CHAMLION

Dental Metal 3D Printing Solutions

A complete package for dental labs to start 3D printing today.

- Boost efficiency
- Improve quality
- Reduce cost
- Enhance sustainability

Metal 3D Printers

Plasma Polishing Machines

Auxiliary Equipment

Material

NCL-MI80A

DENTAL SPECIAL METAL 3D PRINTER

MI80

High Efficiency

Low Waste

Long Lifespan

Technical Parameters

Item	Parameters
Max. Build Volume	φ180*120mm
Laser Type	Fiber Laser
Laser Power	300W*2
Optical Scanning System	F-THETA lens, high-speed scanning galvanometer
Max.Scanning Speed	7m/s
Beam Focus Diameter	40-50μm
Layer Thickness	20-100μm
Power Supply	AC200-240V 5.75KW
Min. Oxygen Content in Build Chamber	≤100ppm
Machine Size	1193X834X1866mm
Printing Material	Pure Titanium, Titanium Alloy, Cobalt Chromium Alloy, Stainless Steel, High Temperature Alloy,etc.
Weight	600kg
Data Format	STL file or other convertible standard formats
Software	Independent R&D

www.chamlion.com TEL : +86- (0) 25-6959-0453 E-mail : sales@chamlion.com

ASA800

ASA800

AUTOMATIC POWDER STATION

Auto Powder Sieved

User Friendly

100% Unattended Operation

Technical Parameters

Item	Parameters
Powder tank capacity	20L
Power supply	220V
Powder transport efficiency	≥0.6L/min
Powder recycle efficiency	≥0.6/min
Powder sieving efficiency	≥1kg/min
Oxygen content	≤3000ppm
Weight	300kg
Size	1000*870*1990

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APIO

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PLASMA POLISHING MACHINE

High Quality

Safe & Flexible

Easy Operation

Technical Parameters

Item	Parameters
Polishing Tank Capacity	17L
Capacity	≤4Pcs
Max.Polishing Power	10KW
Heating Power	3KW
Work Time	≤10min
Power Supply	3/N/PE AC380(208)V 50/60Hz
Machine Size	650×480×890mm
Weight	230Kg
Applicable Material	CoCr,Titanium Alloy

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Sand-blasting Machine

Item	Parameters	
Air	Suction general type	Adjustable
Power	220V	Chinese plug
	300W	
Flashlight	18W×1pcs	LED
Cabinet Glass	1 piece	Plastic Frame
Door	Side door	1 group
Gloves	Canvas rubber	one-piece gloves

Item		Parameters	Item		Parameters
Gun	Model	YT-B08	Gun	Sand amount	3kg/min
	Spray gun	Aluminum		Quantity	1
	Nozzle	Boron Carbide		Speed	10-50m/s
	Rubber sleeve	Abrasion resistant nylon		Body thickness	2mm steel plate
Air Pressure	Box	integrated dust removal		Dimensions	600×870×1605mm
	Fan	250W	Host	Inner cabin	600×500×632mm
Dust Removal	Removal	Automatic & Independent		0.5-0.8Mpa	1M³/min

Explosion-proof Vacuum Cleaner

Item	Parameters
Voltage	230 V
Mains Frequency	50 Hz
Fuse	16 A
Power Consumption	1100 W
Total Connected Load	1100 W
Air Flow Rate	192 m³/h 3200 L/min
Vacuum	230 hPa/mbar 23 kPa

Item	Parameters	Item	Parameters
Height	735mm	Protection Class	I
Weight	13kg	Type of Protection	IP 54
Service Temperature	0°C-30°C	Radio Interference Level	EN 55014-1
Tank Volume	36 L	Sound Pressure Level (1 m)	63±2 dB(A)
Width	440mm	Working Sound Level	60±2 dB(A)
Depth	450mm	Power cord: Type	H07RN-F 3G1.5

Pneumatic Cleaner

Item	Parameters
Specification	AX1015E
Function	15 L
Barrel Capacity	280 MBAR
Vacuum Suction	32 mm
Air Flow	2650 L/C
Main Filter Area 1	10800 CM²
Main filter area 2	6480 CM²

