 2
TX4	2.7	EU	1	4.666 537 3



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### Mini Vortex Mixer VXMN series

Four Mini Vortex Mixer models for gentle to high-speed mixing are available. Analog model offers variable speed control, and digital model allows input of the exact speed and time to achieve reproducible results. Pulsing model features a unique pulse action that reduces heat generation, while providing more effective mixing and cell disruption. Fixed speed model offers one-touch, high-speed mixing.

*OHAUS*
**VXMNFS:** Fixed high speed mixing, TOUCH mode operation

**VXMNAL:** Auto/Off/On Rocker switch, Speed Knob: Variable 1 to 10 Dial Marks, continuous or TOUCH mode operation

**VXMNDG:** Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control, continuous or TOUCH mode operation

**VXMNPS:** Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control Pulse Button

#### Scope of supply:

**VXMNFS/AL/DG:** Vortexer incl. Cup head and 76 mm head with cover

**VXMNPS:** Vortexer incl. Cup head and 76 mm head with cover and stainless steel tube holder


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#### Specifications

Type of movement:	orbital
Type of movement PS:	pulsing
Orbit:	4.9 mm
Orbit PS:	2.5 mm
Timer (DG and PS only):	1 s to 160 h
Permissible ambient conditions:	4 to 40 °C
Dimensions (L x W x H):	211 x 122 x 165 mm
Weight:	4.5 kg
Power supply:	230 V, 50/60 Hz



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Type	Min. speed rpm	Max. speed rpm	PK	Cat. No.
VXMNFS	2500	2500	1	4.659 498 4
VXMNAL	500	2500	1	4.659 499 5
VXMNDG	300	2500	1	4.659 500
VXMNPS	500	2500	1	4.659 501 6

## 1 Vortex mixer PV-1 Grant

With low profile and small footprint for gentle mixing to vigorous re-suspension of cell or chemical pellets.

- variable speed: 750rpm to 3000rpm
- continuous or touch operation
- for tubes up to 28.5 mm (50 ml) diameter

### Specifications

Type of movement:	orbital
Orbit:	4mm
Speed range:	750 to 3000rpm
Dimensions (WxDxH):	90 x 150 x 80mm
Temperature range:	4 to 40°C

Type	Plug type	PK	Cat. No.
PV-1	EU/UK	1	9.721 000



## 2 Shaker VORTEX 2 IKA

Vortex shaker especially for short time operation (Touch function) or continuous operation.

### Specifications

Type of movement:	orbital
Orbital diameter:	4 mm
Max. shaken quantity:	400 g
Motor rating input/output:	39/9 W
Speed range:	500 to 2500 rpm
Dimensions (W x H x D):	120 x 138 x 140 mm
Weight:	3.9 kg
Enclosure according to DIN EN 60529:	IP 21

Type	PK	Cat. No.
VORTEX 2	1	7.971 443



## Test Tube Shakers Reax top/control Heidolph

Ideal for mixing samples in Eppendorf tubes, vials and similar vessels of different diameters at extremely high speed rates. The strong 5 mm vibration orbit yields the best results even with high viscosity media or solids out of solution and quickly gives a smooth and even dispersion. Short time and continuous mode.

### Standard model Reax top:

- Features an analog dial speed control, no settings of specified rpm numbers

### Precise model Reax control additionally with:

- Features analog dial speed control with accurate rpm numbers setting
- Electronic speed control provides constant rpm output even at very low speed and under changing loads
- Precise speed control with settings of specified rpm numbers

**Scope of delivery:** Test tube shaker incl. attachment diam. 20 mm. Optional attachment for vessels up to 50 mm available.

### Specifications

Type of movement:	orbital
Orbit:	5 mm
Speed range:	0 ... 2500 rpm
Power consumption:	51 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	134 x 172 x 105 mm
Weight:	2.8 kg
Power supply:	230 V, 50 Hz
IP code:	IP 22

Type	Plug type	PK	Cat. No.
Reax top	EU	1	9.730 040
Reax top	UK	1	9.730 041
Reax control	EU	1	9.730 042



9.730 040



9.730 042

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### 1 Test tube shaker, lab dancer

Inexpensive, compact test tube vortex shaker. Designed for mixing small test samples by touch function.

IKA

- Small, compact and reliable
- For small containers up to 30mm in diameter, e.g. test tubes, centrifuge tubes, Eppendorf tubes
- Fixed speed (2800rpm)
- Excellent mixing
- Top of housing and the test tube accessories are made from chemically inert plastic. The bottom section is a coated, zinc die-casting.
- Includes lightweight 12V mains adapter

#### Specifications

Mixing:	orbital
Orbit:	4.5mm
Capacity, volume:	1 tube, max. 50ml
Motor rating input/output:	1.2/0.8W
Speed:	2800rpm (fixed)
Dimensions (Diam. x H):	100 x 70mm
Weight:	550g
Material housing:	PP
Material attachment:	TPU
Material base:	Zinc, coated
Enclosure according to DIN EN 60529:	IP40
Supply requirements:	100-240V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
lab dancer	EU/CH	1	9.729 936
lab dancer	UK	1	4.008 065

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### 2 Shaker Vortex 3

Vortex shaker suitable for intermittent operation (touch function), activated by pressing shaker attachment, or for continuous operation.

