

MARS03

Metal Additive Removal System



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Depowdering



Metal

Fully automated depowdering for metal 3D printed parts.

Basic configuration

- Enclosed chamber for safe work
- Air gun for cleaning
- Big window for process monitoring
- LED workspace illumination
- Servo-driven swivel arm, 210° rotation
- Ø 600mm servo-driven rotary table on swivel arm, 0-15 RPM
- Pneumatic vibrator on rotary table
- Butterfly valve operated collection hopper
- 40l powder collection bin on wheels
- 8" Colour touch interface
- Electronic control box for managing all the machine functions
- Safety fixtures for safe manual and automatic operation
- HEPA13 exhaust cartridges
- ATEX certified (Ex protected)

Technical specifications

Dimensions (L x W x H)	2000 mm x 1200 mm x 2250 mm
Workspace size (L x W x H)	850 mm x 900 mm x 1000 mm
Build plate volume (L x W x H)	400 mm x 400 mm x 400 mm
Load capacity	200 kg
Inert gas	Ar, N ₂ , max. 8 bar / 116 PSI
Compressed air (min - max)	6 bar / 87 PSI - 8 bar / 116 PSI
Air Consumption	1000l/min (air), 600l/min (gas)
Power	3 x 230/400V, 3/N/PE 50/60Hz
Weight	1800 kg

Optional

Inert gas infusion system

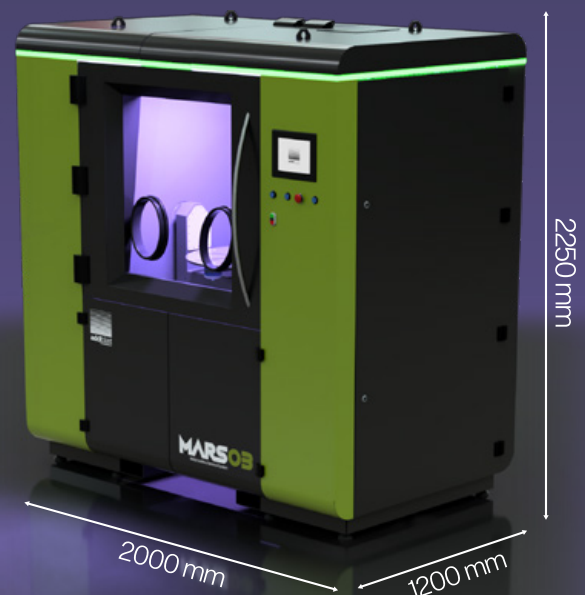
Maintaining Oxygen level in range 4-2% during the operation. Argon or Nitrogen can be used.

Advanced De-powdering System

- Pneumatic knocker
- Electric vibrator
- Blow off nozzles on swivel arm
- Customized clamping on rotary table

Smart Measurement Analytics

- Humidity and temperature measurement
- Inert gas consumption, compressed air consumption
- Electricity consumption
- Frequency/RMS feedback measurement



Post processing, **redefined.**

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