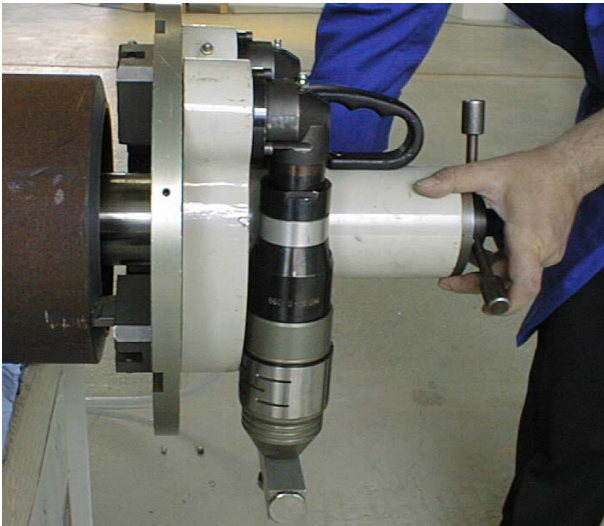


## A CUT ABOVE THE REST

### Inside clamping beveling machine type US 80

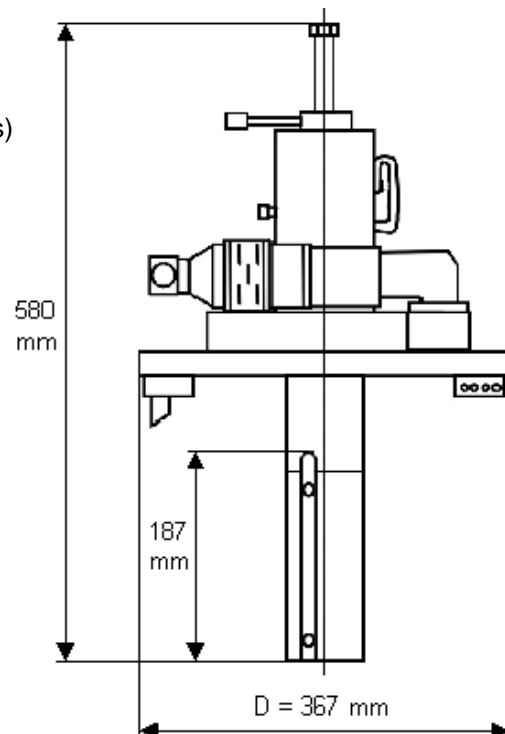


The US 80 is a heavy duty portable pipe beveling tool designed for high quality portable beveling, facing and machining on pipe and tube from 3.5" ID to 14" OD (80 to 360 mm). Each standard tool plate accepts multiple tool bits allowing up to four simultaneous machining operations. Such operations may include beveling, facing, counterboring, compound beveling and OD chamfering on heavy wall materials.

The US 80 features a self-accepting torque system and an integral drive motor. The rugged US 80 is capable of performing repeatable high quality weld preparations on all machinable alloy pipes, including stainless steel and other high nickel alloys.

### TECHNICAL FEATURES:

<b>Machining capacity:</b>	80 mm ID – 360 mm OD
<b>Clamping capacity:</b>	80 mm ID – 355 mm ID
<b>Machining functions:</b>	Bevel, face, counterbore or multiple angle bevel (I, V, J bevels)
<b>Clamping:</b>	manual, with key
<b>Expansion:</b>	25 mm
<b>Feed:</b>	manual feed, 60 mm travel
<b>Weight:</b>	40 kg (with pneumatic drive)
<b>Dimensions:</b>	please see drawing
<b>RPM:</b>	Off-load speed: 16 rpm Nominal speed: 11 rpm
<b>Drive:</b>	pneumatic drive
<b>Power:</b>	1,5 kW or 2 x 1,5 kW
<b>Working pressure:</b>	6 bar
<b>Air intake:</b>	2200 l/min pro Motor
<b>Optional equipment:</b>	see back of the data sheet



This machine must be equipped with a lubricating filter !

Subject to technical modification without prior information !



Pipe beveling machine  
type US 80

## A CUT ABOVE THE REST

### OPTIONAL EQUIPMENT:

#### Flange Facing Equipment:

Single point machining attachments are available on request. They can be field mounted to the main housing and are capable of resurfacing worn or damaged "weld neck" type flanges.

#### Enveloping Jaws:

Enveloping jaws mandrel attachments are used to distribute the mandrel clamping load over a larger ID area when facing or beveling thin wall or soft pipe and tube.

Enveloping jaws eliminate deformation of the tube caused by "point" loading associated with standard mandrel blades. Enveloping jaws are recommended for schedule 5 and 10 pipe or tube with wall thickness less than 0.120" (3.048 mm). One enveloping jaw may be used for a range of wall thickness on the same size pipe.. Protem enveloping jaws are manufactured of aluminium material. Other materials are available to meet the needs of specific applications.

Consult Protem for applications details.

#### Elbow Mandrel Adapters:

Elbow mandrel adapters allow the US 80 to operate on short tangent fittings such as elbows, tees and valves. Additionally, the US 80 elbow mandrel adapters can be used for other applications when internal obstructions are present and standard mandrel system will not fit axially into the component.

#### ID-Tracker:

The US 80 ID Tracker allows sensing of the tube or pipe ID as a reference for the tool bit. This option enables the US 80 to maintain a consistent root land thickness independent pipe ovality or wall thickness variations. The standard US 80 ID Tracker is intended for pipe wall thickness less than .75" (19 mm). Heavy duty ID Trackers can be supplied upon request. Consult Protem for further details.

#### Auxiliary Motor Drive System:

The US 80 Auxiliary Motor Option will convert a standard US 80 to a dual right pneumatic drive system (2 x 1,5 kW). This option is recommended to heavy wall applications and / or larger pipe diameters. This option includes an air manifold that connects both motors to a single air supply source and single air control valve.

For more information on specific applications, please call Protem.



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