

PROMOTECH[®]

AUTOMATION

CB WELDING (TIG/PLASMA/MIG/SAW)



3D PROFILE CUTTING



GANTRY WELDING SYSTEMS



3D CUTTING & WELDING (SAW)



*Industrial
Solutions*

CUTTING & WELDING

PROMOTECH

PIPE PROFILE CUTTING MACHINE

PPCM 1500

www.promotech.eu



CUTTING & WELDING

pages
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www.promotech.eu

PROMOTECH – PROFESSIONAL MANUFACTURER OF PREMIUM MACHINES FOR METALWORKING INDUSTRY

Promotech is an innovation driven ISO 9001:2015 manufacturer of professional power tools, welding automation equipment and industrial systems tailored for structural steel fabricators, heavy machinery manufacturers, shipyards and other metal machining companies.

Main product lines:

- mag drills, pneumatic drills, rail drills and hydraulic punchers
- weld preparation/portable and stationary bevellers for plates and pipes
- welding and cutting tractors
- welding and cutting automation equipment

Our products:

- offer solutions to reduce cost and increase productivity
- are designed and engineered for long term use in tough industrial conditions
- meet the requirements of the most demanding clients and markets worldwide
- are made in Poland according to the highest quality standards
- include top quality components
- are thoroughly tested for quality approval
- proved to be extremely reliable with a variety of practical applications in most difficult climatic environments



Mitglied im DVS – Deutscher Verband für Schweißen und verwandte Verfahren e. V.



FOLLOW US FOR UPDATE AND MORE

CUTTING AND WELDING AUTOMATION



COLUMN & BOOMS



GWS WA 1500 HD / WA 2000 HD & MULTI AXIS JOIN TRACKING SYSTEM

PIPE PROFILE CUTTING MACHINE



PPCM 650



PPCM 1250



PPCM 1500



MCM-1000/4000 5 AXIS PORTABLE CNC CUTTING AND WELDING MACHINE



JTS - AUTOMATIC JOINT TRACKING SYSTEM (STAND ALONE)

All information is subject to change without notice 24-02

COLUMN&BOOMS

Promotech manufactures wide range of customized Column&Booms.

Depends on the request Column&Booms will be delivered with SAW SINGLE OR TANDEM, MIG/MAG, TIG or PLASMA welding head and selected optional items like welding positioners, rotators, fit up bed rollers/turning rolls.

24 months extended warranty.



CRYOGENIC
TANK



QUALITY CHECK
- NO WELDING
DEFECTS



MIG WELDING

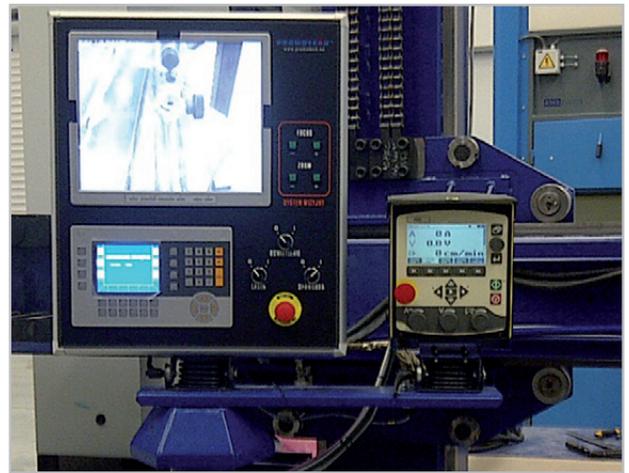


TIG WELDING





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 views of C&B workstations.

Optional equipment: welding positioners and rotators available from PromotechAutomation



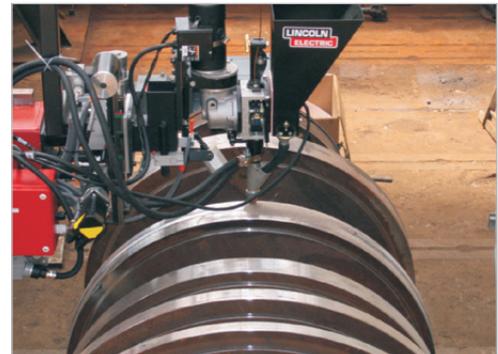
Customized applications delivered to our Clients by sample



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 individual Client request.

GWS WA SD/HD | MIG-MAG / SAW

Automatic longitudinal top quality MIG-MAG or SAW welding of long structural Box beams and H, I, T, HKS, HSQ also automotive chassis for long truck/train beams.

Single or multi-pass automatic fillet/butt welding with mechanical-electro joint tracking system.

Minimized welding defect&reduced non-productive time and it's **One-man operation!**



GWS type WA TWIN MIG (Hyperfill)

Your benefits:

- Automatic fillet and butt welding with joint tracking
- Multipass welding
- One-man operation
- Reduction of costly over-welding and decrease in filler metal usage
- User friendly interface – multiple languages
- Accepts most of MIG-MAG and SAW welding power sources
- 24 months extended warranty



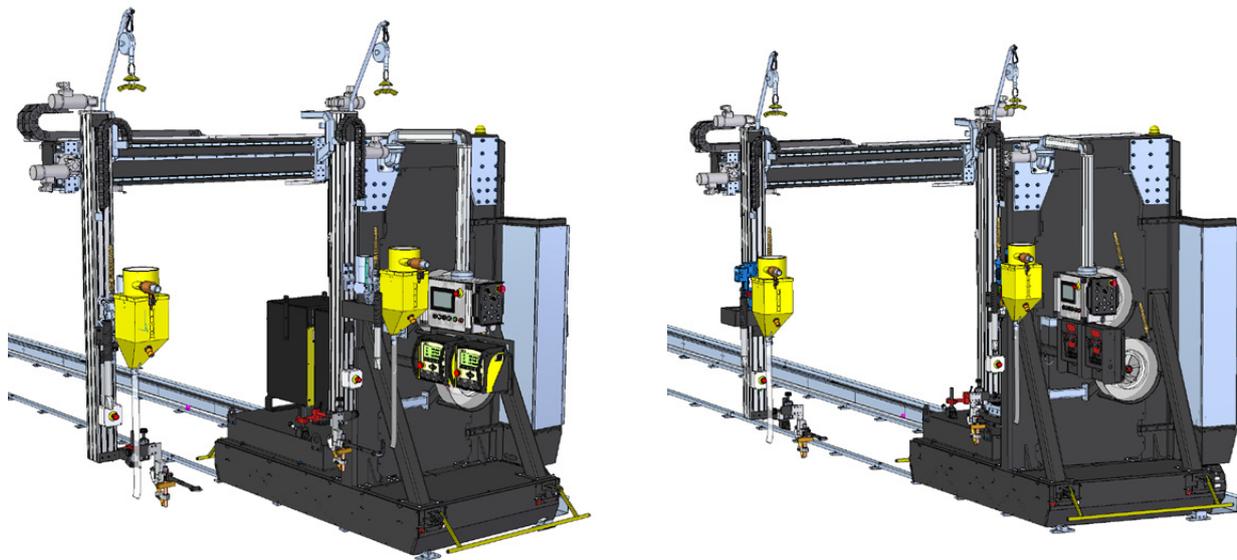
Promotech automatic mechanical-electro joint tracking ensure proper and repeatable torch positioning / welding process.

TECHNICAL SPECIFICATIONS FOR GWS TYPE WA 1500 HD / WA 2000 HD	
Length of track	Up to 30 m
Max workpiece height	Up to 2 m (80")
Max welding speed	Up to 1 m/min. solid wire
Possibility to implement additional functionality e.g. welding length, intermittent welds	YES
Possibility of changing welding parameters during welding process "on the fly"	Upon request
Fume extraction system (recommended)	Recommended Option for Operator safety



GWS type WA work-station applications confirmed with customers in automotive and steel construction business.

Purpose designed and custom built versions to be agreed with Promotech.



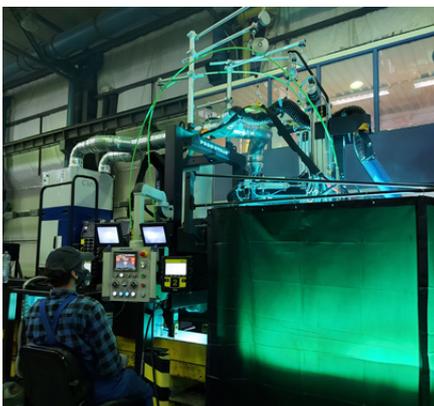
View of GWS type WA 1500 HD / WA 2000 HD MAG/SAW (CV or CC).

