

US25CH Tube Beveling Machine

Up to four tool-bits can be mounted so that machining operations, such as facing, beveling and counterboring can be carried out simultaneously. Two or more tool bits used simultaneously ensure a perfect balance of forces during the machining operations.

Clamping jaws are available in several different configurations. Clamping jaws for expanded tubes are also available. Clamping is perfectly concentric.

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.

Interchangeable drives:
 Electric 220 V, Electric 110, Cordless 220 V, Cordless 110 V, Pneumatic

Light, rugged, dependable, versatile

Safety Handle

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..

Different configurations are possible to suit different types of applications.

ID Mounted

US25CH Boiler & Heat Exchanger Tubes Beveling Machine

Standard Capacity: 24mm - 90mm (0.944"-3.543")

Extended Capacity: 12,7mm - 120mm (0.5" - 4.724")



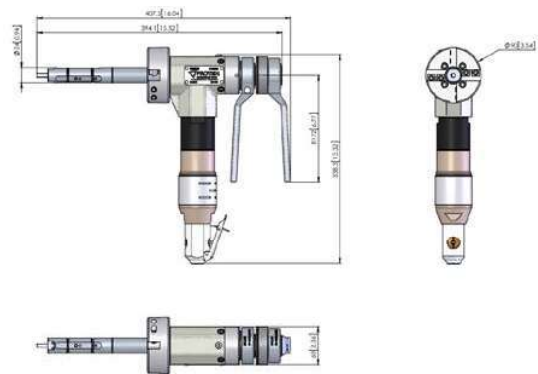
US25CH with pneumatic drive

The PROTEM US25CH will perform repeatable high quality weld end preparations on virtually all materials including mild, chrome, stainless steel, duplex, super duplex, copper-nickel alloy steel, inconel, P91, aluminium, copper, exotic alloys, etc...

The ID mount and portable US25CH is adapted for the maintenance and repair of Boiler and Heat Exchanger Tubes. It features a modified torque, the tool-holder plate features 2 grooves to mount standard HSS tool-bits, 2 grooves with locking wedges to mount insert holders, the addition of a double-lip seal to prevent chips from entering into the machine when working on ceiling mounted panels/components, the addition of a sintered guide ring to replace the needle bearing, the addition of a bushing (protection against chips), a specific longer clamping shaft (specifically designed to clamp after flared parts) basic blades with a 8° angle

Beveling	Squaring	Counter-boring	Cut to length	Weld Joint Removal	Coating Removal	Saddles	Surfacing
✓	✓	✓	✓	✓	✓	✗	✓

ID Mounted



Dimensions

Advantages:

- Portable
- 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



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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	35 mm (1.378")
Expansion	10 mm (0.394")
Cutting head gear drive	150 rpm off-load speed 70 rpm nominal speed. Approximate rotation speed according to air pressure and air flow
Pneumatic drive	730 W, 6 bar (87 psi), 1400 l/min (49 cfm)
Electric drive	110 V (1500 W) or 220 V (1050 W)
Pneumatically driven machines have to be used with a lubricating filter. Recommended option: regulation valve.	

Order No.	Description
US25CH-1010	Boiler Maintenance Unit US25CH, fitted with tool-holder plate Ø 2.362" (60mm) and pneumatic drive MO10.
US25CH-1012	Boiler Maintenance Unit US25CH, fitted with tool-holder plate Ø 3.543" (90mm) and pneumatic drive MO10.
US25CH-1014	Boiler Maintenance Unit US25CH, fitted with tool-holder plate Ø 2.952" (75mm) and pneumatic drive MO10.
US25CH-1016	Boiler Maintenance Unit US25CH, fitted with tool-holder plate Ø 4.724" (120mm) and pneumatic drive MO10.
US25CH-1020	Boiler Maintenance Unit US25CH, fitted with tool-holder plate Ø 3.543" (90mm) and electric drive 220V.
US25CH-1040	Boiler Maintenance Unit US25CH, fitted with tool-holder plate Ø 3.543" (90mm) and electric drive 110V.

Applications:



ID Mounted

Use On-Site or in Workshop:

