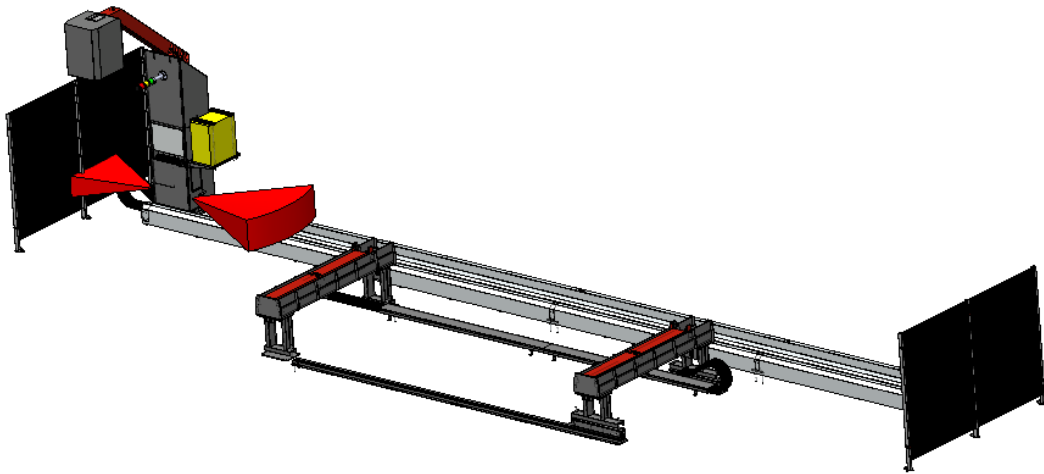


SARKKIS

ROBOTICS



Product Specification

ARS1000

Machine Description

ARS1000 system results from the assembly of the following components (Figure 1): a column with a projection system and a welding machine on board a linear axis; two rotation systems. The result is an assembly system of linear structural steel elements using projected augmented reality.

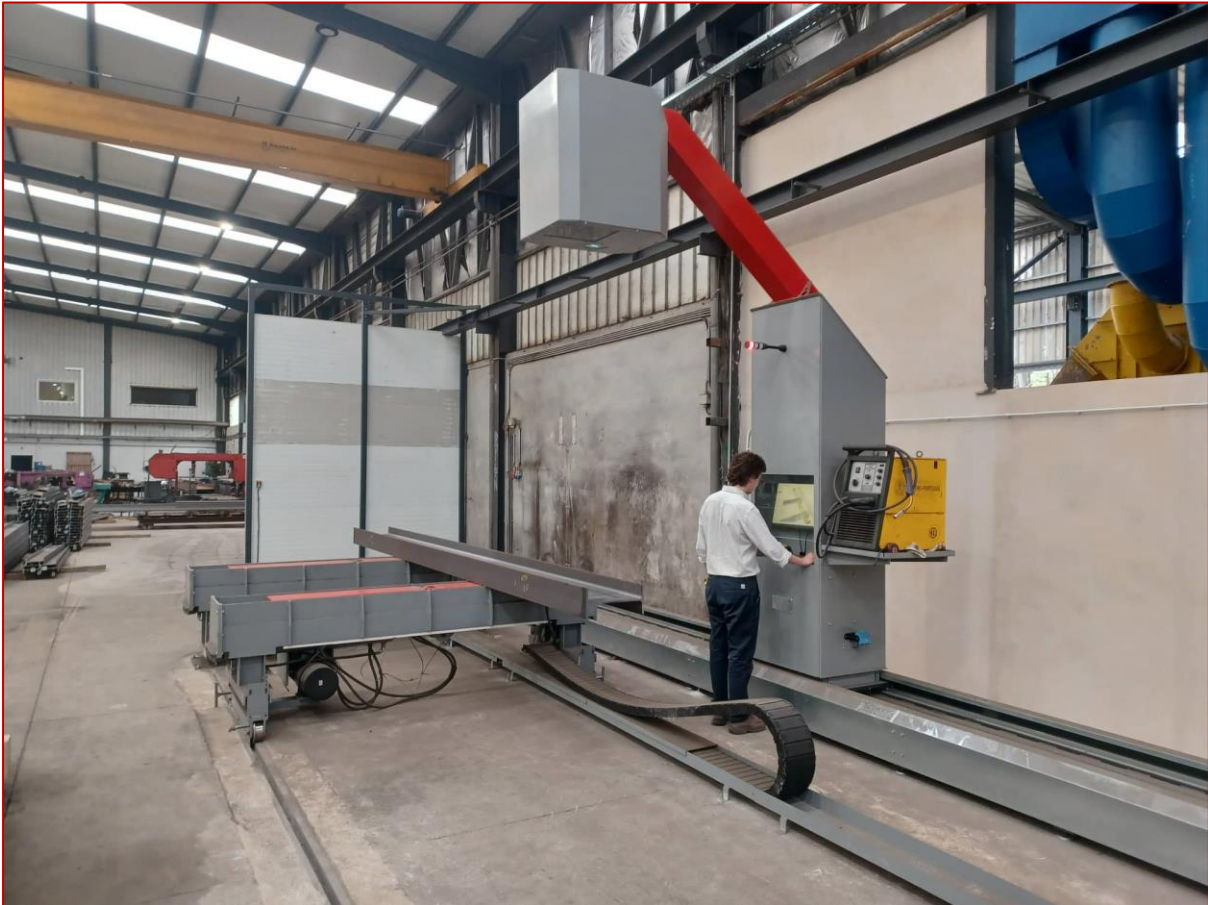


Figure 1 - ARS1000

The machine is controlled by a software developed by SARKKIS:

- **Metroid PrimeASSEMBLY:** This software imports IFC files and organizes the elements into the production assemblies. With help of augmented reality helps the operator to correctly mount the different parts in the main element creating the production assembly. Developed on top of a 3D visualization, the software helps the user along the process of production.

General Specs



Version 1, 21 september 2021

Dimension Data

Dimensions	Work Area (L x W)	16000 x 2000 mm
	Total (H x L x W)	4000 x 18000 x 5000 mm

Specifications

Profile Length	from 2000 mm to 16000 mm
Profile Width	from 200 mm to 1000 mm
Profile Height	from 200 mm to 1000 mm
Projection Area (L x W)	1000 mm x 1000 mm

Electrical Power

Voltage	V _{in}	400 V 3-phase 50/60 Hz
Current	I _n	125 A

Software

File Format	Powered by MetroID PrimeASSEMBLY	
		.IFC
	<i>Custom Parametric data format upon client request</i>	

Environment Restrictions

Working Temperature		from -20 °C to 60 °C
Protection Index	Electrical Cabinet	IP55

Control System

Display	Monitor	19.5"; 1920 x 1080
	Processor	Octacore
	Memory	16 GB RAM
	Storage	128 GB SSD
	Operative System	Windows 10 Pro
	PLC	SIEMENS PLC

Main Equipment

Flippers	Load Capacity	3000 kg
	Work Area	5000 mm
External Axis	Work Area	16000 mm
Welding Machine	CEA	COMPACT 310