

US150 Pipe Beveling Machine

Clamping jaws are available in several different configurations.

Additional clamping jaws extend the capacity of the machine.

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

Rugged,
dependable, versatile

Different configurations are possible to suit different types of applications.



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

Interchangeable drives:
Electric 380 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..

ID Mounted

US150 Pipe Beveling Machine

Standard Capacity: 150mm - 508mm (5.905" - 20")

Extended Capacity: 150mm - 610mm (5.905" - 24.015")



US150 with pneumatic drive

The US150 heavy duty beveler is a reliable and powerful machine that performs repeatable, high quality weld end preparation operations on all metal pipes including mild steel, chrome, stainless steel, duplex, super duplex, coppernickel alloy steel, inconel, P91, aluminium, copper and exotic alloys. The US150 covers Ø ranging from 150mm (5.905") ID to 508mm (20") OD. This machine can also be delivered with its 610mm (24.015") tool-holder plate. It can be either pneumatically, electrically or hydraulically driven.

The standard tool-plate will accept multiple tool-bits, allowing up to four simultaneous machining operations. Operations may include 30°, 37°30, 45° bevels with or without land, J-bevels, compound bevels, facing, counterboring operations, etc.

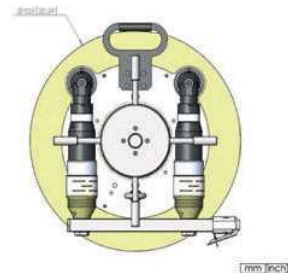
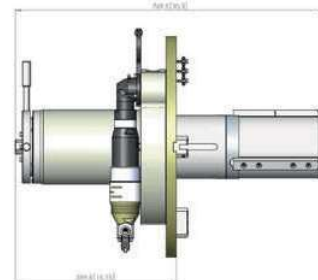
The tool-bits can be changed and adjusted very quickly. Carbide tool-inserts may also be used. Easy to use, dependable and versatile, the US150 will allow you to drastically optimize your tube and pipe welding preparation works.

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



US150 Brushless drive

US150 Pipe Beveling Machine

Technical Features:

Specific shapes & angles	Facing 90°, bevel 30°, 37°30, 45°, counterbore, J-bevel, other on request
Clamping	Manual with a key
Feed stroke	100 mm (3.937")
Expansion	30 mm (1.181")
Cutting head gear drive	7-10 rpm off-load speed 5-7 rpm nominal speed. Approximate rotation speed according to air pressure and air flow
Single pneumatic drive	1,47 kW, 6 bar (87 psi), 1800 l/min (63 cfm)
Double pneumatic drive	2 x 1,47 kW, 6 bar (87 psi), 2 x 1800 l/min (2 X 63 cfm)
Electric drive	380 V (2200 W)
Pneumatically driven machines have to be used with a lubricating filter. Recommended option: regulation valve.	

Order No.	Description
US150-1000	Heavy Duty Pipe Facing Machine with dual pneumatic drive, for Ø 5.905" - 20" (150mm - 508mm)
US150-1020	Heavy Duty Pipe Facing Machine with single electric drive - 2.2 kw power - 380 V with dual direction of rotation, speed regulator, emergency stop & Three-phase motorization. Please indicate the required voltage and frequency, for Ø 5.905" - 20" (150mm - 508mm)
US150-1022	Heavy Duty Pipe Facing Machine with single electric drive - 2.2 kw power - 380 V with dual direction of rotation, speed regulator, emergency stop & Three-phase motorization. Please indicate the required voltage and frequency. Fitted with extension Kit24" for Ø 5,905" - 24.015" (150mm - 610mm)
US150-1060	Heavy Duty Pipe Facing Machine with dual hydraulic drive and regulation valve. For Ø 5,905" - 20" (150mm - 508mm)

