



Zirkonzahn[®]



M4 WET HEAVY METAL MILLING UNIT

The all-rounder



THE ALL-ROUNDER

The M4 Wet Heavy Metal is a 1500 W and 350 kg milling unit, which withstands all vibrations. It is equipped with the proven 5+1 axes simultaneous milling technology and can process both hard and soft materials, thanks to the integrated wet processing function. The centrepiece consists of a 360° rotatable workpiece table, which makes it possible to mill also hard-to-reach areas, as undercuts and divergences without any problems. The extra-large milling area with different types of blank holders permits the elaboration of up to 10 models, 20 full-arch bridges and 30 Raw-Abutments® or glass-ceramic blanks in a single milling process. The integrated tool changer function and the tool magazine allow the automatic exchange of up to 32 elaboration tools. The optical tool detection (optional) prevents the use of wrong elaboration tools. As a stand-alone solution with integrated PC and touchscreen (optional), milling processes and calibration processes can also be started directly on the milling unit and elaboration tools can be loaded.



The 2-Blank-Plate holder can optionally be equipped with two material blanks (Ø 95 mm), with the Multi Blank Holder or the JawPositioner Support, and can be combined in the workpiece table moreover with the Raw-Abutment® Holder M4, the Glass Ceramics Holder M4 or the Combi-Holder Raw/Glass M4.

HIGH FLEXIBILITY:

Depending on the requirements, various blank holders can be flexibly combined in the 360° rotatable workpiece table: with the 4-Blank-Plate up to four different material blanks (Ø 95 mm) can be processed in just one milling process. The Raw-Abutment® Holder M4, the Combi-Holder Raw/Glass M4 as well as the Glass Ceramics Holder M4 enable the processing of up to 30 prefabricated Raw-Abutments® or glass-ceramic blanks. In the Multi Blank Holder several small zirconia blanks are serially processed.

MACHINE RUNNING TIME PER UNIT*:

- Wax: 7 min
- Zirconia, resin, sinter metal: 9 min
- Glass ceramics: 30– 40 min
- Titanium, cobalt-chrome: 50 min

**The indications are approximate values and may vary depending on equipment and restoration type.*

OVERVIEW OF THE CHARACTERISTICS

- *5+1 axes simultaneous milling technology optionally with Milling Spindle Hard Automatic or Performance Milling Spindle M4 (high-performance, water-cooled milling spindle with integrated suction device; at extra charge)*
- *For processing zirconia, resin, wax, wood, Sintermetall, cobalt-chrome, titanium as well as precast titanium abutment blanks (Raw-Abutments®), glass ceramics and composite*
- *With an extra large milling area (39 x 17 cm) specifically suitable for the production of models (up to 20 full-arch bridges)*
- ***New!** Optical tool detection: the optical identification of elaboration tools ensures the selection of suitable tools and thus prevents milling errors caused by incorrect tool use*
- *The tool changer function and the tool magazine enable the automatic changing of up to 32 milling tools; the tools are protected against contamination by a protective glass*
- *The Ioniser (optional) ensures clean resin processing with a significantly shorter cleaning time*
- *Different combinable blank holders (partly included in the scope of delivery): 2-Blank-Plate, 4-Blank-Plate, Raw-Abutment® Holder M4, Glass Ceramics Holder M4, Combi-Holder Raw/Glass M4, Multi Blank Holder, JawPositioner Support*
- ***New!** Stand-alone solution (optional): Integrated PC with touchscreen for process control directly on the milling unit*



By using the extra large Model Blank M4 up to 20 full arches can be milled in a single milling process in the M4 Wet Heavy Metal milling unit.

PROCESSABLE MATERIALS



TECHNICAL SPECIFICATIONS



<i>Weight</i>	<i>350 kg</i>
<i>Width</i>	<i>123 cm</i>
<i>Height</i>	<i>69 cm</i>
<i>Depth</i>	<i>84 cm</i>
<i>Casing</i>	<i>Hardened Securit glass UNI ISO 12150</i>
<i>Processing axes</i>	<i>5+1</i>
<i>Electrical power</i>	<i>1500 W</i>
<i>Operating voltage</i>	<i>100–240 V</i>
<i>Power input</i>	<i>6.5 A (13.5 A)</i>
<i>Chuck</i>	<i>Ø 6 mm</i>
<i>Spindle speed</i>	<i>Depending on equipment</i>
<i>Torque</i>	<i>13 Ncm</i>
<i>Workpiece</i>	<i>Model Blank M4 (39 x 17 cm) Ø 95 mm, Raw-Abutments®</i>

HUMAN ZIRCONIUM TECHNOLOGY

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