

PUMA - THE PIPE PROFILE CUTTING SUITE



Puma - R



The CNC based pipe profile cutting machine PUMA, is a unique innovative product from Technocrats. It can be used for all profile cutting needs on smaller as well as bigger size pipes. It is available in different size variants. Puma can either be Chuck driven or Conveyor driven. The machine uses state-of-the-art technology in cutting (plasma or oxy-fuel), electronics and software. It delivers superb cut quality and productivity at a much lower overall cost. It eliminates time consuming processes of forming templates and manual cutting and subsequent grinding. It produces smooth cut profiles as per drawings, and all that in a fraction of the time involved in manual processes. All these qualities put together, Puma profile cutting equipments provide an excellent ROI.

FEATURES

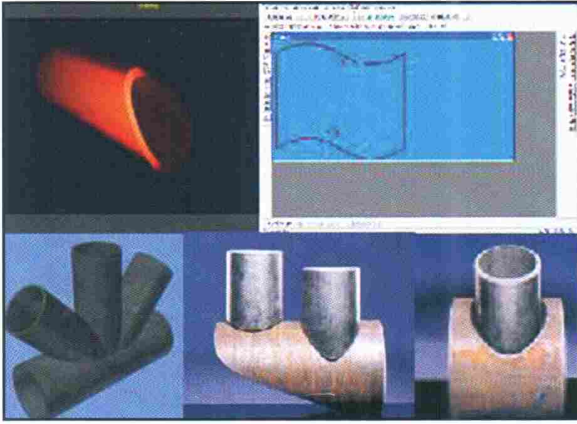
- Two variants- Chuck- held/ Resting on conveyor
- Profiles in accordance with AWS and API standards (Miter, Saddle, Hole) or any other profile extracted from drawings
- Suitable for plasma/ oxyfuel
- Provision for beveling
- Software for unfolding and DNC software built-in
- Upto six controlled Axes with precision machined Rack and Pinion Drives/ Ball screw mechanisms
- Precision guide ways.
- Digital AC Servo drives and motors for high speed, superb control, high precision and high repeatability
- Low backlash (<7 arcmin) heavy-duty gearboxes for smooth motion
- Cable drag chains for hoses and cables
- Positioning Accuracy: +/- 0.5mm, Repeatability: +/- 0.5mm
- Drive rack mounted directly on surface with precision guide ways for precise alignment
- Drive speed up to 15m/min
- Bluetooth compatible, CANBUS interface

More Features :

- Working length- flexible (1m to 20m)
- Import CAD drawings (.dwg, .dxf, etc)
- Remote diagnostics
- Portable yet robust
- Optimal space utilization
- Longitudinal conveying
- User friendly
- Flexible- oxy fuel/plasma
- Versatile- can cut any profile
- High accuracy and repeatability
- Super cut quality
- Numerous interface options
- Maintenance free
- Remote diagnostics
- Low cost of ownership
- BEVEL unit can be added
- Bluetooth enabled (option)
- Provision for scissor supports (chuck held type)
- Provision for longitudinal transfer of pipe (conveyor type)
- Torch height control (optional)

	Suitable for Oxy / Plasma	No. of Axis	Max round pipe dia (mm)	Max round pipe length (mm)	Max Bevel angle	Pipe Support	Longitudinal conveyor	SOFTWARE-CAD conversion, Unfolding, DNC, Cutting Simulation
PUMA-K 50/100/150/200	Yes	2 + Height Control (Optional)	200	6000	70	Trolley	No	Yes
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Puma Soft-Unfold profile and generate codes



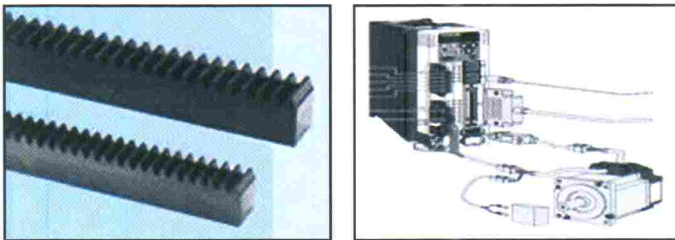
AutoCAD compatible software allows to click on a pipe, unfold the surface and generate ISO codes for the CNC, all in a matter of a few clicks.

- DXF import feature
- Explode solid pipes and unfold surface
- G code generation
- Cutting sequence customization

System requirements:

- Microsoft® Windows® XP Professional (SP2 or later)
- Intel® Pentium® 4 or AMD Athlon® dual-core processor, 1.6 GHz or higher
- 2 GB RAM
- 1 GB free disk space for installation
- 1,024 x 768 VGA display with true color

Precision racks, pinions, gearboxes and drives



Positioning speed and accuracy of cutting depends on the selection of components. Panther series uses most meticulously picked components to achieve positioning Accuracy: $\pm 0.2\text{mm}$ and repeatability: $\pm 0.1\text{mm}$ constantly and consistently over years.

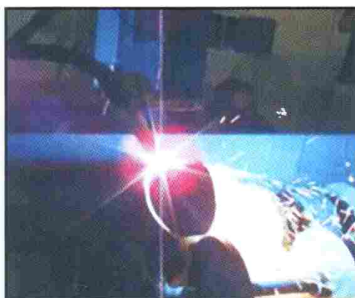
CNC Controller



Controllers are possibly the most critical part of the cutting equipment. These controllers are standalone controllers with embedded intelligence. These controllers also have built-in PLC's where customized programs can be downloaded.

Ease of operation: Navigation is through touchscreen based menu driven user interface making it extremely easy to operate. Large display screen shows real time cutting graphics.

PLASMA & OXYFUEL



- The Puma can be interfaced with a wide variety of Plasma sources including our own KALI (both converterized and inverterized), Kjellberg or Hypertherm.
- Height control for the torch is provided on the main panel.
- The Puma series can be also interfaced with an oxy-fuel torch. Up/Dn control for the torch is provided on the main panel.



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