**TECHNICAL SPECIFICATIONS FOR GWS TYPE
WA 1500 HD / WA 2000 HD**

Length of track	Up to 30 m
Max workpiece height	Up to 2 m (80")
Max welding speed	Up to 1 m/min. solid wire
Possibility to implement additional functionality e.g. welding length, intermittent welds	YES
Basic flux recovery system (gravity)	Yes
Possibility of changing welding parameters during welding process "on the fly"	Option
Advanced flux handling system	Option
Wire drum feeding	Option



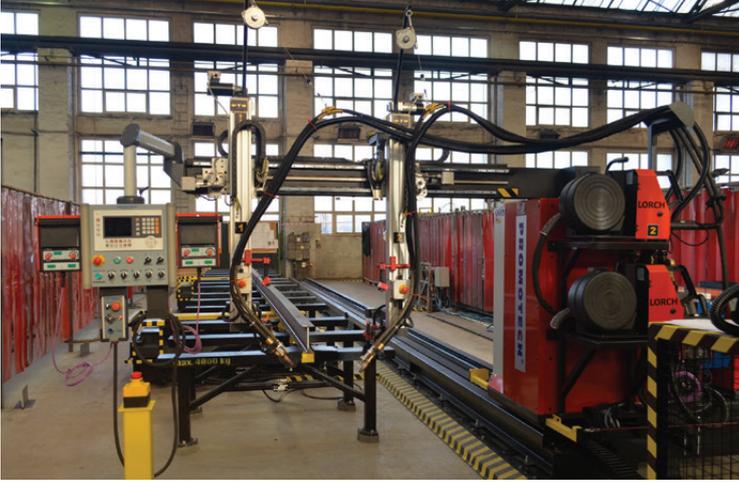
Promotech automatic mechanical-electro joint tracking ensure proper and repeatable welding by means of easy slug removal process.



All GWS WA HD workstations are equipped with cameras to ensure an operator and welding process safety!

GWS WA work-stations accepts most of welding MIG-MAG and SAW power sources available in the market.

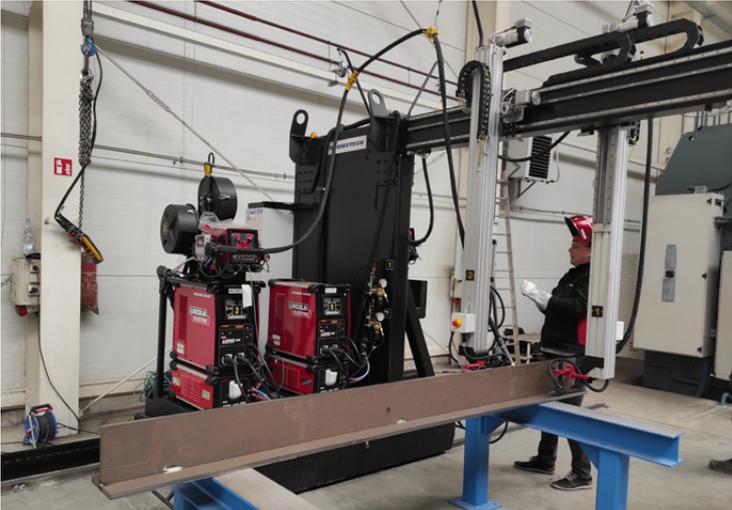
■ GWS type WA MIG / MAG
Integrated **LORCH S8**



■ GWS type WA MIG / MAG
Integrated **EWM Phoenix**



■ GWS type WA MIG / MAG
Integrated **LINCOLN ELECTRIC PW500 HYPERFILL**



■ GWS type WA MIG / MAG
Integrated **KEMPPI FASTMIG X 450**



■ GWS type WA MIG / MAG
Integrated **ESAB ARISTO 5000**



PPCM-650 | PIPE PROFILE CUTTING MACHINE

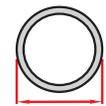
The CNC controlled Pipe Profile Cutting Machine allows 3D cutting/beveling using oxy-fuel or plasma.

Advanced design and top quality components enable fast and efficient cutting with top quality results.

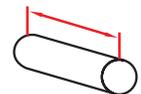
Integrated library of macros allows for parametric definition of typical pipe joints and fast shape programming directly from machines' control panel or offline via technologist laptop, just after a short a couple of hours training.

Pipe joints can be prepared remotely in the office to keep machine operating, increasing process efficiency and reducing downtime.

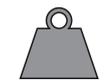
Heavy duty design allows to extend warranty for 24 months, more available upon request!



Pipe OD
50 to 650 mm (2-26")



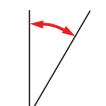
Max. pipe length
6 or 12 m



Pipe weight
up to 3 000 kg



Wall thickness:
3 - 50 mm



Max. cutting angle:
45 degree



3D Oxy-fuel bevel
Acetylene / Propane
± 45°



3D Plasma bevel
± 45°

Important features:

- User friendly software including library of macros for most typical cutting shapes
- Automatic compensation of cutting speed depending on the material thickness, torch angle and cutting direction for the best cutting quality
- Heavy duty rigid construction
- Well proven in most demanding environments
- Easy access to gas valves / flash back arrestors / cutting torch
- Fume extraction system thru spindle

f3.

CAD/CAM file transfer thru
Lantek Flex 3D Tubes
(option)

Options available upon customers' requests

- I. Oxy-fuel cutting (Acetylene or Propane)
Alternative cutting method that is available on request.
- II. Plasma Bevel - YES



III. Fume extraction system

Fume extraction system integrated with PPCM-650 thru spindle ensure the Client with effective fumes removal.



PPCM-650 TECHNICAL SPECIFICATION	
Pipe OD diameter	50 - 650 mm (2-26")
Max. pipe length	6 or 12 m (19 or 39 ft.)
Pipe weight	up to 3 000 kg
Wall thickness	3 - 50 mm
Max. cutting angle	± 45 degree
Cutting method	Oxy-Acetylene (Option) Oxy-Propane (Option) Plasma (Option)
Ignition: Oxy-fuel / Plasma	Manual / Automatic
Pipe support	2 pcs for up to 6-meter long pipes 4 pcs for up to 12-meter long pipes Additional supports on request
Vertical oval compensation mechanism	Included
Airconditioning of control cabinet	Option
Menu language	English, Croatian, Finnish, French, Russian, Turkish Other languages on request
Fume extraction system	Option
Auto nesting of multiple parts	Option
Transfer of NC data from CAD: Tekla files, SAT, STEP, IFC, Excel etc. files thru LANTEK flex 3D	Option



PPCM-1250 / PPCM-1500 | PIPE PROFILE CUTTING MACHINE

The CNC controlled Pipe Profile Cutting Machine allows 3D cutting/beveling using oxy-fuel or plasma.

Advanced design and top quality components enable fast and efficient cutting with top quality results.

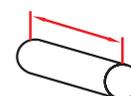
Integrated library of macros allows for parametric definition of typical pipe joints and fast shape programming directly from machines' control panel or offline via technolist laptop, just after a short a couple of hours training.

Pipe joints can be prepared remotely in the office to keep machine operating, increasing process efficiency and reducing downtime.

Heavy duty design allows to extend warranty for 24 months, more available upon request!



Pipe OD
100 to 1250 mm (4-49") for PPCM-1250
100 to 1524 mm (4-60") for PPCM-1500



Max. pipe length
6 or 12 m



Pipe weight
up to 10 000 kg



Wall thickness:
3 - 50 mm



Max. cutting angle:
45 degree



3D Oxy-fuel bevel
Acetylene / Propane
 $\pm 45^\circ$



3D Plasma bevel
 $\pm 45^\circ$



CAD/CAM file transfer thru
Lantek Flex 3D Tubes
(option)

Important features:

- User friendly software including library of macros for most typical cutting shapes
- Automatic compensation of cutting speed depending on the material thickness, torch angle and cutting direction for the best cutting quality
- Heavy duty rigid construction
- Well proven in most demanding environments
- Easy access to gas valves
- Fume exhaust system thru spindle (option)

Options available upon customers' requests

I. Oxy-fuel cutting (Acetylene or Propane)

Alternative cutting method that is available on request.



II. Plasma Cutting

We can integrate plasma source preferred by customer.

