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Mag-D.C.S.[®] Zirconium Milling Machine



The best quality at reasonable prices

Pi dental Manufacturing Co. Ltd.

Zirconium Milling Machine

Technical data

Supply voltage and frequency	230 V, 50/60 Hz
Power consumption	450 W without extraction unit
Power socket for extraction unit	230 V; 50/60 Hz; Pmax. 2000 W
Real accuracy	<0.015 mm
Workpiece	Ø 98.5 mm standard dental blanks with shoulder max. 60,000 /min
Spindle speed	4 Ncm
Spindle torque	Ø 3mm
Tool shank diameter	up to 8 tools
Magazine	Ø 6mm
Compressed air connection	clean, dry, 6 bar, max. 50L/min
Compressed air requirements	approx. 50 kg
Weight	535 x 571 x 600 mm
Dimensions (Width x Height x Depth)	

- compact design
- aluminum casting base
- 3+1 axes
- high accuracy /<0.015 mm/
- ball-screw / stepping motor drive
- maintenance-free ball-screws
- ease of operation through LCD touch-panel
- STL file import with PiCAM software
- Materials: Zirconium, PMMA, Wax, Gypsum
- pneumatic tool change with tool length sensor
- closed working area with dust extraction system
- easy cleaning

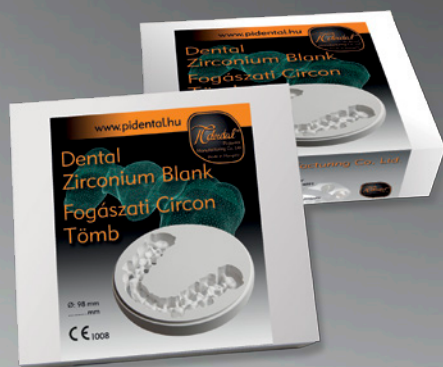
▪ Order No.: 72-0000

Zirconium Blank Pidental

PiDental Zr-blank is a partially sintered 3mol% yttria (Y2O3) stabilized zirconium (ZrO2) blank, which is made from zirconium ceramics powder by cold isostatic pressing and machining. It is more homogeneous than the one pressed uniaxially. After full compaction the Zr-blank shows high strength, excellent biocompatibility and aesthetics.. Applications include both anterior and posterior single tooth or bridge restorations. Currently we mainly offer two materials as:

- HT Zr - Normal translucent zirconium, applied for crown and bridges
- ST Zr - Super translucent zirconium, applied for crown and bridges especially for full contour crown and bridges

All products are CE, FDA, SFDA and ISO13485 certified.



Technical data

Diameter	Ø 98 mm
Available thicknesses	12-25 mm
Chemical compositions:	
ZrO2+HfO2+Y2O3	99.6 wt%
Y ₂ O ₃	5.2 wt%
Al ₂ O ₃	<0.5 wt%
Other oxide	<0.2 wt%
Bending strength	1200 MPa

Sintering density	6.06 g/cm ³
Vickers hardness	12.8 GPa
Average grain size	0.4 µm
Chemical solubility	10 µg/cm ²
Radioactivity	0.015 Bq/g
Sintering	1450 – 1500 °C / 2h holding

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* The last two digits indicate the thickness (10-25mm)

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