

SINTRATEC AMP

Technical Data Sheet



AMP
ALL-MATERIAL PLATFORM

 SINTRATEC

AMP FUSION MODULES



SINTRATEC S3



SINTRATEC S2

Technical Specifications		
Dimensions (h × w × d)	1,490 × 990 × 600 mm	1,490 × 990 × 600 mm
Weight	80 kg	72 kg
Power Requirements	230 V 11 A max 50 – 60 Hz Typical power consumption: 0.96 kW	230 V 11 A max 50 – 60 Hz Typical power consumption: 0.95 kW
Laser Specifications	30W CW Fiber Laser (1064 nm wavelength)	10W CW Fiber Laser (1064 nm wavelength)
Laser Spot Size (FWHM)	145 μm	145 μm
Radiation Information	Class 1 Laser product	Class 1 Laser product
Printer Control	7" Interactive touchscreen	7" Interactive touchscreen
Process Monitoring	8 megapixel built-in camera	8 megapixel built-in camera
Connectivity	Ethernet (1000 Mbit) USB 2.0	Ethernet (1000 Mbit) USB 2.0
Temperature Control / Regulation	6 separately regulated heat zones	6 separately regulated heat zones
Printing Range	ø200 mm	ø180 mm
Downtimes	Around-the-clock printing enabled by external Build Module cooldown	Around-the-clock printing enabled by external Build Module cooldown
Build Module Compatibility	MCU-220 MCU-160	MCU-220 MCU-160

Typical Printing Properties		
Technology	Selective Laser Sintering (SLS)	Selective Laser Sintering (SLS)
Layer Thickness	0.1 mm	0.1 mm
Startup Time	< 75 min*	< 75 min*
Controlled Cooldown	< 60 min*	< 60 min*

* Depends on the used material, Build Module, and printing parameters.

AMP BUILD MODULES



SINTRATEC MCU-220



SINTRATEC MCU-160

Technical Specifications		
Dimensions (h × w × d)	1100 × 850 × 530 mm	1100 × 850 × 530 mm
Weight	65 kg	59 kg
Build Cylinder Height	400 mm*	400 mm*
Build Cylinder Diameter	ø220 mm*	ø160 mm*
Build Cylinder Volume	15.2 l	8 l
Powder Capacity	max. 18 l (~9kg Sintratec PA12)	max. 18 l (~9kg Sintratec PA12)
Temperature Control/Regulation	3 separately regulated heat zones 4 separate temperature sensors integrated in the build cylinder	3 separately regulated heat zones
Integrated Coating System	Blade coater Bidirectional material supply	Blade coater Bidirectional material supply
Fusion Module Compatibility	S3 S2	S3 S2

* The actual print range depends on the used material and printing parameters.

AMP MATERIAL HANDLING MODULES



SINTRATEC MHS

Technical Specifications	
Dimensions (h x w x d)	1,570 x 990 x 600 mm
Weight	57 kg
Power Requirements	230 V 11 A max 50 – 60 Hz
Available Motorized Sieves	140 µm 314 µm (mesh size)
Module Control	7" Interactive touchscreen
Process Monitoring	8 megapixel built-in camera
Connectivity	Ethernet (1000 Mbit) USB 2.0
Build Module Compatibility	MCU-220 MCU-160
Powder Handling Accessories	Vacuum Cleaning Solution Powder Sieve Bucket Trowel Fine Hole Cleaning Tool Fine Powder Brush Large Powder Brush Gloves Powder Cup Face Mask

Last updated: 04/2022 | Disclaimer: This data sheet represents the current state of development of the Sintratec products and loses its validity once a new version is published. Misprints, changes and errors are reserved. Pictures and listed specifications may vary from the final products.