

Gefertec Arc405



The arc series: 3D Metal Printers for Industrial Manufacturing

The arc series combines the technically mature and proven arc-welding method with the CAD drawings of the product designers and engineers in a completely new production system. Either 3 or 5 motion axes offer maximum flexibility in terms of the component volume and enables the additive production of high-quality metal parts.

INNOVATIVE FEATURES THAT INSPIRE

- Process monitoring via camera
- Machine access at ground level with a sliding working table for easy loading and unloading by crane
- Actively cooled base plate
- Soundproof housing
- Integrated case ventilation and welding fume extraction
- User-friendly control unit
- High-end components of well-known manufacturers

OPTIONAL EQUIPMENT

The arc series offers even more performance for your needs thanks to a range of optional equipment.

- Temperature tracking by integrated Sensortherm pyrometer
- Arc cooling system for local cooling by cooling gas
- Automatic welding torch cleaning system
- Water-cooled inert gas cover for oxygen-sensitive materials

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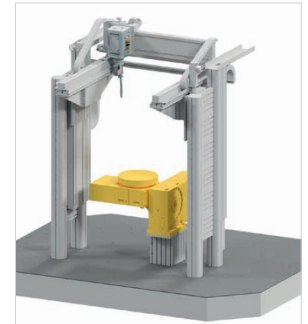
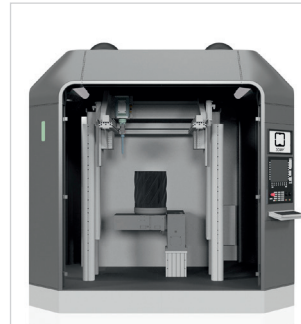
Available in 2 versions

VERSION 1

Max. size of producible parts (ø - z) in inch	15.7 - 19.7
Max. table payload in lb	440.9

VERSION 2

Max. size of producible parts (ø - z) in inch	27.6 - 11.8
Max. table payload in lb	330.7



For both versions:

WORKING SPACE

Travel path (x - y - z) in inch	31.5 - 35.4 - 39.4
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LINEAR AXES

Linear speed (x - y - z) in ft/min	16.4 - 16.4 - 8.2
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COMPONENTS

Power source	Fronius TPS 4000 CMT with wire feed unit VR1550 and Robacta-torch with Fronius Explorer for complete process data acquisition
Control	SIEMENS 840DsI
Interface	HMI via control panel and machine operating panel with additional industrial keyboard and monitor for process observation
Data acquisition	Process data acquisition via an integrated Beckhoff-Industry-PC and graphical user interface for parameter selection and adjustment
Electrical cabinet	2 control cabinet units for measuring and power electronics
Cooling	4 kW cooling capacity

WELDING TABLE

Title	arc405-welding table with integrated cooling system
Max. dimension cooling plate (ø) in inch	15.7
Swiveling range in ° (degree)	-90/5
Rotating range in ° (degree)	360
Rotational speed A-axis in rpm	21
Rotational speed C-axis in rpm	50

ADDITIONAL INFORMATION/LOCAL REQUIREMENTS

Outer machine dimensions (depth x width x height) in inch	90.6 - 118.1 - 122.0
Power connection in A	1 x 63
Compressed air in MPa	1 x 0.6
Weight in lb	11 023.1 (mass with max. part weight)