

Dental Metal 3D Printing Solutions

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

Boost efficiency

Improve quality

Reduce cost

Enhance sustainability



Design Service



Dental-specific
Metal 3D Printers



Plasma Polishing
Machine



Auxiliary Equipment
and Consumables

METAL 3D

NCL-M180A

DENTAL-SPECIFIC METAL 3D PRINTER

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 |

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 | $\geq 0.6\text{L}/\text{min}$ |
| Powder recycle efficiency | $\geq 0.6/\text{min}$ |
| Powder sieving efficiency | $\geq 1\text{kg}/\text{min}$ |
| Oxygen content | $\leq 3000\text{ppm}$ |
| Weight | 300kg |
| Size | 1000*870*1990mm |

APPTO

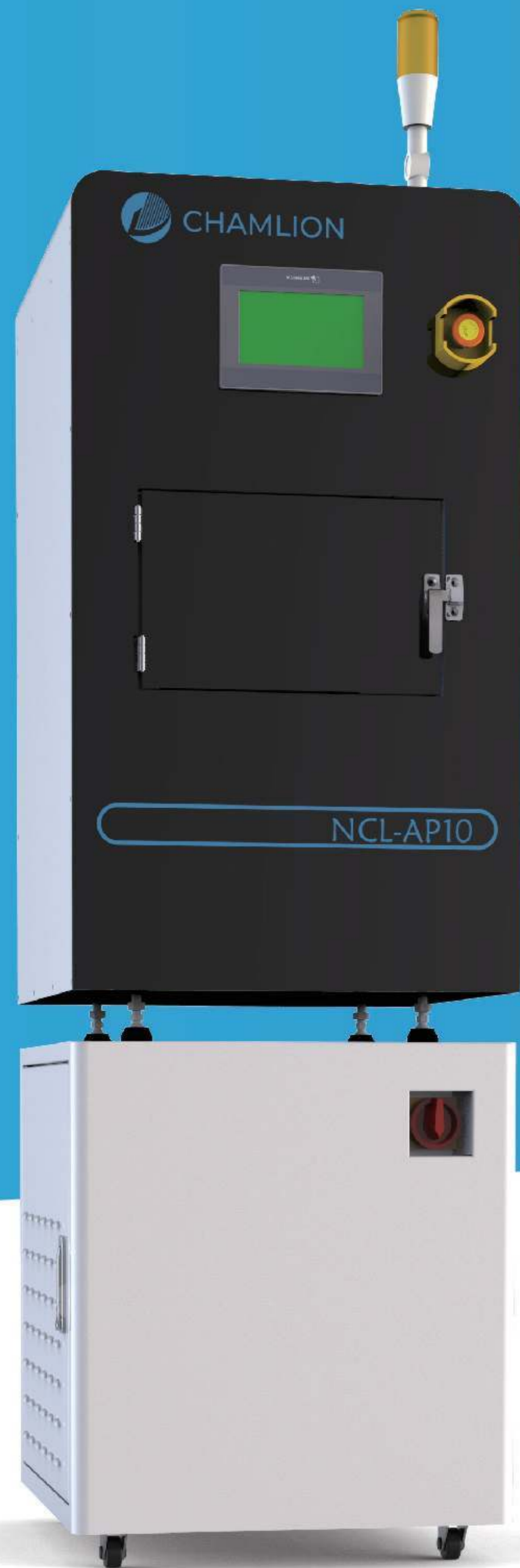
APIO

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 |

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 | | |
| Dust Removal | Fan | 250W | | Host | Inner cabin | 600×500×632mm | |
| | 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 CM ² |
| Main filter area 2 | 6480 CM ² |



| 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 °C |
| Furnace chamber size | φ200X360mm |
| Heating element | Silicon carbide rod |
| Ultimate vacuum | ≅0.1PA |
| Control accuracy | ±0.1°C |
| 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 °C | 0.6-1.0MPA | '-30 °C | oil<0.01PPM | AC220 50HZ | 30W |
| BDL-A5 | | | | | | | |



What Makes Us Special

We assist you on the entire journey with customer-specific integrated dental metal 3D printing solutions, allowing you to enjoy the **complete process of design, print and post-processing from one provider.**

Tailor our services to match your company's scale and specific needs. Whether you're a small dental lab or a large-scale operation, we have the right package for you.

- More than 10,000 partial frameworks printed daily
- Near-zero upfront capital investment
- Over 1000 3D printing systems installed worldwide
- Global presence ensuring prompt support

Applications