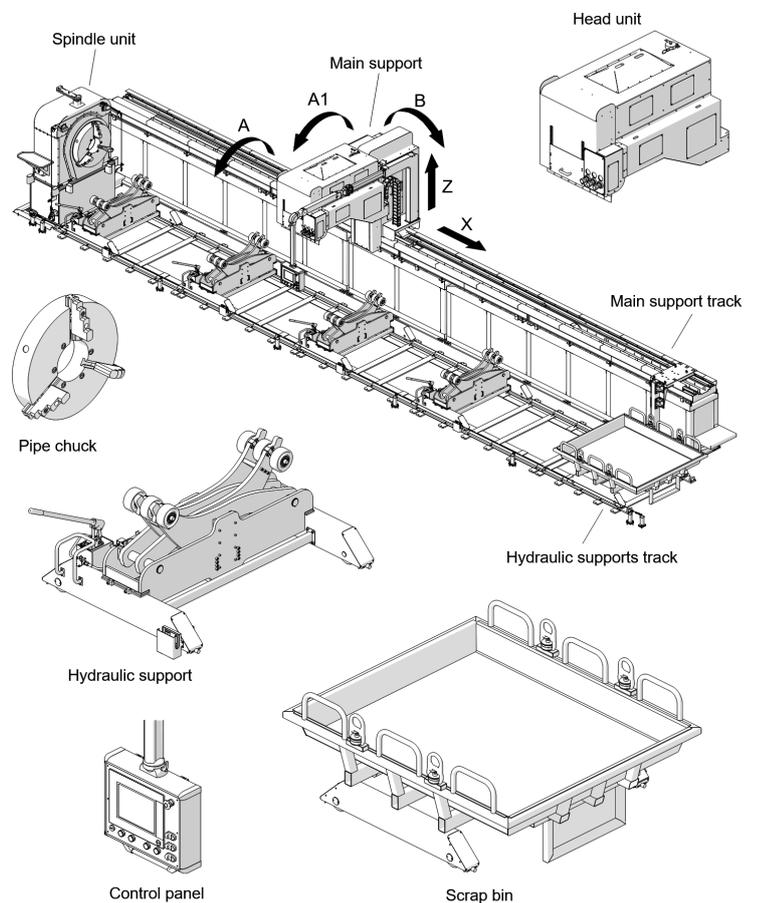


III. Fume extraction system

Fume extraction system with electric adjustment of dirty air level, combined with PPCM-1500 spindle provides customer with effective fume removal.



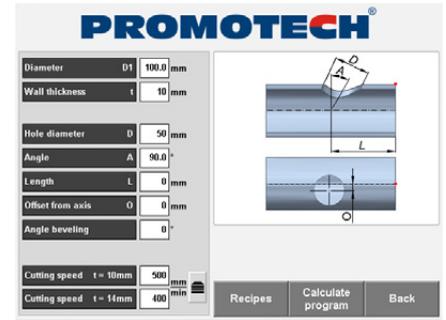
PPCM-1250 / PPCM-1500 TECHNICAL SPECIFICATION	
Pipe OD diameter	100 to 1250 mm (4-49") for PPCM-1250 100 to 1524 mm (4-60") for PPCM-1500
Max. pipe length	6 or 12 m (19 or 39 ft.)
Pipe weight	up to 10 000 kg
Wall thickness	3 - 50 mm
Max. cutting angle	± 45 degree
Cutting method	Oxy-Acetylene (Option) Oxy-Propane (Option) Plasma (Option)
Ignition: Oxy-fuel / Plasma	Manual / Automatic
Pipe support	2 pcs for up to 6-meter long pipes 4 pcs for up to 12-meter long pipes Additional supports on request
Vertical oval compensation mechanism	Included
Airconditioning of control cabinet	Option
Menu language	English, Croatian, Finnish, French, Russian, Turkish Other languages on request
Fume extraction system	Option
Auto nesting of multiple parts	Option
Transfer of NC data from CAD: Tekla files, SAT, STEP, IFC, Excel etc. files thru LANTEK flex 3D	Option



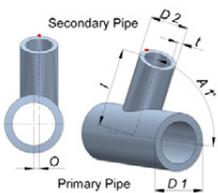
Machines' software for PPCM-650, PPCM-1250 and PPCM-1500

I. PPCM-650/1250/1500 software includes a wide scope of standard macros.

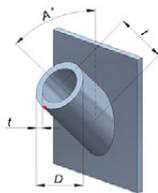
The macros present the typical cutting shapes and are easily programmable thanks to intuitive menu with necessary pipe parameters.



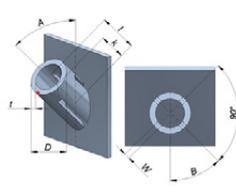
Typical cutting shapes:



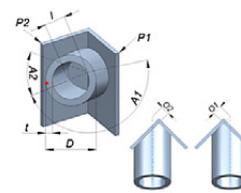
Pipe - pipe



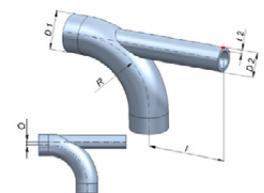
Pipe - plane



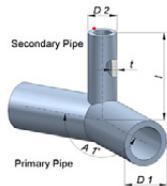
Pipe-plane with holes for fins



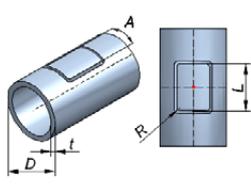
Pipe - planes



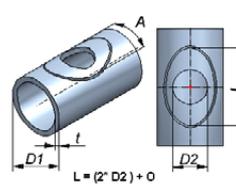
Pipe - elbow



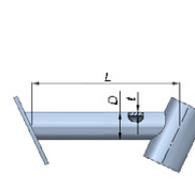
Pipe - joint



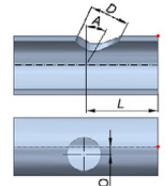
Rectangular pad



Reinforcement pad



Compound cut



Round hole with bevel

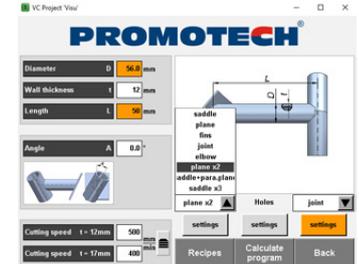
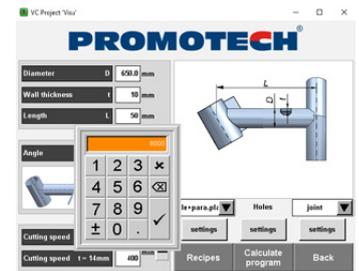
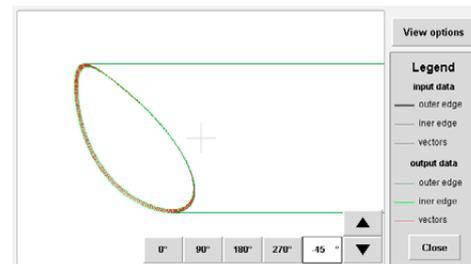
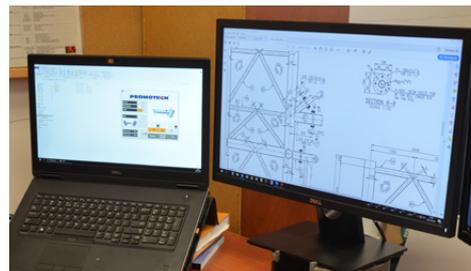
Promotech can expand the macro library upon customer's request.

II. PPCM SIM PC / Off-line programming

Thanks to PPCM standard macros library you can work remotely on your projects.

