



**Contact:**

Jared Berg / Applications Engineer & Sales  
Mobile: 360-977-3873 Office: 360-318-7534  
jared@acs-iws.com

# Industrial 3D Is Our Business™

**Specifications:** INDUSTRY F421 & INDUSTRY F350



**3DGence** INDUSTRY F350



**3DGence** INDUSTRY F421



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**ACS + 3DGence** Pacific Northwest Solutions Provider, Service & Bridge Manufacturing Partners  
HQ Online: **acs-iws.com** Colab: **acscolabpartners.com**

# INDUSTRY F421

## SPECIFICATION

### PRINTING

Print technology:	FFF
Build volume:	380 × 380 × 420 mm (60 648 cm <sup>3</sup> )
Min. layer height:	50 µm
Number of printheads:	2, purging system
Nozzle diameter:	0.5/0.5 mm or 0.4/0.4mm
Filament diameter:	1.75 mm
Printhead temperature:	500°C
Buildplate temperature:	180°C
Chamber temperature:	195°C (active heating)
Filament chamber temperature:	50°C
Achievable part accuracy:	Parts are printed with an accuracy of 0.125 mm or 0.0014 mm/mm, whichever is greater. Accuracy in Z-axis includes an additional tolerance of 0.000/+ layer height.

### SPEED

Travel move:	1000 mm/s
Printing speed:	up to 400 mm/s

### DIMENSIONS AND MASS

External dimensions:	1900 × 940 × 900 mm
Mass:	365 kg

### CONSTRUCTION

Chassis:	steel
External:	steel and vacuformed ABS, chamber lined with satin stainless steel
Build surface:	borosilicate glass / vacuum sealed plastic sheets



### ENVIRONMENT

Working temperature:	18-30°C
Storage temperature:	-20-54°C

### POWER

Power requirements:	- 230V 1ph with 32A (3n+p+e) IEC 60309 plug (recommended) - 230V 1ph 20A direct connection
Max power draw:	4600 W
Average power draw:	1500 W
Communication:	ethernet, Wi-Fi, USB drive

### SOFTWARE

Slicing software:	3DGence SLICER 4.0
Cloud based services:	3DGence CLOUD

### SAFETY

Advanced Filtration Unit:	yes, optional
Sensors:	main chamber door, top access hatch, thermal sensors, emergency switch
UPS device:	yes, optional
Others:	software access overdrive - remote shut down

