



# INDUSTRY F420



**High-performance  
3D printer for demanding  
industrial applications**

**HIGH PRINT SPEED**

up to 400 mm/s

**POWERFUL  
HEATED CHAMBER**

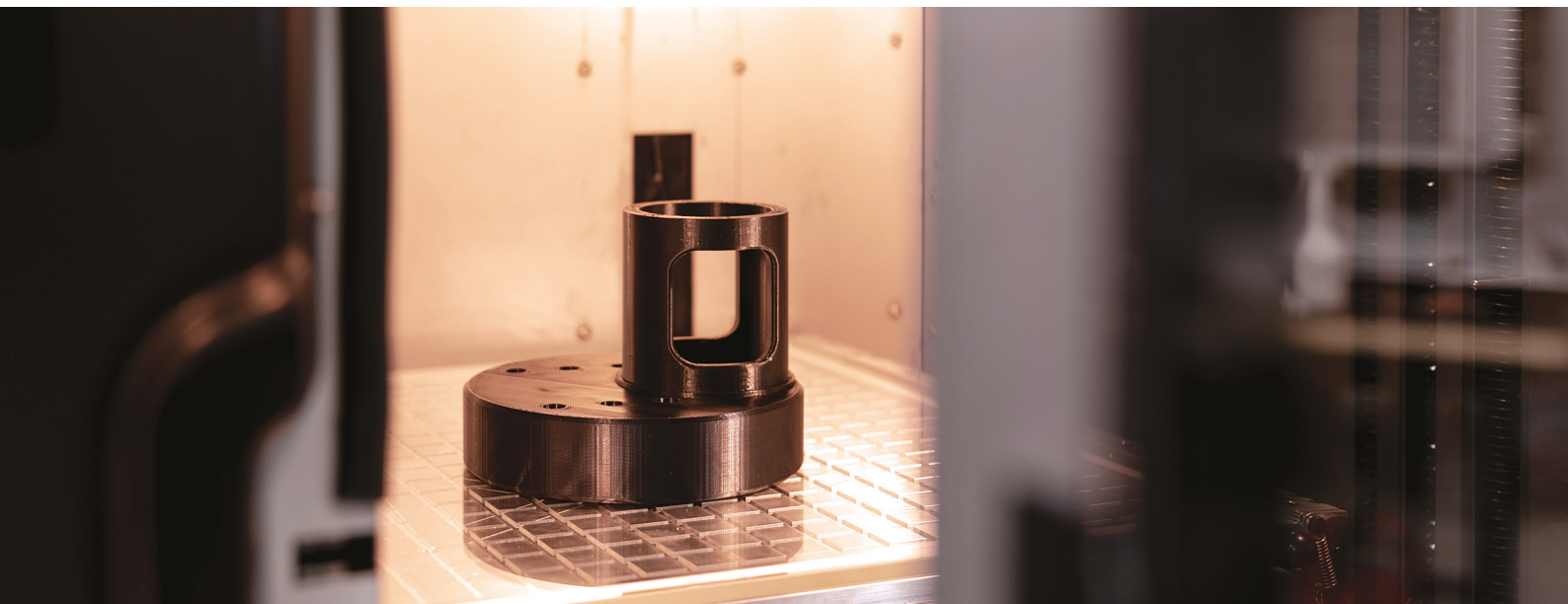
up to 180°C

**LARGE BUILD VOLUME**

380 × 380 × 420 mm

**ENGINEERING MATERIALS**

ULTEM™, PEEK, PEKK, reinforced materials, PC, ABS,  
soluble supports



# F420

## 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

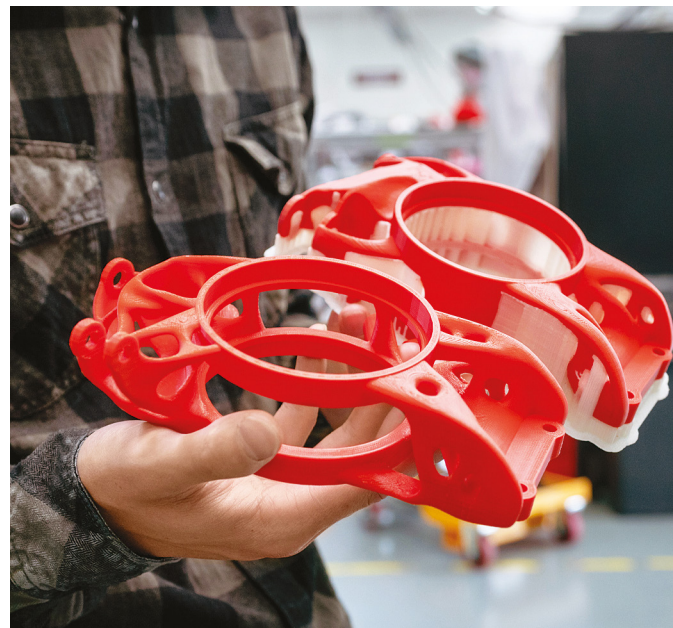
**VERSATILE | ACCURATE | SPACIOUS | CONNECTED**

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.



# Flexibility and performance

# F420

Job-specific printing  
modules and developed  
printing profiles

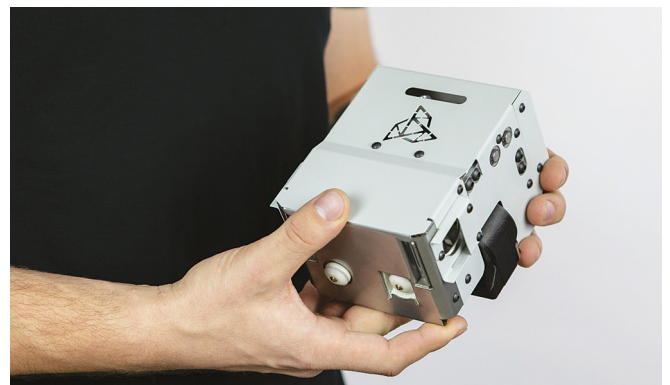
## M280

**TEMPERATURE:**  
up to 280°C

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

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

**SUPPORT MATERIAL:**  
ESM-10 (soluble), breakaway



## M360

**TEMPERATURE:**  
up to 360°C

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

**MODEL MATERIAL:**  
PC, ULTEM 9085, PEKK-CF, PC-CF

