MADE IN EU

3DGENCE
PRINT YOUR WORLD

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

PRODUCTION GRADE MATERIALS
ULTEM™ filament, PEEK, PC, PA, ABS

LARGE BUILD VOLUME
380 × 380 × 420 mm

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
- Batch printing with large build volume
- Cost-cutting ensured by high print speed and short downtime
- Maximum material performance ensured by optimal processing conditions

PROTOTYPING

VERSATILE | ACCURATE | SPACIOUS | CONNECTED

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

- Head start on competition with high-performance materials
- Complex prototypes with the use of soluble supports and large build volume
- Controlled environment in high-temperature chamber
- Wide range of materials with interchangeable modules

Flexibility and **performance** with job-specific printing modules and predefined printing profiles

M280

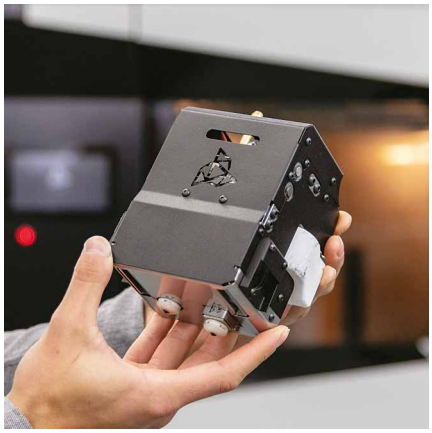
Temperature:
up to 280°C

Nozzle diameter:
0.5 mm/0.5 mm

Model material:
PLA, ABS, ASA, PA6/69

Support material:
ESM-10, HIPS

M360



Temperature:
up to 360°C

Nozzle diameter:
0.4 mm/0.4 mm

Model material:
PC, ULTEM™ filament

Support material:
ESM-10

M500

Temperature:
up to 500°C

Nozzle diameter:
0.4 mm/0.4 mm

Model material:
PEEK

Support material:
ESM-10

EASE OF USE

Make your work easier with advanced solutions provided within the INDUSTRY F420. The Smart Material Manager (SMM) system recognizes loaded materials, its weight and automatically feeds it to the printing modules. Tensometric system automatically calibrates the printer. All modules are equipped with internal memory where calibration values are saved. Calibration values are loaded automatically after changing the module, limiting the need for calibration.

SAFE WORKING ENVIRONMENT

Ensure the printers operator works in a safe and controlled conditions. The advanced air filtration system in the printer filters styrene, PM 2.5 and PM 10. System can be equipped with signal tower and emergency power supply.

DEDICATED SOFTWARE

Prepare models for 3D printing in a quick and easy way with intuitive 3DGence Slicer 4.0 software. Manage your prints, check the printing status, schedule maintenance remotely via 3DGence CLOUD.

SPECIFICATION

Build volume (w×d×h)	380 × 380 × 420 mm (60 648 cm^3)
Printing system	double extruder equipped with purging device
Filament diameter	1.75 mm
Model materials	PLA, ABS, ASA, PA6/69, PC, ULTEM™ filament, PEEK
Support materials	soluble support ESM-10, HIPS
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 filtration unit, UPS – emergency power supply, signal tower

3DGENCE
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Our engineer will help you choose the right 3D printer and material for your application:
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