Applications

Dental

The production of dental parts can be produced more easy and faster than conventional production. Personalized dental elements, bridges, prosthesis and implants can be manufactured with all ENAVISION models.

Medical

Against to the conventional manufacturing methods, the additive manufacturing allows maximum design flexibility. With CoCrMo and Ti6Al4V metal powder, biocompatible and light weight prosthesis can be manufactured.

Research Centers

Many companies submit their projects to the universities and research institutions due to their Theoretical vs Practical experiences. Additive manufacturing technologies have an important place in the triangle of education, research and application in material and process development.

Prototyping

Faster time to market is a significant advantage of AM which allows businesses to adapt rapidly to industry developments, designs, and materials, pivot fast in response to consumer demand and launch new products.

Automotive

A new approach is offered with ENAVISION to overcome the current challenges in automotive industry. The production of high-strength automotive parts and moulds with appropriate material and design can be produced with ENAVISON.

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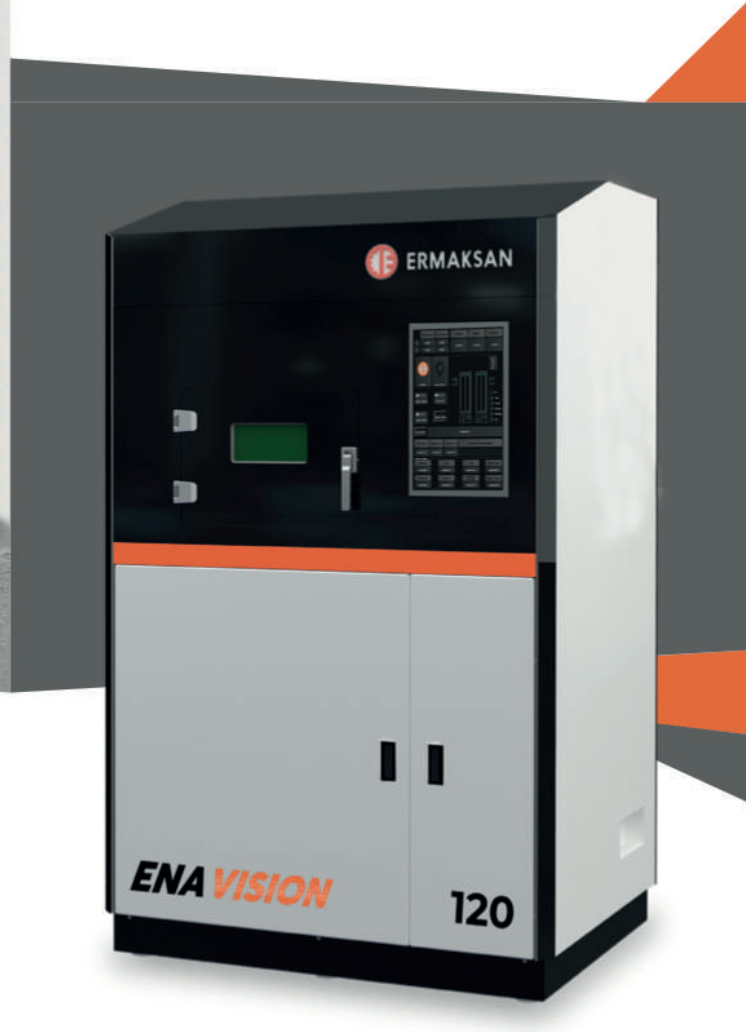


ENAVISION

3D METAL PRINTER

ERMAKSANADDITIVE
THINK 3D

ENAVISION 120

Technical Specification

Production Volume (mm^3)	Ø120x120 | Ø130x130
Adjustable Layer Height	20-100 µm (0,0007-0,004 inch)
Laser Type	Fiber Laser
Laser Power	300W (500W Optional)
Scanning Speed	0-11 m/s (36 ft/s)
Scanning System	Hight Speed Scanning Head F-Theta Lens
Dimension (LxWxH)	1200x900x1980 (47,25x148,15x79,9 inch)
Electrical Connestion (Voltage)	230 V, 1 PH, 50/60 Hz
Electrical Connection (Current)	25 A
Inert Gas	Argon | Nitrogen
0_2 Level	<100 ppm
Vacuum Pomp	Yes
Operating System	Windows 10 / X
Network	Ethernet / Ethercat
Build Plate Preheat	With Laser

Control Unit

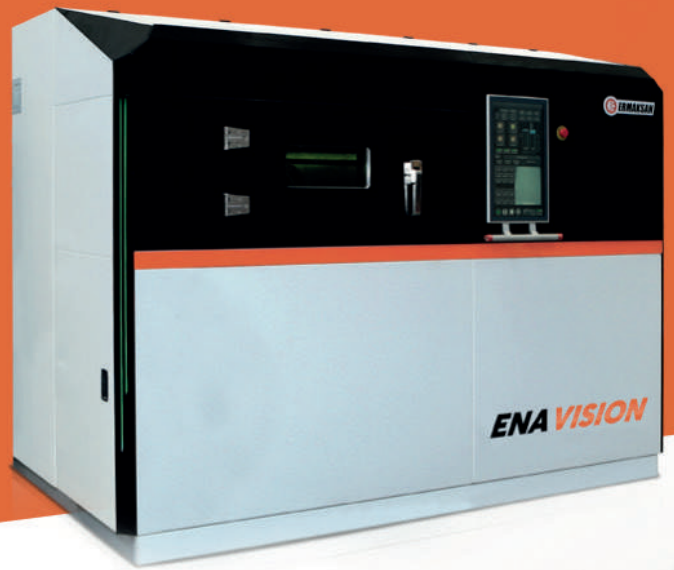
Control System	Beckhoff Industrial PC
Processor	Intel i5-i7
Operating System	Windows 10 | X
HMI	15,6 inch, Touch Operated

Software

Data Preparation Software	Materilliase Magics and Modules
Data Processing Software	Ermaksan Build Processor
Supported Files Types	STL, 3MF, AMF, DAE, FBX, VRML...

ENAVISION

250 | 400



Eco-Friendly

A real eco-friendly product with low energy consumption and low waste of powder.

Ease of Use

ENAVISION 120 has an intuitive man-machine interface that enables ease of use since the first start.

Saving With High ROI

ENAVISION will make you more competitive with high ROI and operating cost. All ENAVISION models help investors to make saving in all industries.

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Design Optimization

Geometry and weight optimization on the part can be obtained without any change of the mechanical specifications of the products.

Low Production Cost

Low unit cost helps saving to produce several parts on the same base-plate.

User-Friendly Interface

Thanks to the ease-of-use interface, the user can operate the machine correctly and keep the process under control.

ENAVISION

800