IKA

- Wide speed range, infinitely adjustable
- Versatile, due to 3 accessory interchangeable attachments and 7 inserts (e.g. Eppendorf tubes, microtitre plates, 250ml Erlenmeyer flasks etc.), please order separately
- Attachments securely click onto shaker in any position
- Strap clamp (VG3.36) ensures easy holding of round/Erlenmeyer flasks
- Sturdy, die cast zinc casing
- Stable at high speeds due to special feet (silicone base with ultra-high vibration damping)
- Eccentric drive with ball bearings
- Self-ventilated motor allows continuous operation with minimal warm-up of the housing

**Supplied with standard attachment.**

#### Specifications

Type of movement:	orbital
Orbital diameter:	4mm
Motor rating input/output:	58/10W
Speed range:	500rpm to 2500rpm
Speed indication:	scale 0 to 6
Dimensions (W x D x H):	127 x 149 x 136mm
Weight:	4.5kg
Protection class acc. to DIN EN 60529:	IP 21
Supply requirements:	230V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
VORTEX 3	EU	1	9.729 950
VORTEX 3	CH	1	4.008 062
VORTEX 3	UK	1	4.008 061

## Orbital Shaker Hula Dancer Basic/Digital

The Hula Dancer is a powerful orbital shaker with robust housing for high stability. It is suitable for a maximum load of 100 g. Hula Dancer basic with fixed speed of 2800 rpm.

IKA

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### Specifications

Mixing:	orbital
Orbit:	4.5 mm
Capacity, volume:	100 g
Motor rating input/output:	9.5/5 W
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	80 %
Dimensions (Diam. x H):	123 x 123 x 42 mm
Weight:	700 g
Power supply:	100 ... 240 V, 50 ... 60 Hz
Enclosure according to DIN EN 60529:	IP 40

Type	Speed range	PK	Cat. No.
	<b>rpm</b>		
Hula Dancer basic	2800	1	<b>6.274 875</b>
Hula Dancer digital	1200 ... 2800	1	<b>4.665 611</b>

## 2 Vortex-Genie®-series

Robust and reliable shakers for speedy mixing and shaking of samples. Multiple accessories: e.g. adapter tops for test tubes, beakers, centrifuge tubes etc. Adapter tops can be changed easily with the snap fit system.

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**Vortex-Genie® 2:** Variable speed for precise mixing from gentle to vigorous. Broad range of attachments for most tubes, plates and other containers. Hands-Free or Touch On control.

**Vortex-Genie® 2T with an integrated timer:** Timer function: (Touch On) 1-60 seconds, (Hands-Free) 1-60 minutes or continuous. Unit automatically stops at the end of user programmed time.

**Digital Vortex-Genie® 2 with digital control and display of speed and time:** Digital display provides accuracy, reproducibility and repeatability. Timer function: (Touch On) 1-99 seconds, (Hands-Free) 1-99 minutes or continuous. Specially configured unit for Applied Biosystems protocol available.

**Vortex Genie® Pulse:** Fully programmable vortex mixer with ON/OFF feature. Pulse 0.1 sec to 99 min.

**Scope of supply:** Vortexer, 3-inch Platform with rubber cover, Pop-off cup

### Specifications

Shaking movement:	orbital
Speed display/Timer:	Scale/No/Scale/Scale/Digital/Digital
Speed range:	600-2700rpm/600-2700rpm/500-2850rpm/500-2850rpm
Timer	
Interval operation:	-/ 1 to 60s/1 to 99s/0.1 s to 99 min
Hands-free mode:	-/ 1 to 60min/1 to 99min/1 to 99 min
Dimensions (L x W x H):	165 x 122 x 165mm
Permissible ambient conditions:	0 to 38°C at 95% rh
Weight:	4kg
Power supply:	230V, 50/60Hz

