

STEELBEAST®

JE
Solutions
Built for Industry

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.

The most important feature and advantage of **PPCM-650** 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.

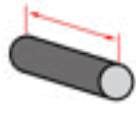
Pipe joints can be prepared remotely in the office to keep machine operating, increasing process efficiency and reducing downtime.

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
50 to 650
mm (2-26")



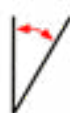
Max. pipe
length
6 or 12 m



Pipe weight
up to 3 000
KG



Wall
thickness:
3 – 50 mm



Max.
cutting
angle:
45 degree



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



3D Plasma
cutting
(option)



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

MACHINES' SOFTWARE

I. PPCM-650 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



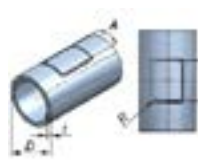
Pipe - planes



Pipe - elbow



Pipe - joint



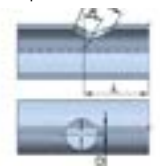
Rectangular pad



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



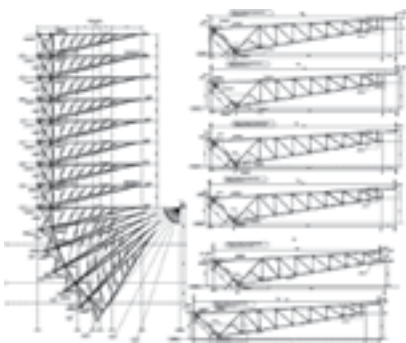
On-request software
updates and machine
diagnostics

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

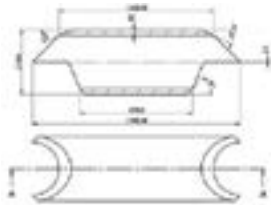
Being customised for the PPCM, this software enables a simple way of generating the CNC code necessary to cut complex pipe intersection shapes. Lantek Flex 3D Tubes software is a perfect tool to import CAD geometry, design tubes using a set of standard shapes, or construct them from 2D outlines and generate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

Main benefits of optional Lantek Flex3d Tubes software

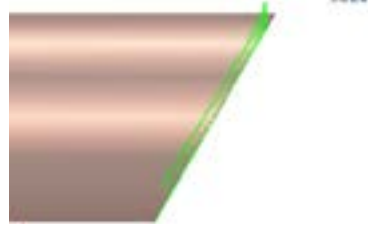
I. Import of CAD geometry from external software and acceptance of various file types including Tekla, SAT, STEP, IFC, Excel



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-650 spindle provides customer with effective fume 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