

**Zirkonzahn<sup>®</sup>**

*Human Zirconium Technology*



## **M4 WET HEAVY METAL MILLING UNIT**

*The all-rounder*



## THE ALL-ROUNDER

*The M4 Wet Heavy Metal milling unit combines the vast experience in CAD/CAM technology and the production of millable materials with new technological insights. A casing in high quality design forms the packaging of this 1500 W and 350 kg milling unit, which withstands all vibrations and is optionally also available with servomotors. The milling unit is equipped with the proven 5+1 axis simultaneous milling technology. The centrepiece consists of a 360° rotatable workpiece table, which makes it possible to mill also hard-to-reach areas, as undercuts and divergences. Besides the standard indications such as individual crowns, inlays, onlays or veneers, this also enables the production of occlusally screw-retained bridges, attachments or bars. The extra-large milling area with different types of blank holders permits the elaboration of up to 10 models, 20 full-arch bridges, Bridge-Rods and/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 milling tools. The build-in wet processing function allows the milling of all common soft and hard materials.*



*Combination of 2-Blank-Plate and Bridge-Rod Holder M4, Glass Ceramics Holder M4, Combi-Holder Raw/Glass M4 or JawPositioner Support for the elaboration of two material blanks (Ø 95 mm) and 10 Bridge-Rod or glass-ceramic blanks*

### HIGH FLEXIBILITY:

*Depending on the requirements, various blank holders can be 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 Bridge-Rod Holder M4, Combi-Holder Raw/Glass M4 as well as the Glass Ceramics Holder M4 enable the processing of up to 30 prefabricated Bridge-Rods or glass-ceramic blanks.*

### MACHINE RUNNING TIME PER UNIT\*:

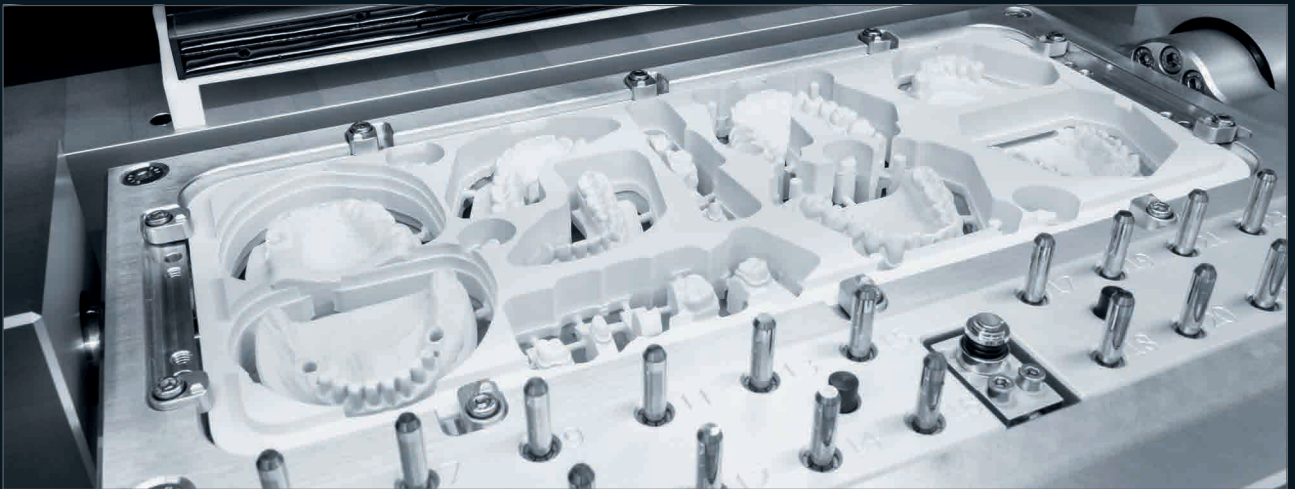
- Wax: 7 min.
- Zirconia, resin, sinter metal: 9 min.
- Glass-ceramics: 30–40 min.
- Titanium, chrome-cobalt: 50 min.

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



# OVERVIEW OF THE DISTINCTIVE FEATURES

- 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)
- *New!* Optionally available with high-resolution, dynamic servomotors (at extra charge)
- CAD/CAM milling bur 6 mm for more stability during the milling process
- For processing zirconia, resin, wax, wood, sinter metal, chrome-cobalt, titanium as well as precast bridge blanks (Bridge-Rods), glass ceramics and composite; all structures needed for the manufacturing of a complex dental restoration can be produced in a single milling process
- With an extra large milling area (39 x 17 cm) specifically suitable for the production of models (up to 20 full arch bridges)
- The tool changer function and the tool magazine enable the automatic changing of up to 32 milling tools
- The protective glass prevents that milling chips and other dirt particles contaminate the tools stored in the tool magazine; the Ioniser (optional) permits to elaborate resins with no need to clean the milling machine afterwards
- Different combinable blank holders (mainly included in the scope of delivery): 2-Blank-Plate, 4-Blank-Plate, Bridge-Rod Holder M4, Glass Ceramics Holder M4, Combi-Holder Raw/Glass M4, JawPositioner Support



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.

## POSSIBLE APPLICATIONS WITH THE COMPLETE SYSTEM



## 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),<br/>Ø 95 mm</i> |

## HUMAN ZIRCONIUM TECHNOLOGY

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