### Vortex-Genie® 2/Vortex-Genie® 2T/Digital Vortex-Genie®2/ Vortex Genie® Pulse

Type	Min. speed rpm	Max. speed rpm	Plug type	PK	Cat. No.
Vortex Genie® 2	600	2700	EU	1	<b>9.730 060</b>
Vortex Genie® 2	600	2700	UK	1	<b>6.251 939</b>
Vortex Genie® 2	600	2700	CH	1	<b>6.235 684</b>
Vortex-Genie® 2T	600	2700	EU	1	<b>6.252 823</b>
Vortex-Genie® 2T	600	2700	UK	1	<b>6.252 946</b>
Vortex-Genie® 2T	600	2700	CH	1	<b>9.730 121</b>
Digital Vortex-Genie® 2	500	2850	EU	1	<b>6.242 793</b>
Digital Vortex-Genie® 2	500	2850	UK	1	<b>9.730 120</b>
Digital Vortex-Genie® 2	500	2850	CH	1	<b>6.240 599</b>
Vortex Genie® Pulse	500	2850	EU	1	<b>6.287 671</b>
Vortex Genie® Pulse	500	2850	UK	1	<b>6.287 674</b>
Vortex Genie® Pulse	500	2850	CH	1	<b>6.287 675</b>

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### Shaker MS3 basic/digital

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtitre plates.

IKA

- Continuous or touch operation (with standard attachment)
- Two operating modes available:

**Mode A** (safe mode with attachment detection)

the maximum speed of 3000rpm is only attained with the standard attachment in touch mode. When using other attachments the speed is limited to 1300rpm.

**Mode B** (without attachment detection)

a speed of 3000rpm is possible with all attachments.

- Stable in all speed ranges
- Sturdy, zinc, die-cast casing

**MS 3** digital additionally with countdown function timer (1sec to 999min).

Items supplied with MS3 basic + digital: Standard attachment, universal attachment, one-hand insert  
Additional items supplied with MS3 digital: Microtitre plate attachment, test tube insert with 6 holes for 12mm diameter tubes

#### Specifications:

Type of movement:	orbital
Orbit:	4.5mm
Max. permitted shaking weight (incl. attachment):	0.5kg
Motor rating input/output:	10/8W
Speed display:	Scale
Speed range:	0 to 3000rpm
Dimensions (W x D x H):	148 x 205 x 63mm
Weight:	2.9kg
Protection class acc. to DIN EN 60529	IP21
Supply requirements:	100-240V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
MS 3 basic	EU/UK/CH/US	1	9.729 938
MS 3 digital	EU/UK/CH/US	1	9.729 939

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### 2 Mini shaker Matrix Orbital

**NEW**

IKA

Powerful thermoshaker available for samples with small volumes, e.g. blood samples, pharmaceutical agents, DNA/RNA samples, DNA/RNA samples or Elisa assays. Without cross-contamination and with an optimal mixing result.

- Large and clear display with a simple menu structure allows for intuitive operation
- Two different speed modes for optimal mixing
- Speed adjustment according to insert, attachment and filling volume
- Robust aluminum die cast housing

**Scope of supply:** Shaker, 3 inserts (1 x 0.5 ml tubes, 1 x 1.5/2.0 ml tubes and 1 x 0.2 ml PCR tubes)

#### Specifications

Type of movement:	orbital
Orbit:	3 mm
Speed range:	300 ... 3000 rpm
Power consumption:	80 W
Max. permitted shaking weight (incl. attachment):	0.3 kg
Timer:	1 s ... 6000 min
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	198 x 318 x 124 mm
Weight:	7.2 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	PK	Cat. No.
Matrix Orbital	1	4.664 739

➔ Microplate shakers, see page 539.

## 1 Vortex Mixer VX-200



Economical vortex mixer for mixing all kinds of samples. The continuously variable speed makes the Vortex Mixer useful for a variety of applications.

- "Touch" or continuous mode
- Pressure on vibrating plate starts device and enables effective working with one hand
- Continuously variable mixing speed

### Specifications

Speed range 230 V:	0 ... 2850 rpm
Operating modes:	Touch or continuous
Dimensions (W x D x H):	140 x 160 x 130 mm
Weight:	2.2 kg

Type	PK	Cat. No.
Vortex Mixer	1	6.292 017

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## 2 Test tube shakers Multi Reax

Heidolph

Versatile Test tube shaker with 3 mm vibration orbit, accomplishes excellent results especially in large vessels. The Multi Reax allows for rigid to smooth dispersion of viscous media and solids.

- Short term and continuous run
- Stepless speed adjustment
- Digital display
- Timer function allows for unattended operation and can be set from 1 to 999 minutes. With acoustic alarm when the operation stops.

