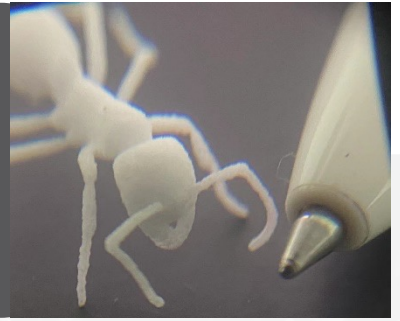
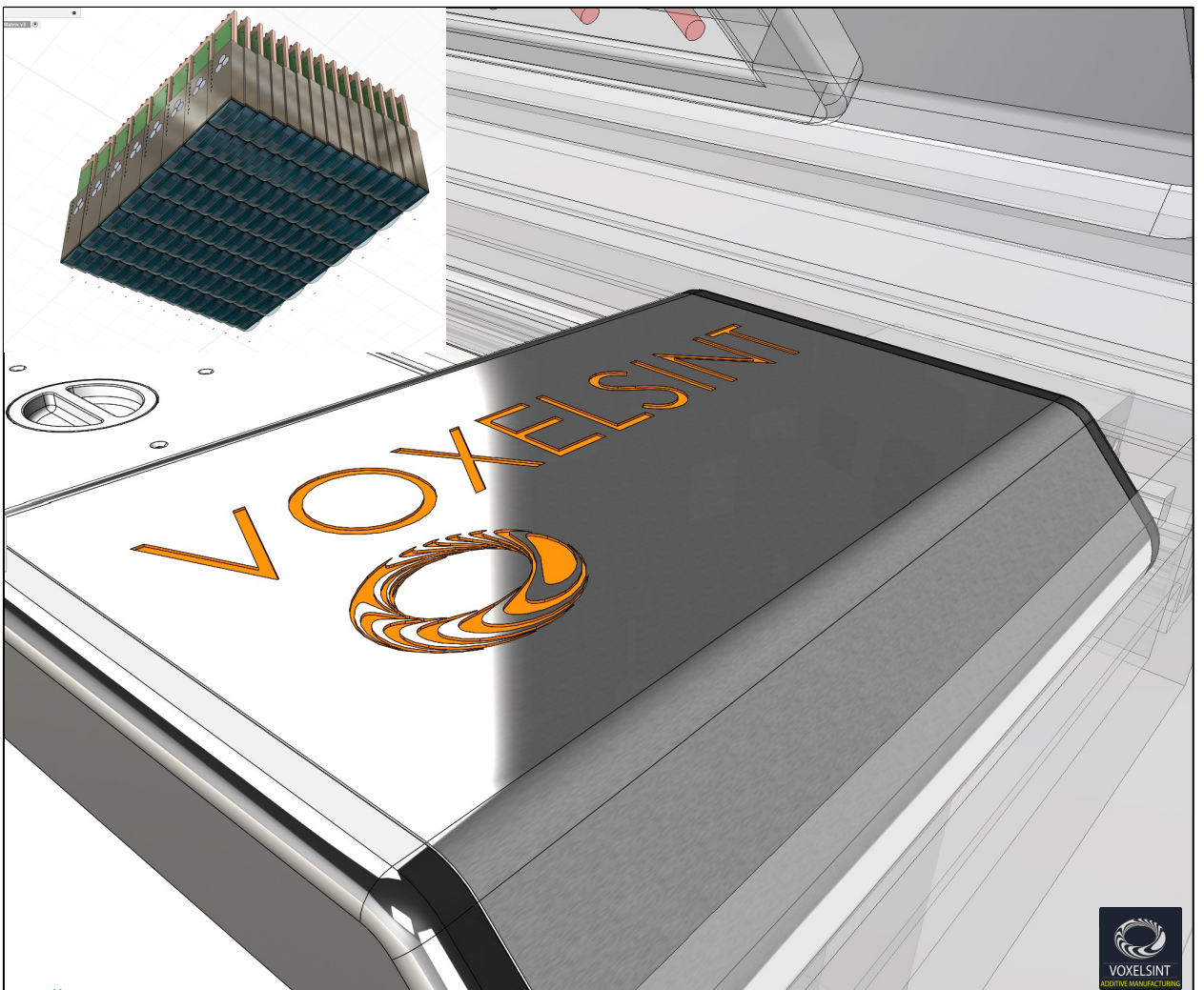




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Sintering Catalog - 2024





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PLS 220 Compact

Desktop Plastic Laser Sintering 220x200x400mm
for Studio/Office solution. (10/30 Watts Fiber Laser
for High-Resolution details HR®)



Technical specs:

