

Datasheet – SPS220

Issue 3, 01st June 2021



Technical characteristics

Dimensional data

Size	Input Storage (W x D)	6450 x 4000 mm
	Robots Working Area (W x D)	3000 x 2150 mm
	Output Storage (W x D)	8800 x 4000 mm
	Total (H x W x D)	2500 x 18250 x 4000 mm

Specification

Joint Feeding	Pre-fabricated	Inline plasma cutting	
Pipe Length ¹		from 2 m to 6.1 m	
Pipe Diameter ²		from DN25 to DN200	
Threaded Joints Diameter		from DN15 to DN50	
Non-threaded Joints Diameter		from DN25 to DN125	
Wall Thickness		according to EN 10217-1 EN10216-1 EN10255	
Joints Orientation		0°, 90°, 180°, 270°	
Cycle Time	single pipe with two joints	2 min	3.5 min
Input Storage Capacity	DN65 as reference		up to 30 units
Output Storage Capacity			up to 15 units
Joints Storage Capacity	DN40 as reference		up to 250 units

Power Supply

Voltage	V_{in}	400 V 3-phase 50/60Hz
Current	I_n	63 A

Software

	<i>powered by MetroID Piping</i>	
Input data format	.DXF, .DWG ³ , IFC	
	<i>Customization of specific parametric data upon customer request</i>	

Environment conditions

Working temperature	from -20 °C
---------------------	-------------

¹ Optional from 1.5m

² Optional up to 8 m

³ DXF and DWG formats based on customer drawing data

		to 60 °C
Protection	Electrical Cabinet	IP55
	Control Panel (HMI)	IP64

Control system

Display	Display	21"; 1920 x 1080
	Touch	Multi-touch capacitive
	Processor	Octacore
	System memory	16 GB RAM
	Touch	Multi-touch capacitive
	Storage	128 GB SSD
	Operating System	Windows 10 Pro
	Real Time operating system	CODESYS Control RTE V3

Major hardware

Robot (Welding)	Yaskawa	AR1440 ⁴
	Payload	12kg
	Working range	1140mm
Robot (Cutting and handling)	Yaskawa	AR1440
	Payload	12kg
	Working range	1140mm
External positioner	Yaskawa	TSL 1000
Welding Machine	Fronius	TPSi 400 ⁴
	Processes	Pulse/LSC/PMC ⁵
Plasma Cutting Machine	Hypertherm	PowerMax 45 XP

Additional Features

Production integration	ERP integration
	Custom reporting for production
	Custom reporting for installation
Additional processes	Scribing by deposition of welding material
	Scribing by punching
Software	3D IFC files reading
	Semi-Automatic data extraction from AUTOCAD files

⁴ Information attached

⁵ CMT available on request

Drawings

