



INDUSTRY F421

High-performance 3D printer
for demanding industrial applications



INDUSTRY F421

HIGH PRINT SPEED

up to 400 mm/s

FULLY ENCLOSED HEATED CHAMBER

Optimum conditions for 3D printing

LARGE BUILD VOLUME

380 × 380 × 420 mm
(15 x 15 x 16.5 in)

HIGH-PERFORMANCE MATERIALS

ULTEM 9085, PEEK, PEKK,
CF materials, VICTREX AM™ 200,
advanced support materials

E421

The powerful and full-fledged rapid production system for:

PRODUCTION

FAST | SAFE | RELIABLE | COST-EFFECTIVE

Produce durable end-use parts faster and more cost-effectively than before with advanced materials that can replace worn components.

Batch printing with a large build volume.

Cost control by high print speed and minimal downtime.

Maximum material performance ensured by optimal processing conditions and engineered software.



PROTOTYPING

VERSATILE | ACCURATE | CONNECTED | SPACIOUS

Accelerate your product development and shorten the cycle to market by replacing conventional prototyping processes with 3D printing. The use of a 3D printer allows for a significantly reduced design-to-prototype time frame.

Print higher performance durable parts from the highest performance materials.

Complex geometries and higher resolution with the use of advanced supports and post-processing technologies.

Controlled environment in the fully enclosed heated chamber.

Widest range of materials with interchangeable modules.



Flexibility and performance

F421

Job-specific printing
modules and developed
printing profiles

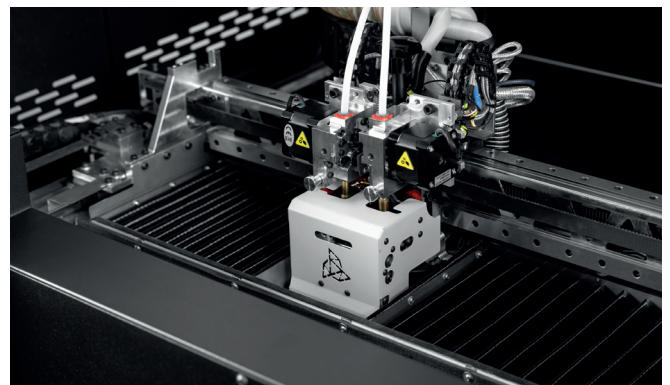
M280

TEMPERATURE:
up to 280°C (536°F)

NOZZLE DIAMETER:
0,5 mm/0,5 mm

MODEL MATERIAL:
PLA, ABS, ABS-ESD, ASA, PA6,
PA-CF

SUPPORT MATERIAL:
ESM-10, HIPS



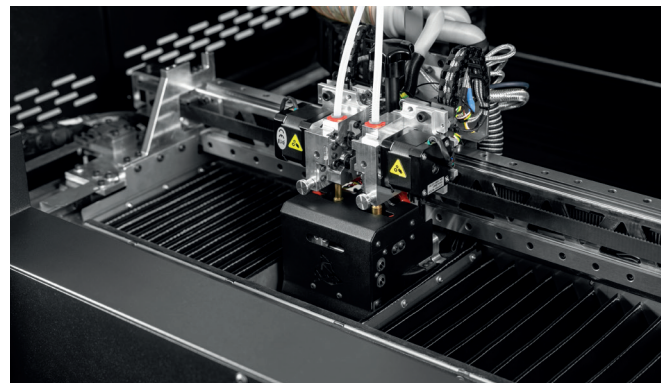
M360

TEMPERATURE:
up to 360°C (680°F)

NOZZLE DIAMETER:
0,4 mm/0,4 mm

MODEL MATERIAL:
LEXAN, PC, PC-ABS, PEKK-CF,
ULTEM 9085

SUPPORT MATERIAL:
ESM-10



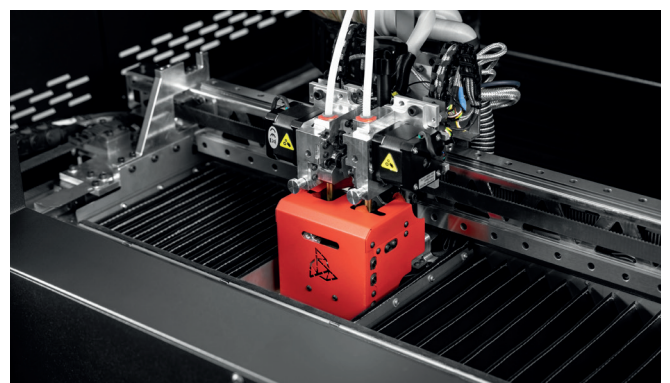
M500

TEMPERATURE:
up to 500°C (932°F)

NOZZLE DIAMETER:
0,4 mm/0,4 mm

MODEL MATERIAL:
PEEK, PEKK, VICTREX AM™ 200

SUPPORT MATERIAL:
ESM-10



F421

SPECIFICATION

Build volume

380 × 380 × 420 mm (60 648 cm³)
(15 x 15 x 16.5 in)

Printing system

Dual extruder equipped with purging station

Filament diameter

1.75 mm

Model materials

PLA, ABS, ABS-ESD, ASA, PA6, PA-CF, LEXAN,
PC, PC-ABS, PEKK-CF, ULTEM 9085, PEEK,
PEKK, VICTREX AM™ 200

Support materials

Breakaway support material, advanced support
material ESM-10 – **for removing the ESM-10
you need solvent and Support Dissolving
System**

Material chamber

4 bays with automatic spool change

Nozzle temperature (max.)

500°C (932°F)

Buildplate temperature (max.)

180°C (356°F)

Chamber temperature (max.)

180°C (356°F) (active heating)

Filament chamber temperature (max.)

50°C (122°F)

Software

3DGence SLICER 4.0, 3DGence CLOUD

Additional accessories

Advanced filtration unit,
UPS – emergency power supply, signal tower

