



**Practical
Tools Inc.**



US30 CH N° 30302
PROTEM
28800 ETOILE/RHONE - FRANCE
Tél. +33(0)4 75 57 41 41 - www.protem.fr
CE 2013 ISO 9001:2008

**Tube and Pipe Beveling Machine
Boiler Machine**

US30-CH

PRACTICAL TOOLS INC.
P.O. Box 233
Aurora, ON L4G 3H3, Canada
Phone: 905-727-0014 / 888-847-8880
Fax: 905-727-8483
info@practicaltoolsinc.com
www.practicaltoolsinc.com





US30-CH

ID clamping, **beveling** machine tubes, pipes and boiler tubes

The US30-CH portable pipe beveling tool is the most powerful, long-lasting, reliable and versatile beveling/facing machine in the world.

The US30-CH covers diameters ranging from 1.181" to 6.626" ID – 33 to 168.3 mm.

The standard tool plate will accept multiple tool bits, allowing up to four simultaneous machining operations.

The tool bits can be changed and adjusted very quickly. Carbide tool inserts may also be used.

The US30-CH features a self-accepting torque system and an integral drive motor.

Such operations may include beveling, 30° and 37°30, 45° bevels, J-bevels, facing, counterboring, compound beveling, OD chamfering, removal of weld joints on tube sheets, replacement of tubes on tube sheets.

WE DELIVER UNMATCHED SOLUTIONS!

To machine perfect weld preparations

The PROTEM US30-CH 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.

OPTIONS:

- Flange facing/single point machining available on request.
- Clamping mandrel for elbows, fittings, tees and flanges.
- Specific milling head for use on membrane walls and boiler panels (US30-CH TA)
- Quick clamping device for serial machining operations
- Automatic feed and automatic clamping – US30 CA
- Tool holder plate for diameters up to 6"
- For almost all environments; irradiated areas, extreme conditions, subsea, etc.

Developed in collaboration with the users, tested and approved by 100 % of them





US30-CH

The PROTEM US30-CH is the machine you will need for all your beveling operations!

Machining capacity:

32 mm ID - 117 mm OD

1" ID - 4.6" OD

Clamping capacity:

32 mm ID - 117 mm ID *

1" ID - 4.6" OD

**Possible capacity up to 168mm (7") with specific tool holder plate and additional clamping blades*

Bevel forms:

Facing, 30° and 37°30, 45° bevel, J-bevel, compound bevels, removal of weld joints, cutting tubes to length and other applications on request

Clamping: Manual with key

Expansion: 9 mm - 0.35"

Feed stroke: 35 mm - 1.38"

Cutting head gear drive: 0 - 30 rpm

Machine is delivered with:

- Tool holder plate
- Sets of clamping blades for the diameters shown above
- 1 facing tool bit
- 1 30° bevelling tool bit
- Keys and screws



- ✓ Perfect weld preparation
- ✓ Membrane walls and boiler panels
- ✓ For construction, inspection and repair operations on-site or in the fabrication workshop

Ready to use!



Practical Tools Inc.

Technical data & equipment – US30-CH

Order No.	Article	Weight
US30-CH	↘ US30-CH with pneumatic drive 730 W and tool holder Ø 130mm (5.1")	~ 20 LB
US30-CH/E	↘ US30-CH with electric drive 1050 W and tool holder Ø 130 mm (5.1")	~ 20 LB
US30-CH/CA	↘ US30-CH CA with pneumatic drive and automatic clamping	~ 22 LB
US30-CH/HY	↘ US30-CH HY with hydraulic drive	~ 22 LB

* Please note that the US30-CH with the electric drive has limited capability for the machining of tubes with large diameters (>89 mm / 3.5") in connection with heavy wall thicknesses (>10 mm / 0.4"). Please contact us if you plan to use the US30-CH in this manner.

The pneumatic drive has unlimited capability for the machining of tubes with large diameters and heavy wall thicknesses. We recommend using only the pneumatic drive in these cases.

US30-CH-K01



- ↘ crate for US30

US30-CH-Kit 6"

- ↘ US30-CH beveling machine with pneumatic drive for diameters up to 168 mm (6.6") OD, delivered with 1 tool holder plate Ø180 mm (7")

US30-CH-K06

- ↘ US30-CH-K06 crate for US30 pneumatic drive and Kit 6"

US30-CH/E-RA-Kit 6"

- ↘ US30-CH beveling machine with right angle electric drive for diameters up to 168 mm (6.6") OD , delivered with 1 tool holder plate Ø180 mm (7")

US30-CH-K07

- ↘ US30-CH-K07 crate for US30 right angle electric drive and Kit 6"

US30-CH-K02

- ↘ Crate for US30 CA

US30-CH CA



- ↘ Beveling machine with pneumatic drive and pneumatic clamping system

US30-CH -ASB

- ↘ Flange facing attachment, for the resurfacing of worn or damaged surfaces with diameter 50 mm ID up to 355 mm OD - 2" up to 14"

