



INDUSTRY F421

High-performance 3D printer
for demanding industrial applications



HIGH PRINT SPEED

up to 400 mm/s

POWERFUL HEATED CHAMBER

Optimum conditions for 3D printing

LARGE BUILD VOLUME

380 × 380 × 420 mm

HIGH-PERFORMANCE MATERIALS

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

Flexibility and performance

F421

Job-specific printing
modules and developed
printing profiles

M280

TEMPERATURE:
up to 280°C

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

MODEL MATERIAL:
ABS, ABS Carbon, Addigy F1030
CF-10, ASA, PA6 Neat, PET, PLA, PP

SUPPORT MATERIAL:
ESM-10, HIPS



M360

TEMPERATURE:
up to 360°C

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

MODEL MATERIAL:
ezPC-CF, LEXAN™ EXL AMHI240F,
PC, PC-ABS, PC-CF, PC-ESD, PEKK
Carbon, ULTEM™ 9085

SUPPORT MATERIAL:
ESM-10, ESM-30



M500+

TEMPERATURE:
up to 500°C

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

MODEL MATERIAL:
PEEK, PEEK AERO, PEEK-CF,
PEKK-A, VictrexAM™200

SUPPORT MATERIAL:
ESM-10, ESM-30



E421

The powerful and full-fledged manufacturing system for:

PRODUCTION

FAST | SAFE | RELIABLE | COST-EFFECTIVE

Produce parts cheaper and faster than before with the materials you know. Easily produce end parts or spare parts that can replace worn details.

Durable and accurate end parts manufacturing.

Cost-cutting ensured by high print speed and short downtime.

Batch printing with a large build volume.



PROTOTYPING

VERSATILE | ACCURATE | CONNECTED | SPACIOUS

Accelerate your product development and shorten the road to the market by replacing your traditional prototyping process with 3D printing. The use of a 3D printer in the company allows to significantly reduce the prototyping time.

Head start on the competition with high-performance materials.

Complex prototypes with the use of soluble supports and large build volume.

Controlled environment in a high-temperature chamber.



F421

SPECIFICATION

Build volume

380 × 380 × 420 mm (60 648 cm³)

Printing system

Dual extruder equipped with purging station

Filament diameter

1.75 mm

Model materials

ABS, ABS Carbon, Addigy F1030 CF-10, ASA, ezPC-CF, LEXAN™ EXL AMHI240F, PA6 Neat, PC, PC-ABS, PC-CF, PC-ESD, PEEK, PEEK AERO, PEEK-CF, PEKK Carbon, PEKK-A, PET, PLA, PP, ULTEM™ 9085, Victrex AM™200 FIL

Support materials

Breakaway support material, soluble support material ESM-10 and ESM-30*

*For ESM-10 and ESM-30 removal you need solvent and Support Dissolving System

Material chamber

4 bays with automatic spool change

Nozzle temperature (max.)

500°C

Buildplate temperature (max.)

190°C

Chamber temperature (max.)

195°C (active heating)

Filament chamber temperature (max.)

50°C

Software

3DGence CONNECT, 3DGence SLICER 4.0

– [find out more about the new functionalities](#)

Additional accessories

Advanced filtration unit,

UPS – emergency power supply, signal tower

