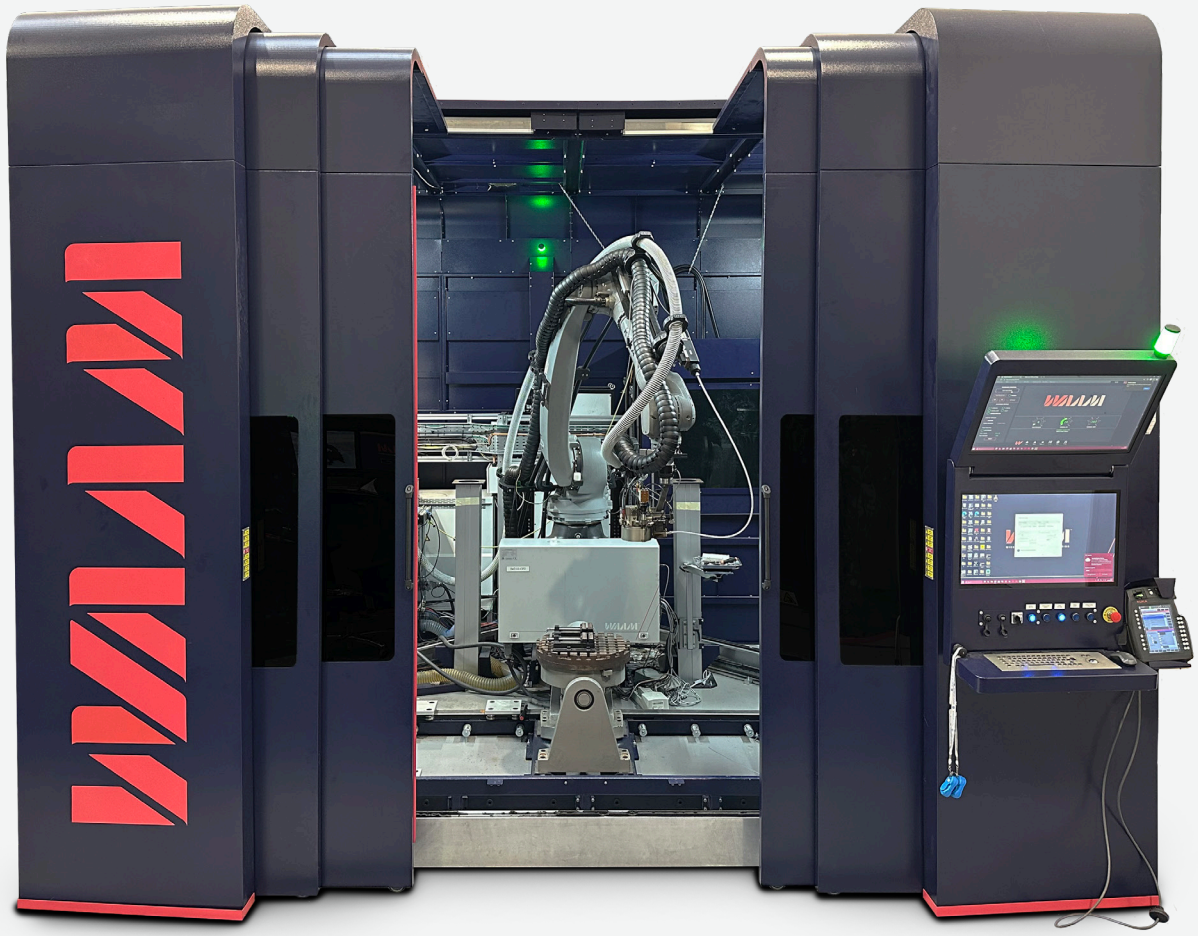
WAAM3D

DATA SHEET

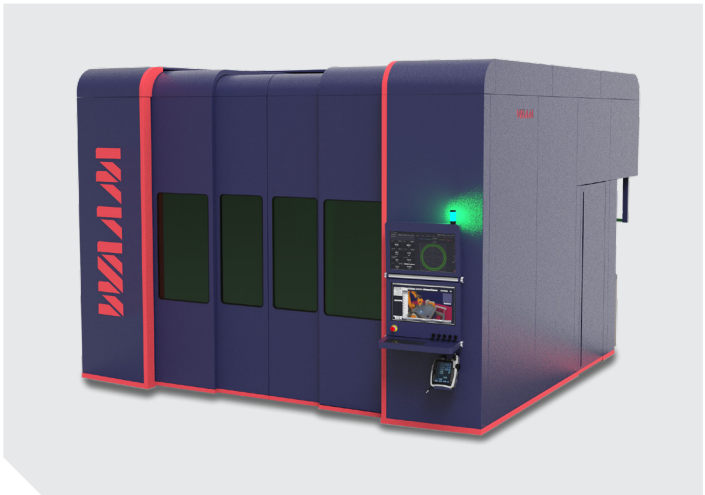


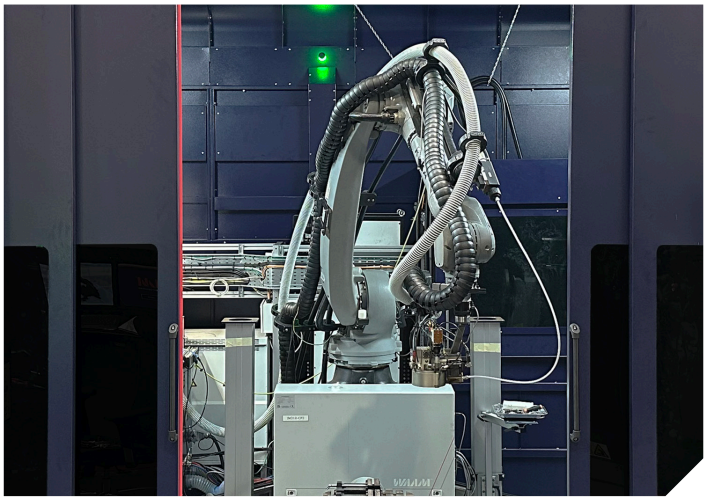
RoboWAAM® PTA/PMAX - GMA/GMAX

Next generation large format 3D metal additive printing

RoboWAAM® PTA/PMAX - GMA/GMAX specification:

Technical specification	Details and optional upgrades (marked with *)
Machine size	L5550 x W4500 x H3565 mm
Print envelope	Up to L1800 x W1200 x H1500 mm^3 (configuration dependent)
Control system	KUKA KRC5 with Siemens PLC
Shielding management	PMAX: Local shielding + *global shielding GMAX: Local / *Global fume management system
WAAM variants	Plasma Transferred Arc (PTA) or *Dual Wire Plasma Transferred Arc (PMAX)
	Gas Metal Arc (GMA) or *Cold-Wire GMA (GMAX)
Welding power sources	PMAX: EWM Tetrix 552 Synergic Plasma
	GMAX: FRONIUS TPSI - *FRONIUS iWAVE
Axes	6 (robotic arm) + 2 (servopositioner)
Materials	PMAX: Titanium alloys, stainless steel, nickel alloys, and others *Multi-material functionality
	GMAX: Alloys of iron, aluminum, nickel, copper, and others *Multi-material functionality
Rotational table	500 kg payload (upgradable to 750kg payload)
Sensors	Process camera, Weld sensors *Pyrometer, *IR camera, *Shapetech
Controls	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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