



Configurations

BM48




✓ 1 working zone
✓ Without rotators

BM48R



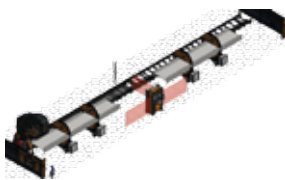
✓ 1 working zone
✓ With rotators

BM48R₂



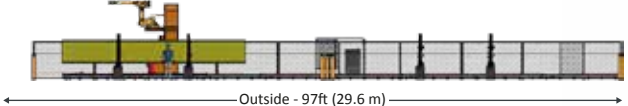
✓ 2 working zones
✓ With rotators

BM60R₂



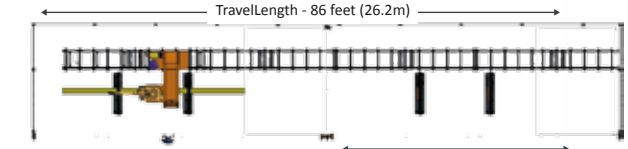
✓ 2 working zones
✓ With rotators

48" configuration



Outside - 97ft (29.6 m)

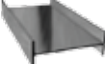

Height 12ft (3.7m)



TravelLength - 86 feet (26.2m)

Width 16ft (4.9m)

Optimized production length 33ft (10.0m)

W Beam			Imperial	Metric
	Section	Min.	W6 x 14	W150 x 22
		Max.	W48	W1220
	Length	Min.	12ft	3.62m
		Max.	80ft	24.4m
HSS closed rectangular column				
	Section	Min.	6" x 6" x 0.188	152x152x4.8mm
		Max.	20" x 20"	558x558mm
	Length	Min.	12ft	3.65m
		Max.	80ft	24.4m

Also supported:

- ✓ Tapered Beam
- ✓ Fabricated Beam
- ✓ Any other section that fit in the zone

Welding Specifications



Typical welding speed - Fillet welds (2F)	17 inches/min for 1/4" weld	(7mm/s) for 6.4mm fillet weld
	22 inches/min for 3/16" weld	(9mm/s) for 6.4mm fillet weld
Gap tolerances	No gap detection (Maximum gap 1mm)	
Joint detection	Laser Touch Sensing	
Process and position	MCAW - Spray and pulse transfer - Horizontal (2F)	
Wire classification	AWS A5.18, A5.18M: E70C-6M H4 / CSA W48-06: E491C-6MJ-H4	
Shielding gas	90%Ar-10%CO2 mix	
Surface finish	All parts and beam must be clean with low scale level	
Weld types	Fillet welds	
Weld sizes produce	3/16" to 3/8" (4.8mm to 10.0mm)	
Welding paths	Linear	
Welding progression	Continuous and stitch (The stitch weld variables must be defined in the 3D model)	
Number of passes	1-3 (single pass up to 8mm)	



