PROMOTECH®

smart tools for heavy tasks

FM 37982

PPCM-1500 | PIPE PROFILE CUTTING MACHINE

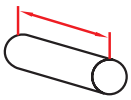
The CNC controlled Pipe Profile Cutting Machine allows 3D cutting/beveling using oxy-fuel or plasma.

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

The most important feature and advantage of PPCM-1500 is its user friendly software including a wide scope of standard macros representing the typical cutting shapes. Integrated library of macros allows for parametric definition of typical pipe joints and fast shape programming on-site directly from machines' control panel just after a short training.

Off-line programming is also possible by means of dedicated PPCM SIM PC software containing the same macros library.
Pipe joints can be prepared remotely in the office to keep machine operating, increasing process efficiency and reducing downtime.

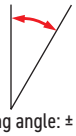
Pipe OD
100 to 1524 mm (4-60")



Max. pipe length
6 or 12 m

Pipe weight
up to 10 000 kg

Wall thickness:
3 – 50 mm



Max. cutting angle: ± 45 degree,
± 70 degree (option for oxy-fuel)

3D Oxy-fuel cutting
Acetylene (standard)
Propane (option)

3D Plasma cutting (option)

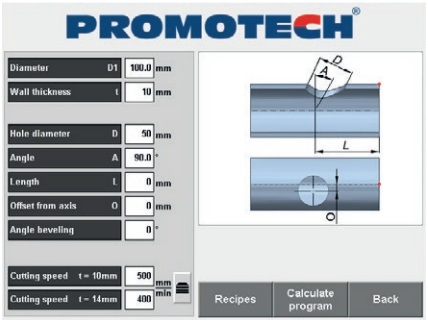
CAD/CAM file transfer thru
Lantek Flex 3D Tubes
(option)

Important features:

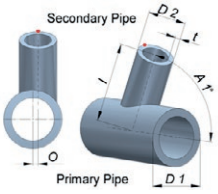
- User friendly software including library of macros for most typical cutting shapes
- Automatic compensation of cutting speed depending on the material thickness, torch angle and cutting direction for the best cutting quality
- Heavy duty rigid construction
- Well proven in most demanding environments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

Machines' software

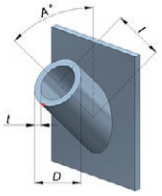
I. PPCM-1500 software includes a wide scope of standard macros.
The macros present the typical cutting shapes and are easily programmable thanks to intuitive menu with necessary pipe parameters.

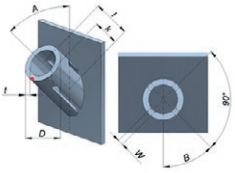


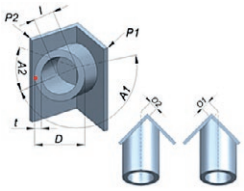
Typical cutting shapes:

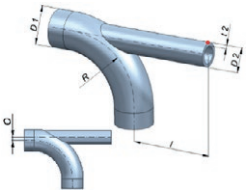


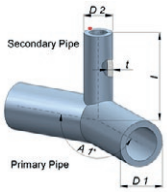
Pipe - pipe


Pipe - plane

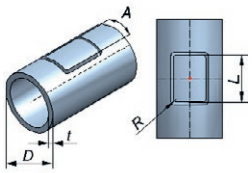

Pipe–plane with holes for fins

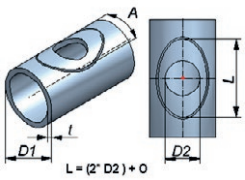

Pipe - planes


Pipe - elbow

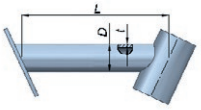


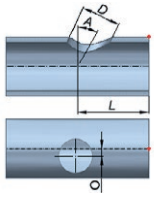
Pipe - joint


Rectangular pad



Reinforcement pad


Compound cut


Round hole with bevel

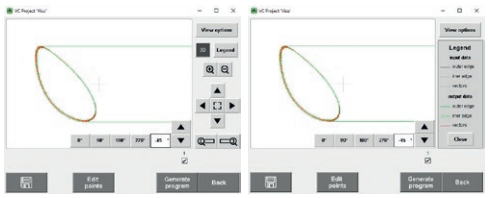
Promotech can expand the macro library upon customer's request.