# INDUSTRY F421

## MODULES

## Flexibility and performance

Job-specific printing  
modules and developed  
printing profiles

### M280

**TEMPERATURE:**

up to 280°C

**NOZZLE DIAMETER:**

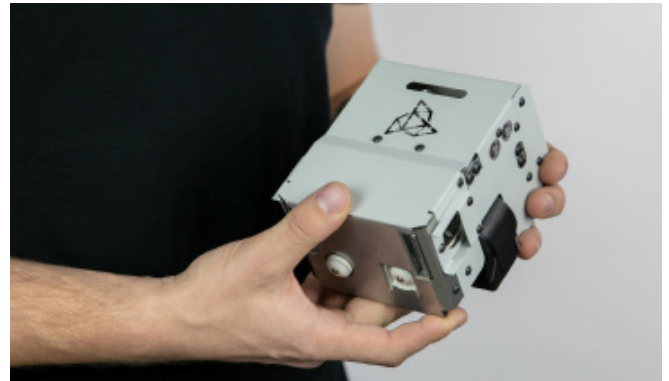
0,5 mm/0,5 mm

**MODEL MATERIAL:**

PLA, ABS, ABS-ESD, ASA, PA6,  
PA-CF

**SUPPORT MATERIAL:**

ESM-10, HIPS



### M360

**TEMPERATURE:**

up to 360°C

**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

**NOZZLE DIAMETER:**

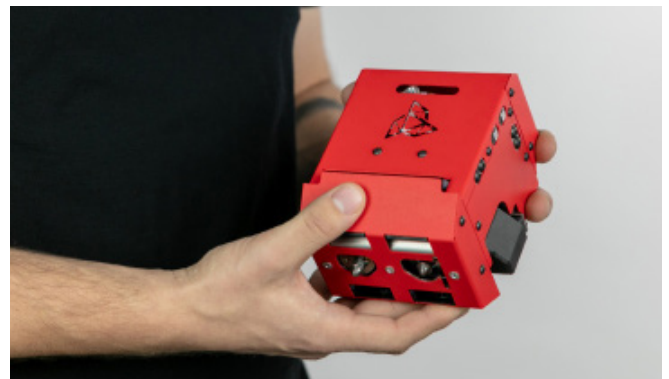
0,4 mm/0,4 mm

**MODEL MATERIAL:**

PEEK, PEKK, VICTREX AM™ 200

**SUPPORT MATERIAL:**

ESM-10



# INDUSTRY F350

## SPECIFICATION SHEET

Date / Revised: 05.03.2024

Version No.: 1.0

PRINTING	Print technology:	FFF
	Build volume:	13.39 x 13.39 x 13.78 in 340 x 340 x 350 mm (40 460 cm³)
	Min. layer height:	50 µm
	Number of printheads:	2, purging system
	Nozzle diameter:	0.5/0.5 mm or 0.4/0.4 mm
	Filament diameter:	1.75 mm
	Printhead temperature (max):	500°C (932°F)
	Buildplate temperature (max):	160°C (320°F)
	Chamber temperature (max):	140°C (284°F) (active heating)
	Filament chamber temperature (max):	50°C (122°F)
	Achievable part accuracy:	Parts are printed with an accuracy of 0.125 mm or 0.0014 mm/mm, whichever is greater. Accuracy in Z-axis includes an additional tolerance of 0.000/+ layer height.
SPEED	Travel move:	1000 mm/s
	Printing speed:	up to 400 mm/s
DIMENSIONS AND MASS	External dimensions (WxDxH):	960 x 940 x 1825 mm
	Mass:	335 kg
CONSTRUCTION	Chassis:	steel
	External:	steel, chamber lined with stainless steel
	Build surface:	borosilicate glass / magnetic sheets
ENVIRONMENT	Working temperature:	18-30°C (64.4-86°F)
	Storage temperature:	-20-54°C (-4-129.2°F)
POWER	Power requirements (EU):	220-250V 1ph 20A, NEMA L6-20 plug
	Max power draw:	3300 W
	Communication:	ethernet, Wi-Fi, USB drive
SOFTWARE	Slicing software:	3DGence SLICER 4.0
	Cloud based services:	3DGence CONNECT
SAFETY	Advanced Filtration Unit:	yes, optional
	Sensors:	main chamber door, top access hatch, thermal sensors, emergency switch
	UPS device:	yes, optional
	Others:	software access overdrive - remote shut down
WHAT IS INCLUDED?	3DGence INDUSTRY F350 3D printer Set of accessories (Wi-Fi module incl.) Emergency stop	
WHAT IS THE ADDITIONAL EQUIPMENT?	The M280 dual-extruder printing module (+1 spool ABS, +1 spool ESM-10) The M360 dual-extruder printing module (+1 spool PC, +1 spool ESM-10) The M500 dual-extruder printing module (+1 spool PEEK, +1 spool ESM-10) Signal tower UPS – emergency power supply Advanced filtration unit	

# INDUSTRY F350

## MODULES

## Flexibility and performance

Job-specific printing  
modules and developed  
printing profiles

# M 280

**TEMPERATURE:**  
up to 280°C

**NOZZLE DIAMETER:**  
0,5 mm

**MODEL MATERIAL:**  
ABS, ABS Carbon, AddigyF1030  
CF-10, ASA, PA6 Neat, PET, PLA,  
PP

**SUPPORT MATERIAL:**  
ESM-10, HIPS



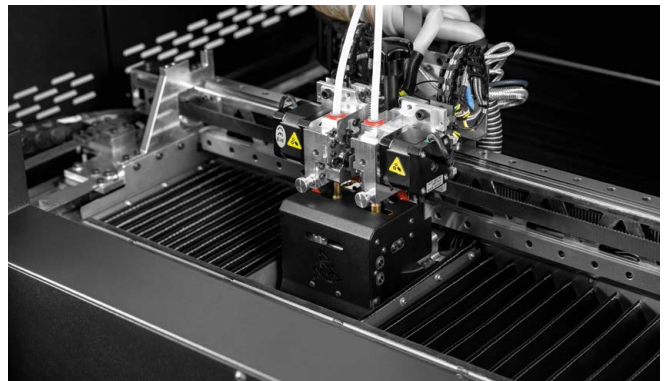
# M 360

**TEMPERATURE:**  
up to 360°C

**NOZZLE DIAMETER:**  
0,4 mm

**MODEL MATERIAL:**  
ezPC-CF, LEXAN™ EXL AMHI240F,  
PC, PC/ABS FR, PC-ESD

**SUPPORT MATERIAL:**  
ESM-10, ESM-30



# M 500+

**TEMPERATURE:**  
up to 500°C

**NOZZLE DIAMETER:**  
0,4 mm

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

**SUPPORT MATERIAL:**  
ESM-10, ESM-30



### Pacific Northwest

ACS: 1355 Pacific Pl STE 117, Ferndale, WA 98248 Tel: (360) 318-7534

email: [customerservice@acs-iws.com](mailto:customerservice@acs-iws.com)  
[www.acs-iws.com](http://www.acs-iws.com)