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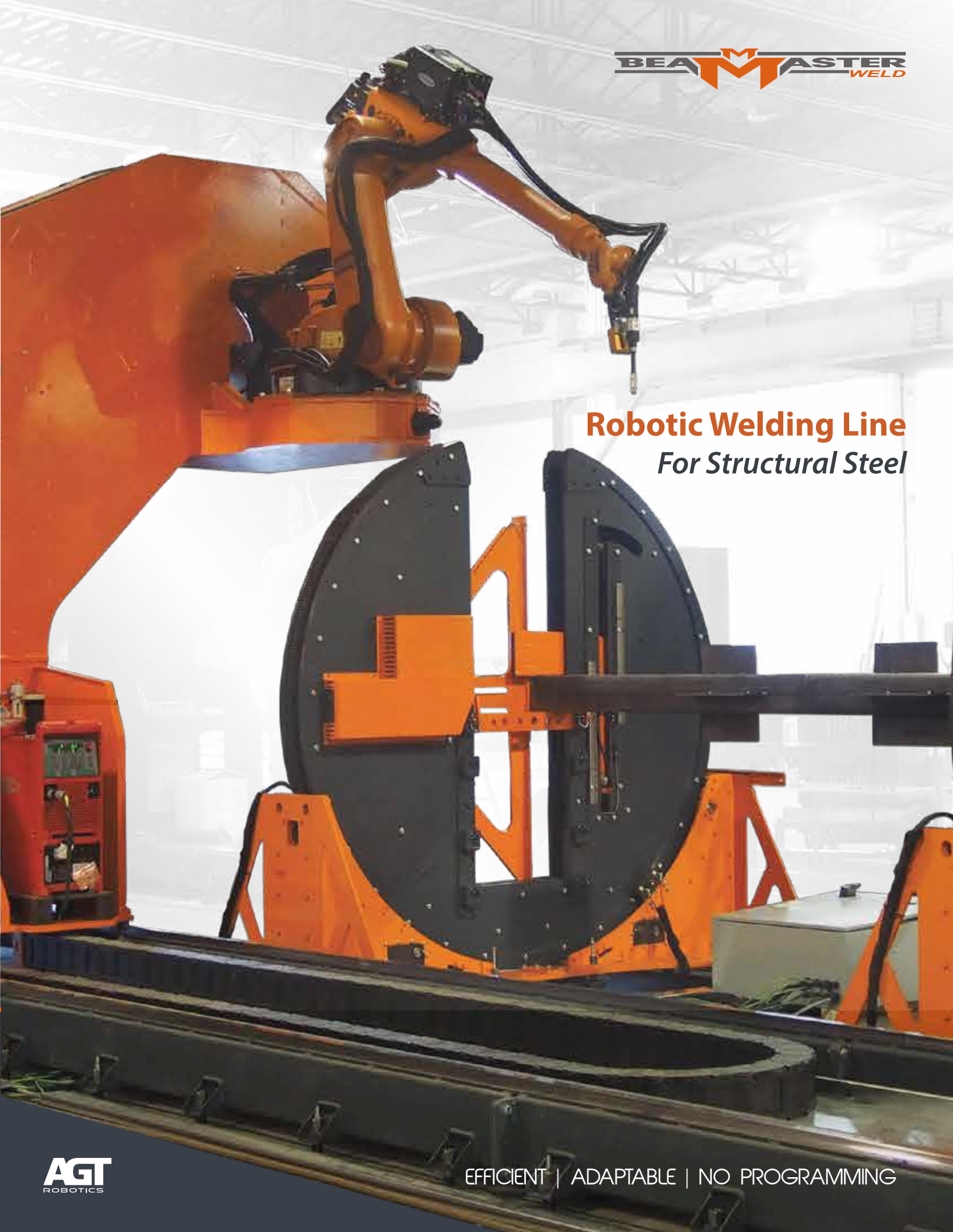
WATCH THE VIDEO



EFFICIENT | ADAPTABLE | NO PROGRAMMING



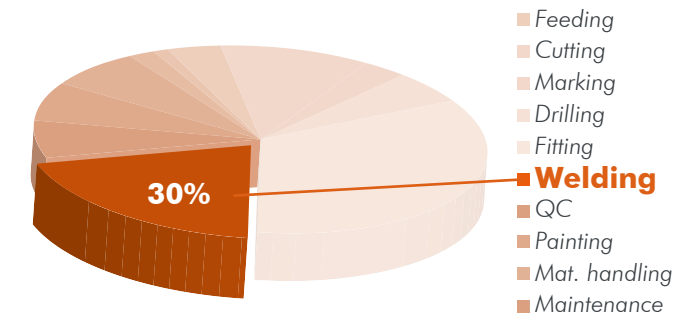
Robotic Welding Line
For Structural Steel



Why automate your plant?

The typical steel fabrication shop will **spend up to 30%** of the entire shop fabrication time on **welding operations**. Along with fitting, it's the **most labour intensive operation** of the entire fabrication process.

Have you invested in automated equipment for beam and part preparation? **it's now time** to bring your shop to the next phase: **Robotic Welding**.



Increase Production
Automated production flow from CAD to production.

Consistent Quality
Robotic brings high-quality and repetitive results.

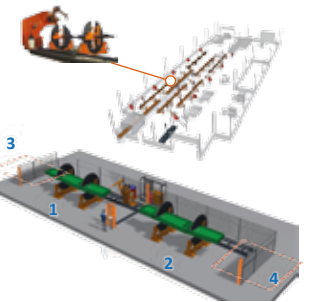
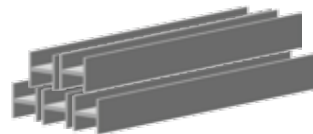
Automatic
No more labour shortage. Reassign current welders to complex tasks.

Easy Implementation
Small foot print with a modular design.

