



M7 Dental-B

5 axis milling machine for dental production with high reliability, speed and precision.

The highly precise design with a rigid Granite table and the fast dynamic control meets the growing demands of the dental CAD/CAM market.

- Solid and reliable machine concept in a Granite/Steel design
- Compact with an integrated 5th rotary axis DDSA-1 (optional)
- Water-cooled high-frequency spindle with a rotational speed of up to 60,000 rpm
- Automatic tool changer with 15 or up to 40 tools
- Automatic tool length measuring with tool-breakage detection
- Set-up dimensions: 1,300 mm x 1,300 mm x 1,950 mm
- Power connection: 230V, air pressure min. 6.5 bar
- Weight approx. 800 kg
- Materials: Zirconium, CoCr, Titan, Alloys PMMA, Nano Composites, Wax, Al-Oxide



Dental Rotary/Swivel Axis DDSA-1

- High-precision NC rotary/swivel axis
- Simultaneous NC operation or infeed operation
- Integrated zero-point positioning for the material blanks
- Rigid design for fast and precise machining of Chrome-Cobalt (alloys, Zirconium, Composites)

Dental Rotary/Swivel Axis DDSA-1

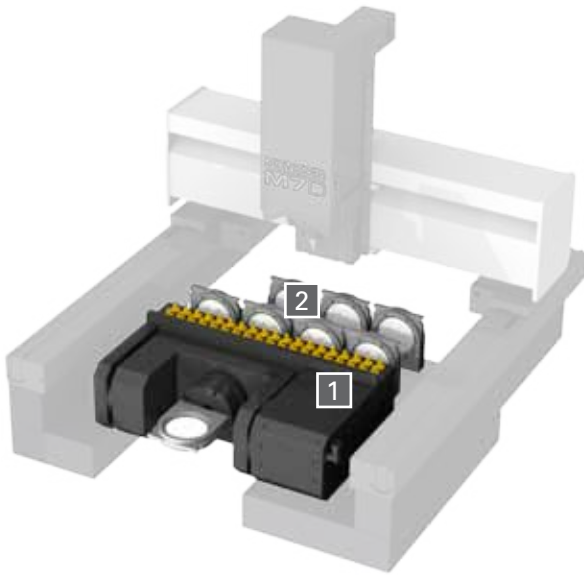
1 Dental Rotary/Swivel Axis DDSA-1

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2 Automation Solution for the Dental Rotary/Swivel Axis (DDSA-1)

With the 5th axis and DATRON automation this system enables the operation throughout the night or even during the entire weekend.

- Up to 8 material blanks can be loaded
- Zirconium and Chrom-Cobalt blanks can be mixed within one 8 blank load
- Automatic tool changer with 40 tools
- Automatic tool breakage detection
- High-precision industrial zero-point clamping system



Picture shows the automation unit (2) in combination with the 5th axis (1)



Dental Swivel Unit DS-2

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- 180° swivel unit as 4th axis
- Two swivel positions for top and bottom machining
- Two work piece holders with integrated and flow-optimized suction

Dental Rotary Axis DDA-1

- Rotation Unit as 4th axis for the simultaneous 4-axis machining
- A basin for dry or wet milling
- Wet milling with optional flood coolant
- Fast exchange of the work piece holder via SK40 interface
- For CoCr, Titanium, Zirconium, PMMA

Dental Rotary Axis DDA-2

- As DDA-1 but with two basins



Dental Rotary Axis DDA-1