



AMCM M 450

25 % more building volume compared to EOS M 400.

Expand your applications.

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AMCM M 450

BENEFITS

- Compatible with legacy EOS M 400 process parameter sets (same focus, beam quality, etc.) (1)
- Larger building envelope of 450 x 450 x 400 mm ⁽²⁾
- Upgrade on site: available for EOS M 400-1 to AMCM M 450-1
- As new system: new optical setup for AMCM M 450-4 now covering full 450 x 450 mm area
- Calibration and overlap adjustment with SmartCAL
- Optimized gas flow nozzle for larger build volume
- Consumables and options available for M 450 (building plates, recoater blades or soft recoater, etc.)
- Open software for process optimization
- Automatic refill of dispenser with open loop powder handling

TECHNICAL DATA

	AMCM M 450-4	AMCM M 450-1 1kW
Building volume	450 x 450 x 360 mm (400 mm without heating) 17.72 x 17.72 x 14.17 in (15.75 in without heating)	
Laser type	Yb Fiber laser	
Nominal power	4 x 400 W	lxlkW
Wave length	1070 nm	
Precision optics	F-theta-lens	
Scanner	high-speed scanner with active cooling	
Scanning speed	up to 7.0 m/s 23 ft./sec	
Focus diameter	арргох. 85 µm 0.003 in	
Power supply	63 A / 400 V	
Power consumption	23 kW	19 kW
Inert gas supply	7,000 hPa; 20 m³/h 102 psi; 706 ft³/h	
Dimensions (W x D x H)	4,880 x 2,440 x 3,308 mm 192.1 x 96.1 x 130.2 in	
Recommended installation space	min. 6,500 x 6,000 x 4,173 mm 256 x 236 x 164 in	
Weight	approx. 5,980 kg 13,184 lb	



Fig 1: Building size ratio of EOS M 290, EOS M 400 and AMCM M 450.

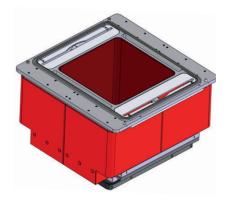


Fig 2: AMCM M 450 exchangeable frame design with extended overflow bin volume of 92 l.

⁽¹⁾ Processes must all be re-qualified by customer.

Consulting for parameter set transfer, e.g. from EOS M 400-4 to AMCM M 450-4 on request.

⁽²⁾ Building height incl. build plate.