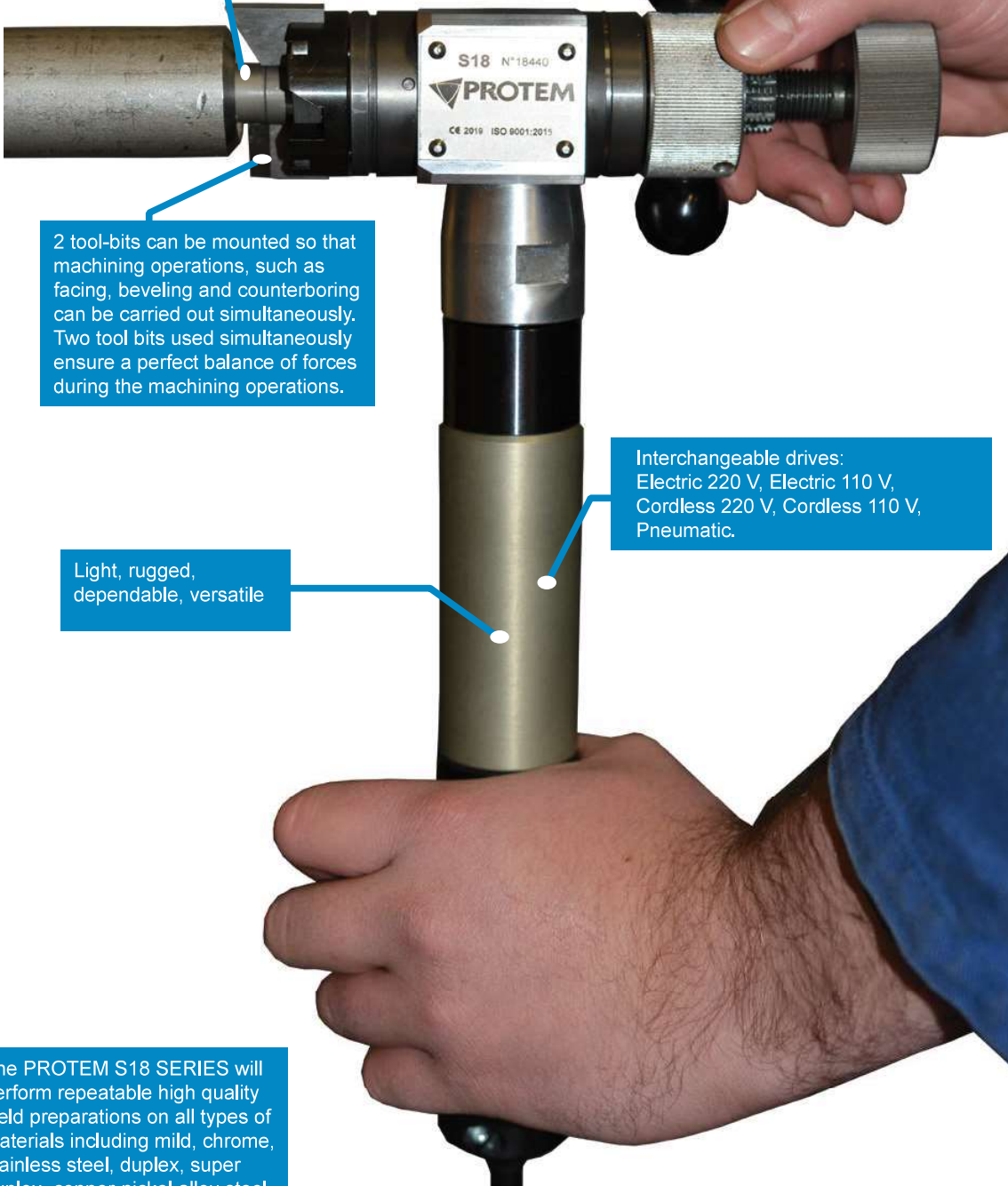


# S18 Tube Beveling Machine

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.



