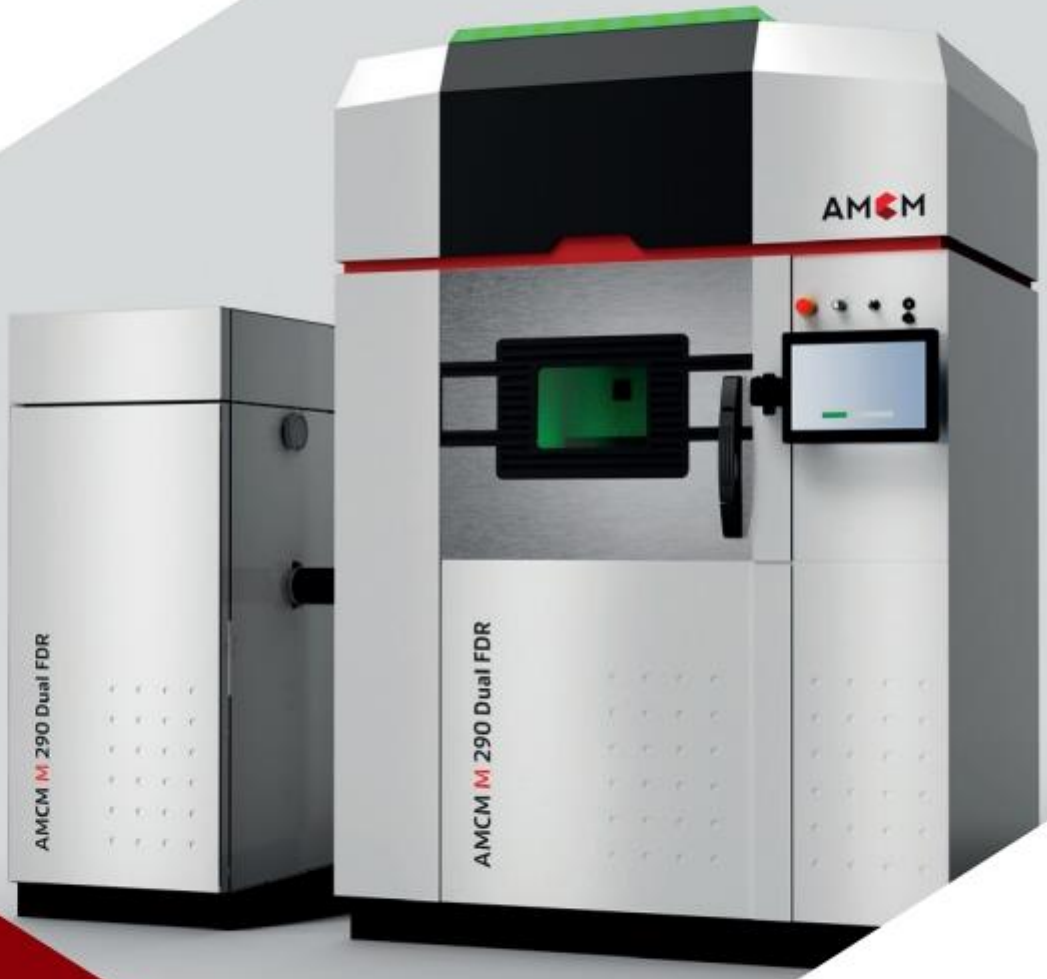
AMCM

Additive Manufacturing
Customized Machines



AMCM M 290 Dual FDR

Dual head, fine detail resolution AM system.

Optimized for your applications.

AMCM M 290 Dual FDR

BENEFITS

- Fine detail resolution (FDR) for demanding applications
- High productivity with dual laser setup
- Process gas cooling for consistant process conditions (optional)
- Open software for process optimization

TECHNICAL DATA

Building volume	250 x 220 x 325 mm | 9.85 x 8.66 x 12.8 in[(1)]
Laser type	Yb Fiber laser 2x 400 W nominal power
Wave length	1070 nm
Precision optics	F-theta-lens
Scanner	digital scanner with active cooling
Scanning speed	up to 7,0 m/s | 23 ft./sec
Focus diameter	approx. 40 µm | 0.0016 in
Process gas cooling	additional gas cooling unit (optional)
Power supply	ca. 32 A / 400 V
Power consumption	max. 20 kW
Inert gas supply	7.000 hPa; 20 m³/h | 102 psi; 706 ft³/h
Dimensions (W x D x H)	2.500 x 1.300 x 2.400 mm | 98.4 x 51.2 x 94.49 in
Recommended installation space	min. 4.800 x 3.600 x 3.500 mm | 189 x 142 x 138 in
Weight	approx. 1.350 kg | 2,976 lb

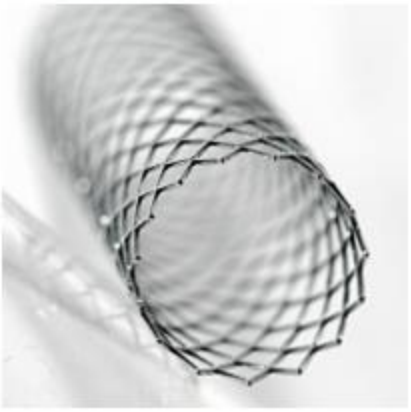


Fig 1: Example of a medical stent geometry.

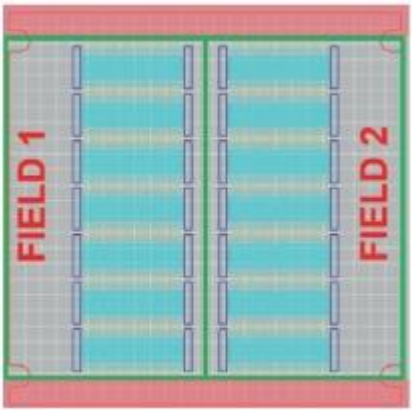


Fig 2: Exposure area of scan field 1 and scan field 2[(2)]

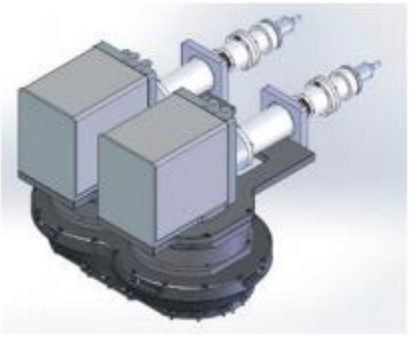


Fig 3: M 290 Dual FDR scanner setup

(1) Effective exposure area per scanner is XY 135 x 220 mm. Parts inside overlap area of the two scan fields should be built with a single laser. Recommended maximal part size XY 125 x 220 mm. System is also available with a Single Laser FDR Optic on request, with recommended exposure area XY 220 x 220 mm.
(2) Overlap calibration and scan field adjustment for M 290 Dual FDR not available.

System_Data-Sheet_M290_Dual_FDR_EN _V2-CRD. Status 20/05. Technical data subject to change without notice. AMCM is certified according to ISO 9001.

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