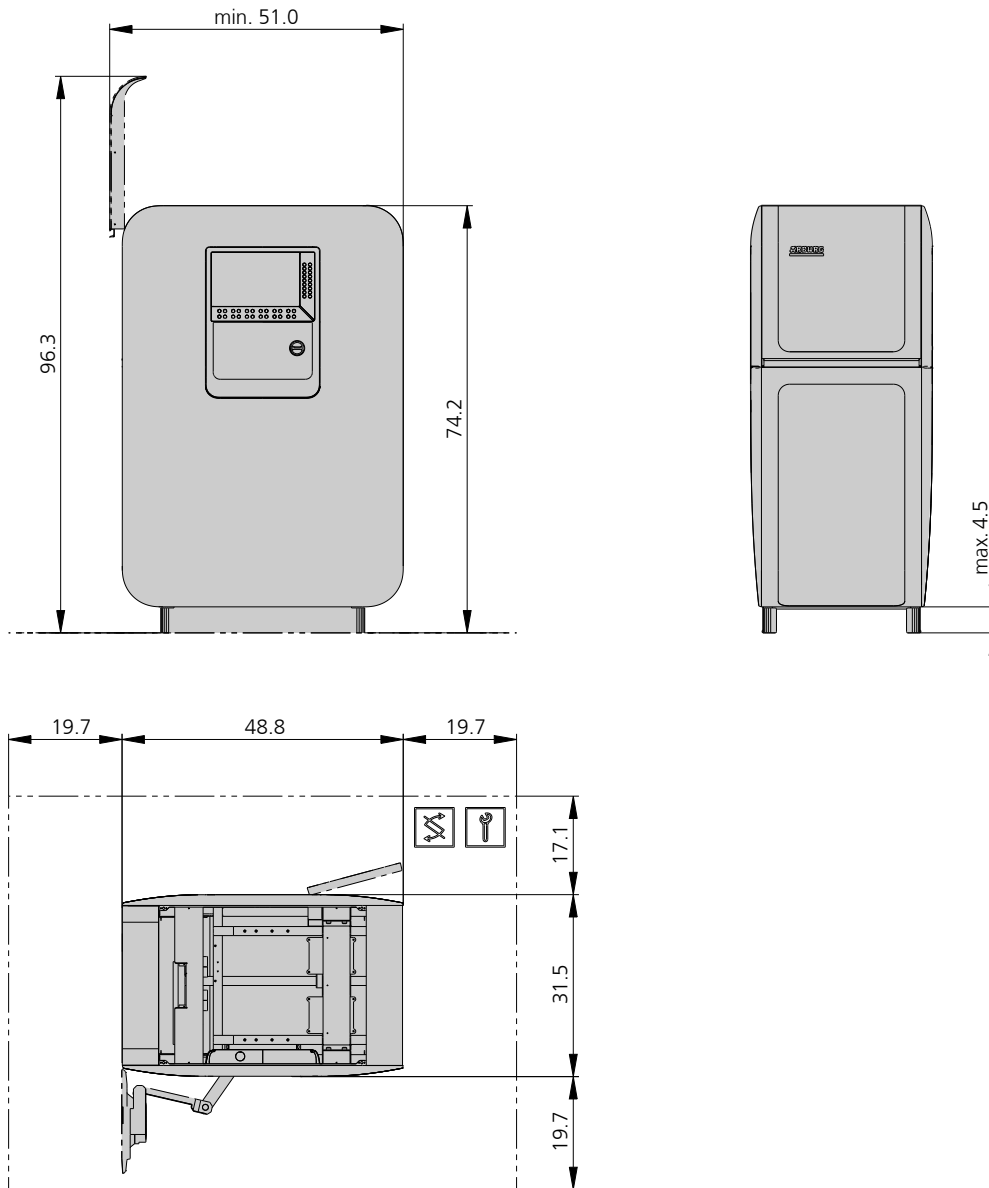


freeformer 200-3X

Usable build chamber space: 6.06 x 5.28 x 9.06 in.
Build chamber temperature: max. 248 °F
Discharge units: 2

ARBURG

FOOTPRINT | FREEFORMER 200-3X



Process data for reference materials ¹⁾			
Material class	Reference material	Support materials	
		armat 11 (water-soluble)	armat 21 (alkaline-soluble)
ABS	Terluran GP-35	x	x
TPU	Elastollan C78 A 15		x
PC	Makrolon 2805	x	x
PA10	Grilamid XE 4010	x	x

1) Further material data sets available. More precise information upon request.

