PRIMO

ULTIMATE WELDING SOLUTIONS

AUTOMATIC H-BEAM WELDER

For the
Pre-Engineered Buildings Industry

Survey No. 500/5, 6, 7 & 8, Amarambedu,
Kundrathur Post, Chennai – 600069,
Tamil Nadu, India
Phone – (+91) 9444036595
(+91) 9840961830
Website: www.primoautomation.com
Mail: marketing@primoautomation.com

AUTOMATIC STEEL H-BEAM WELDER
EVOLVED for the Pre-Engineered Buildings Industry

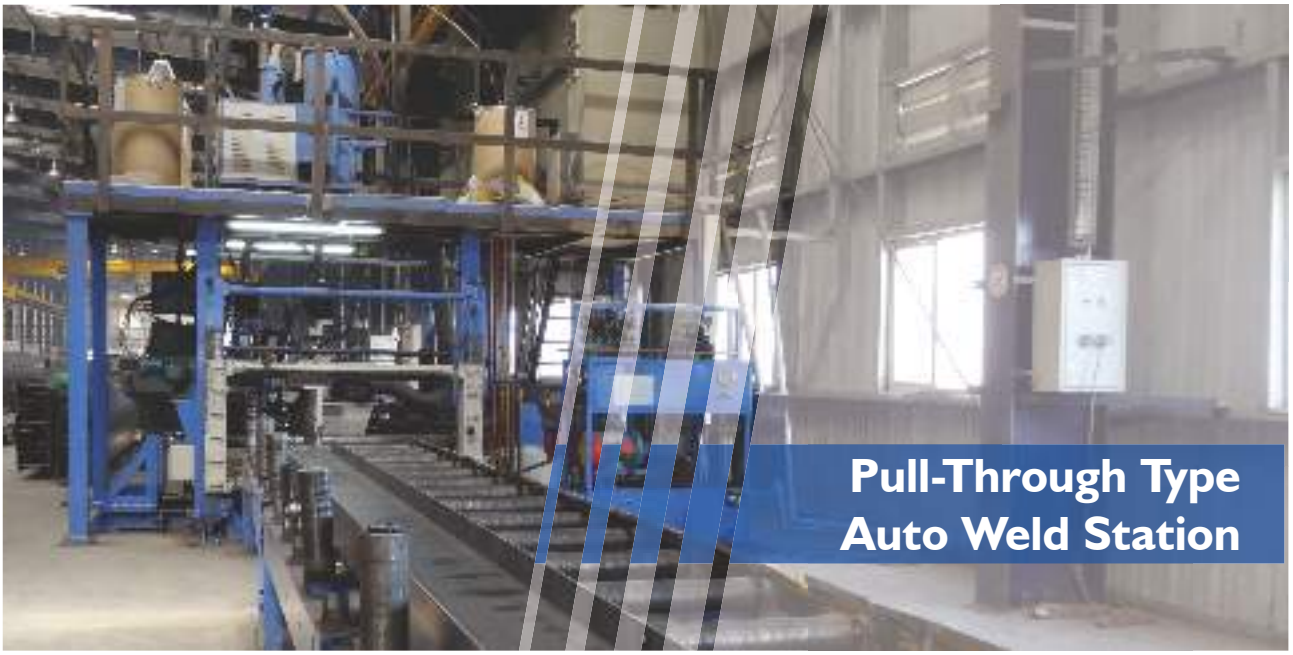
Primo's Beam welding equipment has the following modules namely :

a. **PULL-THROUGH TYPE AUTO WELD STATION**

b. **BEAM ASSEMBLY AND TACK WELD STATION**

c. **WEB SPLICE WELD STATION**

Machine Components:



- The Pull-Through Welder is the back-bone of the ABW machine. It consists of Beam Driving Rollers, Powerful Hydraulics, Modules for Submerged-Arc Welding as well as a Flux Recovery System
- The speeds of the in-feed conveyor, out-feed conveyor and pull-thro rollers are electronically synchronized
- Equipment is designed with two welding heads to weld on both the joints on top of the H-beam simultaneously
- Equipment has a movable, clamping + driving head, that also swivels by +/- 15 degrees, permitting welding of beams of different shapes
- A unique rotary current collection system is provided to remove the returning weld current away from the weld zone
- A special copper surface is also provided with the roller that protects against weld blow-throughs, especially when dealing with thin beams

Beam Assembly and Tack Weld Station

- The Beam Assembly and Tack Weld station is designed to assemble the web and the flanges into a “H” shape in order to establish a manual “Pilot” tack weld. Once this pilot tack is welded, the beams are fed into the Pull-Through module
- The Beam Assembly and Tack Weld station is equipped with hydraulically - operated Web lifters, Edge aligners and Clamping assemblies
- This station can tilt the flanges from horizontal to vertical position, for thickness upto 16mm. For thicknesses beyond 16mm, the beam needs to be supported manually or by shop crane, during the tilting process

Web Splice Weld Station

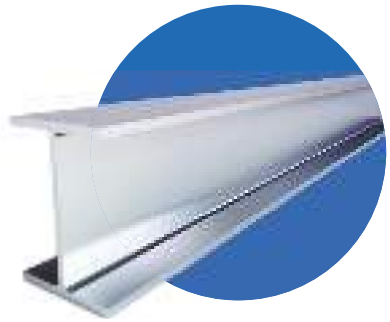
- The Splice Welder is designed to butt weld, the shorter steel sheets to get the required length
- It has a side beam carriage with torch mounting head
- It is provided with pneumatically-operated copper clamping fingers for holding the plates
- It is provided with a hydraulically actuated sheet edge aligner
- The clamping fingers and the flux recovery systems are operated pneumatically

