The new SISMA 3D printer
with selective metal powder bed fusion - Laser Metal Fusion.
MYSINT 3D printers are state-of-the-art production solutions, representing the most advanced technology on the market today for the production of three-dimensional metal components. The brand new MYSINT 200, which is designed to best meet the production needs of the industrial sector by also working with reactive metals, offers a maximum printing volume equal to a cylinder with a base diameter of 200 mm and a height of 200 mm.

### Technical data

- **Building volume**: Ø 200 mm x 200 mm
- **Powder loading cylinder**: Ø 200 x 500 mm (250% load factor)
- **Laser source**: 300 W, liquid-cooled / Dual laser available
- **Laser spot**: 55 µm
- **Platform pre-heating**: Up to 200°C
- **Typical layer thickness**: 20-40µm (open parameter)
- **Power supply**: 400v @ 50/60 Hz, 32A
- **O₂ sensor**: 100 ppm
- **Dimensions**: 2200 x 1380 x 2060 mm (L x W x H)
- **Weight**: 3200 kg

### Optional accessories

- MYSINT MULTIPOLE sieving station, melt pool monitoring, powder bed monitoring.

### Materials

- Aluminium alloys, cobalt chrome, nickel alloys, precious metals, steel alloys, titanium.

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**250% load factor**

A powder loading tank large enough to supply up to two and a half times the maximum printable volume.

**Full control**

In the print settings configuration, with any type of metal powder available on the market.

**Optimal density**

A new gas flow management system inside the printing chamber allows optimal density to be obtained over the entire working area, without dirtying the laser protection lens.

- Optional integrated suction system for the transfer of residual powder from the construction cylinder to the recovery container, without the need to use an external unpacking station.
- Optional melt pool monitoring system to analyze the laser beam and verify the actual work quality.
- External powder management system through the MYSINT MULTIPOLE station for automatic sieving, even in an inert atmosphere.

- Two fully overlapping lasers.
- State-of-the-art laser pulse management functions, allowing a better surface finish and reduced stress during construction of the piece.
- Pre-heating of the printing plate up to + 200°C.
- Industrial grade components and control computer, which guarantee greater process stability.
- 2000 hours filter lifetime.