Technical Data

K4 edition

Fields of application	dry machining
Machinable materials	plastics, wax, zirconium oxide, composites, CoCr
Indications	crowns, bridges, fully anatomical crowns and bridges, inlays, onlays, abutments, telescope crowns, veneers, table-top
Basic system	
Construction	basic structure of aluminium precision plate
No. of axes	4
x/y/z pos. range	100 x 98 x 40 mm
Drives	• precise ball screw spindles for the 3 linear axes • motor resolution < 1 µm • ground steel precision guide rails • 4 mm lead
Repetition accuracy linear axes	± 0,005 mm
Axis measurement	automatic axis measurement and compensation for exact results
Housing	• complete encapsulation of working chamber • automatic safety interlock atthe front cover during the machining process
Working chamber illumination	yes
Dimensions (W/D/H)	approx. 400 x 385 x 410 mm
Weight	approx. 45 kg
Rotary axes	
Features	**A axis:** Harmonic Drive® free from backlash for highest true running accuracy, rotation range of 360°
Fixing device	round universal blanks with a thickness of 10 to 25 mm and a diameter of 98.5 mm with step
Exchange of workpieces	manual exchange of blanks
Controller	
Features	**type CNC 300** • synchronic interpolation of 4 axes • great smoothness of running and highly accurate • high processing speed due to exponential acceleration ramps • look-ahead feature for continuous velocity along the path • 6 digital inputs, 2 digital outputs • 4 motor end phases • Chopper controller • cooling via 3 fans
Spindle	
Features	**asynchronous high frequency spindle SF 170** • nominal power under constant load (S1): 170 W • maximum power output (Pmax): 240 W • rotational speed range up to 60,000 RPM • double steel ball bearings • radial deviation at internal cone of the precision shaft < 1 µm • sealing air prevents entering of foreign substances in the bearing area
Collet chuck	pneumatically for tools with 3 mm shank diameter and max. 35 mm total length
Tool change	
Features	• automatic tool change station for 7 tools with length detection and breakage monitoring via haptic measuring pin • monitoring of compressed air supply

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K4 edition

Wet grinding	
Features	–
Air extraction	
Features	• openings in the rear panel of the working chamber for air extraction • connector for hose at the side of the housing • underpressure sensor for monitoring the air extraction • 24 Volt output for connecting the switching unit
Other	
Peripheral equipment	• switching unit PSW 01-RSV • administrated tool board
Special feature	certification according to ANSI/UL 61010-1 for exports to the USA and Canada
Connection requirements	
Compressed air supply	6 bar · 80 l/min
Power supply	100 – 240 V · 50/60 Hz

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