Main features of PPCM SIM PC:

- all the macros from the PPCM library are also available on the PC
- time efficiency - when the PPCM machine is used for cutting, next project can be prepared on the PC in the meantime
- easy transfer between PC and PPCM machine using USB stick
- stand-alone application
- simple and user-friendly software



On-line service support



Built-in network router enables remote access to machine interface (VNC Network)



Cable connection or WiFi (option)



Compatible with mobile and desktop devices



On-request software updates and machine diagnostics



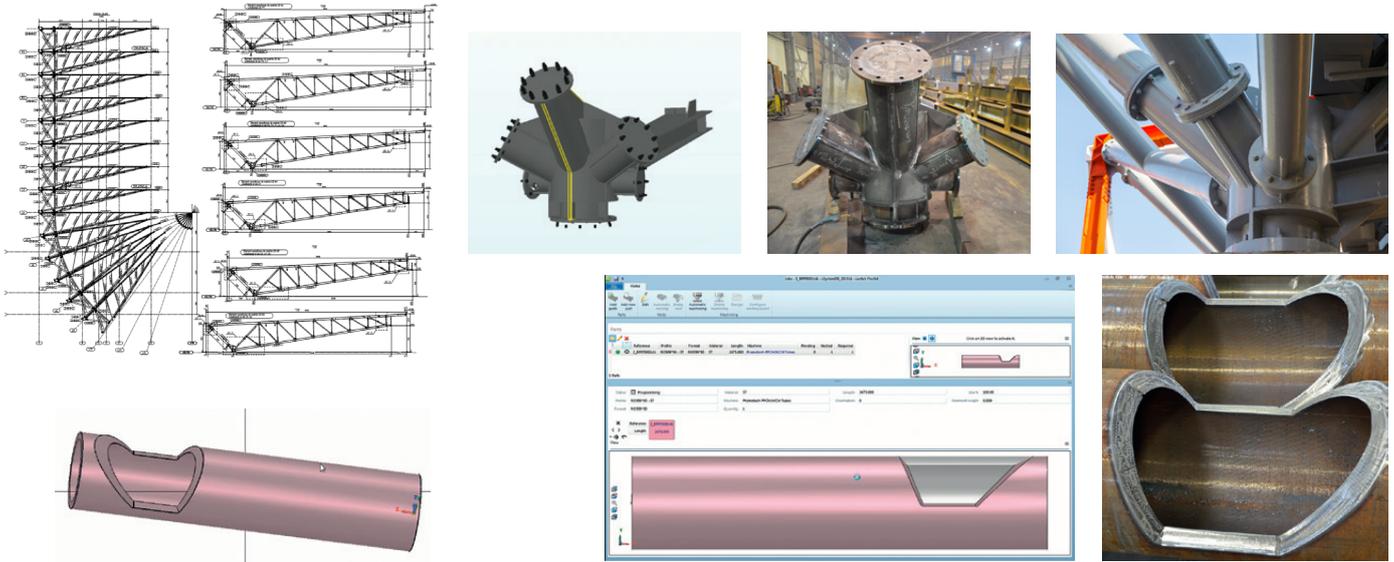


Lantek Flex 3D Tubes software for CAD/CAM file transfer (option)

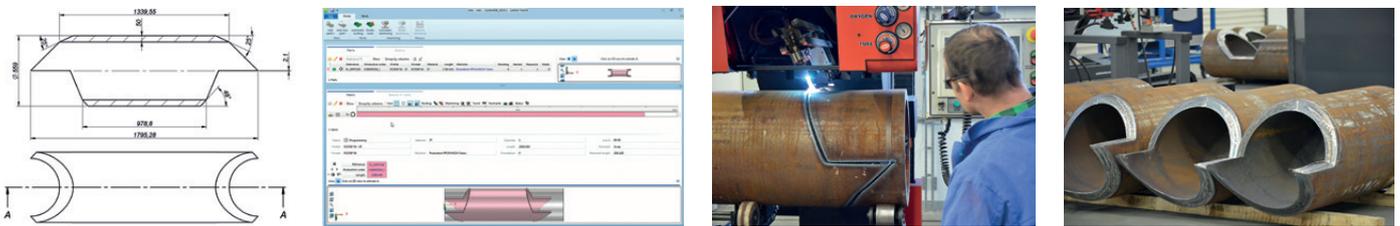
This software being customized for PPCM enables a simple way of generating the CNC code necessary to cut complex pipe intersection shapes. Lantek Flex 3D Tubes software is a perfect tool to import CAD geometry, design tubes using a set of standard shapes, or construct them from 2D outlines and generate them with any type of contour projected through the tube.

Main benefits of optional Lantek Flex3d Tubes software

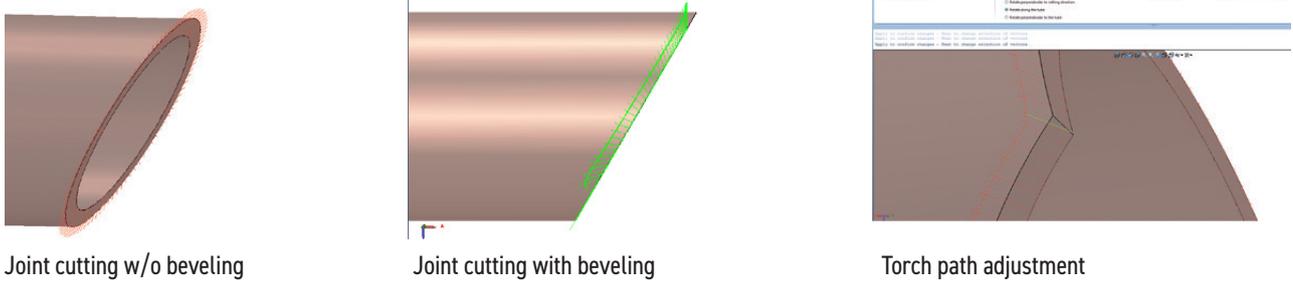
I. Import of CAD geometry from external software and acceptance of various file types including Tekla, SAT, STEP, IFC...



II. Designing of tubes and joints using a set of standard shapes or construction them from 2D outlines



III. Visualization of joints and torch path adjustment to optimize weld preparation



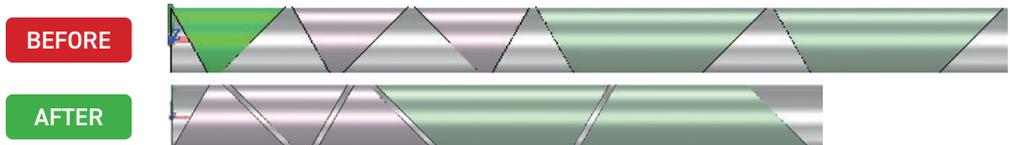
Joint cutting w/o beveling

Joint cutting with beveling

Torch path adjustment

IV. Auto Nesting of multiple parts

Lantek automatic nesting system determines the most efficient position of elements to be cut from pipes, thus minimizing waste of material as well as facilitating managing the warehouse of pipes.



INTEGRATED MULTI-AXIS JOINT TRACKING SYSTEM

Multi-Axis Joint Tracking System for longitudinal welding of variable geometry chassis and structural beams.

Thanks to MJTS, the position of the welding torch in relation to the workpiece remains constant throughout the process, ensuring identical weld quality along the entire length of the welded joint. The position of the torch in relation to the workpiece is determined by the distance in the vertical and horizontal axes as well as the rake and tilt angles of the torch. In addition, automatic torch rotation maintains a constant rake angle to the workpiece. Constant values of these parameters ensure the correct penetration depth and width of the weld face.

Welding portals equipped with MJTS are an attractive alternative to robotic applications and allow you to increase welding speed and significantly reduce operator training time.

The use of MJTS in the SAW process makes it possible to produce materials in excess of 4mm thick with minimal energy input, reducing workpiece deformation.

Torches with MJTS control easily handle shiny materials such as aluminum and high-alloy steel.



