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3D Printing System (Cobalt-Chromium)

1. SLM Printer (Model: SpaceTi-160)

Product Features

High Safety

- Independent filtration system: large filter area, stable airflow; functions include back-blowing, atomization, and automatic chamber isolation.
- Heat dissipation system: alloy cooling fan with flame-retardant air filtration system.
- Dual oxygen monitoring: prevents safety hazards caused by single-unit failure.
- Enclosed part removal: glove design allows safer, more environmentally friendly handling in an inert gas atmosphere.

High Stability

- Optical system: fully water-cooled, minimal thermal drift, high stability; digital galvanometer with high precision.
- Mechanical structure: designed with scientific, stable, and robust principles.
- Electrical & wiring: high-grade components with a redundancy design for reliable stability.

Balanced Efficiency and Precision

- 160 mm build size balances printing efficiency and full-surface accuracy.

Easy Installation

- Compact design allows transport via standard elevators, avoiding crane installation.

High Adaptability

- Multiple process parameter packages available, compatible with different brands of metal powders, meeting diverse and high-quality needs.

Technical Specifications

Fiber laser sources: Dual laser

Single laser output power: 500 W

Laser wavelength: 1.080 μm

Scanning speed: 5 m/s

Build size: $\text{Ø}157 \times 100$ mm

Layer thickness: 20–60 μm

Protection gas: nitrogen or argon

Operating power: 3.5 kW

Total power: 4.25 kW

Machine weight: 700 kg

Machine dimensions: 1150 \times 800 \times 1750 mm

Printing materials: Titanium alloys, cobalt-chromium alloys, stainless steel

Cooling method: Water cooling

Oxygen monitor: ≤ 1000 ppm

Circulation system: Independent circulation

Operating environment: Windows 10

2. Stress Relief Furnace (SpaceTi-200)

Power: 15 kW
Voltage/Frequency: 380 V / 50 Hz
Max temperature: 1000 °C
Working temperature: 980 °C
Heating rate: ≤100 °C/min
Weight: 150 kg
Size: 800 × 500 × 780 mm
Chamber size: Ø190 × 300 mm



3. Nitrogen Generator (BDL-3000L)

Power: 50 W
Weight: 140 kg
Dimensions: 700 × 600 × 1340 mm



4. Pneumatic Explosion-Proof Dry Vacuum Cleaner (AX1015E)

Weight: 11 kg
Dimensions: 400 × 400 × 520 mm



5. Electric Sieving Machine (KLD-200)

Power: 250 W
Weight: 35 kg
Dimensions: 350 × 380 × 300 mm



6. Grinder (GD6025Q)

Power: 550 W
Weight: 120 kg
Voltage: 220 V / 50 Hz



3D Printing System (Titanium)

1. SLM Printer (Model: SpaceTi-160)

Product Features

High Safety

- Independent filtration system: large filter area, stable airflow; functions include back-blowing, atomization, and automatic chamber isolation.
- Heat dissipation system: alloy cooling fan with flame-retardant air filtration system.
- Dual oxygen monitoring: prevents safety hazards caused by single-unit failure.
- Enclosed part removal: glove design allows safer, more environmentally friendly handling in an inert gas atmosphere.

High Stability

- Optical system: fully water-cooled, minimal thermal drift, high stability; digital galvanometer with high precision.
- Mechanical structure: designed with scientific, stable, and robust principles.
- Electrical & wiring: high-grade components with a redundancy design for reliable stability.

Balanced Efficiency and Precision

- 160 mm build size balances printing efficiency and full-surface accuracy.

Easy Installation

- Compact design allows transport via standard elevators, avoiding crane installation.

High Adaptability

- Multiple process parameter packages available, compatible with different brands of metal powders, meeting diverse and high-quality needs.

Technical Specifications

Fiber laser sources: Dual laser

Single laser output power: 500 W

Laser wavelength: 1.080 μm

Scanning speed: 5 m/s

Build size: $\text{Ø}157 \times 100$ mm

Layer thickness: 20–60 μm

Protection gas: Argon (Warning: Nitrogen is not allowed)

Operating power: 3.5 kW

Total power: 4.25 kW

Machine weight: 700 kg

Machine dimensions: 1150 \times 800 \times 1750 mm

Printing materials: Titanium alloys, cobalt-chromium alloys, stainless steel

Cooling method: Water cooling

Oxygen monitor: ≤ 1000 ppm

Circulation system: Independent circulation

Operating environment: Windows 10

2. Rapid Thermal Annealing Furnace (SpaceTi-200)

Power: 15 kW
Voltage/Frequency: 380 V / 50 Hz
Max temperature: 1000 °C
Working temperature: 980 °C
Heating rate: ≤ 100 °C/min
Weight: 150 kg
Size: 800 × 500 × 780 mm
Chamber size: $\varnothing 190 \times 300$ mm



