

OpenMill 500 Milling Device



Laserdenta's OpenSystem has been particularly developed for today's and future demands within the dental lab. This allows return of added value of expensive outsourced service back into the own lab.

Its five axis as well as the „actual position control“ allow multiple deployment of the Open Mill 500 Milling Device and ensure simple, precise production of dental restorations, individual abutments, drilling jigs ...

Arguments for the 5-Axis-Milling Device

- Open data format – data import in STL industrial standard
- Output layout of the CAM module to the Milling Device according to G-Code of DIN 66025 and ISO 6983
- Processing of all composites and "green"-zirconium discs (partially sintered)
- Optimized for materials by Laserdenta. However, there is obligation to particular materials!
- 2 material supports for discs of Ø 95 to 100 mm
- CAM module also integrated into the OpenCAD programs and, therefore, even more effective processing
- Repetition accuracy < 10 µm
- Automated tool changer (10 mills)
- 5,000 – 60,000 R/min milling speed, continuously variable
- Milling time pro item about 10 minutes (depending from the material)
- High precision due to permanent control of the variance analysis of every milling point



Automated calibration with 5 µm accuracy after each start



Tool support for 2 discs

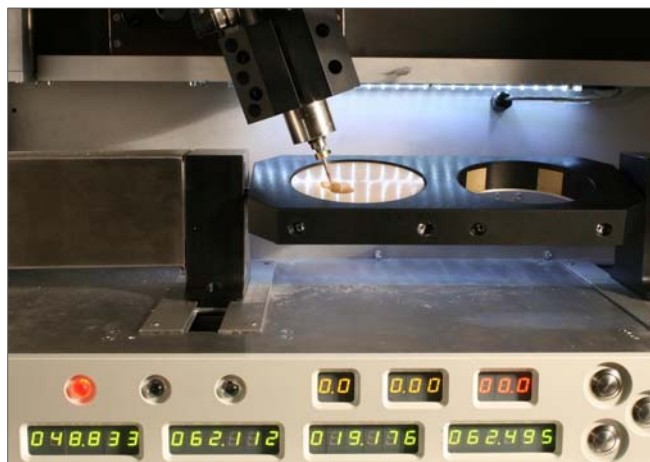


Tool changer for 10 mills

OpenMill 500 Milling Device

The Advantages for your Dental Lab

- Increase of the cost effectiveness of your lab due to own production
- Expansion of the application field of an CAD/CAM system for the low cost sector using Laserdenta Material
- All models in the open STL data format can be processed with the OpenMill 500
- The STL data is imported into the CAM module, located and automatically further processed
- Big work pieces "fit" in thin material discs by activating the 4-axis in insertion direction
- Free choice of materials



Technische Daten

Basic control	Laserdenta CAM Module
Width x Depth x Height	780 x 540 x 640 mm
Weight	about 100 kg (without pedestal)
Mandrel performance	0.3 kW
Mandrel rotation	5,000 - 60,000 R/min, continuously variable
Automatic tool changer	10 tools
Support for milling head	pneumatic draw-in attachment, Shaft Ø 3 mm
Resolution XYZ	0.005 mm
Accuracy	< 0.015 mm
Travel	
width x depth x height	300 x 120 x 100 mm
Time pro item	about 10 min. (depending from the material)
Power	600 W
Supply Voltage	110 or 220 V
PC Connection	1 x USB
Compressed air	min. 6 bar

Contents of Delivery

OpenMill 500 · 5-Axis Milling Device

- Including
- CAM Module (available in English and German)
 - Data input PC (available in English and German)
 - Installation, 1 day instruction and training