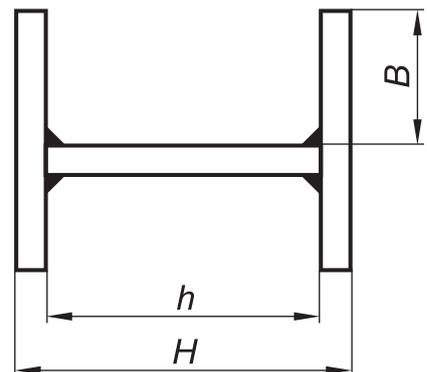
MIG / MAG, TWIN



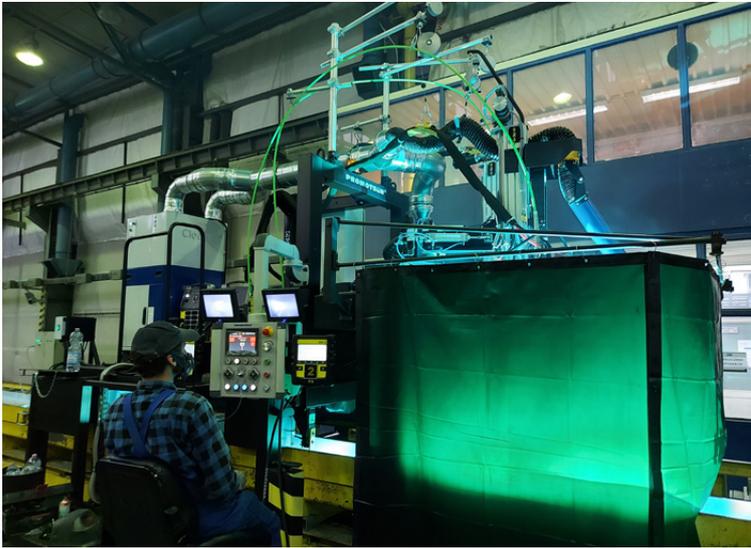
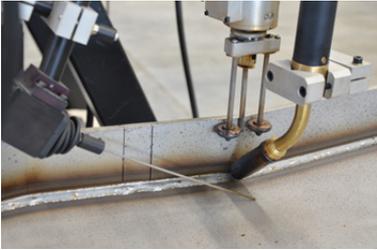
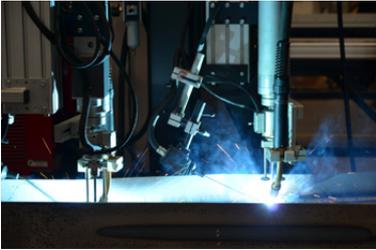
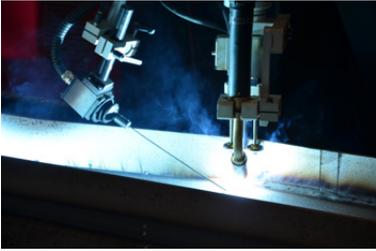
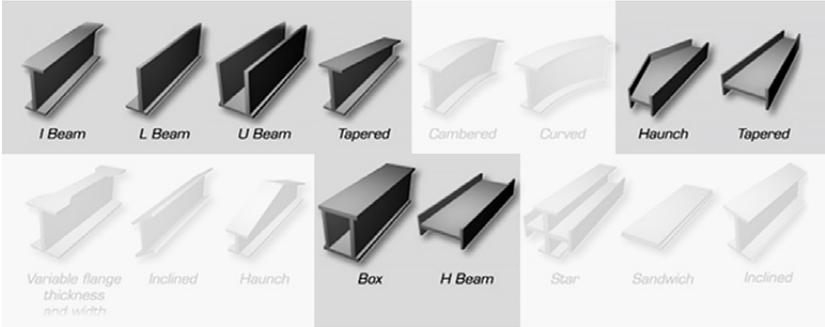
SAW

Features and benefits:

- Maximum taper angle: 20°
- Minimum width of welded beam (h): 120 mm
- Maximum width of the welded beam (H): 2000 mm
- Minimum height of welded beam (B): 90 mm
- Maximum height of the beam shelf (B): 160 mm
- Type of weld and welding position: fillet/butt weld, PB/PA position
- Welding process type: MIG/MAG, TWIN or SAW
- Welding torch to be advised
- Welding equipment to be advised
- 24 months extended warranty



Structural beam type welding



Automotive chassis beam type welding

MODULAR WELDING STATIONS

Promotech offers modular workstation capable of circumferential welding of pipe elements, flanges and fasteners such as elbows, tees etc. The modular design allows for versatile use and easy adaptation of the system devices to perform various applications such as welds with oscillation, hardfacing and many others.

TIG
resistant

■ **Modular Welding Stations** can be configured in a variety of ways depending on customer's needs with the following devices:

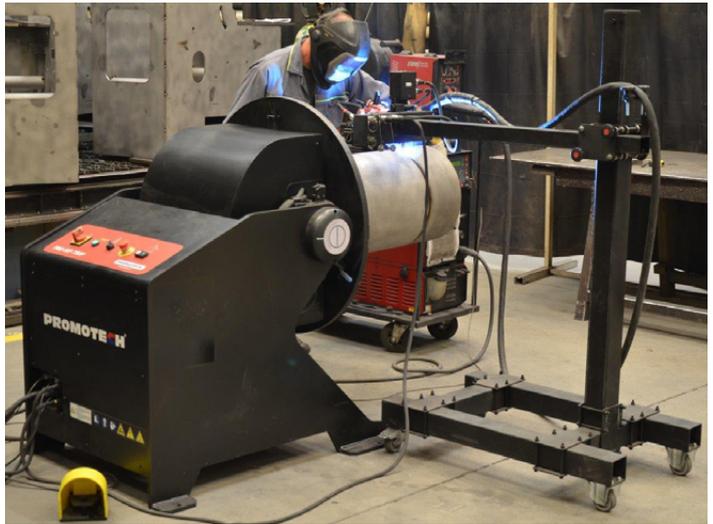
- Positioner 750 Premium
- Positioner 300 Premium
- Linear oscillator
- Motorized vertical slide
- Seam tracking attachment
- Pendulum oscillator OSC-8

■ **Premium Positioners** enable:

- rotation
- start/stop
- speed setting
- arc ignition
- intermittent (stitch) welding with the adjustment of weld length, interval between welds and number of welds
- display of actual welding speed (m/min or ft./min)
- settings of total weld length or the rotation angle
- overlap length adjustment
- back welding
- crater fill
- cladding

■ **Smart Controller** comes together with premium positioner and enables adjustment of all welding functions. When the premium positioner is configured with other devices, the control panel additionally allows adjustment of such parameters as:

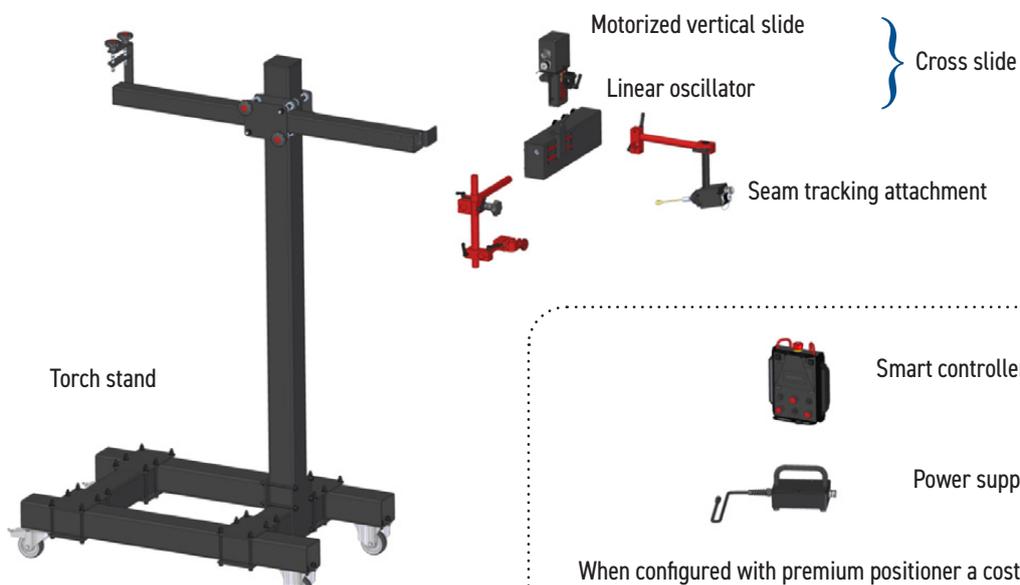
- linear oscillation width, speed and delay time
- vertical torch position
- seam tracking



A portable control panel allows the operator to easily enter data and conveniently monitor various aspects of the welding process.

	Input of workpiece dimension information into the system
MODE	Selection of the welding procedure and precise setting of its parameters (e.g. continuous, intermittent, number of welds, back welding, overlap, crater fill etc.)
	Selection of automatic tracing in the y-axis, z-axis or simultaneously in the y-axis and z-axis

Mini Column & Boom System - stand alone version that can be configured with any positioner.



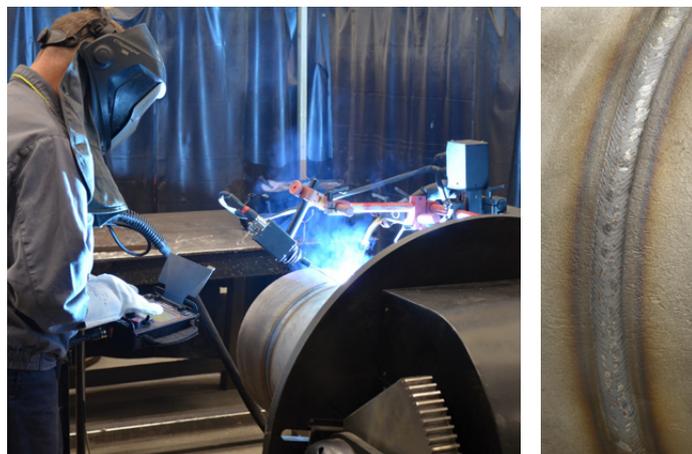
When configured with premium positioner a cost-effective Mini Column & Boom System without the smart controller and power supply unit can be ordered instead of the full version.

