

## US80 Pipe Beveling Machine

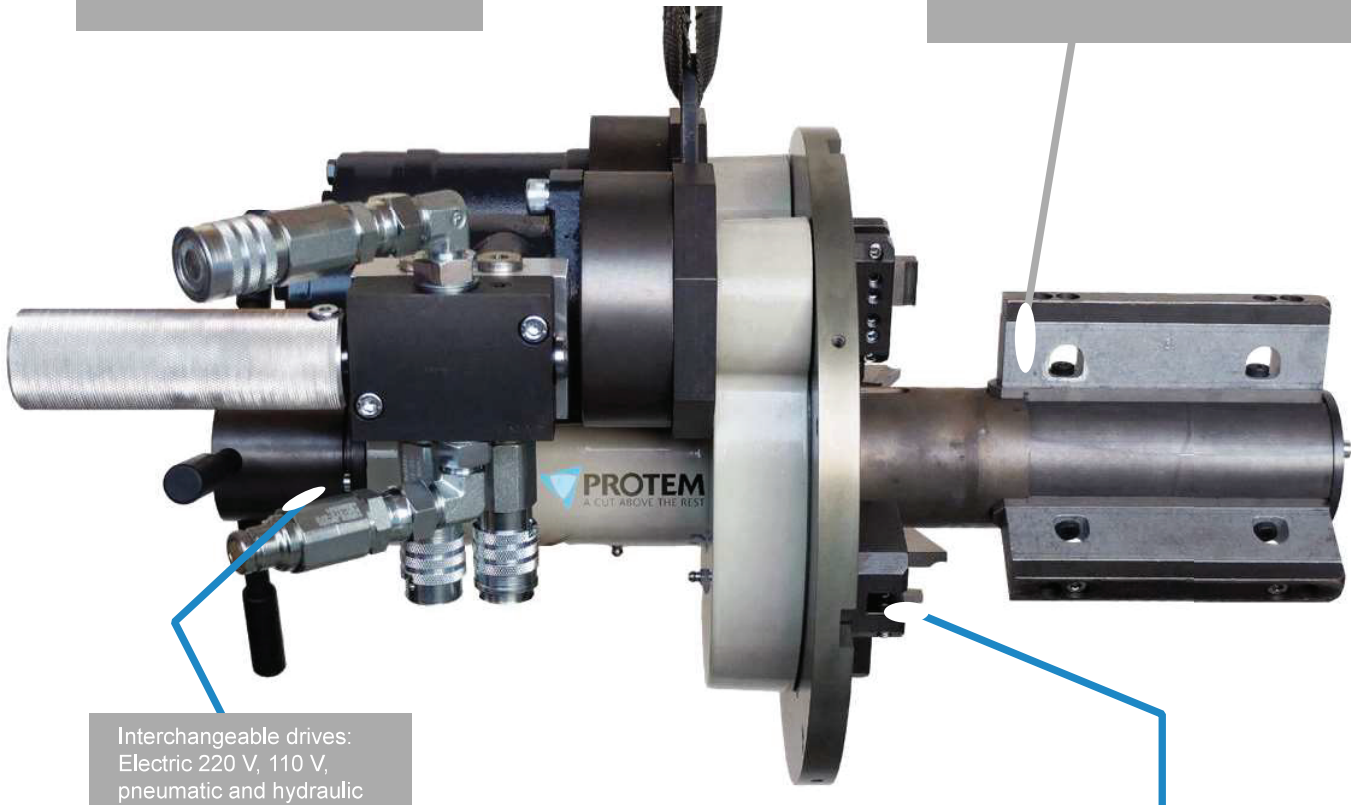
Rugged, dependable,  
versatile

Different configurations are possible to  
suit different types of applications.

Clamping jaws are available in several  
different configurations.

Additional clamping jaws extend the  
capacity of the machine.

Several clamping options are available  
for specific applications. For example,  
the clamping can be done automatically.



Interchangeable drives:  
Electric 220 V, 110 V,  
pneumatic and hydraulic

The PROTEM US-SERIES will  
perform repeatable high quality  
weld preparations on all types of  
materials including mild, chrome,  
stainless steel, duplex, super  
duplex, copper-nickel alloy steel,  
inconel, P91, aluminium, copper  
exotic alloys..

Up to four tool-bits can be  
mounted so that machining  
operations, such as facing,  
beveling and counterboring can  
be carried out simultaneously.