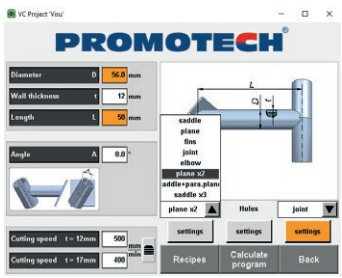
II. PPCM SIM PC / Off-line programming

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





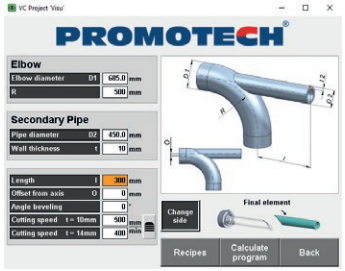
On-line support

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

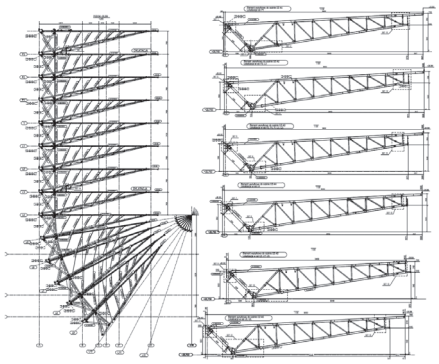
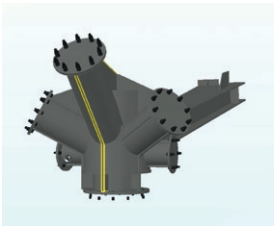


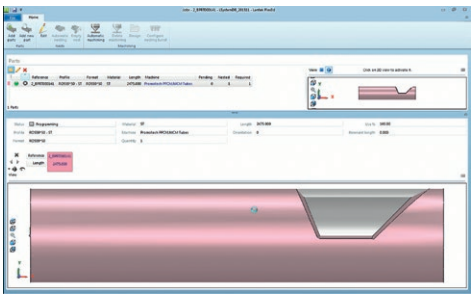
Lantek Flex 3D Tubes software for CAD/CAM file transfer (option)

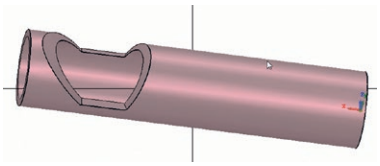
This software being customized for PPCM enables a simple way of generating the CNC code necessary to cut complex pipe intersection shapes. Lantek Flex 3D Tubes software is a perfect tool to import CAD geometry, design tubes using a set of standard shapes, or construct them from 2D outlines and generate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

Main benefits of optional Lantek Flex3d Tubes software

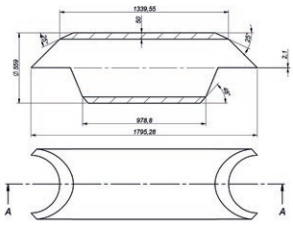
I. Import of CAD geometry from external software and acceptance of various file types including Tekla, SAT, STEP, IFC, Excel

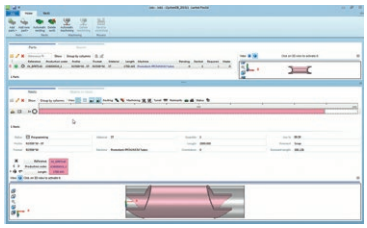
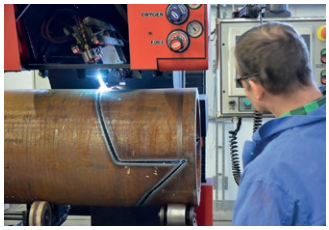



