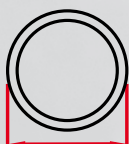


■ PPCM 650 | PIPE PROFILE CUTTING MACHINE

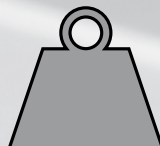


- The CNC controlled Pipe Profile Cutting Machine allows wide working range from diameters 50 to 650 mm and pipe lengths up to 6.000 mm or 12.000 mm (option) using oxy-fuel or plasma.

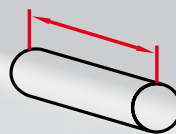
Advanced design and top quality components enable fast and efficient cutting with top quality results. The most important feature and advantage is it's user friendly software which enables quick understanding and efficient use of this machine after a short training without any need of investment in costly CAD/CAM software.



Pipe OD 50-650mm



Weight 6T



Max. pipe length 6.000 mm
12.000 mm (options)



Oxy-fuel or plasma



User-friendly interface helps an operator to input data directly from technical documentation without involvement of CAD/CAM programming software.

STANDARD TECHNICAL SPECIFICATION of PPCM 650

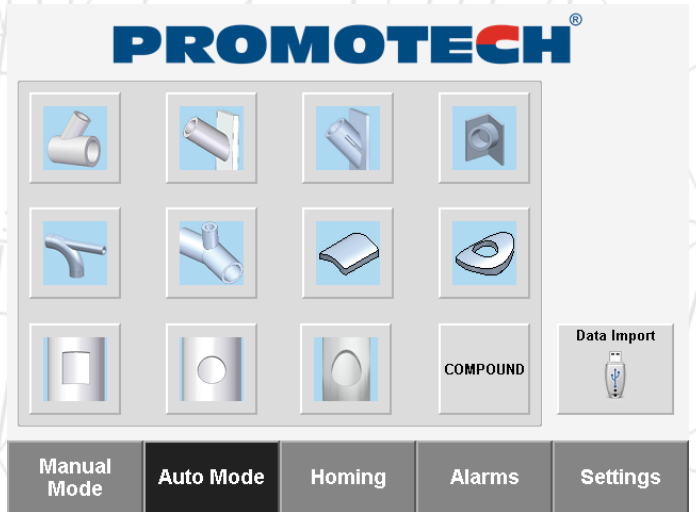
Pipe OD diameter	50 ÷ 650 [mm]
Max. pipe length OPTIONS:	6.000 [mm] Extensions of tracks up to 9 000 or 12 000 [mm]
Max. through spindle diameter	Ø 133 [mm]
Cutting method: Oxy-fuel cutting (ACETYLENE) OPTION: Cutting method: Oxy-fuel cutting (PROPANE) OPTION: Cutting method: Plasma	YES. Equipment: HARRIS cutting kit YES. Equipment: HARRIS cutting kit YES, type of plasma equipment to be agreed
Admissible ambient temperature	5 - 50 [°C]
Fixed height main drive	YES
Opening and closing	Manual with self-centering 3 jaw chuck
Pipe support OPTION:	2 pcs., max. load 2[T]/each Additional supports on request
Vertical oval compensation mechanism	Included
Ignition	Manual
Reference laser marker	Included
Menu language OPTION:	English Other languages are optional
Fume exhaust system	Option
Total consumption 3~ 400 V ±10% + PE + N, 50/60 Hz ±4%	12 [kVA]
Transfer of NC data from Tekla Structures	Option

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

Our latest generation control system permits fast shape programming. Its Integrated library of macros allows for parametric definition of typical pipe joints.

Standard library includes typical macros. Other macros available on request.

Transfer of NC data files from CAD/CAM Software to PPCM is available as option.



Example macros:

- Saddle connection

- Plane connection

- Joint connection

Primary Pipe
Diameter D1 125.0 mm

Secondary Pipe
Diameter D2 50.0 mm
Wall thickness t 13 mm

Length l 1500 mm
Offset from axis O 0 mm
Angle between pipes A1 90.0°
Angle beveling 30°
Cutting speed t = 13mm 2000 mm/min
Cutting speed t = 18mm 1500 mm/min

Final element

Recipes Calculate program Back menu

Diameter D 100.0 mm
Wall thickness t 10 mm
Length l 300 mm
Angle A 45.0°
Angle beveling 0°
Cutting speed t = 10mm 500 mm/min
Cutting speed t = 14mm 400 mm/min

Final element

Recipes Calculate program Back menu

Primary Pipe
Diameter D1 100.0 mm
Angle between pipes A1 120°

Secondary Pipe
Diameter D2 100.0 mm
Wall thickness t 10 mm

Length l 300 mm
Angle beveling 0°
Cutting speed t = 10mm 500 mm/min
Cutting speed t = 14mm 400 mm/min

Final element

Recipes Calculate program Back menu

- Miter cut with plane or pipe with defined twist angle

- Miter cut

- Miter cut with fin

Diameter D 126.5 mm
Wall thickness t 5 mm
Length L 100 mm

Angle between surface A 0°

elbow saddle

settings settings

Cutting speed t = 5mm 2000 mm/min
Cutting speed t = 7mm 1200 mm/min

Recipes Calculate program Back menu

Diameter D 100.0 mm
Wall thickness t 10 mm
Angle 1 A1 90.0°
Angle 2 A2 60.0°
Length l 300 mm
Offset 1 O1 0 mm
Offset 2 O2 0 mm
Angle beveling 0°
Cutting speed t = 10mm 500 mm/min
Cutting speed t = 14mm 400 mm/min

Final element

Recipes Calculate program Back menu

Diameter D 200.0 mm
Wall thickness t 10 mm
Length l 2000 mm
Angle A 90.0°
Angle beveling 60°
Number of holes 4

