

# Paraskop® M

A proven multifunctional milling unit for all applications  
including machining zirconium dioxide



## **Ergonomic, precise and fully equipped!**

- > Milling and drilling of wax and metal, machining zirconium dioxide using the optional BEGO laboratory turbine
- > Joints of the milling arm quickly and securely locked with magnets
- > Powerful, maintenance-free, brushless milling spindle with twist guide ring
- > Runs vibration-free, very high concentricity
- > Progressive speed control up to 50000 rpm, anti-clockwise up to 30000 rpm – provides for adequate power reserves
- > Very smooth-running, precision joints with zero backlash thanks to microfinished moving surfaces and super-honed guide bushes
- > Material-orientated speed preselection via the precisely adjustable digital display
- > Model table positioned accurately and quickly via electromagnetic locking
- > Fully equipped milling unit for immediate use, including milling spindle, collet chuck with bit stop, foot-switch, model table, lighting and quills for surveying models

## The milling unit for all materials, including zirconium dioxide

The Paraskop® M sets new standards which even meet the requirements of ceramics. The smooth running and accuracy of the milling spindle in particular guarantee that shoulders, attachments, telescopes, implant-restorations and much more can be milled precisely. To allow very sensitive materials such as zirconium dioxide to be water-cooled during machining, the new electronics and design of the Paraskop® M are splash-proof.

### It's your safety which counts

This unit has been tested and certified beyond the basic requirements of the international IP 44 splash-proofing standard. This guarantees that users can work safely with electrical appliances which require water.

### Ergonomic, right down to the last detail

Studies on ergonomics have shown that working with a milling unit is most effective



if the working area is as readily accessible as possible and all controls are located at the front, in view of the user.

With its 92 mm radial and 145 mm vertical (without cutter) dimensions, the working area above the model table is perfectly adequate for all cases. The jointed arm can be swivelled through 235° to provide a wide radius of action for all types of milling.

The 39 mm quick-elevating travel of the vertical feed carriage and the free movement of the jointed arm ensure smooth working procedures.

A simple press of the footswitch is enough to have the cutter rotate at exactly the preset speed.

### Top precision – The art of German engineering

The high precision ball bearing traveller has microfinished moving surfaces and super-

honed guide bushes. These technical refinements make a real difference and provide for smooth running with zero backlash over a long period.

### Perfect milling – also zirconium dioxide

The new Paraskop® M can be converted for water-cooled machining of zirconium dioxide with just a few simple moves. Even at high cutting capacity, the turbine (max. 32000 rpm) runs smoothly, which simplifies wet grinding.

The really large water tank (2 L) allows for efficient water-cooling while trimming for long periods and without having to refill.

The magnet lockable BEGO water collection bowl tank also acts as a splash guard. It includes an integral drain. Its ergonomic design provides for fatigue-free working.



The micrometer screw of the depth stop enables it to be positioned precisely to within 1/100 mm – a noticeable advantage.



The laboratory turbine can be used with the BEGO splash cabin for trimming ceramics such as zirconium dioxide.

#### Paraskop® M

##### Technical data:

Height	approx. 480–570 mm
Width	290 mm
Depth	310 mm
Nominal voltage	200–240 V, 50/60 Hz
Special voltages	100–120 V, 50/60 Hz (on request)
Rated power of milling spindle	260 W
RPM	approx. 1,000 – 50,000
Anti-clockwise	up to 30,000
Weight	8.9 kg

##### Laboratory turbine with control device (2 l water tank)

Height x Width x Depth	260 x 260 x 240 mm
RPM	max. 320.000
Compressed air connection	min. 3 bar

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Subject to modifications in design, scope of delivery and composition. Whether given verbally, in writing or through practical instructions, our process-related data and recommendations are based upon our own experience and trials and can only be regarded as standard values. Status as at: 07.10.2009

#### Scope of delivery:

Paraskop® M Unit REF  
**26340**

Basic unit with milling spindle, quill, model table and LED lamp, collet chuck 2.35 mm with bit stop, foot actuated switch, collet chuck, cleaning brush, 2 spare fuses

#### Accessories:

Milling set 2.35 mm	1 set	<b>43439</b>
Zirconium abrasives 2°	1 piece	<b>43510</b>
Collet chuck 2.35 mm with bit stop	1 piece	<b>31722</b>
Collet chuck 3 mm with bit stop	1 piece	<b>31721</b>
Dust protection cover	1 piece	<b>32746</b>
Refill holder	1 piece	<b>22163</b>
Graphite refills	1 pack	<b>22150</b>
Measurement set according to Ney	1 set	<b>22160</b>
Model table	1 piece	<b>14418</b>
Laboratory turbine	1 piece	<b>26345</b>
Water collection bowl for Paraskop® M	1 piece	<b>18082</b>
Splash cabin for trimming ceramics	1 piece	<b>18083</b>

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