Order No.	Description
US150-1062	Heavy Duty Pipe Facing Machine with dual hydraulic drive, for Ø 5,905" - 20" (150mm - 508mm)
US150-1064	Heavy Duty Pipe Facing Machine with single hydraulic drive and regulation valve. For Ø 5,905" - 20" (150mm - 508mm)
US150-1066	Heavy Duty Pipe Facing Machine with single hydraulic drive, for Ø 5,905" - 20" (150mm - 508mm)
US150-1068	Heavy Duty Pipe Facing Machine with dual hydraulic drive and regulation valve. Fitted with extension Kit24" for Ø 5,905" - 24.015" (150mm - 610mm)
US150-1080	Heavy Duty Pipe Facing Machine with brushless electric drive & Three-Phase Motorization. Please indicate the required voltage and frequency for your application. For Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1000	Heavy Duty Pipe Facing Machine with dual pneumatic drive and dual bearing for higher accuracy. For options US150-3000, US150-3100, US150-3200, for Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1002	Heavy Duty Pipe Facing Machine with dual pneumatic drive and dual bearing for higher accuracy. For Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1060	Heavy Duty Pipe Facing Machine with dual hydraulic drive and dual bearing for higher accuracy. For Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1062	Heavy Duty Pipe Facing Machine with dual hydraulic drive. For Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1064	Heavy Duty Pipe Facing Machine with single hydraulic drive and dual bearing and regulation valve for higher accuracy. For options US150-ASB, US150-KS75-30, US150-KS75-36, for Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1066	Heavy Duty Pipe Facing Machine with single hydraulic drive. For Ø 5,905" - 20" (150mm - 508mm)
US150DSB-1068	Heavy Duty Pipe Facing Machine with dual hydraulic drive, dual bearing and regulation valve. Fitted with extension Kit24" for Ø 5,905" - 24.015" (150mm - 610mm)

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Use On-Site or in Workshop:



US150 Pipe Beveling Machines Options & Accessories

US150 Crates:

Order No.	Description
US150-K01	Transport crate for US150 pneumatic / hydraulic
US150-K02	Transport crate for US150 pneumatic / hydraulic with US150-Kit24"
US150-K03	Transport crate for US150 pneumatic / hydraulic + cover
US150-K04	Transport crate for US150 pneumatic / hydraulic with US150-Kit24" + cover
US150-K05	Transport crate for US150E
US150-K06	Transport crate for US150E with Kit24"
US150-K07	Transport crate in stainless steel for US150 pneumatic / hydraulic
US150-K08	Transport crate for US150E-BRUSHLESS
US150-K09	Transport box for US150-ASB
US150-K10	Transport crate for copying carriage 30" for US150
US150-K11	Transport crate for copying carriage 36" for US150
US150PR/C-K01	Transport box for US150-EMA-NG N°1

US150 Elbow Mandrels:

Order No.	Description
US150PR/C-1000	Elbow mandrel assembly EMA for US150 for Ø 10.275" - 20" (261mm - 508mm)



US150-Kit24":

Order No.	Description
US150-2700	Tool-holder for diameter up to 610mm (24.015")



US150ASB Flange Facing Attachments:

Order No.	Description
US150ASB-1223	Tool-holder OD for flange facing attachment ASB
US150ASB-1224	Tool-holder ID for flange facing attachment ASB
US150-3000	Flange resurfacing module for US150 (Arm Surfacing Belt). Clamping capacity: 150 - 508mm; Surfacing with continuous feed (in connection with the rotation speed). Constant surface finish, 5 different feed rates are available which allows to get various surface finishes. Recommended to be used with a US150 DSB type machine.



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US150 Pipe Beveling Machines Options & Accessories

US150 Copying Carriage:

Order No.	Description
US150-3100	Copying carriage for US150 Stroke 2,952" (75mm) for pipe Ø up to 30" (762mm)
US150-3200	Copying carriage for US150 Stroke 2.952" (75mm) for pipe Ø up to 35.433" (900mm)



US150 Mounting device:

Order No.	Description
US150-2500	Bench mounting device for US150



US150 ID & OD Tracker:

Order No.	Description
US150-3400	ID-Tracker (to keep a constant land when tube is oval; 5 mm at the radius. Can be used from 210 mm ID to 508 mm OD, limited tube wall thickness according to material and bevel type)
US150-3500	OD-Tracker (to keep a constant land when tube is oval. Can be used from 324,6 mm ID to 489,6 mm OD, limited tube wall thickness according to material and bevel type)



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US150 Spider Assembly:

Order No.	Description
US150PR/C-1001	Spider assembly ranging from 20" to 30" (to be used with copying / flange facing carriages US150-3100 and US150-3000)
US150PR/C-1002	Spider assembly ranging from 20" to 35.433" (to be used with copying / flange facing carriages US150-3200 and US150-3000)








US150 Pipe Beveling Machine

Tool-Bits

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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 US150-TIH-30	
O-US-P2-6-H-T	Tool-insert for US150-TIH-90	
O-US-P1-DUPLEX-30	Tool-insert for US150-TIH-30	
O-US-P2-DUPLEX-0	Tool-insert for US150-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	