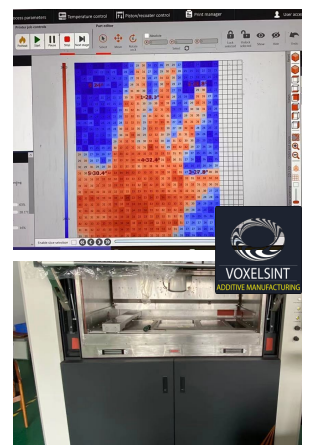
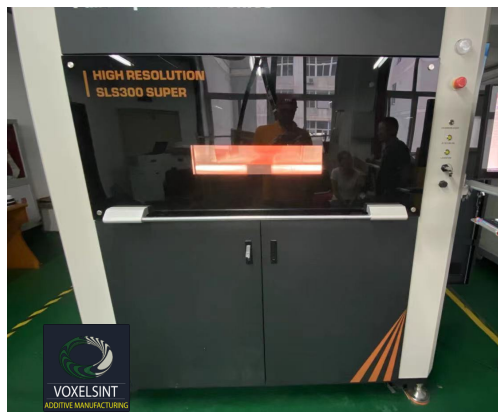
- **External Dimensions (LxWxH):** 690x650x1450 mm
- **Build Size (LxWxH):** 220x200x400mm
- **Layer thickness:** 0.06-0.12 mm (standard: 0,1mm)
- **Volume Build Rate:** 1.5L/h
- **Laser Type:** Fiber Laser 10W-30W 1065nm or (4W 6 um Diode for white powder) – CO2 RF optional
- **Scanner:** High-precision custom galvo system
- **Beam Size:** 200 µm
- **Active Optic Cooling:** Constant temperature of optic modules
- **Intelli-feed system:** Advanced powder-feed control
- **Powder Delivery:** Precision counter-rotating roller and internal Hopper
- **Max Chamber Temperature:** 250 °C or High temperature custom
- **Thermal Field Control:** Laser heating control, 768 pixels IR camera **AI** intelligent temperature control systems based on **PIDNeural**
- **Piston heating system:** Piston heater + 2 independent band heaters
- **Hot feed system:** band heaters + Quartz
- **Hot nitrogen Heating**
- **Weight:** Approx. 115kg
- **Power Supply:** EU: 230 VAC, 7.5 A (dedicated circuit) US: 120 VAC, 15 A (dedicated circuit)
- **Materials:** PA12, PA11, PP, TPU (With color with 6um Diode)



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PLS 300 High-Res

Plastic Laser Sintering 300x300x370mm for Industrial Grade entry level solution. (70 Watts CO₂ or **CO** 50 Watts for High-Resolution HR[®])



Technical specs:

- **External Dimensions (LxWxH):** 1650x1000x1930 mm
- **Build Size (LxWxH):** 300x300x370mm
- **Layer thickness:** 0.06-0.12 mm (standard: 0,1mm)
- **Volume Build Rate:** 2.5L/h
- **Laser Type:** CO₂ (10.7um) Laser 70W or CO (5.5um) Laser 50W
- **Scanner:** High-precision digital galvo system
- **Beam Size: Tunable** 200/450 μm (HR[®] high-resolution detail with CO laser 5.5um)
- **Active Optic Cooling:** Constant temperature of optic modules
- **Intelli-feed system:** Advanced powder-feed control
- **Powder Delivery:** Precision counter-rotating coated roller
- **Max Chamber Temperature:** 240 °C
- **Thermal Field Control:** Laser heating control, 768 pixels IR camera AI intelligent temperature control systems based on **PIDNeural**
- **Piston heating system:** Piston heater + 3 independent band heaters
- **Hot feed system:** band heaters + Quartz
- **Hot nitrogen Heating**
- **Weight:** Approx. 650kg
- **Power Supply:** EUR/China: 380-400V, 50/60Hz 8-12A, three-phase US: transformer included
- **Materials:** PA12, PA11, PA6, PP, TPU





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PLS 400 Industrial

Plastic Laser Sintering 400x400x450*mm for Advanced Industrial Grade solution. (100 Watts CO₂ or 4 Galvos Fiber Laser system up to 2 kW for high speed production and HR[®], high resolution details)



Technical specs:

