

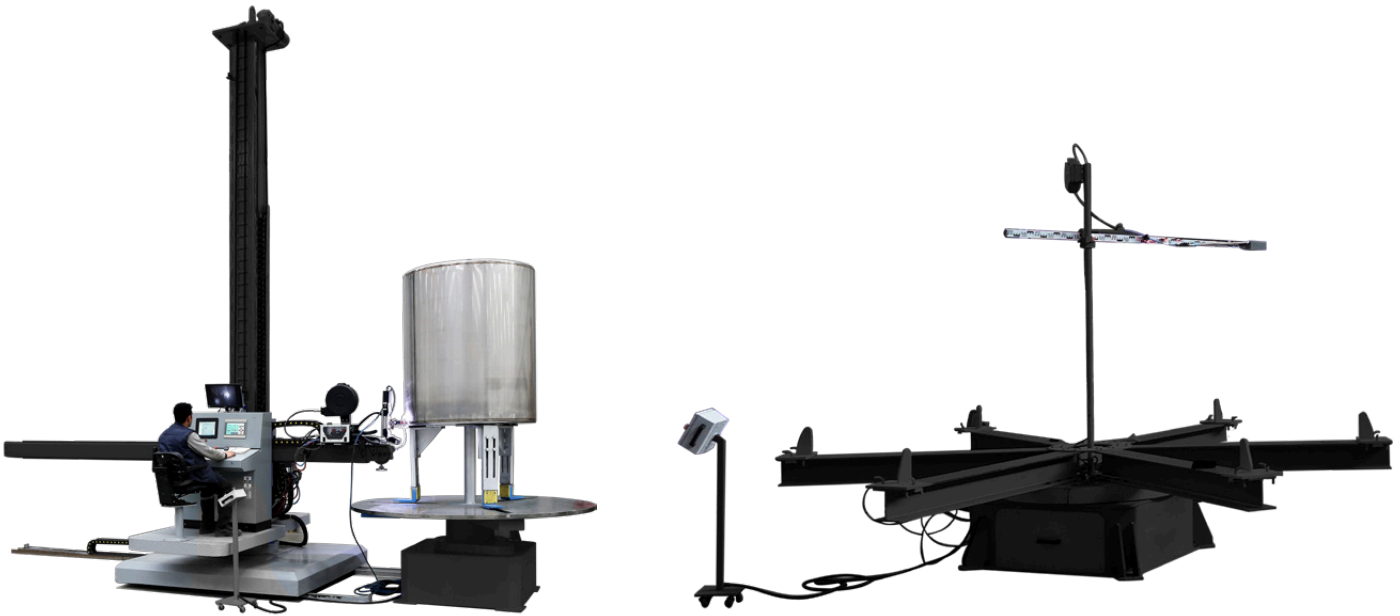
## ■ Column & Booms

Promotech manufactures wide range of welding automation machines.

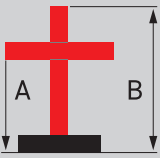
Column&Booms are available in several standard or custom made versions.

Depending on the type Column&Booms can be fitted with SAW SINGLE OR TANDEM, MIG/MAG, TIG or PLASMA.





Sample view of Promotech CB TIG/MIG and intergrated rotating table.

		2X2	3X3	4X4	5X5	6X6	7X7	SPEED			
VERTICAL STROKE (mm)		2200	3200	4200	5200	6200	7200	ARM SPEED	TRAVEL SPEED	LIFTING SPEED	
B' HORIZONTAL STROKE (mm)		2350	3350	4350	5350	6350	7350	cm/min	cm/min	cm/min	
<b>A' MAXI. LOAD AT THE END OF THE ARM (KG)</b> 	SN-MDS	A	250	250	200	180	150	***	20-200	10-200	200
	SN-MDT	A	175	175	150	130	120	***	20-200	10-200	200
	MDS	A	200	200	200	***	***	***	20-200	10-200	200
	MDT	A	200	200	200	***	***	***	20-200	10-200	200
	HDS	A	***	***	425	425	425	425	20-200	10-200	200
	HDT	A	***	***	425	425	425	425	20-200	10-200	200

Standard range of CB available for TIG/PLASMA/MIG-MAG and SAW Single or Tandem welding heads.