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

Light, rugged, dependable, versatile

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

The PROTEM S18 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**

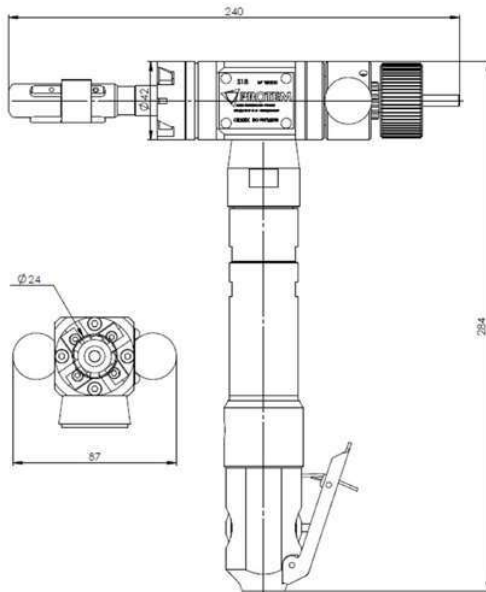
# S18 Tube Beveling Machine

Standard Capacity: 18mm - 42mm (0.708"-1.653")

Extended Capacity: 14mm - 42mm (0.551" - 1.653")



S18 with pneumatic drive



Dimensions

The S18 is a powerful beveling and facing machine. The standard tool-holder plate will accept multiple tool-bits, allowing several simultaneous machining operations.

Such operations may include beveling, facing, counterboring, compound beveling, od chamfering, removal of weld joints on heat exchanger tubes, cut to length of heat exchanger tubes. The S18 features a self-accepting torque system and an integral drive motor.

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

## 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 2 tool-bits for simultaneous machining operations (land, bevel, counterboring, j prep)
- Smooth and Burr-Free Surface Finish
- No vibration during the machining process



S18 with electric drive



S18 with cordless drive

# S18 Tube Beveling Machine

## Technical Features:

<b>Specific shapes &amp; angles</b>	I, V, Other on Request
<b>Clamping</b>	Manual
<b>Feed stroke</b>	35 mm (1.378")
<b>Cutting head gear drive</b>	300 rpm off-load speed, 150 rpm nominal speed
<b>Pneumatic drive</b>	730 W, 6 bar (87 psi), 1400 l/min (49 cfm)
<b>Electric drive</b>	110 V (1500 W) or 220 V (1050 W)
Pneumatically driven machines have to be used with a lubricating filter. Recommended option: regulation valve.	

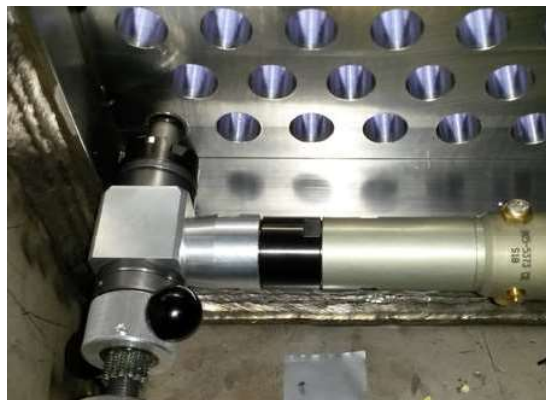
Order No.	Description
S18-1000	Tube Beveling Machine S18 with pneumatic drive for Ø 0.708"-1.653" (18mm-42mm)
S18-1020	Tube Beveling Machine S18 with electric drive 220V for Ø 0.708"-1.653" (18mm-42mm)
S18-1022	Tube Beveling Machine S18 with cordless drive 220V for Ø 0.708"-1.653" (18mm-42mm)
S18-1040	Tube Beveling Machine S18 with electric drive 110V for Ø 0.708"-1.653" (18mm-42mm)
S18-1042	Tube Beveling Machine S18 with cordless electric drive 110V for Ø 0.708"-1.653" (18mm-42mm)

## Applications:



ID Mounted

## Use On-Site or in Workshop:





# S18CA Boiler and Heat Exchangers Tube Machining Unit

Standard Capacity: 18mm - 42mm (0.708"-1.653")

Extended Capacity: 14mm - 42mm (0.551" - 1.653")

