

Robotic Welding Systems for Structural Steel

Find a welding robot by the steel part you make: beams, columns, attachments, bridge plates or 3D frames. Compare the layouts and size ranges, then send your part for a free evaluation.



Rail-mounted welding stations in a production hall.

7-Axis Rail-Mounted Robot

For H-beams, columns, crane runway beams and curved beams, with their stiffeners, corbels and cleats.

<https://steelweldingrobot.com/7-axis-rail-mounted-welding-robot/>

8-Axis Cantilever Robot

For bridge plate units, diaphragms and wide stiffened plates, welded from above.

<https://steelweldingrobot.com/8-axis-cantilever-welding-robot/>

9-Axis Cantilever Robot

An inverted cantilever layout that moves the robot along a 9 m rail, 2.5 m across and 2.5 m up and down (standard), for three-dimensional frames and box structures such as equipment frames and transformer tanks.

<https://steelweldingrobot.com/9-axis-cantilever-welding-robot/>

Submerged Arc Station

A rail-mounted station with a 50 kg-payload robot and a 1,250 A submerged arc power source, for full-penetration root, fill and cap passes on box columns and H-sections. Single-wire and twin-wire versions.

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

Contact

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

<https://steelweldingrobot.com/welding-robots/>
sales@steelweldingrobot.com

Which Robot Welds Which Parts?

Robot Layout	Typical Parts	Size Range
7-Axis Rail-Mounted Robot	H-beam columns, roof beams and crane girders	Up to 1,500 mm wide; stiffeners up to 600 mm high
8-Axis Cantilever Robot	Bridge plate units and diaphragms	Up to 3,500 mm wide; stiffeners up to 600 mm high
9-Axis Cantilever Robot	3D frames and box-shaped parts	Up to 3,500 mm wide and 2,000 mm high
Submerged Arc Station	Long full-penetration seams on box columns and H-sections	12 m rail; 10 m effective travel

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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