

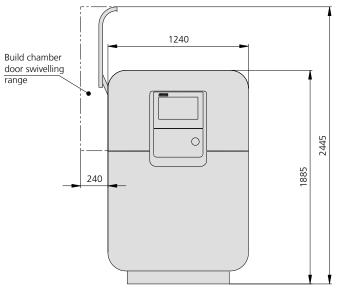
## freeformer 200-3X

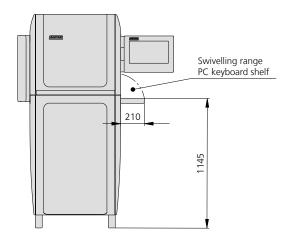
Usable build chamber space: max. 189 x 134 x 230 mm

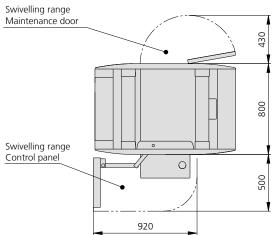
Build chamber temperature: max. 120 °C

Discharge units: 2

## **FOOTPRINT | FREEFORMER 200-3X**







Material class	Reference material <sup>5)</sup>	Support materials	oport materials	
		armat 11 (water soluble)	armat 12 (alkaline-soluble)	
ABS	Terluran GP-35	Х	Х	
TPU	Elastollan C78 A 15		Х	
PC	Makrolon 2805	X	X	
PA10	Grilamid XE 4010	X	X	

<sup>5)</sup> Further material data sets available. More detailed information is available on request.

## **TECHNICAL DATA | FREEFORMER 200-3X**

Part carrier			3-axis	
Positioning accuracy of axes		mm	+/- 0,022	
Build chamber temp	erature	max.°C	120	
Material preparati	on			
Processing temperaturemax.		°C	350	
Discharge unit				
Material pressure	max.	bar	800	
Nozzle	mm		0.2	
Discharge rate <sup>3)</sup>	max.	cm³/h	2-10	
Basic specification	s for parts			
Usable build chamb	er space, 1-componer	nt (x, y, z)4) max. mm	189 x 134 x 230	
Usable build chambe	er space, 2-componer	nt (x, y, z) <sup>4)</sup> max. mm	154 x 134 x 230	
Layer thickness <sup>5)</sup>		mm	0.2	
Wall thickness <sup>5)</sup>		min. mm	0.6	
Absolute part precis	ion (x and y)			
to VDI Guideline 3405 Sheet 7 3)		mm	+/- 0,1	
Connection and op	peration		750	
Net weight	1\	kg	750	
Electrical connection	ייו	kW	4	
		A	16	
Energy requirement		kWh/h	1,5	
Energy requirement with dryers		kWh/h	[1,6]	
Sound pressure level   Uncertainty <sup>2)</sup>		dB(A)	52/3	
Permissible temperature range		°C	15-30	
Permissible relative a	air humidity	max. %	50	

All specifications relate to the basic machine version. Deviations are possible depending on options, process settings and material type

bar

mg/m³

[6-10]

[<= 0,01]

Compressed air connection

Compressed air oil content (to ISO 8573-1)

Specifications are related to 400 V/50 Hz
Detailed info in the operating instructions.
Specifications based on reference data set for ABS Terluran GP-35
Starting from a weight of 500 g, it is necessary to reduce the speed of the dynamic axle system.
Values apply to alternative equipment.

## **EQUIPMENT | FREEFORMER 200-3X**







Electrical connection

Multi-touch screen

Second material processing and discharge unit

•	rical systems and - Liquid-cooled control cabinet and drives according to safety standard DIN EN 60204			
interfaces	- Heat exchanger with closed cooling circuit (secondary fluid circuit)			
	- CEE three-phase connector (cable length 5 m). Note: Type B residual-current device to IEC	•		
	60755 A2 required for connection			
	- USB port			
	- Dryer interface			
	- Host computer interface (OPC UA)			
Operating panel with	- High-performance industrial PC with multi-touch screen			
GESTICA controller	- Operator authorisation via transponder cards (RFID)			
	- Data storage on CompactFlash cards			
	- Intuitive operation by means of gestures			
freeformer software	- Integrated data processing (slicing) of 3D geometries in STL format			
	- System requirements: 2 GB free hard drive memory, 16 GB main memory, CPU Intel Core i7			
	or AMD Phenom II X4/X6 with SSE2 technology with 3 GHz or higher, Windows 10 operating			
	system (64-bit)			
Part carrier	- Part carrier movable on three axes			
	- Liquid-cooled linear motors with high-resolution position measurement (glass scale)			
	- Part mounting via structured carrier plates			
	Note: Optimum adhesion during the construction process and easy, non-destructive			
	release of the finished parts			
	- Rapid, reversible securing of the carrier plate by means of an integrated vacuum device			
Material processing and	- Homogeneous material preparation with short three-zone screw and precisely closing			
Discharge unit	non-return valve			
	- Energy-efficient servo-motors with absolute position encoders			
	- Precise, maintenance-free planetary roller screw drive			
	- Processing of two components with two material processing units			
	- Pulsed nozzle closure with piezo technology			
	- Nozzle sizes: 0.15 mm and 0.25 mm			
Granulate drying process	- Integrated granulate drying process for the respective material preparation			
	- Protection against excessive drying			
	- Fully integrated in GESTICA			

Standard	
Option	

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