**SUPPORT MATERIAL:**  
ESM-10 (soluble)



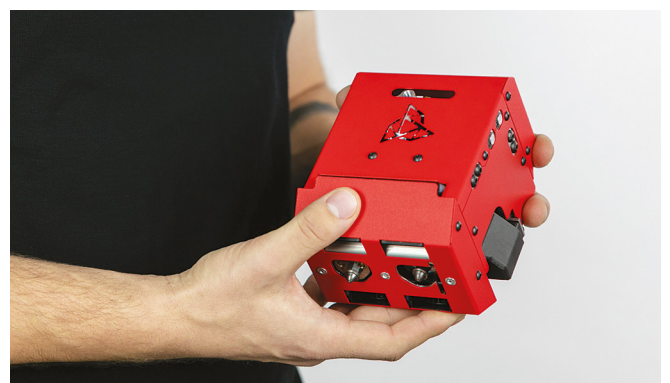
## M500

**TEMPERATURE:**  
up to 500°C

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

**MODEL MATERIAL:**  
PEEK, PEKK, PEEK-CF, AM™ 200

**SUPPORT MATERIAL:**  
ESM-10 (soluble)



# F420

## SPECIFICATION

### Build volume

380 × 380 × 420 mm (60 648 cm<sup>3</sup>)

### Printing system

Dual extruder equipped with purging station

### Filament diameter

1.75 mm

### Model materials

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

– for printing from ULTEM you need  
air preparation unit, PEI heated sheet,  
compressor

### Support materials

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

### Material chamber

4 bays with automatic filament change

### Nozzle temperature (max.)

500°C

### Buildplate temperature (max.)

180°C

### Chamber temperature (max.)

180°C (active heating)

### Filament chamber temperature (max.)

50°C

### Software

3DGence SLICER 4.0, 3DGence CLOUD

### Additional accessories

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