**FRL200**

- ↘ Air filter and lubricating unit for pneumatically operated machines with pressure adjustment

Kit02

- ↘ Flexible tubing set for pneumatically operated machines from machine US25

F-Lub-0,5-L

- ↘ Oil for lubricating filters, 0.5 liter bottle

F-Lub-1-L

- ↘ Oil for lubricating filters, 1 liter bottle

F-Lub-5-L

- ↘ Oil for lubricating filters, 5 liter bottle

HY-HPP 050

- ↘ Hydraulic Power Pack (5.5 kW)

OPT-RP

- ↘ Pneumatic valve

OPT-SPH

- ↘ Chips Hook

US30-CH-WPH30°

- ↘ Tool insert holder 30°. Other angles on request



Practical Tools Inc.

STANDARD TOOLING FOR US SERIES

REF.	Designation	For
O-US-A1-9-H-27	↷ O-US-A1-9-H-27 tool bit 90°	US30-CH, US40, US80, US150, SE219, S40
O-US-A1-9-H-T-27	↷ O-US-A1-9-H-T-27 tool bit 90° with titanium coating	US30-CH, US40, US80, US150, SE219, S40
O-US-A1-9-H-F-27	↷ O-US-A1-9-H-F-27 tool bit 90° with TiCN coating	US30-CH, US40, US80, US150, SE219, S40
O-US-A2-9-H-26	↷ O-US-A2-9-H-26 tool bit for 30° bevel	US30-CH, US40, US80, US150, SE219, S40
O-US-A2-9-H-T-17	↷ O-US-A2-9-H-T-17 tool bit for 30° bevel with titanium coating	US30-CH, US40, US80, US150, SE219, S40
O-US-A2-9-H-F-17	↷ O-US-A2-9-H-F-17 tool bit for 30° bevel with TiCN coating	US30-CH, US40, US80, US150, SE219, S40
O-US-A2-9-H-79	↷ O-US-A2-9-H-79 tool bit for 30° invers bevel	US30-CH, US40, US80, US150, SE219, S40
O-US-A3-9-H-28	↷ O-US-A3-9-H-28 tool bits for 37°30 bevels	US30-CH, US40, US80, US150, SE219, S40
O-US-A3-9-H-T-28	↷ O-US-A3-9-H-T-28 tool bit for 37°30 bevel with titanium coating	US30-CH, US40, US80, US150, SE219, S40
O-US-A3-9-H-F-28	↷ O-US-A3-9-H-F-28 tool bit for 37°30 bevel with TiCN coating	US30-CH, US40, US80, US150, SE219, S40
O-US-A3-9-H-82	↷ O-US-A3-9-H-82 tool bit for 37°30 invers bevel	US30-CH, US40, US80, US150, SE219, S40
O-US-A4-9-H-25	↷ O-US-A4-9-H-25 tool bit for counterboring 15°	US30-CH, US40, US80, US150
O-US-A4-9-H-F-25	↷ O-US-A4-9-H-F-25 tool bit for counterboring 15° with TiCN coating	US30-CH, US40, US80, US150
O-US-A5-9-H-85	↷ O-US-A5-9-H-85 tool bit for 45° bevels	US30-CH, US40, US80, US150
O-US-B6-9-H-54	↷ O-US-B6-9-H-54 tool bit 90°, with offset	US30-CH, US40, US80, US150
O-US-B7-9-H-56	↷ O-US-B7-9-H-56 tool bit 30°, with offset	US30-CH, US40, US80, US150
O-US-B8-9-H-59	↷ O-US-B8-9-H-59 tool bit 37°30, with offset	US30-CH, US40, US80, US150
O-US-B9-9-H-61	↷ O-US-B9-9-H-61 tool bit for counterboring 15°, with offset	US30-CH, US40, US80, US150
O-US-B11-9-H-15	↷ O-US-B11-9-H-15 tool bit for counterboring and squaring	US30-CH, US40, US80, US150
O-US-C5-9-H-63	↷ O-US-C5-9-H-63 tool bit for 7° R6 j-bevels	US30-CH, US40, US80, US150
O-US-C6-9-H-65	↷ O-US-C6-9-H-65 tool bit for 12,5° R6 j-bevels	US30-CH, US40, US80, US150
O-US-C7-9-H-67	↷ O-US-C7-9-H-67 tool bit for 7° R6 j-bevels, with offset	US30-CH, US40, US80, US150
O-US-C8-9-H-69	↷ O-US-C8-9-H-69 tool bit for 12,5° R6 j-bevels, with offset	US30-CH, US40, US80, US150
O-US-C9-9-H-29	↷ O-US-C9-9-H-29 tool bit for 10° R1,5 j-bevels	US30-CH, US40, US80, US150
O-US-C10-9-H-61	↷ O-US-C10-9-H-61 tool bit for 20° j-bevels	US30-CH, US40, US80, US150