Features and benefits:

- Easy and high precision positioning of the torch to a work piece using Smart Controller
- Wide range of linear oscillation settings
- Seam tracking enables active compensation of torch position vertically and horizontally with and without oscillation

Mini Column & Boom System	
Oscillation width	115 mm
Oscillation speed	10-200 cm/min.
Oscillation delay time	0-5s.
Vertical slide altitude range	50 mm

Positioner technical specification	Premium 300	Premium 750
Speed range min/max	0,12 - 2,4 rpm	0,035 - 1,4 rpm
Max load capacity	300 kg	750 kg
Mass center offset at a 90° tilt	up to 100mm	up to 150 mm
Faceplate diameter	630 mm	920 mm
Tilt angle range	0-90°	0-135°
Tilt angle adjustment	manually	motorized
Hollow-shaft inside diameter	28 mm	28 mm
Max welding current transfer	400 A	550-600A
Voltage	220-240 V, 50-60 Hz 100-120 V, 50-60 Hz	3x400V 50/60 Hz



MCM-1000

5-AXIS TRUE PORTABLE CNC 3D CUTTING/BEVELING TO OFFSHORE TP'S AND XXL SIZE MONOPILES

The 3 in one machine

- laser measurement
- oxy-plasma cutting/beveling
- SAW welding

Promotech MCM machines are a true portable CNC cutting and welding cartesian robots already proven with several Customers in Wind Business, including multiple successful installations!

Promotech's MCM supports Offshore projects with regards to cutting/beveling different openings in the TP's and Monopiles, XXL Monopiles.

MCM machines as standard are available in the configuration:

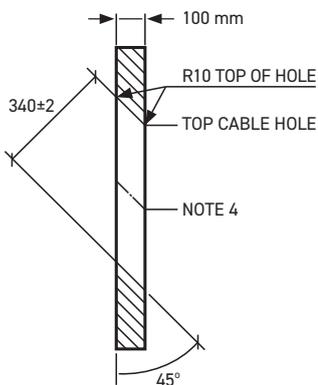
- MCM 3D oxy-cutting / beveling, for single or double sided bevel

Options:

- MCM 3D SAW ACDC welding (recommended)
- MIG-MAG / FCAW-G / MCAW (available upon Customer request only)

MCM main advantages:

- No CNC programming required
- Fast and easy positioning
- On-line service connection
- One-man operation
- 24 months extended warranty available



2D drawing, plate thickness approx. #100 mm.



Final result



Overall view of XL monopile

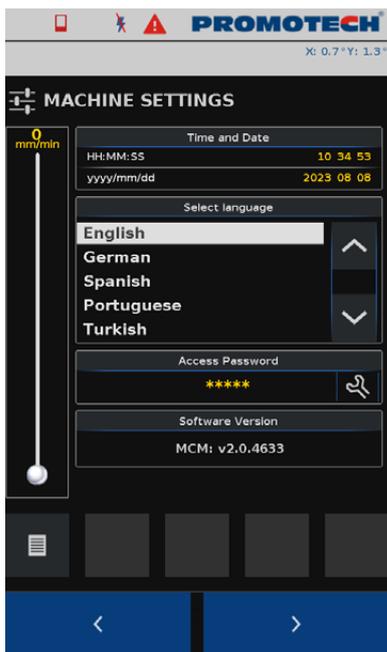


Overall view of XXL monopile

Typical MCM Offshore application



MCM machines are available with an on-line connection software (on demand)



Built-in network router enables remote access to machine interface (VNC Network)



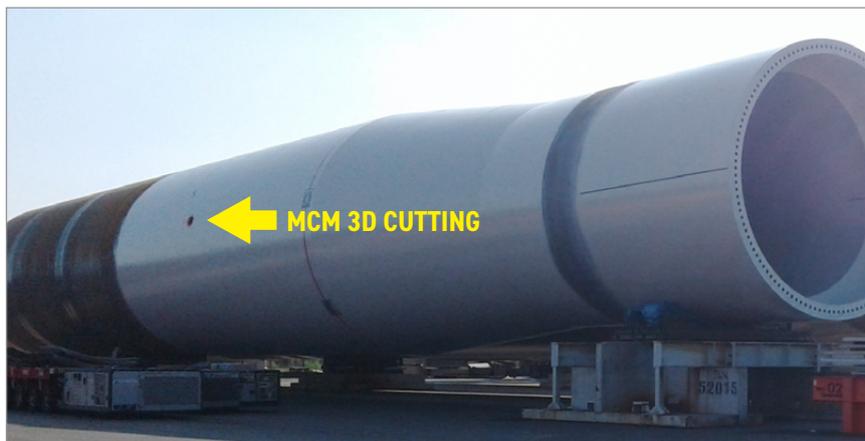
WIFI and cable connections



Compatible with mobile and desktop devices



On-request software updates and machine diagnostics



Overall view of XL monopile

MCM-4000

The 3 in one machine

- laser measurement
- oxy-plasma cutting/beveling
- SAW welding

5-AXIS TRUE PORTABLE CNC 3D CUTTING/BEVELING AND WELDING CARTESIAN ROBOTS RECOMMENDED TO ONSHORE AND OFFSHORE WIND TOWERS MANUFACTURERS!

MCM are true portable CNC scanning, cutting, beveling and welding robots that eliminates the biggest bottleneck in the steel wind towers production On&Offshore!

MCM 3D Oxy-fuel CNC 3D cutting&beveling head ensure top quality welding preparation each time!

MCM SAW ACDC welding head increases deposition rate up to 14 kg/hour at 100% boost productivity and significantly reduce the largest component of welding costs – labor and overhead!



MCM robots are available in the configuration:

- 4000 S / 4500 onshore / 4000 offshore / 5000+ offshore
- 3D Oxy-fuel cutting&beveling kit for single V or double sided bevel
- 3D SAW ACDC / Unbalance AC Single Wire

Features & Benefits:

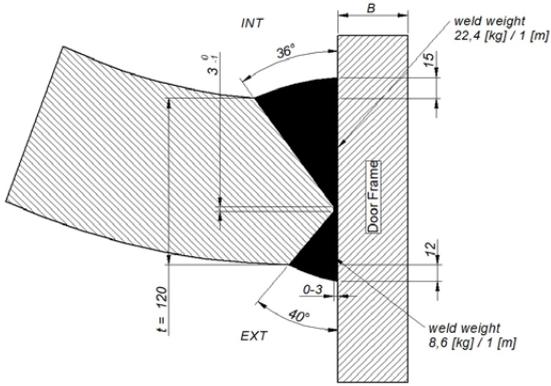
- Short setup time and easy handling
- Each workpiece (e.g. doorframe) is scanned to automatically obtain individual shape, CNC cutting/beveling and CNC welding path
- Top quality weld preps / aperture root gap 1-3 mm
- Welding defect rate less 1% / no grinding
- One-man operation
- Excellent Return On Investment (ROI)!
- Multiple successful installations to the Clients in the Wind Business!
- **Production support by means of WPQR / WPS development**
- **Production support by means of well experienced Promotech expert operators**
- **100% design and made in the EU (Poland)**
- **24 months extended warranty available**



