orangedental

premium innovations

Very stable 5 axis dental milling machine
with 15-fold palett changer

Features:

* Easy to use   * Operation can be learned quickly   * Easy and flexible to program
* Wet or dry * Price-performance ratio balanced and optimized

EVO labMill 5 Pro

Dental milling machine with palett changer

Complex Conturmachining with the 5 Axis simultaneous milling machine EVO labMill Pro. Unmanned work thanks to the blank changer

With the new 5-axis milling machine from MB they produce very effectively and with high precision.
All materials and all products for the dental industry can be produced.
Due to the very stable cast structure, rectangle heavy-duty guides, pre-tensioned Ball screw,
AC servo drives in all axes, highly accurate and stable gearboxes for A&B axis and the double control system,
the machine is a comfortable and complete unit for the dental laboratory.

Specifications:

Travel X axis	300 mm	Flushing medium tank	80 liter
Travel Y axis	230 mm	flushing pump	4 l/min
Travel Z axis	150 mm	Dry/wet switching	M Code
Travel A axis	+/- 28 Grad	Spindle cooler with compressor	19 liter 295 Kcal/h
Travel B axis	360 Grad	Cold air blowing unit for cooling the tools	HF 6-1
Heavy-duty guides (long-term lubricated)	20 mm	Capacitive touchscreen with safety circuit	15 Zoll
Ball screw (long-term lubricated)	Ø 25x5 mm	LED work light with status display	24 VDC 12Watt
Blank size	Ø 100 mm	PC for operation and display	WIN 10
Max. workpiece weight	2 kg	Job manager	MB
Clamping force zero clamping system	10000 N	CNC controller	OPEN Key
Max. feed rate	6.000 mm/min	Current connection value complete	5,0 kVA
Max. rapid traverse speed	8.000 mm/min	Electric current fuse size	Fuse carrier 3x16 A
Repeatability	< 0,008 mm	Electrical connection 1Phase/MP/NP	400V/ 50/60Hz
Automatic tool length measurement	+/- 0,003 mm	Max. Power grid fluctuation	+/- 5%
Minimum input value	0,001 mm	Noise level (depending on the material to be milled)	55-65 dB (A)
AC servo systemX;Y;U;V;W	1,3 Nm	Compressed air connection	min. 150 l/min. at 6,5 bar
AC servo system A;B (gear 100:1)	1,3 Nm	Connection suction	3-pin connector 1x switched
AC servo system Z	2,7 Nm	Other connections	1x Network; 2x USB
HF spindle Jäger 62 mm	60000min⁻¹/Pmax. 2,5 kW	Floor space	1900 x 1200 x 2050 mm
HFS max. Tool diameter	Ø 6,0 mm	Weight of the machine (Depending on the equipment)	1100 kg
HF spindle HSK mounting (Optional)	5 kW	Dimensions of the machine	2500x 1600 mm
Number of tools in the tool changer	24 pieces	Compressed air check via pressure switch	
Number of workpieces in the magazine	15 pieces	Tool breakage inspection implicated in WW macro	

Features:

* Highest precision practically without reworking of the milled work.
* Unmanned work through the tool changer, blank changer and job manager.
* B axis with zero clamping system holder, thus fast change of holders possible
* Various standard holders and several special holders available. (e.g abutment holder).
* Fully encapsulated workcell. * Suction device on the head, optionally on the workpiece holder.
* Automatic tool length correction. (Even with 5 axes simultaneously).
* Hybrid machining without additional touch probe.
* Special tools for different materials, standard tools can also be used.
* Remote maintenance via network. * The machine can be adapted to your needs

A solid cast iron substructure, heavy LM recirculating ball guides,
very accurate and large ball screw, A&B axes with Harmonic Drive gearbox
and maximum LMF distance guarantee long service life.
Powerful drive systems from Yaskawa and a highly dynamic CNC control
guarantee homogeneous and fast movements of all axes.

EVO labMill5 Pro

Dental milling machine