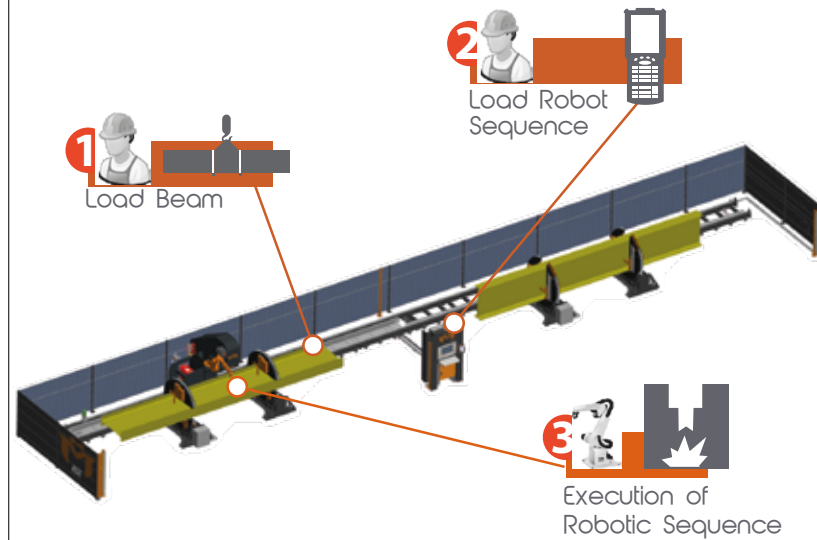
Flexible
Modular configurations. One or two zone operation. With or without rotators. Third and fourth station can be setup to be used for sub-assemblies

Adaptable
Works with non-perfect parts. Welding program is offsert to adjust to fitting tolerances. Joints are found by laser touch

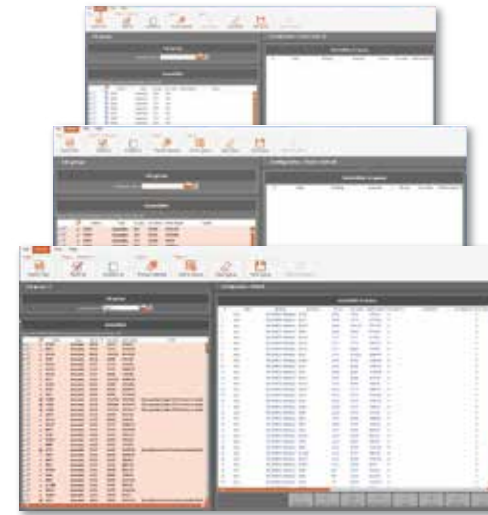
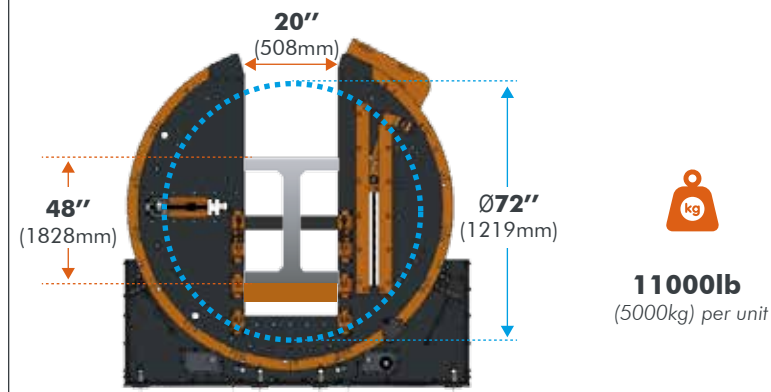
Support
On-Site technical support. Offline 24h technical support.



Operation Mode: 3 Easy Steps



Highly Efficient Rotators



go.export

go.weld

- Generate welds

go.toolpath

- Generate paths for the welding tool

go.robotpath

- Generate paths for the robot arm

go.sequence

- Generate the welding sequences

go.report

Yes

100% Success

No

No

Need Correction



OCTOPUS



Productivity x2

While the robot is busy welding in one zone, an operator can safely fit, tack and flip in the other zone.



Reliable Welding Robot

Robots were designed to work in harsh conditions for years with minimal maintenance.

Safe Operations

Laser curtains ensure a safe working environment for the operators.



Be in control

An easy-to-use interface is provided to build production lists and monitor the equipment performance.

Efficient Rotating Units

Automatic beam flippers ensure maximized productivity.