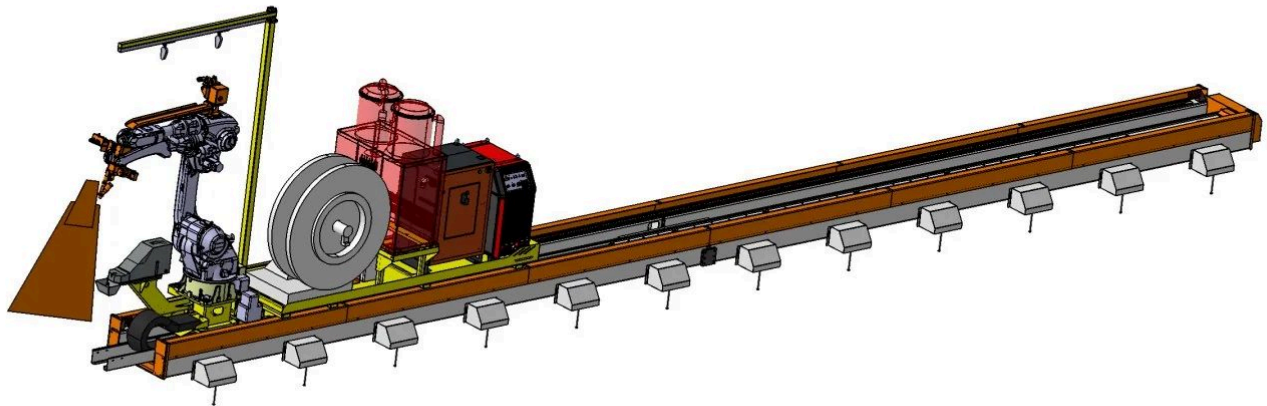


Submerged Arc Welding Robot for Box Columns and H-Beams

Full-penetration welds on box columns and heavy H-sections need root, fill and cap passes. Our rail-mounted submerged arc robot welds all three, following the joint with real-time seam tracking.

Available with a single or twin wire.



The submerged arc station.

Key figures

1,250 A

Submerged arc power source

100%

Duty cycle for long, continuous seams

50 kg

Robot payload for the SAW torch

10 m

Effective travel on the standard 12 m rail

What it welds

- Box columns
- Root, fill and cap passes on full-penetration joints
- Heavy H-sections
- Carbon structural steel

Contact

Send drawings, a model or photos of the parts you want to weld for a free part evaluation.

<https://steelweldingrobot.com/submerged-arc-welding-robot/>
sales@steelweldingrobot.com

Submerged Arc Welding Robot for Box Columns and H-Beams

Specifications

Item	Submerged Arc Welding Robot Station
Welding process	Submerged arc welding (SAW)
Versions	Single-wire or twin-wire
Typical welds	Full-penetration root, fill and cap passes
Workpieces	Box columns and H-sections
Robot payload	50 kg
Robot reach	2,000 mm
Power source	1,250 A, 100% duty cycle, CC and CV modes
Seam tracking	Real-time dynamic tracking throughout welding
Rail length (standard)	12 m
Effective travel (standard)	10 m
Programming	3D model import or reverse modelling; automatic weld extraction, path planning and collision checking
Material	Carbon structural steel

Workflow

- 1 Load the part**
Place the box column or H-section beside the rail.
- 2 Model or scan**
Import the 3D model, or scan the part and let the software build it.
- 3 Plan the passes**
The software extracts the welds, takes parameters from the process library and checks the path for collisions.
- 4 Weld with tracking**
The robot welds root, fill and cap passes while the vision system tracks the seam.

Services

- Free part evaluation
- We reply within one business day.
- Book a live video tour, or visit our plants in China and operate a robot yourself.
- Software updates are free for the life of the station.
- Free Tekla Structures plug-in for batch IFC export

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