Item	Parameters	Item	Parameters
Noise	53 DB	Net Weight	11 KG
Tracheal Length	5 M	Dimension	400×400×620 mm

Grinding Machine

Item	Parameters
Table Size (W x L)	250*550mm
permanent magnet chuck	250*500mm
Lateral operating	550mm
Longitudinal operating	270mm
Maximum workpiece size	260*530mm
Max work	470mm
Table T-slot (number of slots x slot width)	1x14mm
Table lateral slide rail type	Hard guide rail

Item		Parameters	Item	Parameters
Hand wheel	Vertical	0.01mm per small division, 2.0mm per revolution	Grinding wheel size (outer diameter * thickness * inner diameter)	200x16x31.75mm
	Longitudinal	0.02mm per small division, 5.0mm per revolution	Parallelism of machined surface to base surface	300/0.008mm
Spindle speed		2850/50HZ r/min	300/0.008mm	≦Ra0.63μm
Grinding head motor power		1.5kw	Gross weight	950/1000kg
Coolant pump motor power		40W	Dimensions (L*W*H)	1650x1250x1800mm

Annealing furnace

Item	Parameters
Heating power	15KW (AC380V)
Maximum heat treatment temperature	1200℃
Furnace chamber size	φ200X360mm
Heating element	Silicon carbide rod
Ultimate vacuum	≦0.1PA
Control accuracy	±0.1℃
Temp. mode	30-segment program-controlled temperature PID regulation
Cooling method	Air cooling

Band Saw

Item		Parameters
Model		DLY-18F
Max. Cutting 90°	Round	ϕ:180mm (7")
	Rectangular	180×180mm (7"×7")
	Round	ϕ:100mm (4")
	Rectangular	100×100mm (4"×4")
Blade Speed		0.75m/s (148ft./min)

Item	Parameters	Item	Parameters
Blade Size	1745×13×0.65mm (68-3/4"×1/2"×0.025")	Power	250W
Dimensions	1010×400×485mm (39-3/4×15-3/4×19")	Voltage	220~240V
N. /G. Weight	61kg /68kg	Frequency	50/60 Hz

Nitrogen Generator

Model	Nitrogen purity and output					Weight	Dimension L*W*H	Control box	
	99.999%	99.99%	99.9%	99.5%	99%			The power supply	Power
BDL-A3	3m³/h	4m³/h	7m³/h	9m³/h	11m³/h	220kg	900*750*1330mm	AC220 50HZ	30W
BDL-A5	5m³/h	10m³/h	15m³/h	20m³/h	25m³/h	465kg	1100*1100*1800mm		

Model	Nitrogen		compressed air			Installation environment	
	Nitrogen outlet pressure	Dew poin	Pressure	Dew poin	Air oil content	Indoor temperature /humidity	Optimumoperating temperature
BDL-A3	0.6-0.7MPA	'-35℃	0.6-1.0MPA	'-30℃	oil<0.01PPM	AC220 50HZ	30W
BDL-A5							

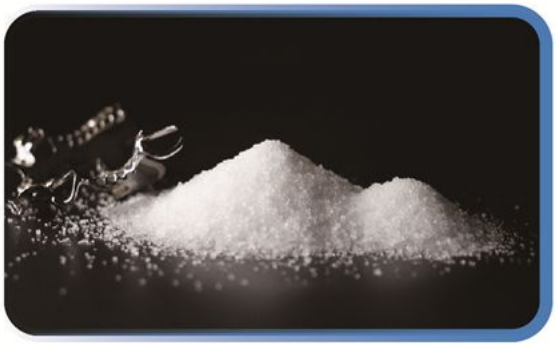
Material

Printing Powder:
Titanium Alloy & Cobalt-Chromium Alloy

Certified and tested metal powder for various applications

Polishing Salt

Made from food grade materials, easy to recycle and eco-friendly



Applications