

## vhf CAM 4-K4 Impression Specification

<b>General</b>	
Fields of application	dental technology
Machinable materials	Plastics, zirconium oxide, nanocomposites, wax, CoCr
<b>Basic System</b>	
x/y/z positioning range	100 x 100 x 40 mm
Drives	precise ball screw spindles for the 3 linear axes with 4 mm lead, motor resolution < 1 µm, ground steel precision guide rails
Repetition accuracy	± 0.005 mm
Housing	complete encapsulation of working area with closable front cover, front lid switch (when opened, the machine switches into the halt mode)
Working area illumination	Yes
Measurements (W/D/H)	approx. 400 x 385 x 410 mm
Weight	approx. 45 kg
<b>Rotary Axis</b>	
Features	rotary axis with highest true running accuracy for processing workpieces on their full circumference of 360 degrees · harmonic drive free from backlash with circular spline diameter 40 mm
Axis measurement	automatic measurement of rotary axis and automatic axis compensation for absolutely exact results
Fixing device	integrated fixing device for round universal blanks with a thickness of 10 to 25 mm and a diameter of 98 mm
<b>Controller</b>	
Features	type CNC 300 · synchronic interpolation of 4 axes · great smoothness of running, powerful and accurate due to microstep operation · high processing speed due to exponential acceleration ramps · look-ahead feature for continuous velocity along the path
<b>Spindle</b>	
Features	high frequency spindle SF 170P · nominal power under constant load (S1): 170 W · maximum power output (Pmax): 240 W · rotational speed range up to 60,000 RPM · collet chuck 3 mm · radial deviation at internal cone of the precision shaft < 1 µm · blocking air prevents entering of foreign substances in the bearing area
Collet chuck	pneumatic for tools with 3 mm shank diameter
Tool change	automatic tool change station for 6 tools with automatic length detection · tool breakage monitoring, compressed air monitoring
<b>Dust Extraction</b>	
Features	openings in the rear panel of the working area for dust extraction · connector for hose at the side of the housing · 24 Volt output for connecting the switching unit
<b>Other</b>	
Accessories	switching unit PSW 01 for automatically switching a vacuum cleaner · cabinet (W/D/H: 950 x 600 x 1.160 mm)