Meltio Product Datasheet

Meltio Engine Robot Integration kit
For Industrial Robots - Hybrid Manufacturing Integration

Turn a robot arm into a metal 3D printing system with no inherent size constraints. It is the perfect platform for large and complex 3D printing, repair, cladding and feature addition.

The Meltio Engine integrates with any robot arm manufacturer and interface on the market. Meltio Space slicer software for robots is compatible with ABB, Kuka, Fanuc, Yaskawa and Siemens.

Engine Blue Integration kit

Engine Blue Integrated on a ABB IRB4600 robot

Technical Specifications

Laser System:	1000 W 9 x 450 nm direct diode lasers	**Print Envelope (WxDxH):**	Depending on robot's reach
Printhead:	Robot Mounted 20.5 to 23 kg	**Feeder System:**	Quad-point traction servo feeders, frictionless liners
Printhead Size (WxDxH):	262 x 272 x 572 mm	**Process Control:**	Melt Pool Camera & Closed-loop wire modulation
Control Unit:	Wall mounted, air-cooled 80.5 kg 600 x 300 x 800 mm	**Power Input:**	200/240 V 3W+PE 380/415 V 3W+N+PE
Human Machine Interface:	Wall mounted 27" tactile screen	**Power Consumption:**	9.2 kW peak 1.0 / 1.4 kW avg cons: 3.93 / 4.56 kW
Cooling:	Water-cooled deposition head. Chiller Included	**Wire Feedstock:**	Diameter: 0.8-1.2 mm / Spool Type: BS300 External wire drum ready
Slicer Software:	Meltio Space 1-year subscription included	**Product Configurations:**	Single or Dual Wire
Integration Requirements:	Requirements Robot	**Compatible Materials:**	Stainless Steels, Carbon Steels, Tool Steels, Nickel Alloys, Titanium, Copper Alloys, Gold alloys and more