

PIPE PROFILE CUTTING MACHINE

Type: PPCM 500/6

[®]**PROMOTECH**



The CNC controlled Pipe Profile Cutting Machine is designed for precise profile cutting of pipes and tubes using of oxy-fuel or plasma.

Advanced design, including top-class servo motors, CNC controller and high-precision linear guides, enable fast cutting speed with top quality results. The most important feature and advantage of this machine is it's user friendly software which enables quick understanding and efficient use of this machine after a short training.

Our latest generation control system permits fast shape programming.
 Integrated library of macros allows for parametric definition of typical elements:

- Saddle nozzle cuts
- Offset saddle nozzle cuts
- Lateral nozzle cuts
- Offset lateral nozzle cuts

ACKNOW.

Primary Pipe	
Diameter	1200 mm

Secondary Pipe	
Diameter	250 mm
Wall thickness	21 mm
Offset from axis	10 mm

Length	1500 mm
Angle between pipes	70
Angle beveling	45
Speed	400 mm/min

Back menu Beveling Cutting

Primary Pipe	
Diameter	255 mm
Offset from axis	10 mm
Angle between pipes	80
Angle beveling	45

Primary Pipe2	
Diameter	1200 mm
Offset from axis	0 mm
Angle between pipes	76
Angle beveling	35

Secondary Pipe	
Diameter	117 mm
Wall thickness	12 mm

Length	1250 mm
Cutting Speed	400 mm/min
Offset between surface	180

Back menu Beveling Cutting

- Double saddle nozzle cuts

ACKNOW.

Primary Pipe	
Diameter	255 mm

Secondary Pipe	
Wall thickness	12 mm
Diameter	117 mm

Angle between pipes	180
Angle beveling	35
Speed	500 mm/min

Back Menu Beveling Cutting

Primary Pipe	
Diameter	255
Offset from axis	0 mm
Angle between pipes	170

Primary Pipe2	
Diameter	300
Offset from axis	10
Angle between pipes	180

Secondary Pipe	
Diameter	117 mm
Wall thickness	21 mm
Angle beveling	45

Length	1500 mm
Cutting Speed	400 mm/min
Offset between surface	180

Back menu Start

- Miter cuts

ACKNOW.

Diameter	295 mm
Angle	80
Length	1000 mm
Wall thickness	21 mm
Angle beveling	45
Speed	400 mm/min

Back menu Beveling

Diameter	255 mm
Wall thickness	21 mm
Angle	60
Angle2	70
Length	1000 mm
Offset between surface	2000
Angle beveling	30
Cutting Speed	550 mm/min

Back menu START

- Hole cutting (without beveling)

ACKNOW.

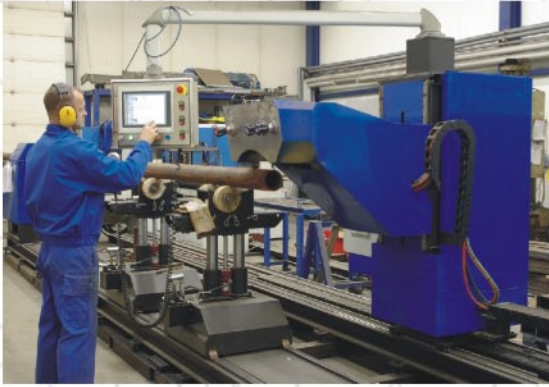
Wall thickness	10 mm
Pipe diameter	117 mm
Width rectangle	50 mm
Length rectangle	150 mm
Cutting speed	600 mm/min

Back menu Cutting

ACKNOW.