ON&OFFSHORE WIND TOWERS APPLICATION: DOOR / VENTILLATION FRAMES

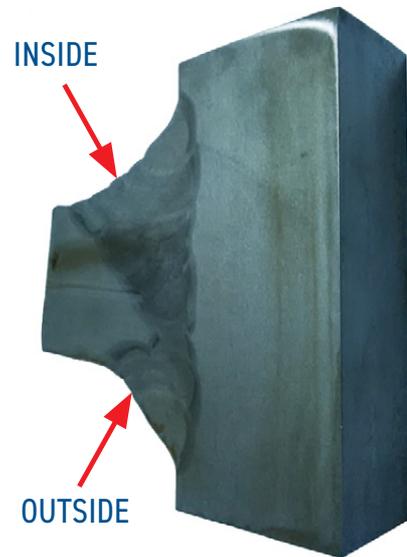
Weld prep: 3D Oxy-fuel double bevel

Welding: 3D SAW ACDC 4.00 mm single wire

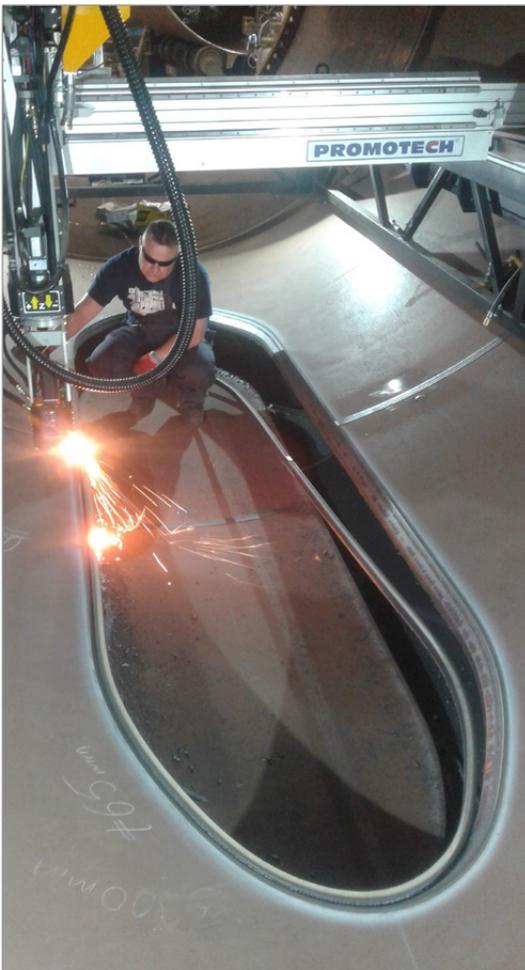


MCM SAW welding joint design: double bevel 2/3 inside; 1/3 outside

MCM SAW welding joint design: double bevel 2/3 inside; 1/3 outside



3D CNC Oxy-fuel cutting&beveling inside tower section / aperture door assembly & fit up



One-man operation!

3D CNC SAW ACDC welding inside&outside of tower section!



One-man operation!

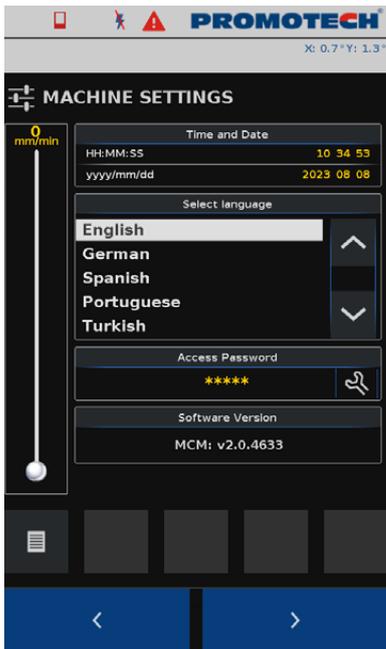
True portable MCM Cartesian robot
for fast and easy handling Inside&Outside tower section!



Standard technical data to MCM Onshore and Offshore applications

	Tower section ID	Max. width / length of the door frame
MCM Mini Offshore	Min. 3.0 m	Up to 0.5 x 1 m
MCM 1000 Offshore	Min. 3.5 m	Up to 1 x 2 m
MCM 4000 S Onshore	Min. 3.9 m	Up to 1.35 x 4.1 m
MCM 4500 Onshore	Min. 4.3 m	Up to 1.4 x 4.5 m
MCM 5000 Offshore	Min. 4.9 m	Up to 1.7 x 4.5 m
CNC 3D Oxy-fuel straight cut/bevel head	YES	
CNC 3D SAW ACDC	Recommended	
Max. wire electrode diameter	SAW Single Wire 4.00 mm	
Max. welding dep. rate at 100% arc time	10-12 kg/hr	
One-man Operation	YES	

On-line service support connection available! (on demand)



Built-in network router enables remote access to machine interface (VNC Network)



WIFI and cable connections



Compatible with mobile and desktop devices



On-request software updates and machine diagnostics

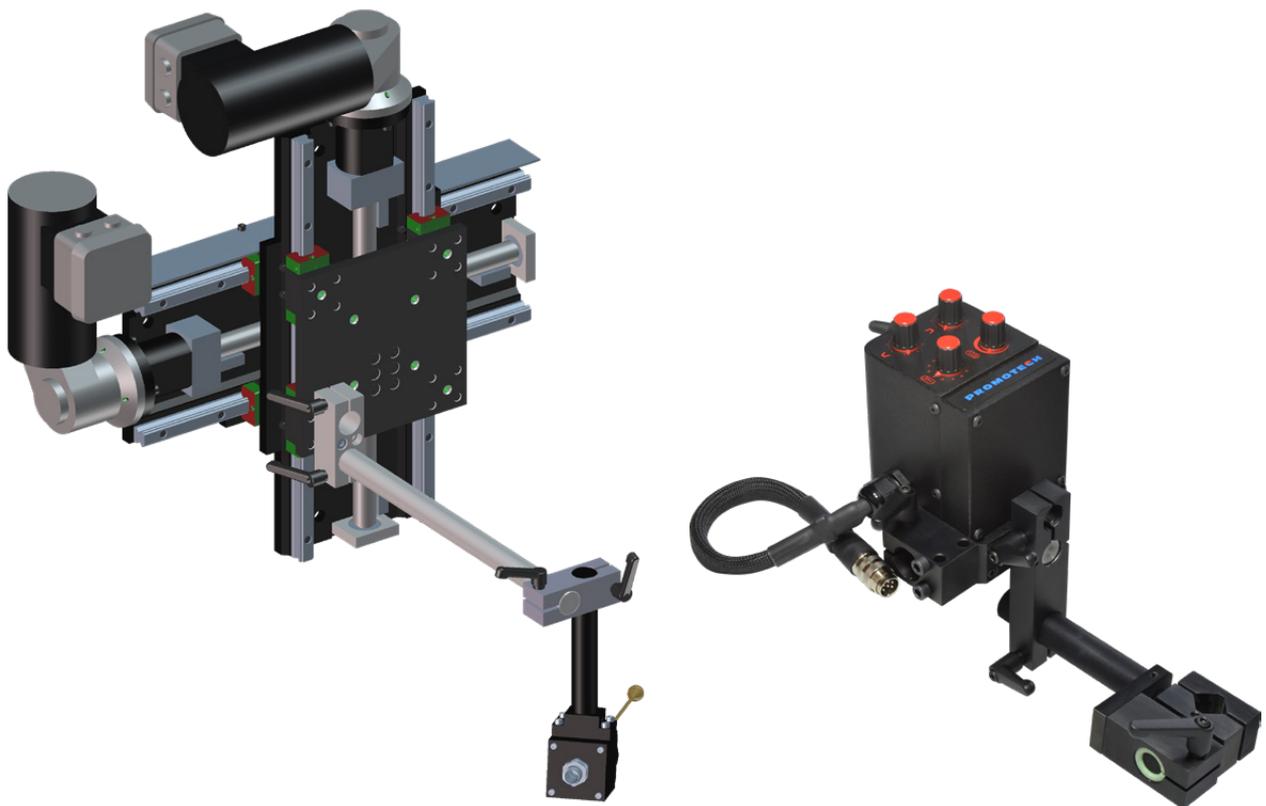


Promotech service team support on site (scheduled preventive maintenance)

JTS | AUTOMATIC JOINT TRACKING SYSTEM

The Joint Tracking System automatically guides the welding torch properly with respect to the weld joint in two axes. It is suitable for GMAW, GTAW, FCAW and SAW applications and can be fitted to column and boom welding manipulators, gantry welding systems and other purpose-designed welding systems.

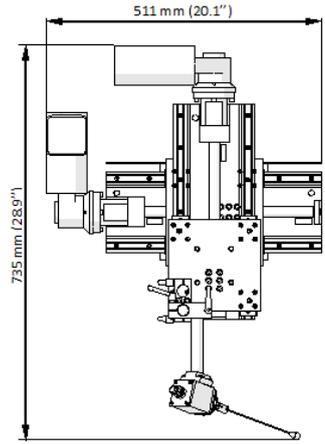
The electro-mechanical seam tracking system keeps maintaining the correct position of the welding torch relative to the welding groove set at the beginning. Any changes in inclination of a tracking sensor tip generate electrical signal resulting in active compensation of torch position and its motion up to 200 mm in both axes of standard motorized cross slide system. Movement range can be customized upon customer's request.



