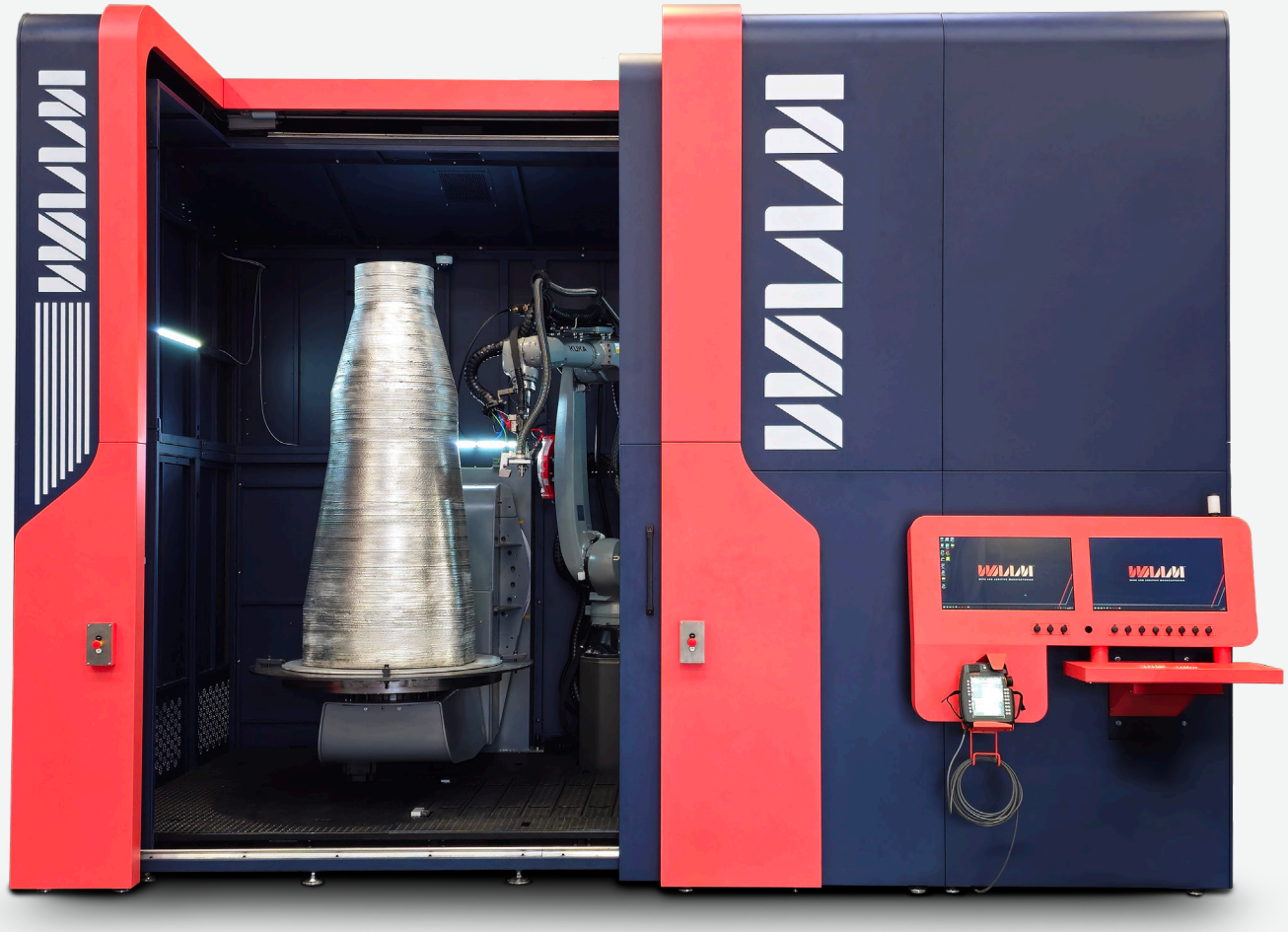
WAAM3D

DATA SHEET

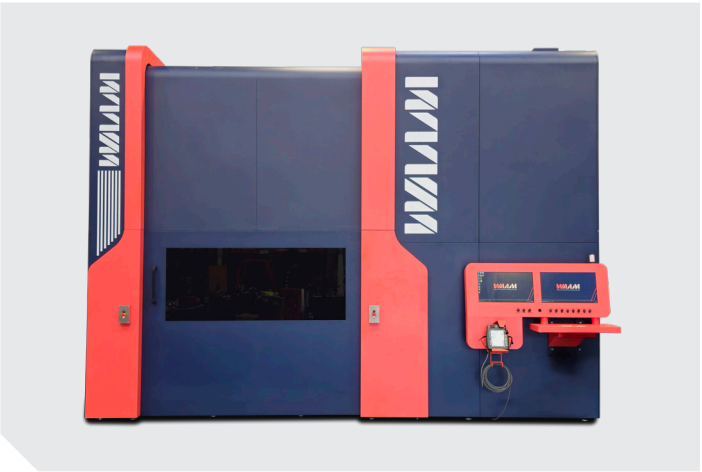


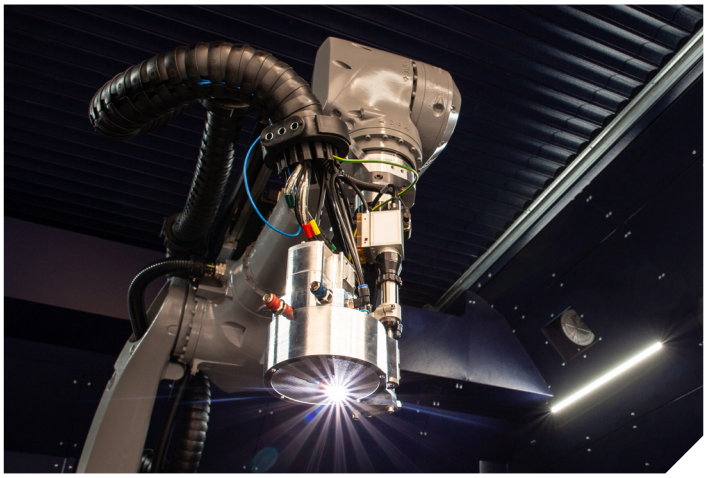
RoboWAAM® Plus - GMA/GMAX

Next generation large format 3D metal additive printing

RoboWAAM® Plus - GMA/GMAX specification:

Technical specification	Details and optional upgrades (marked with *)
Machine size	L5200 x W5800 x H4300 mm
Print envelope	Up to L2000 x W2000 x H2000 mm^3 (configuration dependent)
Control system	KUKA KRC5 with Siemens PLC
Fume management	Local fume extraction *Global fume extraction and filtration
WAAM variant	Gas Metal Arc (GMA) or *Cold-Wire GMA (GMAX)
Welding power source	FRONIUS TPSI *FRONIUS iWAVE
Axes	6 (robotic arm) + 2 (servopositioner)
Materials	Alloys of iron, aluminum, nickel, copper, and others *Multi-material functionality
Rotational table	2.1 tons on rotational table continuous rotation 3.0 tons with tail stock
Sensors	Process camera, Weld sensors *Pyrometer, *IR camera, *Shapetech
Interpass temperature control	Manual wire position control *Auto wire control using images based AI *Auto arc start with interlayer temperature control *Auto layer height correction





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