Length k 50 mm
Width W 20 mm
Twist angle B 26.0°
Cutting speed t = 10mm 2000 mm/min
Cutting speed t = 14mm 1500 mm/min

Final element

Recipes Calculate program Back menu

- Pipe - Elbow

- Hole cutting

- Hole cutting with or without beveling

Elbow
Elbow diameter D1 200.0 mm
R 300 mm

Secondary Pipe
Pipe diameter D2 100.0 mm
Wall thickness t 5 mm

Length l 2000 mm
Angle beveling 60°
Cutting speed t = 5mm 2000 mm/min
Cutting speed t = 7mm 1500 mm/min

Final element

Recipes Calculate program Back menu

Pipe diameter D 200.0 mm
Wall thickness t 5 mm
Cutting speed t = 5mm 2000 mm/min
Cutting speed t = 7mm 1500 mm/min
Number of holes 2

	Offset X	Angle A	W	L
1	100 mm	0.0°	50 mm	60 mm
2	100 mm	180.0°	50 mm	60 mm
3				
4				
5				
6				
7				
8				
9				
10				

Final element

Recipes Calculate program Back menu

Diameter D 115.0 mm
Wall thickness t 8 mm

Hole diameter D1 52 mm
Length - X offset l 0 mm
Angle A 90.0°
Offset from axis O 0 mm
Angle beveling 50°

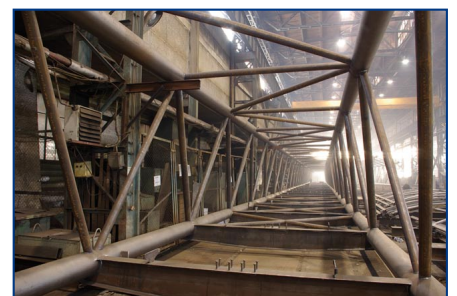
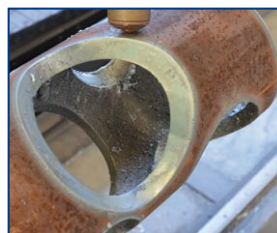
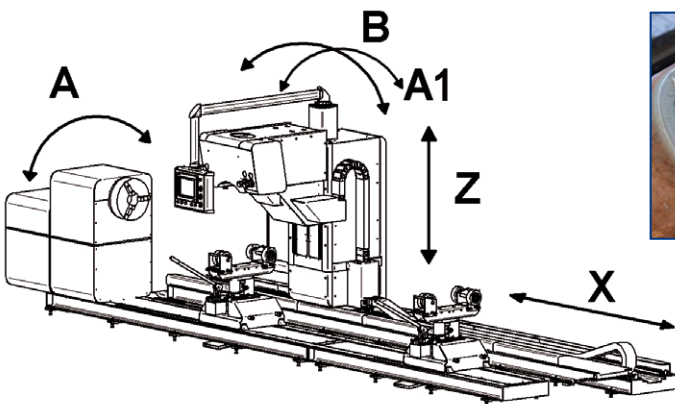
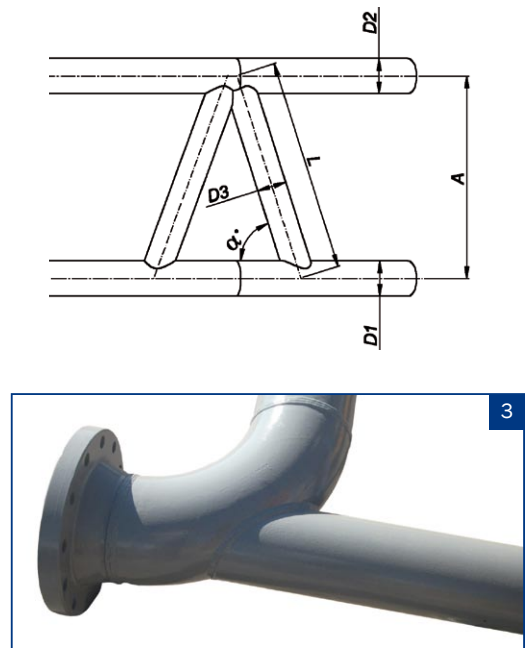
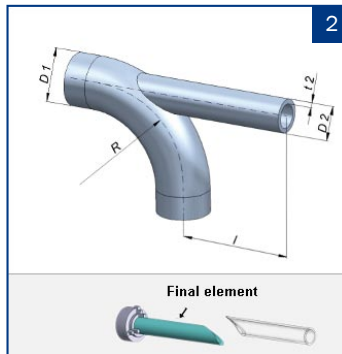
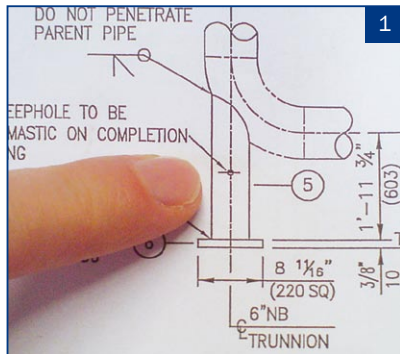
Cutting speed t = 8mm 400 mm/min
Cutting speed t = 11mm 200 mm/min

Final element

Recipes Calculate program Back menu

Optimal cutting angles and torch paths are calculated by the PPCM control system.

Programming in 3 steps:



Pipe Profile Cutting Machine can be customized according to customer preferences.

 **American Welding Society**
Supporting Company Member

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



PROMOTECH Sp. z o.o.
ul. Elewatorska 23/1, 15-620 BIAŁYSTOK, POLAND
tel. (+48 85) 678 34 05, fax (+48 85) 662 78 77
marketing@promotech.eu www.promotech.eu

Your local dealer:



All information is subject to change without notice. 1508