**Scope of delivery:** Test tube shaker incl. 2 attachments.

- Attachment for 26 vessels with diameters from 10 mm to 16 mm
- Attachment for 12 vessels with diameters from 16 mm to 32 mm

### Specifications

Type of movement:	orbital
Orbit:	3 mm
Speed range:	150 ... 2000 rpm
Power consumption:	50 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	270 x 410 x 172 mm
Weight:	9.8 kg
Power supply:	230 ... 240 V/50/60 Hz
IP code:	IP 30

Type	PK	Cat. No.
Multi Reax	1	9.839 810

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## Vortex Mixers for multi tubes

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Multi-Tube Vortexers are ideal for high throughput sample processing. Holds up to 50 samples simultaneously. Interchangeable foam racks for vortexing tubes from 10 to 29 mm in diameter available. Vortexing action is created by securing the top of the sample in place while allowing the bottom to rotate freely in a 3.6 mm orbit. Suction cup feet reduce motion and prevent sliding on work surface. Analogue and digital models, both microprocessor-controlled and run in continuous or timed mode.

- Digital Model is ideal for Applications that Require Accuracy and Repeatability
- Pulsing Mode on Digital Model to Enhance Vortexing Action
- Analogue Model Offers an Economical Alternative When Exact Speed/Time is not required

**Scope of supply:** Vortex Mixer incl. Tray Pad Set for support and one 12 mm Test Tube Foam Rack.

### Specifications

Orbit:	3.6 mm
Max. load:	4.5 kg
Timer VXMTAL/VXMTDG:	0 to 60 s/1 s to 160 h
Permissible ambient conditions:	4 to 40 °C
Dimensions (L x W x H):	241 x 384 x 406 mm
Weight:	19.1 kg
Power supply:	230 V, 50/60 Hz

Type	Min. speed rpm	Max. speed rpm	Display type	PK	Cat. No.
VXMTAL	1200	2400	analogue	1	4.659 506
VXMTDG	500	2500	digital	1	4.659 507

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**1 Shaker MixMate®**
**NEW**

Eppendorf AG

The 3-in-1 mixer for plates, tubes and vortex mixing. High speed instrument for the complete resuspending of pellets, mixing PCR setups, mixing viscous liquids and suspensions (incl. beads), mixing restriction digestions, immunoassays, colorimetric assays, reporter gene assays, vortexing numerous tube formats (e.g. 15 and 50 ml conical tubes). Fully mixing in plates (96 or 384-wells) or reaction tubes in seconds.

- High-speed mixer for fast and efficient mixing of small volumes in all common vessel formats up to 50 ml
- 5 soft keys with pre-defined standard mixing parameters for easy usage
- Integrated vortex function for individual sample mixing
- 2DMix-Control (planar mixing orbit) and anti-spill technology for controlled mixing in seconds, without lid wetting and cross-contamination
- Minimal hand/arm vibration transfer during vortexing (PhysioCare Concept®)
- Very stable, remains stationary even at maximum mixing speed
- Whisper quiet operation

**Specifications**

Type of movement:	orbital
Orbit:	3 mm
Speed range:	300 ... 3000 rpm
Touch vortex frequency	3500 rpm
Timer:	15 s ... 99.5 h, continuous
Noise level	<50 dB(A)
Dimensions (W x D x H):	170 x 230 x 130 mm
Weight:	4.2 kg
Max. power consumption	40 W
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
MixMate®	1	4.671 525

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**Shaker Multi Vortex Genie®/Vortex-Genie® Max**

Scientific Industries

Robust and reliable shaking device for mixing and shaking of samples in Erlenmeyer flasks, vials, tubes, beakers or microplates.

- Digital display for speed and time
- Speed increase in steps of 10 rpm
- Robust metal case
- Secure stand at high speed thanks to supports with high vibration damping
- Can be loaded with e. g. max. 6 Erlenmeyer flasks 250 ml or 2 multi racks each for 12 test tubes (max. tube diameter 29 mm, length min. 85 mm)

**Vortex-Genie® Max additionally:**

- Unique ratcheting clamping system, ideal for repetitive protocols and use with open containers
- Fully programmable
- Revers and interval mixing
- Pulse function

**Scope of supply:**

**Multi Vortex-Genie®:** Shaker, Platform with clamp/tension roller (for securely attaching standing vessels), 2 multi-racks

**Vortex-Genie® Max:** Shaker, Platform with 2 ratcheting clamps

**Specifications**

Type of movement:	orbital
Orbit:	4 mm
Speed range:	200 ... 950 rpm // 500 ... 2000 rpm
Overall dimensions (W x D x H):	310 x 270 x 195 mm
Weight:	11.3 kg // 10.4 kg
Supply requirements:	230 V, 50 Hz

**Multi Vortex-Genie® // Vortex-Genie® Max**

Type	Plug type	PK	Cat. No.
Multi Vortex-Genie®	EU	1	9.730 090 <b>2</b>
Multi Vortex-Genie®	UK	1	6.265 221
Multi Vortex-Genie®	CH	1	6.265 222
Vortex-Genie® Max	EU	1	4.670 816 <b>3</b>
Vortex-Genie® Max	UK	1	4.670 817
Vortex-Genie® Max	CH	1	4.670 818

Suitable accessories can be found in our online shop.

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