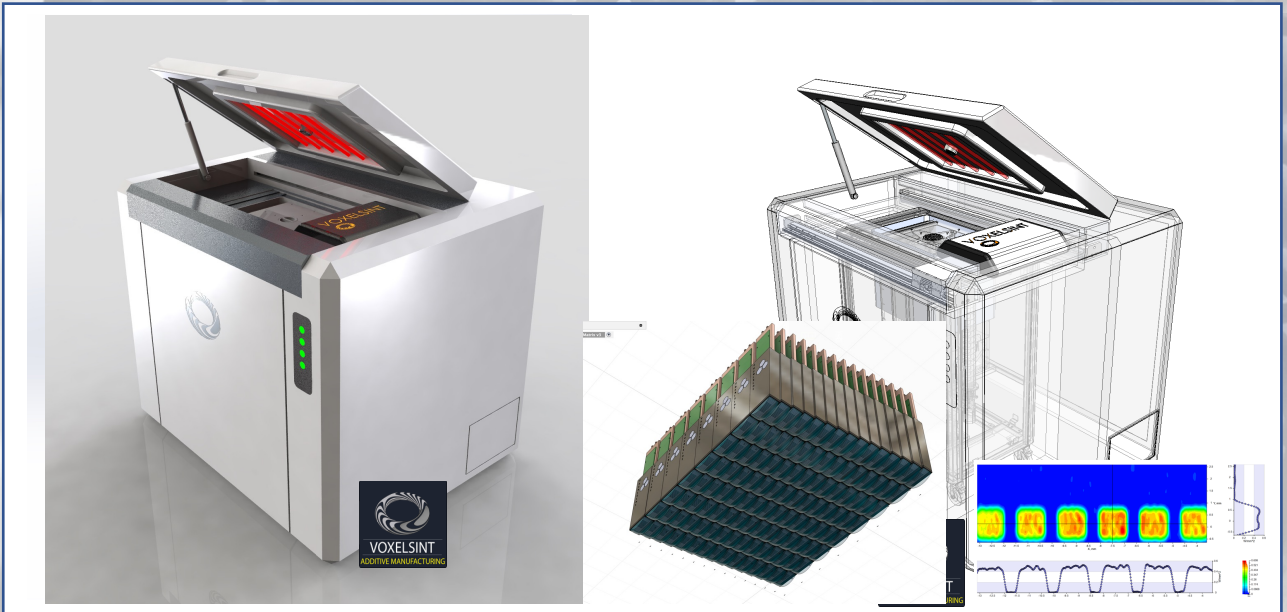
- **External Dimensions (LxWxH):** 2450x1500x2100 mm
- **Build Size (LxWxH):** 400x400x450mm or *400x400x550mm
- **Layer thickness:** 0.06-0.12 mm (standard: 0,1mm)
- **Volume Build Rate:** Up to 4L/h with Custom Fiber Laser system
- **Laser Type:** CO₂ Laser 100W or Custom Fiber laser system up to 2kW (Dev)
- **Scanner:** Up to 4 High-precision three-axis digital galvo system.
- **Beam Size: Tunable** 100/200/450 μm (Small Dynamic Spot)
- **Extractable Trolley system for powder**
- **Active Optic Cooling:** Constant temperature of optic modules
- **Intelli-feed system:** Advanced powder-feed control
- **Powder Delivery:** Precision counter-rotating roller/custom design fast retractable conveyor system
- **Max Chamber Temperature:** 240 °C
- **Thermal Field Control:** Laser heating control, 768 pixels IR camera AI intelligent temperature control systems based on PIDNeural
- **Piston heating system:** Piston heater + 4 independent band heaters
- **Hot feed system:** band heaters + Quartz
- **Hot nitrogen Heating**
- **Weight:** Approx. 2950kg
- **Power Supply:** EUR/China: 380-400V, 50/60Hz, three-phase US: transformer sold with machine
- **Materials:** PA12, PA11, PA6, PP, TPU



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ProVoxelsint 600 (Dev)

3K-Lasers Matrix Sintering 600x350x500mm for Advanced Industrial Grade solution (PEEK ready). (ProVoxelsint® head up to 6kW for Hyper Production Rate HP® and HR® under 100um)



Technical specs:

- **External Dimensions (LxWxH):** 1700x1300x1650 mm
- **Build Size (LxWxH):** 600x350x500mm
- **Layer thickness:** 0.06-0.12 mm (standard: 0,1mm)
- **Volume Build Rate:** Up to **75.6 L/h** with ProVoxelsint® HP® and HR® enabled
- **Laser Type:** Custom solid state laser array system up to 6kW 940nm
- **Beam Size:** Tunable 50/100/200/450 µm (*Small Dynamic Spot*)
- **Extractable All-in-One Trolley system for powder Load/Unload**
- **Active Optic Cooling:** Constant temperature of optic modules
- **Intelli-feed system:** Advanced powder-feed control
- **Powder Delivery:** Precision double roller system + fast preheating quartz lamps + ProVoxelsint® *
- **Max Chamber Temperature:** 360 °C
- **Thermal Field Control:** Laser heating control, 768 pixels IR camera AI intelligent temperature control systems based on **PIDNeural**
- **Piston heating system:** Piston heater + 3 independent band heaters
- **Hot hopper feed system:** band heaters + Quartz
- **Hot nitrogen Heating**
- **Weight:** Approx. 570 kg
- **Power Supply:** EUR/China: 380-400V, 50/60Hz, three-phase US: transformer sold with machine
- **Materials:** PA12, PA11, PA6, PP, TPU, Peek



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1. ***ProVoxelsint®**: Proprietary technology bases on high density matrix of laser sources.
2. ***HP® - High Production Rate**: Proprietary technology that enable one pass layer process (Sintering + Recoating) at constant time rate.
3. ***HR® – High Resolution**: Proprietary technology that enable Sub-Voxel details in the final parts (under 150um)

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