3. Immersion-Type Explosion-Proof Vacuum Cleaner (PYWEX-1.2BL)

Explosion-proof certification: II 1/3DExh III CT160°C Da/Dc
Rated power: 1200 W
Rated voltage: 220 V
Rated frequency: 50 Hz
Max airflow: 180 m³/h
Max vacuum: 2300 mm H₂O
Capacity: 40 L
Inlet diameter: 40 mm
Dimensions: 520 × 640 × 1280 mm
Filter area: 50 kg



4. Electric Sieving Machine (XWL-1X)

Power: 200 W
Weight: 100 kg
Size: 700 × 760 × 1650 mm



5. Grinder (GD6025Q)

Power: 550 W
Weight: 120 kg
Voltage: 220 V / 50 Hz



Others

1. Vacuum Cleaners

1.1 Model: AX1015E

Function: Wet & dry

Capacity: 15 L

Suction: 280 mbar

Inlet diameter: 32 mm

Airflow: 2650 L/min

Noise: 53 dB

Hose length: 5 m

Weight: 11 kg

Size: 400 × 400 × 520 mm



1.2 Model: PYWEX-1.2BL

Function: Water bath

Capacity: 40 L

Negative pressure: 2300 mm H₂O

Inlet diameter: 40 mm

Airflow: 180 m³/h

Power: 1200 W

Voltage: 220V/50 Hz

Weight: 50 kg

Size: 520 × 640 × 1280 mm



2. Nitrogen Generators

2.1 Model: BDL-3000L

Method: PSA

Output: 8–2 Nm³/min

Purity: 99–99.999%

Pressure: 0.1–0.6 MPa

Inlet pressure: 0.8 MPa

Air requirement: 0.3 Nm³/min

Power: 50 W

Voltage: 220V/50 Hz

Weight: 140 kg

Size: 700 × 600 × 1340 mm



2.2 Model: BDL-SP2

Method: PSA

Output: 3 Nm³/min

Purity: 99–99.99%

Pressure: 0.1–0.6 MPa



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Inlet pressure: 0.8 MPa
Air requirement: 0.3 Nm³/min
Power: 80 W
Voltage: 220V/50 Hz
Weight: 110 kg
Size: 650 × 550 × 1300 mm

3. Band Saws

3.1 Model: DLY-18F1
Max cutting size: \varnothing 180 mm
Power: 250 W
Voltage: 220V/50 Hz
Weight: 61 kg
Size: 1000 × 350 × 600 mm



3.2 Model: DLY-10S1
Max cutting size: \varnothing 110 mm
Power: 250 W
Voltage: 220V/50 Hz
Weight: 13 kg
Size: 650 × 220 × 300 mm



4. Grinders

4.1 Model: GD6025Q
X travel: 270 mm
Y travel: 170 mm
Z travel: 135 mm
Power: 550 W
Voltage: 220V/50 Hz
Weight: 120 kg
Size: 700 × 700 × 850 mm



4.2 Model: GD600

X travel: 600 mm
Y travel: 300 mm
Z travel: 200 mm
Power: 1500 W
Voltage: 220V/50 Hz
Weight: 250 kg
Size: 720 × 950 × 1150 mm



5. Sieving Machines

5.1 Model: KLD-200
Screen diameter: \varnothing 200 mm
Vibration frequency: 1400/min
Power: 250 W



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Voltage: 220V/50 Hz
Weight: 35 kg
Size: 350 × 380 × 300 mm

5.2 Model: XWL-1X
Screen diameter: \varnothing 273 mm
Vibration frequency: 1400/min
Power: 200 W
Voltage: 220V/50 Hz
Weight: 100 kg
Size: 700 × 760 × 1650 mm



6. Anti-Static Powder Blowing Box

Model: XWL-50
Inlet pressure: 0.5 MPa
Weight: 50 kg
Size: 400 × 500 × 1600 mm



7. Anti-Static Sieving Box

Model: XWL-300
Weight: 40 kg
Size: 600 × 600 × 600 mm



8. Polishing Machine

Model: NF-50A
Pressure: 0.5–0.8 MPa
Fixture space: 200 × 180 × 100 mm
Power: 15000 W
Voltage: 380V/50 Hz
Weight: 50 kg
Size: 680 × 510 × 910 mm



9. Titanium Drilling/Milling Machine

Model: SpaceTi-H500
Power: 1000 W
Voltage: 380V/50 Hz
Weight: 200 kg
Size: 800 × 900 × 1750 mm