■ Features and benefits:

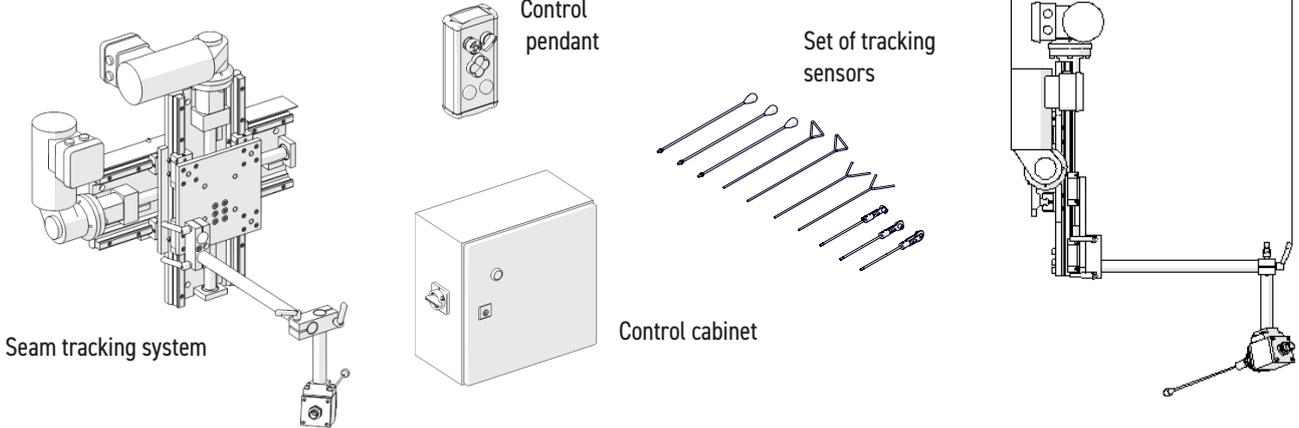
- Standard movement range of 200 x 200mm
- Electro-mechanical joint tracking system with high-precision linear guides ensures precise and smooth motion of 2 axes (up-down, right-left)
- Real-time compensation of head position relative to the welding groove
- Minimized welding defects and grinding
- Cross slide can be tailored to customers' needs
- User friendly control pendant
- Possibility to track only in one Z-axis (up-down) useful for butt welding
- Possibility to integrate with welding oscillator
- JTS system is perfect for fillet and butt welding in tanks, vessels as well as construction beams
- Oscillation unit available as option

TECHNICAL SPECIFICATION FOR JTS - JOINT TRACKING SYSTEM 200 X 200	
Voltage	230 V, 50/60 Hz + PE
Power	500 W
Cross slide vertical movement range (up-down axis)*	200 mm (7.9")
Cross slide horizontal movement range (right-left axis)*	200 mm (7.9")
Cross slide vertical movement speed (up-down axis)	360 mm/min (14.2 in/min)
Cross slide horizontal movement speed (right-left axis)	360 mm/min (14.2 in/min)
Required ambient temperature	5-40°C (41-104°F)
Weight	45 kg (100 lbs)
Integration with external safety devices	YES



* Movement range can be customized upon customer's request.

Main components of the JTS:



The JTS can be applied for both circumferential and longitudinal welding.

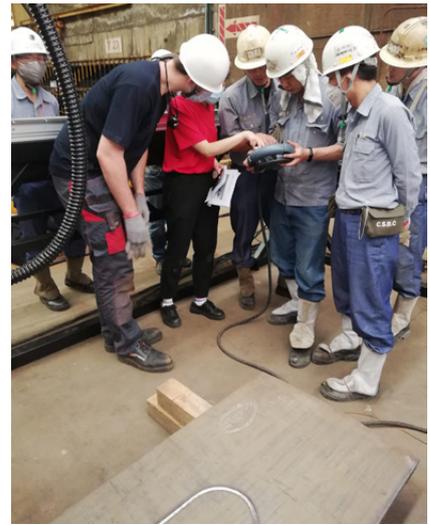


Longitudinal welding (tanks, beams)

Circumferential welding (tanks, vessels)

The JTS can be enriched with oscillator and visual system

■ Installations worldwide



■ Reference visits



■ Product Service



■ Workshops and training sessions



■ Participation in trade fairs



Please visit Promotech's channel at YouTube and watch our welding & cutting machines at work



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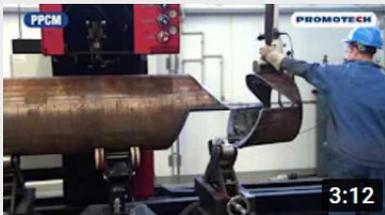
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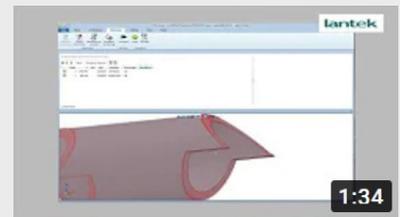
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PROMOTECH Sp. z o.o.
ul. Elewatorska 23/1
15-620, Białystok
POLAND

Tel. +48 85 678 34 95
Fax +48 85 662 78 77
marketing@promotech.eu
www.promotech.eu

PROMOTECH ME (FZE)
P6-111, SAIF ZONE
P.O.BOX. 514914
SHARJAH - U.A.E.

Tel: +971 6 552 9493
Fax: +971 6 552 9053
Mobile: +971 56 2935337
infoPME@promotech.eu
akumar@pme.promotech.eu
www.promotech.eu

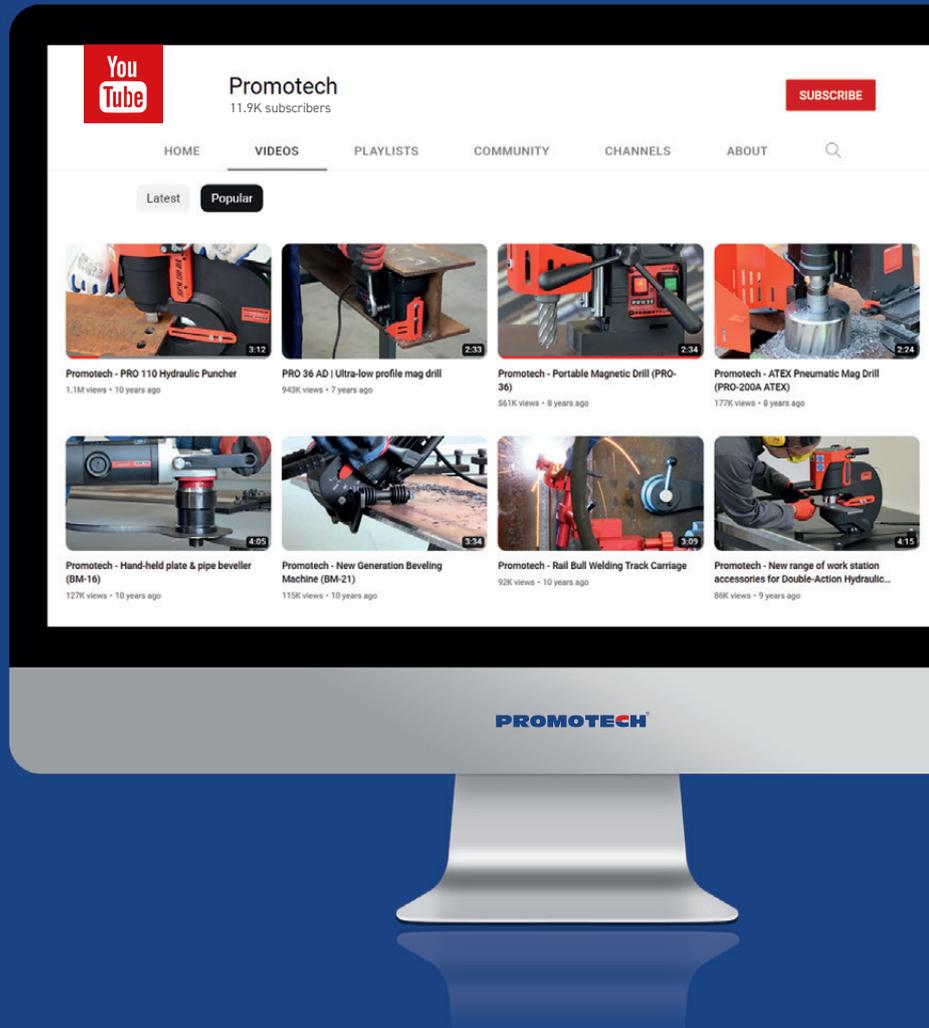
PROMOTECH FABRICATION
MACHINES PVT LTD
Corporate Office :
C 8, DSII DC Packaging Complex
Kirti Nagar New Delhi – 110015

Mobile: +91 966 766 0304
india@promotech.eu
www.promotech-india.in

Promotech Deutschland GmbH
Waldseer Straße 11
D-88326 Aulendorf
Deutschland

Mobile: +49 160 613 6666
Phone: +49 7525 507955-0
dach@pdg.promotech.eu
www.promotech.eu

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