

GEFERJEC

arc80X

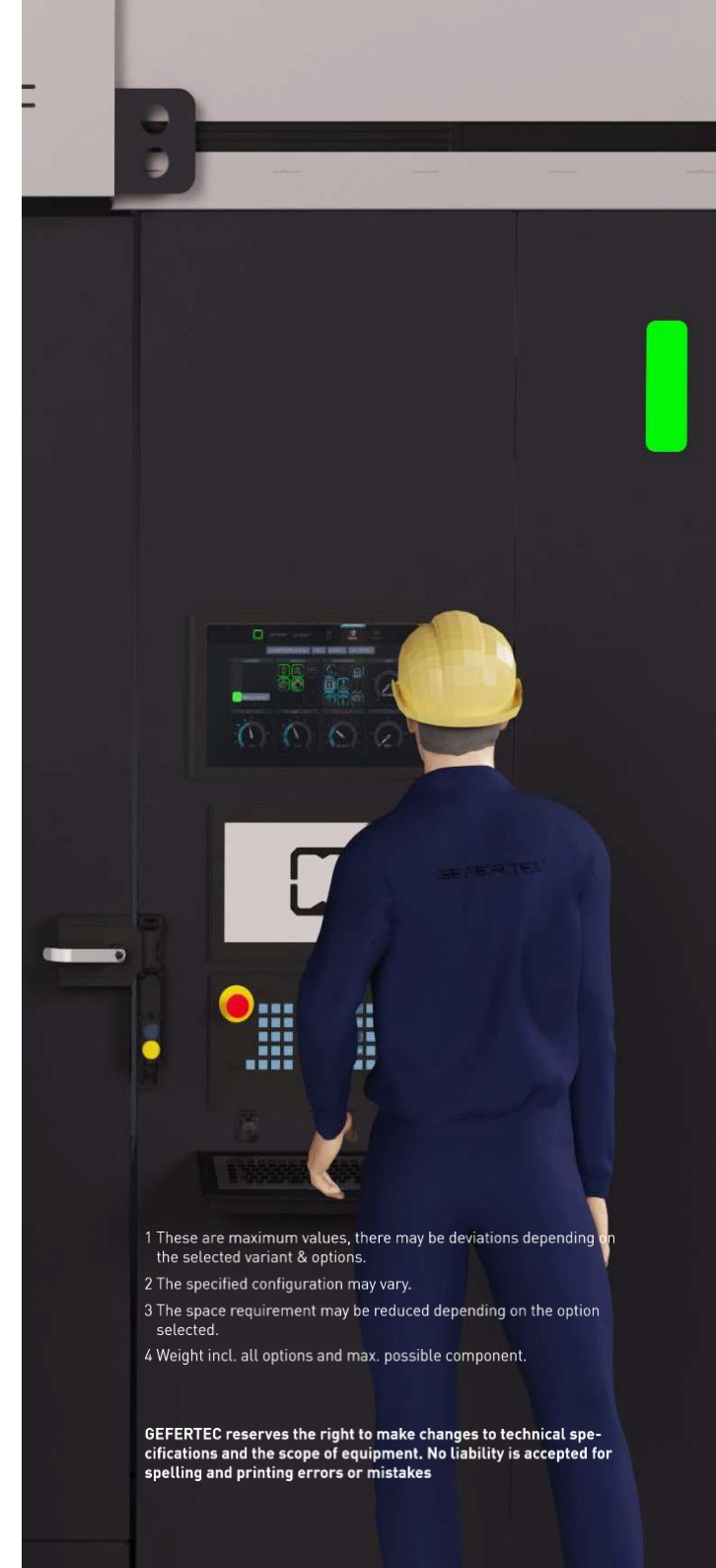
Think Smart | Think BIG | Think WAAM

Additive Manufacturing
of Large Metal Parts



Configuration example 1 | 3-axis option

Working space	
Max. size of producible parts (x - y - z) in mm inch	2000 – 2000 – 2000 78.7 – 78.7 – 78.7 ¹
Linear axes	
Linear speed (x – y – z) in m/min ft/min	15 – 15 – 15 49.2 – 49.2 – 49.2
Components	
Power Source	Fronius TPS 400i PULSE
Control	SIEMENS Sinumerik ONE
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 visualization ²
Electrical cabinet	2 control cabinet units for measuring and power electronics
Cooling	Hydac 4 or 6 kW
Local fume extraction	TBH FP 150
Welding table	
Title	Siegmund ²
Max. table payload in kg lb	8000 17637
Max. dimension welding table width x depth in mm inch	2400 x 2400 95.5 x 95.5
Additional information/Local requirements	
Outer machine dimensions (depth x width x height) in mm inch	5000 x 3500 x 3850 196.9 x 137.8 x 151.6
Space requirement (L x W) in mm inch	7300 x 6800 287 x 267 ³
Power connection in A	1 x 100 Back-up fuse
Compressed air in bar MPa	1 x 6 – 10 1 x 0.6 – 1 (recommended flow 530 l/min)
Weight in t lb	ca. 19 41887.8 (mass with max part weight) ⁴



¹ These are maximum values, there may be deviations depending on the selected variant & options.

² The specified configuration may vary.

³ The space requirement may be reduced depending on the option selected.

⁴ Weight incl. all options and max. possible component.

GEFERTEC reserves the right to make changes to technical specifications and the scope of equipment. No liability is accepted for spelling and printing errors or mistakes

Configuration example 2 | 5-axis option

Working space

Max. size of producible parts (ø – z) in mm | inch 900 – 1400 | 35.4 – 55.1 (A=0°) ¹

Linear axes

Linear speed (x – y – z) in m/min | ft/min 15 – 15 – 15 | 49.2 – 49.2 – 49.2

Components

Power Source	Fronius TPS 400i PULSE
Control	SIEMENS Sinumerik ONE
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 visualization ²
Electrical cabinet	2 control cabinet units for measuring and power electronics
Cooling	Hydac 4 or 6 kW
Local fume extraction	TBH FP 150

Welding table

Title	Peiseler ZAS320
Max. table payload in kg lb	500 1102.3
Max. dimension cooling plate (ø) in mm inch	800 31.5
Swiveling range in ° (degree)	-90/10 ¹
Rotating range in ° (degree)	no limit
Rotational speed A-axis in 1/min rpm	15
Rotational speed C-axis in 1/min rpm	36

Additional information/Local requirements

Outer machine dimensions (depth x width x height) in mm inch	5000 x 3500 x 3850 196.9 x 137.8 x 151.6
Space requirement (L x W) in mm inch	7300 x 6800 287 x 267 ³
Power connection in A	1 x 100 Back-up fuse
Compressed air in bar MPa	1 x 6 – 10 1 x 0.6 – 1 (recommended flow 530 l/min)
Weight in t lb	ca. 12 26455.5 (mass with max part weight) ⁴ unladen weight 11 24250.8

¹ These are maximum values, there may be deviations depending on the selected variant & options.

² The specified configuration may vary.

³ The space requirement may be reduced depending on the option selected.

⁴ Weight incl. all options and max. possible component.



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