METAL AM

HAREBOT

3D PRINTERS

DMLS

MetalONE

TECH SPECS

DIMENSIONS:	1050 x 600 x 1500 mm
WEIGHT:	ca 315 kg
Z RESOLUTION:	30 microns
SPOT DIMENSION:	40 microns
LASER:	Fiber (1064nm)
GAS CONSUMPTION:	2.5 l/min
INERT GAS:	Nitrogen-Argon
MINIMUM POWDER LOAD:	800 g
NETWORK	Ethernet

Open parameters

Remote control

Define laser movements with Gcode

Build in camera

Test mode for faster parameter search

Log file

Some values may change for technical reasons

Start a print job in less than 15 minutes

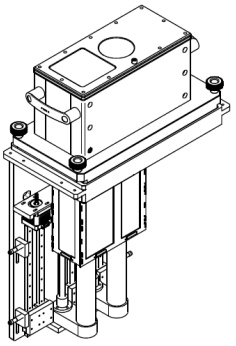
Produce your own alloys

An open system designed for research

CONFIGURE YOUR METALONE

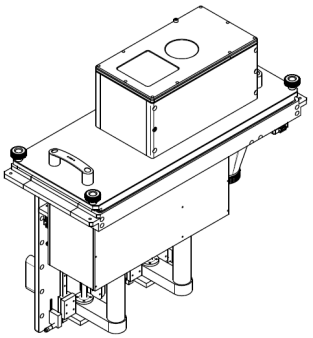
Laboratory size powder distributor

Powder distributor with a printing volume of 65x65x100mm and recoater with silicon blade.



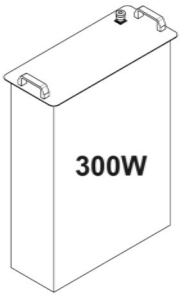
100x100 Powder distributor

Powder distributor with a printing volume of 100x100x100mm and recoater with silicon blade.



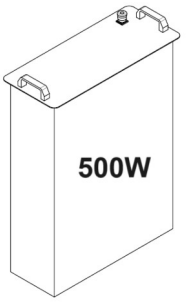
Fiber laser 300W configuration

Our standard laser configuration, with air cooled laser source and optical parts.



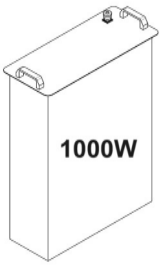
Fiber laser 500W configuration

500W laser configuration with external chiller to cool down the laser source and the optical parts.



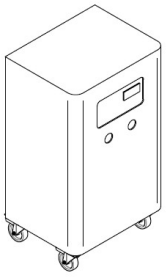
Fiber laser 1000W configuration

1000W laser configuration with external chiller to cool down the laser source and the optical parts. The laser source and optical parts are designed to supply constant energy also in case of high reflective materials.



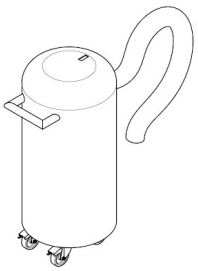
Nitrogen generator for MetalONE

Produce Nitrogen by your own, 99.9% pure Nitrogen at 1.2 Nm^3/h. External air compressor is required.



ATEX vacuum cleaner

Atex Vacuum cleaner with oil inertization chamber.



Special add on

Considering MetalONE a development platform, ask us for specific request to fit your research project!

Resources:

MetalONE CLUB
https://www.sharebot.it/en/sharebot-metalone-club/

Youtube Channel
https://bit.ly/3ijO4a5