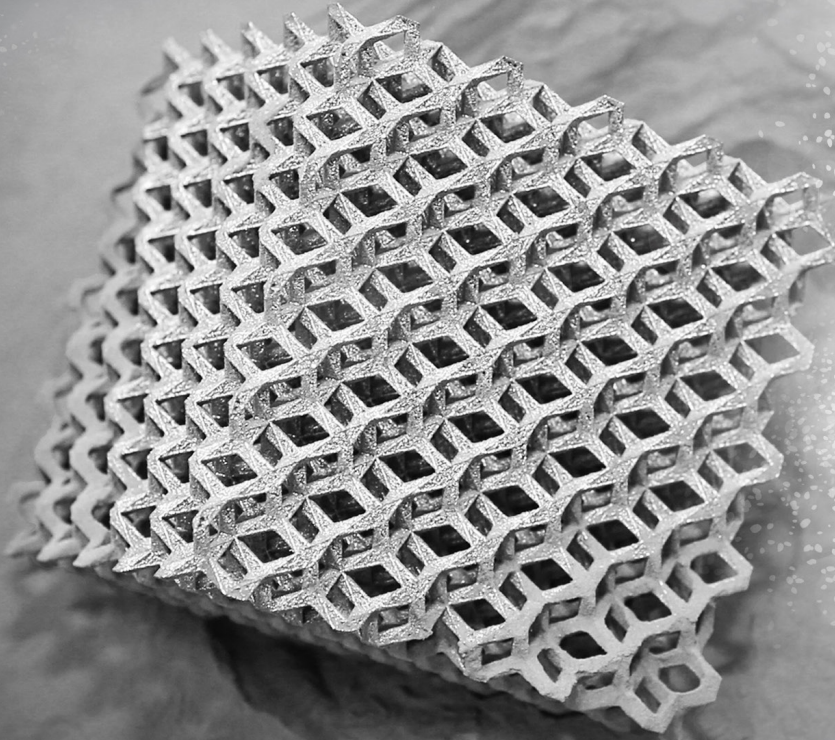




ERMAKSANADDITIVE
THINK 3D



INTRODUCING THE NEW

ENAVISION 120
METAL AM

Print Size
Ø120x80 mm

300 W Fiber Laser



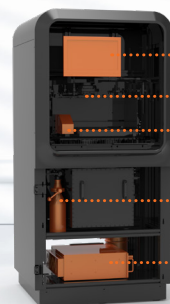
Machine Size (LxWxH)
960x1120x2000 mm

Machine Weight
1.000 kg

Discover The New ENAVISION 120 Metal 3D Printer

Investing in the ENAVISION 120 additive manufacturing machine provides a fast, reliable, and cost-effective solution. With its compact design and a production volume of Ø120 mm x 80 mm, ENAVISION 120 seamlessly blends practical functionality with ergonomic design. Tailored for laboratories and office environments, the new design is the perfect solution for applications in dental, medical, universities, and research institutes.

The 3D printer utilizes the Laser Powder Bed Fusion (L-PBF) method. By processing metal powders using this technology, the result is parts with a density of over 99% and excellent mechanical properties, meeting industry standards. Users have the freedom to optimize machine parameters based on part geometry and specific production needs, allowing for complete control over the process. This flexibility ensures seamless adaptation to various material types, ensuring both versatility and performance in every use case.



Control Panel

Production Site

Powder Recoater Blade

Powder Collecting Unit

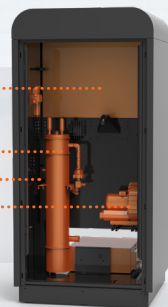
Resonator

Electric Panel

Filter

Pneumatic System

Blower



Open
Parameter

Complex
Geometries

Customized
Design

Production
Efficiency

Functional
Production

Lightweight
Parts

TECHNICAL SPECIFICATIONS



	ENAVISION 120	ENAVISION 165	ENAVISION 250
PRODUCTION AREA	Ø 120 X 80 mm	Ø 165 X 100 mm	□ 250 X 300 mm
ADJUSTABLE LAYER HEIGHT	20 - 100 µm	20 - 100 µm	20 - 100 µm
LASER TYPE	Ermakan Fiber Laser	Ermakan Fiber Laser	Ermakan Fiber Laser
LASER POWER	300 W	300 W	500 W
SCANNING SYSTEM	F-Theta Lens	F-Theta Lens	3D Dynamic Focused
SCANNING SPEED (up to)	5 m/s	5 m/s	11 m/s
COOLING SYSTEM	Air	Air	Water
BUILDING PLATFORM PREHEAT	—	—	Up to 60
ELECTRICAL CONNECTION (VOLTAGE)	230 V, 1 PH, 50/60 Hz	230 V, 1 PH, 50/60 Hz	400 V, 1 PH, 50/60 Hz
ELECTRICAL CONNECTION (CURRENT)	25 / 32 A	25 / 32 A	32 A
INERT GAS	Argon / Nitrogen	Argon / Nitrogen	Argon / Nitrogen
O2 LEVEL	100-2000 ppm	100-2000 ppm	100-2000 ppm
OPERATING SYSTEM	Windows 10	Windows 10	Windows 10
NETWORK	Ethernet / Ethercat / USB	Ethernet / Ethercat / USB	Ethernet / Ethercat / USB
CONTROL SYSTEM	Beckhoff Industrial PC	Beckhoff Industrial PC	Beckhoff Industrial PC
PROCESSOR	Intel® Core™ i5	Intel® Core™ i5	Intel® Core™ i5
HMI	15.6 in, touch operated	15.6 in, touch operated	21.5 in, touch operated
DATA PREPARATION SOFTWARE	Materialise Magics and Modules	Materialise Magics and Modules	Materialise Magics and Modules
DATA PROCESSING SOFTWARE	Ermaksan Build Processor	Ermaksan Build Processor	Ermaksan Build Processor
SUPPORTED FILE TYPES	STL, (3MF, AMF, DAE, FBX, VRML...)	STL, (3MF, AMF, DAE, FBX, VRML...)	STL, (3MF, AMF, DAE, FBX, VRML...)
MACHINE LENGTH (L)	980	1410	2700
MACHINE WIDTH (W)	1120	1400	1460
MACHINE HEIGHT (H)	2000	1880	2040
MACHINE WEIGHT	1000	1250	2500

• All technical specifications can be change without any notice

YOUR PARTNER FOR ADDITIVE MANUFACTURING



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