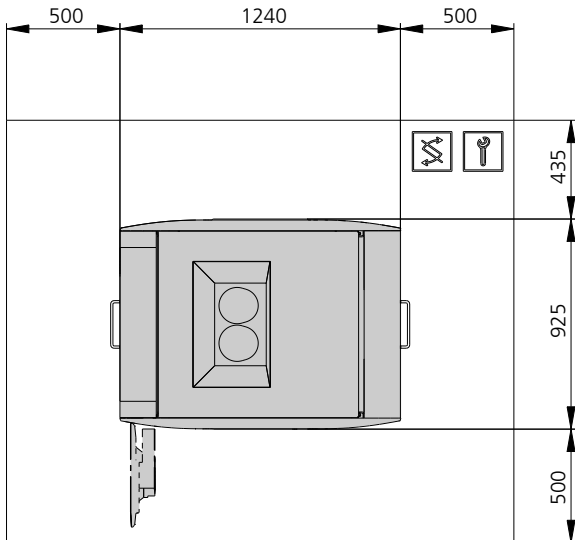
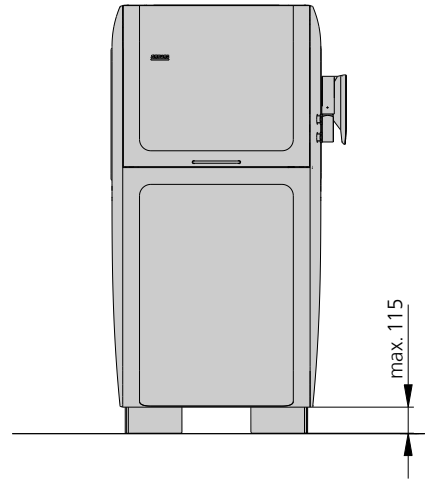
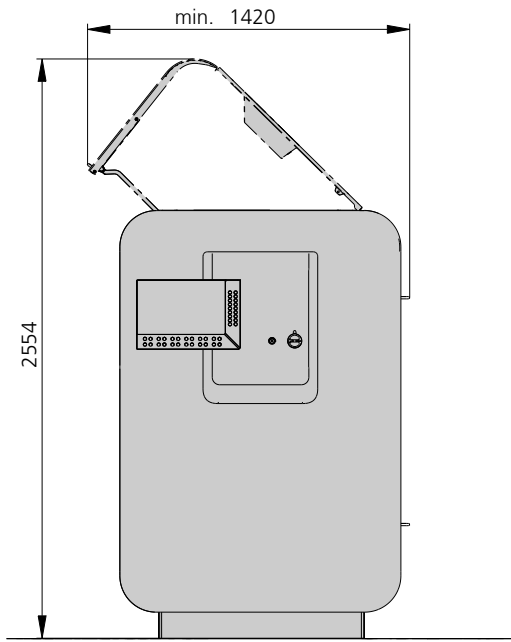


freeformer 550-3X

Usable build chamber space: max. 230 x 230 x 230 mm
Build chamber temperature: max. 120 °C
Discharge units: 2

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INSTALLATION DIMENSIONS | FREEFORMER 550-3X



TECHNICAL DATA | FREEFORMER 550-3X

Part carrier		3-axis
Positioning accuracy of axes	mm	+/- 0,022
Build chamber temperature	max. °C	120
Material preparation		
Processing temperature	max. °C	350
Discharge unit		
Material pressure	max. bar	800
Nozzle	mm	0,2
Discharge rate ^{3) 5)}	max. cm ³ /h	57
Basic specifications for parts		
Usable build chamber space (x, y, z) ⁴⁾	max. mm	230 x 230 x 230
Layer thickness ³⁾	mm	0,2; 0,25
Wall thickness ³⁾	min. mm	0,6
Absolute part precision (x and y) according to VDI Guideline 3405 Sheet 7 ³⁾	mm	+/- 0,1
Connection and operation		
Net weight	kg	1100
Electrical connection ¹⁾	kW	7,8
CEE three-phase plug / Hubble connector	A	16
Energy requirement	kWh/h	1,6
Energy requirement with dryers (high-temperature version)	kWh/h	3,8
Sound pressure level Uncertainty ²⁾	dB(A)	54 5
Permissible temperature range	°C	15-25
Permissible relative air humidity	max. %	50
Compressed air connection	bar	[6-10]
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]
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 related to 400 V/50 Hz
 - 2) Detailed info in the operating instructions.
 - 3) Specifications based on reference data set for ABS Terluran GP-35
 - 4) From 500 g total weight, axis acceleration is automatically adjusted. From 5,000 g total weight, additional reduction of axis acceleration is necessary.
 - 5) Based on a layer thickness of 0.25mm
- [] Values apply to alternative equipment.

EQUIPMENT | FREEFORMER 550-3X



Electrical connection



Multi-touch screen



One-piece build chamber door

Electrical systems and interfaces	<ul style="list-style-type: none"> - Liquid-cooled control cabinet and drives according to safety standard DIN EN 60204 - 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) 	<input checked="" type="checkbox"/>
Operating panel with GESTICA control system	<ul style="list-style-type: none"> - High-performance industrial PC with multi-touch screen - Operator authorisation via transponder cards (RFID) - Data storage on CompactFlash cards - Intuitive operation by means of gestures 	<input checked="" type="checkbox"/>
freeformer software	<ul style="list-style-type: none"> - 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) 	<input checked="" type="checkbox"/>
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 via 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 	<input checked="" type="checkbox"/>
Material processing and Discharge unit	<ul style="list-style-type: none"> - Homogeneous material preparation 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 up to two components with up to two material preparation units - Pulsed nozzle closure with piezo technology 	<input checked="" type="checkbox"/>
Granulate drying process	<ul style="list-style-type: none"> - Integrated granulate drying process for the respective material preparation - Protection against excessive drying - Fully integrated in GESTICA 	<input type="checkbox"/>
Electrical systems and interfaces	<ul style="list-style-type: none"> - Robot interface according to Euromap 67 	<input type="checkbox"/>

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Standard
 Option

682782_EN_GB_032025 - Subject to alterations