## WHAT IS ARC CONTROL?

The automatic arc length tracking system integrated called „arc control” control the height from workpiece joint to the welding tip.

## PURPOSES

It's used for Circular or elliptical geometry, tank and pressure vessels, etc.

## HOW DOES IT WORK

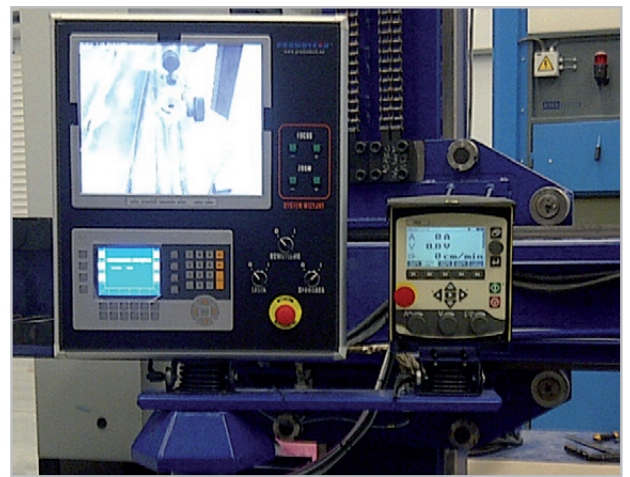
The current and voltage information (2 million data per second) obtained from the welding machine that is suitable for automation and to work with PLC. The welding torch is fixed to the precision linear axis, motors located at the boom end allows the welding seam to be made according to the highest standards!

## ADVANTAGES

- Allows to create welded connections by minimizing the welding defects rate.
- Eliminates the problem of full penetration in welded joints.
- Allows to make welded connections according to WPS.
- Eliminates welding defects due to the constant arc length during welding process.



Sample view of CB operating panel and integrated SAW ACDC welding equipment from (Lincoln Electric and ESAB)



Sample view of CB operating panel and integrated MIG-MAG welding equipment from (ESAB and LORCH)



Welding process START/STOP available from one C&B control operating panel.



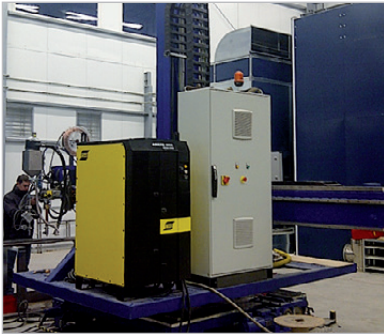
Optional equipment include: camera system for GMAW/SAW, automatic joint tracking system, flux handling equipment, fume extraction, welding rotators, positioners and turntables.

All our Column&Booms are equipped with passive safety systems such as safety chains, automatic brakes on a gear motor in case of power failure.  
Active safety systems such as limit switches to prevent collisions are also standard.



## Standard and customized CB by sample succesfull deliveries

Applications for welding of long structural beams of closed profile, beams type T, H, HSI, HSQ with web height up to 1500 mm and the inside/outside welding of tanks, pressure vessels.



Sample FAT at Promotech's factory in Poland.

Optional equipment: welding positioners and rotators available from Promotech



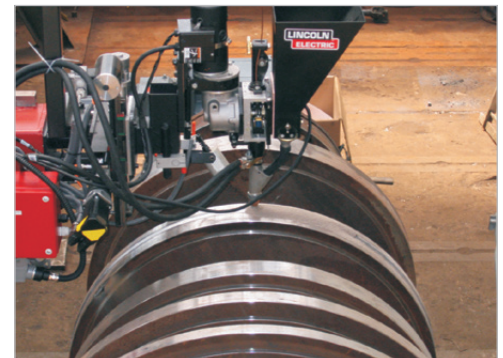
Customized applications delivered to our Clients



ABM-50 for high-quality single and double-sided bevels



CB TIG/MIG-MAG and SAW READY



Hard-surfacing of turbines

Column&Boom can be integrated with other equipment working in the system such as roller beds or other welding positioners.

Column & Booms can be customized according to customer preferences.



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