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## US80 Pipe Beveling Machine

Standard Capacity: 80mm - 355mm (3.149" - 13.976")

Extended Capacity: 80mm - 406.4mm (3.149" - 16")



US80 with hydraulic drive

The US80 portable tube and pipe heavy duty beveler combines durability, reliability, efficiency and versatility in one machine, providing a safe and easy use for all operators. The standard tool-plate will accept multiple tool-bits, allowing up to four simultaneous machining operations. Such operations may include 30°, 37°30', 45° bevels with or without land, J-bevels, compound bevels, facing, counterboring operations, etc.

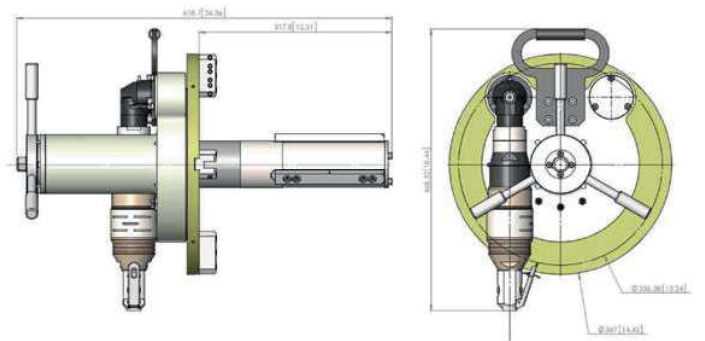
The US80 heavy duty beveler will perform repeatable high quality weld preparations on all types of materials including mild steel, chrome, stainless steel, duplex, super duplex, copper-nickel alloy steel, inconel, P91, aluminium, copper and exotic alloys. It can be either pneumatically, electrically or hydraulically driven. The tool-bits can be changed and adjusted very quickly. Carbide tool inserts may also be used.

Beveling	Squaring	Counterboring	Cut to length	Weld Joint Removal	Coating Removal	Saddles	Surfacing
✓	✓	✓	✓	✓	✓	✗	✓

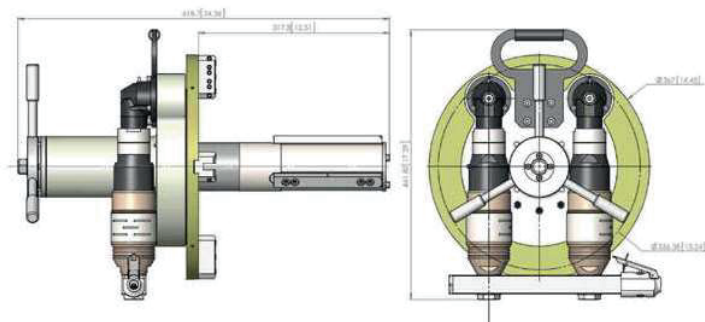
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### Advantages:

- Transportable
- Powerful Machining Equipment
- Easy and Safe use for the Operators
- No Heat Affected Zone
- High Accuracy
- Fast and easy mounting
- The tool-bits can be changed and adjusted very quickly
- Adapted for works in tight spaces
- The machine can be used in all positions: vertical, horizontal, over head
- Versatile Cutting Head: the tool-holder plate can accept up to 4 tool-bits for simultaneous machining operations (land, bevel, counterboring, j prep)
- Smooth and Burr-Free Surface Finish
- No vibration during the machining process



Dimensions single pneumatic drive



Dimensions dual pneumatic drive

## US80 Pipe Beveling Machine

### Technical Features:

<b>Specific shapes &amp; angles</b>	Facing 90°, bevel 30°, 37°30', 45°, counterbore, J-bevel, other on request
<b>Clamping</b>	Manual with a key
<b>Feed stroke</b>	60 mm (2.362")
<b>Expansion</b>	25 mm (0.984")
<b>Cutting head gear drive</b>	16 rpm off-load speed 11 rpm nominal speed. Approximate rotation speed according to air pressure and air flow
<b>Single pneumatic drive</b>	1,47 kW, 6 bar (87 psi), 1800 l/min (63 cfm)
<b>Double pneumatic drive</b>	2 x 1,47 kW, 6 bar (87 psi), 2 x 1800 l/min (2 X 63 cfm)
<b>Electric drive</b>	220 V (2200 W) 110 V (1800 W)
<b>Pneumatically driven machines have to be used with a lubricating filter. Recommended option: regulation valve.</b>	

