

# US 450

For heavy duty end forming of tubes and pipes

**PROTEM GmbH**

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# US 450

The most powerful, versatile and reliable heavy duty bevelling tool on the market!

Tube and Pipe bevelling machine PROTEM US450 – For diameters:  
420 mm (16,4”) ID bis 920 mm (36”) OD

## For unmatched results!

- ✓ Portable ID locking tube end forming machine
- ✓ Perfect weld preparation
- ✓ Suitable for I, V, J-preps, compound bevels, weld removals, lengthening of tubes, counter boring works...

WE DELIVER  
UNMATCHED SOLUTIONS!  
To machine perfect weld  
preparations

## The PROTEM US 450 features

**A wide capacity:** For diameters ranging from  
420 mm (16,4”) ID bis 920 mm (36”) OD

**Versatile cutting** head accepting up to 4 cutting bits:  
Four machining operations can be carried out  
simultaneously or individually

**Feed length** suitable for deep counterboring works  
**Safe and easy to use**

**The very robust and reliable air-powered or hydraulic powered** US 450 tube and pipe end forming machine performs repeatable, high quality weld-preps on most metal pipes including including mild, chrome, stainless, copper-nickel alloy steel, duplex, super duplex, inconel, P91, copper and exotic steels, aluminium ...

Developed and tested in collaboration with users and approved by them worldwide!

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and reliable heavy duty  
beveling tool on the market!

Developed and tested  
in collaboration with  
users and approved  
by them worldwide!

For construction,  
inspection and  
repair works  
on site or in the  
assembly workshop

- ✓ Available with a dual pneumatic drive or a dual hydraulic drive (to be used with a 22KW hydraulic power pack).
- ✓ The durability, reliability, capacity of the Us450 earned this machine the excellent reputation it enjoys wherever it is used around the world



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# Technical Data US 450

## Clamping range:

**420 mm ID – 920 mm OD**  
16,4" ID – 36" OD

## Manual clamping:

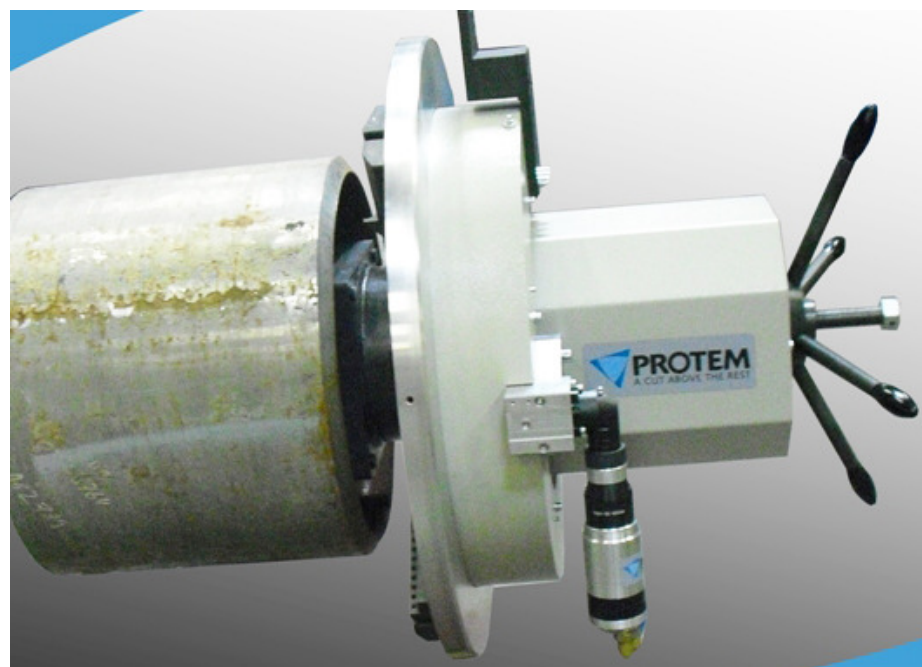
**Stroke 26 mm at the radius**  
Stroke 1.02" at the radius

## Manual feed:

**100 mm stroke**  
3,9" stroke

## Machine is delivered with:

- ✓ 1 tool holder plate
- ✓ 4 tool bit holders
- ✓ 1 set of clamping blades
- ✓ 1 tool bit 90°
- ✓ 1 tool bit 30°
- ✓ Keys and screws
- ✓ Operating manual



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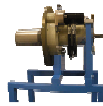
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**US450-K01**      Crate for US450

**US450-OPT.5**



Bench support for US450

**US450-IDT**



ID-Tracker: enables the US150 to maintain a consistent root land thickness independently of the pipe ovality or wall thickness variations

**US450-KS75**



Copying carriage

**US450-ASB**



Flange facing: 18'' to 60'' – 450,20 mm to 1523 mm

**HY-HPP 200**



Hydraulic Power Pack (22 kW) tropicalization

**FRL300**



Maintenance unit for pneumatically operated machines with dual motor pack

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**Kit02**



Flexible tubing set for pneumatically operated machines

**F-Lub-0,5-L**

Oil for-lubrication filter (bottle of 0,5 L)

**F-Lub-1-L**

Oil for-lubrication filter (bottle of 1 L)

**F-Lub-5-L**

Oil for-lubrication filter (bottle of 5 L)

**OPT-RP**



Pneumatic regulation valve

**OPT-SPH**



Chip Hook

*Other options on request*

**Tool bits for machine type US450**

**O-US-A7**

O-US-A7 tool bit 90°

**O-US-A8**

O-US-A8 tool bit for 30° bevel

**O-US-A9**

O-US-A9 tool bits for 37°30 bevels

**O-US-A10**

O-US-A10-85 tool bit for 45° bevels

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# Contact & Comments

## Our commitment! **Your satisfaction!**

Serving our customers around the world with competence, efficiency and a reliable service is our main target. Whatever your questions, do not hesitate to consult us. Our staff will be always advise you in a professional manner the right equipment that will meet your technical requirements.

**Call or email** us for more information!

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## Comments:

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