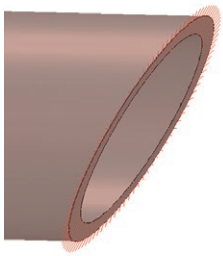


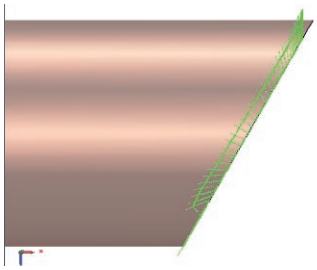
II. Designing of tubes and joints using a set of standard shapes or construction them from 2D outlines

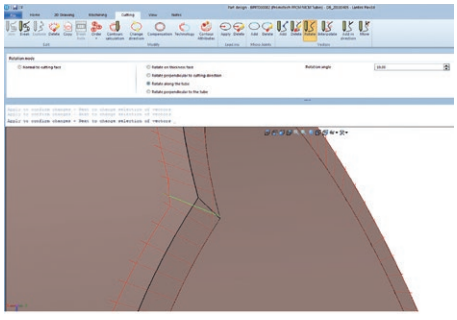



III. Visualization of joints and torch path adjustment to optimize weld preparation


Joint cutting w/o beveling


Joint cutting with beveling


Torch path adjustment

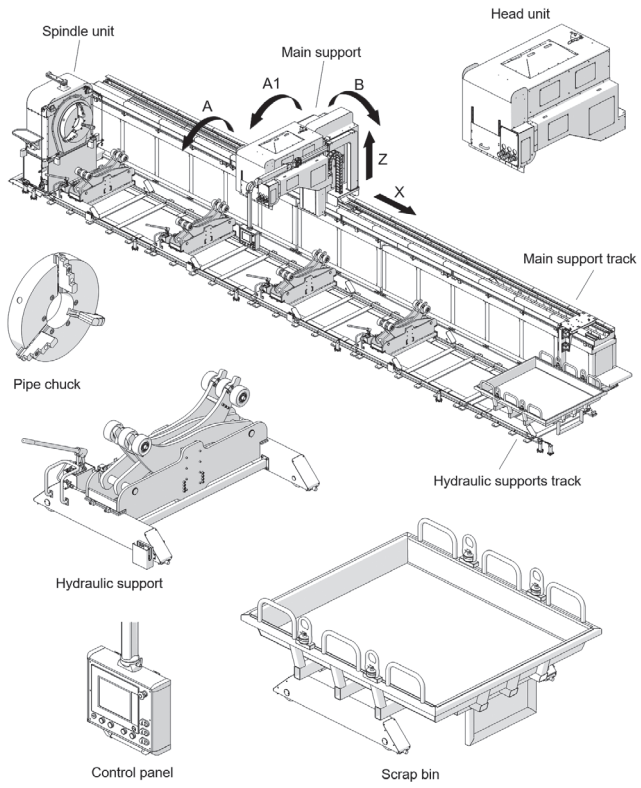
IV. Auto Nesting of multiple parts

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.

BEFORE

AFTER

PPCM-1500 TECHNICAL SPECIFICATION	
Pipe OD diameter	100 - 1524 mm (4-60")
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 ± 70 degree (option for oxy-fuel)
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
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
Fume extraction system	Option
Pipe marking system	Option



American Welding Society
Supporting Company Member

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

Options available upon customers' requests

I. Oxy-fuel cutting (Acetylene or Propane)

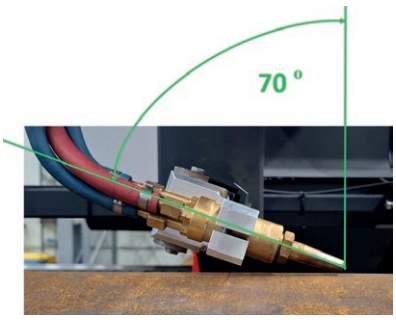
Alternative cutting method that is available on request.

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.



IV. Cutting angle up to 70° for oxy-fuel cutting

Operation from the machine panel.

V. Pipe marking system

For providing information about:

- part numbers
- designations
- cutting lines
- grinding lines
- etc.

All information is subject to change without notice. 25.12

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