TECHNICAL DATA | FREEFORMER 200-3X

Part carrier		3-axis
Positioning accuracy of axes	mm (inch)	+/- 0.022 (0.0009)
Build chamber temperature	max. °C (°F)	120 (248)
Material preparation		350 (662)
Processing temperature	max. °C (°F)	
Discharge unit		
Material pressure	max. bar (psi)	800 (11,603)
Nozzle	mm (inch)	0.2 (0.0079)
Discharge rate ³⁾	max. cm ³ /h (cu in/h)	2-14 (0.12-0.85)
Basic specifications for parts		
Usable build chamber space, 1-component (x, y, z) ⁴⁾	max. mm (inch)	189 x 134 x 230 (7.44 x 5.28 x 9.06)
Usable build chamber space, 2-component (x, y, z) ⁴⁾	max. mm (inch)	154 x 134 x 230 (6.06 x 5.28 x 9.06)
Layer thickness ²⁾	mm (inch)	0.2 (0.0079)
Wall thickness ³⁾	min. mm (inch)	0.6 (0.024)
Absolute part precision (x and y) acc. to VDI Guideline 3405 Sheet 7 ³⁾	mm (inch)	+/- 0.1 (0.0039)
Connection and operation		
Net weight	kg (lbs)	850 (1,874)
Electrical connection ¹⁾	kW	4
	A	16
Energy requirement	kWh/h	1.5
Energy requirement with dryers	kWh/h	[1.6]
Sound pressure level Uncertainty ²⁾	dB(A)	52/3
Permissible temperature range	°C (°F)	15-30 (59-86)
Permissible relative air humidity	max. %	50
Compressed air connection	bar (psi)	[6-10 (87-145)]
Compressed air oil content (to ISO 8573-1)	mg/m ³	[<= 0.01]
Compressed air, pressure dew point (according to ISO 8573-1)	°C	[<= -20 (-4)]
Compressed air, particle quantity 1-5µm (according to ISO 8573-1)		[<= 100.000]

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

1) Specifications are based on 400 V/50 Hz

2) Detailed info in the operating instructions.

3) Specifications based on reference data set for ABS Terluran GP-35

4) A reduced speed of the dynamic axis system is necessary as of a weight of 500 g (1.1 lbs).

[] Values apply to alternative features.

FEATURES | FREEFORMER 200-3X



Electrical connection



Multi-touch screen



Second material processing and discharge unit

Electrical system and interfaces	<ul style="list-style-type: none"> - Liquid-cooled control cabinet and drives in accordance with safety regulation DIN EN 60204 - Heat exchanger with closed cooling circuit (liquid secondary circuit) - CEE three-phase connector (cable length 5 m (16.4 ft)). Note: Type B residual-current device in accordance with IEC 60755 A2 required for connection - USB interface - Dryer interface - Host computer interface (OPC UA) 	■
Control panel with GESTICA control system	<ul style="list-style-type: none"> - High-performance industrial PC with multi-touch screen - User authorization by transponder cards (RFID) - Data memory on CompactFlash cards - Intuitive operation by gestures 	■
freeformer software	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Part carrier movable on three axes - Liquid-cooled linear motors with high-resolution position measurement (glass scale) - Part mounting on structured platforms Note: Optimal adhesion during the construction process as well as easy, non-destructive release of the finished parts - Quick, reversible securing of the platform by means of an integrated vacuum unit 	■
Material processing and Discharge unit	<ul style="list-style-type: none"> - Homogeneous material processing with short three-zone screw and precisely closing 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 - Synchronized nozzle closure with piezo technology - Nozzle sizes: 0.15 mm and 0.25 mm (0,0059 in and 0,0098 in) 	■
Granulate drying	<ul style="list-style-type: none"> - Integrated granulate drying for the respective material processing - Protection against excessive drying - Fully integrated in GESTICA 	□

■ Standard
□ Optional

ARBURG GmbH + Co KG
 Arthur-Hehl-Strasse
 72290 Lossburg
 Tel.: +49 7446 33-0
 www.arburg.com
 contact@arburg.com