

# STEELBEAST®

## PPCM-1500 PIPE PROFILE CUTTING MACHINE



**JEI**  
Solutions  
Built for Industry

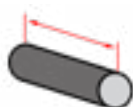
The CNC controlled Pipe Profile Cutting Machine allows 3D cutting/beveling using oxy-fuel or plasma. Advanced design and top quality components enable fast and efficient cutting with top quality results. The most important feature and advantage of PPCM-1500 is its user friendly software including a wide 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 the 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.

### Features and benefits:

- User-friendly software, including a 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 constructions.
- Well-proven in the most demanding environments.
- Easy access to gas valves.
- Fume exhaust system through spindle (option).
- Additional torch to heat up the material (option).



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



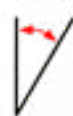
**Max. pipe  
length**  
6 or 12 m



**Pipe weight**  
up to  
10000 KG



**Wall  
thickness:**  
3 – 50 mm



**Max.  
cutting  
angle:**  
45 degree



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



**3D Plasma  
cutting**  
(option)

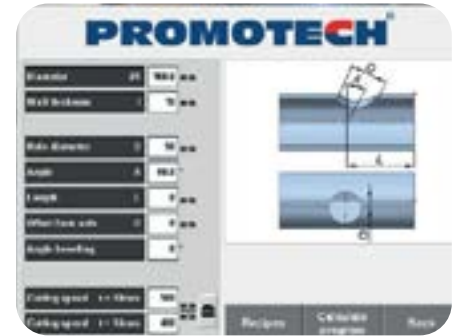


**CAD/CAM**  
file transfer  
through  
Lantek Flex  
3D Tubes  
(option)

## 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



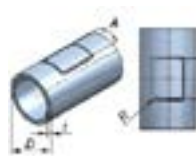
Pipe - planes



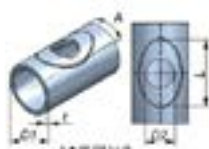
Pipe - elbow



Pipe - joint



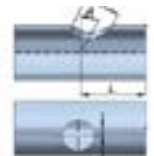
Rectangular pad



Reinforcement pad



Compound cut



Round hole with bevel

### 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.



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



Cable connection or WiFi (option)



Compatible with mobile and desktop devices



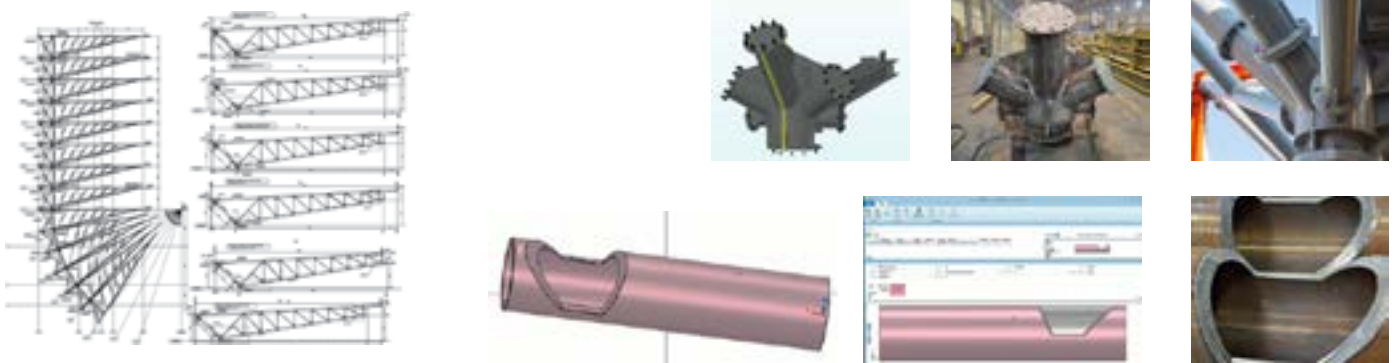
On-request software updates and machine diagnostics

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

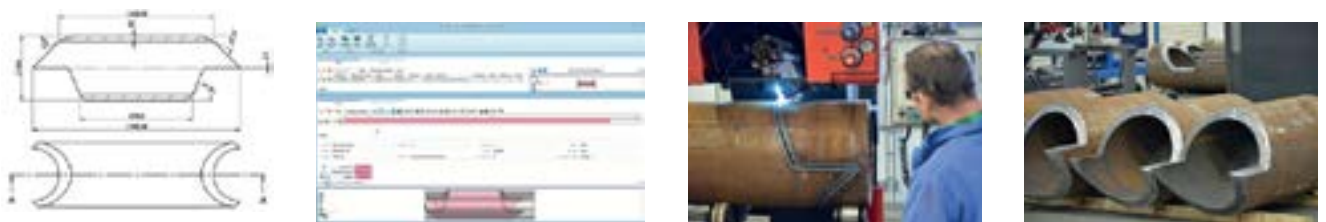
Being customised for the PPCM, this software enables a simple way of generating the CNC code necessary to cut complex pipe intersection shapes. Lantek Flex 3D Tubes software is a perfect tool to import CAD geometry, design tubes using a set of standard shapes, or construct them from 2D outlines and generate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

### Main benefits of optional Lantek Flex3d Tubes software

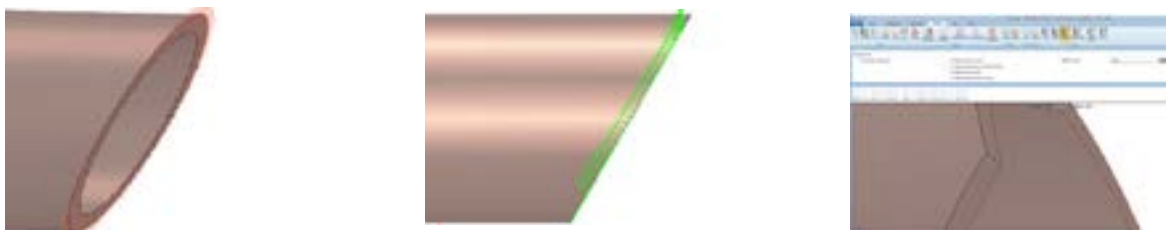
#### I. Import of CAD geometry from external software and acceptance of various file types including Tekla, SAT, STEP, IFC, Excel



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



#### III. Visualisation of joints and torch path adjustment to optimise weld preparation



#### IV. Auto Nesting of multiple parts

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

**BEFORE**



**AFTER**





## 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-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<br>70 degree option                                                                               |
| Cutting method                                                                                        | Oxy-Acetylene (Option)<br>Oxy-Propane (Option)<br>Plasma (Option)                                           |
| Ignition: Oxy-fuel / Plasma                                                                           | Manual / Automatic                                                                                          |
| Pipe support                                                                                          | 2 pcs for up to 6-meter long pipes<br>4 pcs for up to 12-meter long pipes<br>Additional supports on request |
| Vertical oval compensation mechanism                                                                  | Included                                                                                                    |
| Airconditioning of control cabinet                                                                    | Option                                                                                                      |
| Menu language                                                                                         | English, Croatian, Finnish, French,<br>Russian, Turkish.<br>Other languages on request                      |
| Fume extraction system                                                                                | Option                                                                                                      |
| Auto nesting of multiple parts                                                                        | Option                                                                                                      |
| Transfer of NC data from CAD:<br>Tekla files, SAT, STEP, IFC, Excel etc. files thru LANTEK<br>flex 3D | Option                                                                                                      |