Wall thickness	12 mm
Pipe diameter	210 mm
Circle diameter	100 mm
Cutting speed	500 mm/min

Back menu Cutting



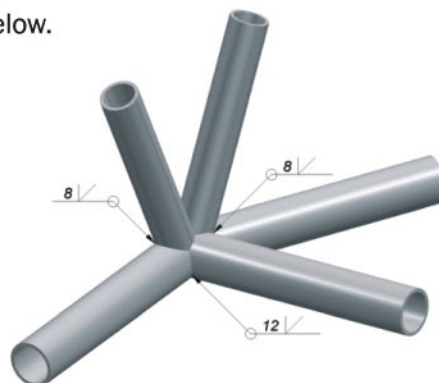
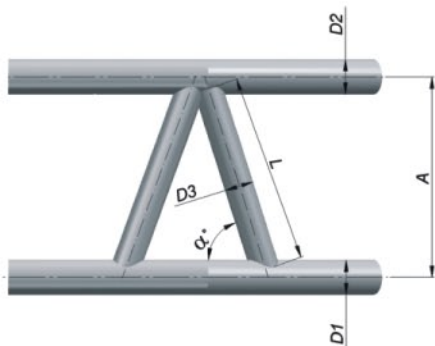
User-friendly interface helps operator to input only the necessary data.

STANDARD TECHNICAL SPECIFICATION of PPCM 500/6

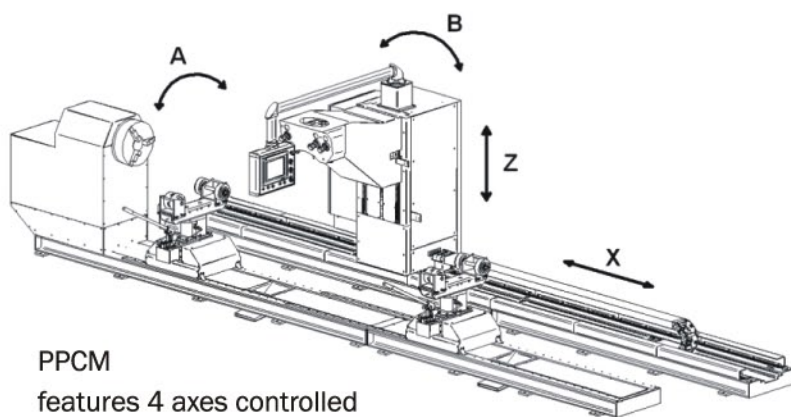
Workpiece diameters	100 ÷ 500 [mm]
Max. workpiece length	6000 [mm] (extension to 12.000 possible)
Wall thickness under 45° beveling angle	3 ÷ 50 [mm] by oxy-fuel cutting
Machine length (excl. Control unit)	8.900 [mm]
Machine width (excl. Control unit)	2.600 [mm]
Admissible ambient temperature	5 ÷ 35° C
Pipe support (adjustable height) - 2 pcs.	max. load 2[T]/each additional supports - optional
Main drive/machine spindle	fixed height
Max. through spindle diameter	133 [mm]
Reference laser pointer	Included
Roundness compensation mechanism	Included
Max. longitudinal speed	10.000 [mm/min]
Max. torch tilting	+50° ÷ -50°
Fume exhaust system	Optional
Oxy - fuel cutting	Included
Ignition	Manual
Oxy - fuel cutting set for 3- 50mm wall thickness for up to 45° beveling angle	Included
Cutting length accuracy	± 1,5 [mm]
Cutting positioning accuracy	± 1,0 [mm]
Cutting repeatability accuracy	± 1,0 [mm]
Bevel accuracy	± 2 [°]
Standard macros library	incl. - 10 types of profiles, more profiles optional
Long clamps to shorten scrap length	optional

Cutting process can be stopped at any point. The machine enables to withdraw torch along the cutting trajectory and manual re-start of the process, afterwards.

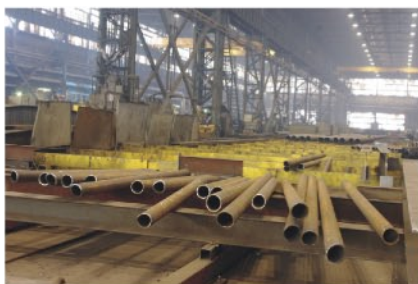
Workpiece length "L" is determined by PPCM automatically as shown below.



Samples of spatial profiles:



PPCM features 4 axes controlled numerically as shown above.



All information is subject to change without further notice version 01/2012

Specific dimensions and capacities of Pipe Profile Cutting Machine can be customized and agreed individually.



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