Model Specifications:

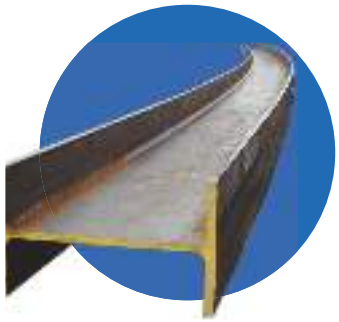
Model	ABW - 2100	ABW - 1850	ABW - 1500	ABW - 1200	ABW - 1000
Web Thickness	4-16 mm	4-16 mm	4-12 mm	4-12 mm	4-10 mm
Web Width	250-2100 mm	250-1850 mm	250-1500 mm	250-1200 mm	250-1000 mm
Web Taper	15 Degrees	15 Degrees	15 Degrees	15 Degrees	15 Degrees
Flange Thickness	5-25 mm	5-25 mm	5-20 mm	5-20 mm	5-16 mm
Flange Height	100-500 rpm	100-500 rpm	100-450 rpm	100-400 rpm	100-400 rpm
Beam Length	2.5-13 meters	2.5-13 meters	2.5-13 meters	2.5-13 meters	2.5-13 meters
Weld Fillet Size	4-8 mm	4-8 mm	4-8 mm	4-8 mm	4-8 mm
Welding Speed	0.5 - 3 M/min	0.5 - 3 M/min	0.5 - 3 M/min	0.5 - 3 M/min	0.5 - 3 M/min
Conveyor Speed	10 M/min	10 M/min	10 M/min	10 M/min	10 M/min

Types of Profiles:

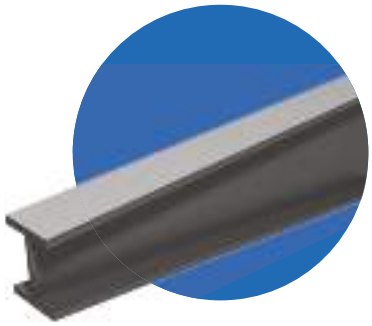
Given types of Beam Profiles can be welded on Primo Automation beam welding equipment.



Parallel Beam



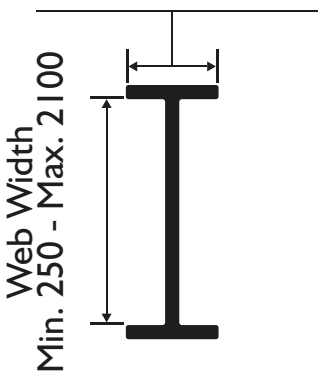
Curved Beam



Taper Beam

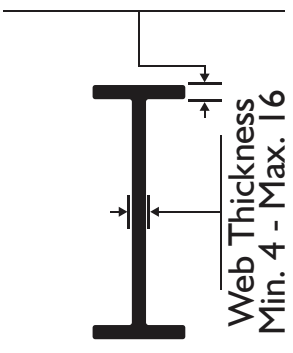
Width

Flange Width
Min. 100 - Max. 500



Thickness

FlangeThickness
Min. 5 - Max. 25



The Primo Advantage:

- **Experience:** Manufacturing H-beam welding machines since 1999.
- **Customer base:** Over 40 customers in 5 countries using 53 machines.
- **Flexibility:** Whether it's a Parallel or Tapered or Double Taper Or Curved shape, Primo machine is flexible enough to handle them all for you.
- **Reliability:** We have a proven track-record of servicing clients all over the globe, many of whom have purchased multiple ABW lines from us as their production needs increased.
- **Volume Advantage:** With our customers producing about 25000 tons of welded H-beams every single month, we enjoy huge exposure and customer feedback advantage.
- **Technology:** Our continuous R&D and Improvement efforts have ensured that the machine is always up to date in technology.
- **Minimal Investment:** You'll be hard-pressed to find equivalent machines that offer all the features and services that we offer, at our prices. Further, we invite you to start with our basic line and expand as your production needs increase. Our machines have a modular design that allows for future expansion.
- **Customer Support:** We have a very responsive and highly trained customer support team which will support the client all through installation and commissioning. They are also eager to help the client with any remote troubleshooting.
- **Hand Holding:** Our service engineers will train your employees on how to use the machine and will stick with your team, until production is complete for the first 100 beams!

When you buy a **Primo Beam Welding Machine**, you are investing on the most **Up-To-Date, Flexible, Scalable, Reliable, Proven** machine that more than 40 customers are already enjoying.

Scale As You Grow!

Our customers generally choose to start with the **2-in-one configuration** that includes a Tack Welder that feeds into the Pull-Through Welder directly (without a conveyor between them). This occupies only 30 meters of length and is capable of producing up to **500 tons of welded steel per month**.

As production needs grow, you can add 4 additional conveyor modules between the Tack Welder and the Pull-Through Welder and **improve production by 50%** at a marginal invesment! For even higher production needs, customers may also opt for our full-line which includes the Splice Welder and boasts a production capability of **up to 1000 tons of steel beams per month**.

This feature of Primo's ABW line allows our customers to **optimize their investment with production needs**.

Equipment We Supply:

- Pull-Through Welder
- Conveyors
- Welding Power Sources
- Tack Welder
- Flange Tilters (optional)
- Splice Welder (optional)
- Hydraulic Power Pack
- Other Accessories

Some Esteemed Clients:

And many more...

Primo Automation Systems Pvt. Ltd.

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