Order No.	Description
US80-1000	Heavy Duty Pipe Facing Machine with dual pneumatic drive, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1002	Heavy Duty Pipe Facing Machine with pneumatic drive, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1020	Heavy Duty Pipe Facing Machine with electric drive 220V, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1060	Heavy Duty Pipe Facing Machine with dual hydraulic drive and regulation valve, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1062	Heavy Duty Pipe Facing Machine with hydraulic drive, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1064	Heavy Duty Pipe Facing Machine with single hydraulic drive and regulation valve, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1066	Heavy Duty Pipe Facing Machine with single hydraulic drive, for Ø 3.149" - 13.976" (80mm - 355mm)
US80-1080	Heavy Duty Pipe Facing Machine with brushless electric drive --Three-Phase Motorization-- Please indicate the required voltage and frequency for your application. For Ø 3.149" - 13.976" (80mm - 355mm)
US80DSB-1000	Heavy Duty Pipe Facing Machine with dual pneumatic drive, regulation valve and dual bearing (higher accuracy) for Ø 3.149" - 13.976" (80mm - 355mm)
US80DSB-1060	Heavy Duty Pipe Facing Machine with dual hydraulic drive, regulation valve and dual bearing (higher accuracy) for Ø 3.149" - 13.976" (80mm - 355mm)

### Applications:



### Use On-Site or in Workshop:



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## US80 Pipe Beveling Machines

## Options & Accessories

### US80 Crates:

Order No.	Description
US80-K01	Transport crate for US80 pneumatic / hydraulic
US80-K02	Transport crate for US80 pneumatic / hydraulic + cover
US80-K03	Transport crate for US80E
US80-K04	Transport crate for US80E-BRUSHLESS
US80-K05	Transport crate for US80 in stainless steel for pneumatic / hydraulic
US80-K06	Transport crate for US80-ASB
US80-K07	Transport crate for copying carriage for US80
US80PR/C-K01	Transport box for US80-EMA-NG N°1

### US80 Elbow Mandrels:

Order No.	Description
US80PR/C-1001	Elbow mandrel assembly EMA for US80 for Ø 3.149" - 6.224" (80mm - 158,1mm)
US80PR/C-1002	Elbow mandrel assembly EMA for US80 for Ø 5.905" - 10.465" (150mm - 265,8mm)



### US80 Further Options:

Order No.	Description
US80-2400	Flange resurfacing module for flanges from 3,9" to 24" OD. Implementation of a flange facing attachment on a US80 to resurface damaged flat and raised faced flanges in-place. Single Point Machining
US80-2700	Bench mounting device for US80
US80-2800	ID Tracker for US80 for Ø 4.724" - 8.622" (120mm - 219mm)
US80-3000	Copying carriage for US80 Stroke 2.952" (75mm)
US80-3100	Electric motorisation brushless, Three phase motorisation, please indicate the required voltage and frequency
US80-3200	Tool-holder for diameter up to 406,4 mm (16")














US80-2400 Flange Facing Attachment



## US80 Pipe Beveling Machine

## Tool-Bits

Order No.	Description	Picture
O-US-PP30-9-14026	Insert-holder 30°	
O-US-PP375-9-14007	Insert-holder 37,5°	
O-US-PP45-9-14008	Insert-holder 45°	
O-US-PP90-9-11066	Insert-holder 90°	
O-VIS-V5	Screw for tool insert P2	
O-US-P1-6-H-T	Tool-insert for US80-TIH-30	
O-US-P2-6-H-T	Tool-insert for US80-TIH-90	
O-US-P1-DUPLEX-30	Tool-insert for US80-TIH-30	
O-US-P2-DUPLEX-0	Tool-insert for US80-TIH-90	

Order No.	Description	Picture
O-US-A1-9-H-27	Tool-bit 90°	
O-US-A2-9-H-26	Tool-bit for 30° bevel	
O-US-A3-9-H-28	Tool-bit for 37°30 bevel	
O-US-A4-9-H-25	Tool-bit for counterboring 15°	
O-US-A5-9-H-85	Tool-bit for 45° bevel	
O-US-B6-9-H-54	Tool-bit 90°, with disalignment	
O-US-B7-9-H-56	Tool-bit 30°, with disalignment	
O-US-B8-9-H-59	Tool-bit 37°30, with disalignment	
O-US-B9-9-H-61	Tool-bit for counterboring 15°, with disalignment	
O-US-B11-9-H-15	Tool-bit for counterboring and squaring	
O-US-C5-9-H-63	Tool-bit for 7° R6 j-bevels	
O-US-C6-9-H-65	Tool-bit for 12,5° R6 j-bevels	
O-US-C7-9-H-67	Tool-bit for 7° R6 j-bevels, with disalignment	
O-US-C8-9-H-69	Tool-bit for 12,5° R6 j-bevels, with disalignment	
O-US-C9-9-H-29	Tool-bit for 10° R1,5 j-bevels	
O-US-C10-9-H-70	Tool-bit for 20° j-bevels	

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