

INDUSTRIAL CNC, INDUSTRIAL STANDARDS: RELIABILITY, REPEATABILITY, PRECISION AND SAFETY



INDUSTRIAL CONTINUOUS FIBER 3D PRINTER **PROM IS 500:**

- large build volume: 600mm x 420mm x 300mm;
- rapid production of end-use continuous fiber reinforced composite parts: up to 60 cm³/hour in CCF mode;
- high temperature plastics (up to 400C) as a matrix: PEEK, PEI;
- up to 160C heated chamber temperature;
- up to 4 changeable print heads: CFC (composite: Carbon/Basalt) and FFF (plastic);
- powerful software providing full fiber layup control;
- printing composite lattices — optimal structures for composites: lower weight, price and production time of the part.

Basic Specifications

Industrial CNC

Automated bed leveling

Automated extruder calibration

Part geometry tolerance control

Interface

Ethernet, USB, Touchscreen

Material sensors

Optical sensor for filament

Printing

Printing technology

Composite Fiber Co-extrusion (CFC);
Fused Filament Fabrication (FFF)

Print platform size

600mm x 420mm x 300mm

Layer thickness, min.

60µm

Number of print heads

Up to 4

Print head types

FFF:
Print Head up to 270C
Print Head for soluble material
HT Print Head (up to 400C - option)

CFC:
Print Head 1.5k CCF with cutter
Print Head 3k CCF with cutter
Print Head CBF with cutter

Print head cooling system

Liquid cooling

Nozzle diameter, FFF

0.4 mm ... 1.5 mm

Plastic filament diameter

1.75 mm

Compatible plastics

Any plastic with processing temperatures up to 270°C:
PLA, ABS, PETG, PA(Nylon), TPU, PC, ASA SBS (Also any
CF/GF filled plastics using hardened steel nozzle);
High temperature plastics (up to 400C): PEEK, PEI;

Reinforcing fiber

Anisoprint CCF 1.5k (Composite Carbon Fiber)
Anisoprint CCF 3k (Composite Carbon Fiber)
Anisoprint CBF (Composite Basalt Fiber)



Temperature

Maximum plastic extruder temperature	270C; 400C (option)
Maximum composite extruder temperature	Up to 400C
Maximum platform temperature	160C
Material storage temperature	30C ... 90C
Maximum temperature for heating chamber (optional)	160C

Software

Slicer	FFF + CFC: Anisoprint Aura Pro, Aura Server FFF: Conventional G-code slicer
OS support	Windows 7+

Physical characteristics

Printer size (LxWxH)	1.9m x 1.2m x 1.9m
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