The Core3dcentres® 450i milling machine manufactured by Imesicore, offers you complete flexibility in machining of all essential materials in 5 axes simultaneous processing.

Shall it be the conventional processing of crown and bridge constructions or complex geometry like abutments, removable partials or the milling of tooth models, the 450i leaves nothing to be desired. Optionally, the 450i can be connected to a 6- to 20-times blank magazine. Allowing, the 450i to be adapted for digital dental technology milling centres, with additional standards on high unit output.

Materials:
- Zirconium oxide
- Aluminium oxide
- Resins e.g. PMMA / composite
- Wax
- Glass ceramics, feldspar ceramics, lithium disilicate and titanium (optional)
- CoCr (optional)
- Models, surgical guides, removable partials

Advantages:
- 5 axes simultaneous processing with three linear axes and one rotation swinging unit offers full flexibility
- Wet and dry processing allow the machining of all essential dental materials
- The integrated high-performance controller guarantees highest dynamic and speed on optimised precision
- The fully automatic 12-times tool changer including automatic tool length control allows the complete tool assembly for all usable materials
Core3dcentres® 450i
Complete flexibility in machining of all essential materials

Technology

- Rigid, industrial, heavy duty steel/aluminium table top design
- Swinging hood with integrated gas spring for ergonomic opening and closing
- 5 axes simultaneous processing
- High-performance servo controller in combination with powerful 200 W motors
- Includes a compact high-class control-PC in a modern design based on Windows
- Modern 19" TFT display
- High-frequency spindle with up to 60,000 rpm
- Wet processing with cooling liquid circuit (optional)
- Blank magazine for up to 20 blanks (optional)
- Automatic 12-times direct tool changer
- Integrated high-precision tool length sensor
- Automatic air pressure control
- Established blank holder for blanks with a diameter of 98.5 mm
- 115 V / 230 V versions
- Compressed air consumption approx. 60 l/min (min. 6.0 bar)
- Weight machine: 180 kg
- Weight blank magazine: 70 kg
- 730 x 820 x 820 mm (w x h x d) without blank magazine
- 2150 x 1770 x 920 mm (w x h x d) with blank magazine and machine table