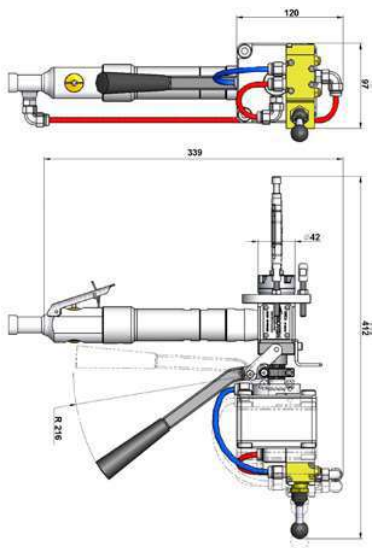


The S18CA is a powerful beveling and facing machine with automatic clamping. The standard tool-holder plate will accept multiple tool-bits, allowing several simultaneous machining operations.

Such operations may include beveling, facing, counter-boring, compound beveling, od chamfering, removal of weld joints on heat exchanger tubes, cut to length of heat exchanger tubes.

The S18CA features a self-accepting torque system and an integral drive motor.

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



Dimensions

## Technical Features:

<b>Specific shapes &amp; angles</b>	I, V, Other on Request
<b>Clamping</b>	Automatic
<b>Feed stroke</b>	35 mm (1.377")
<b>Cutting head gear drive</b>	300 rpm off-load speed, 150 rpm nominal speed
<b>Pneumatic drive</b>	730 W, 6 bar (87 psi), 1400 l/min (49 cfm)
Pneumatically driven machines have to be used with a lubricating filter. Recommended option: regulation valve.	

ID Mounted

## S18CA On-Site:



Order No.	Description
S18CA-1000	ID Mount Beveling Machine with pneumatic drive and clamping - Milling Cutter
S18CA-1002	Tube Beveling Machine S18CA with automatic clamping, pneumatic drive, for Ø 0.708"-1.653" (18mm-42mm)
S18CA-1004	Tube Facing & Beveling machine S18CA with pneumatic drive and automatic clamping system for Ø 0.708"- 1.653" (18mm-42mm), fitted with milling tool and clamping mandrel for Ø starting with 0.551" (14 mm)
S18CA-1317	Milling Cutter 12 to 24mm Diameter
S18CA-1318	Milling Cutter 18 to 38mm Diameter
S18CA-1800	Limit Stop
210-0002	Balancer for S18CA

# S18TP Heat Exchanger Tubes Machining Unit

Standard Capacity: 18,8mm - 46mm (0.740"-1.811")



The S18TP is a powerful beveling and facing machine with automatic feed and automatic clamping system. The standard tool-holder plate will accept multiple tool-bits, allowing several simultaneous machining operations. Such operations may include beveling, facing, counterboring, compound beveling, od chamfering, removal of weld joints on heat exchanger tubes, cut to length of heat exchanger tubes. The S18TP features a self-accepting torque system and an integral drive motor.

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



## Technical Features:

<b>Specific shapes &amp; angles</b>	I, V, Other on Request
<b>Clamping &amp; Feed</b>	Automatic
<b>Feed stroke</b>	16 mm (0.629")
<b>Cutting head gear drive</b>	300 rpm off-load speed, 150 rpm nominal speed
<b>Pneumatic drive</b>	730 W, 6 bar (87 psi), 1400 l/min (49 cfm)
Pneumatically driven machines have to be used with a lubricating filter. Recommended option: regulation valve.	

ID Mounted

Order No.	Description
S18TP-1000	Pipe Beveling Machine with pneumatic drive
S18TP-1002	Tube Beveling Machine S18TP with automatic clamping, pneumatic drive, for Ø 0.708"-1.417" (18mm - 36mm)
S18TP-1112	Insert Holder / Milling Cutter
US18TP-47	Adjustable limit stop
210-0004	Balancer for S18TP

# S18 Pipe Beveling Machines Options & Accessories

## S18 Crates:

Order No.	Description
S18-K02	Transport crate for S18 pneumatic, electric and cordless drive
S18CA-K02	Transport crate for S18CA
S18TP-K01	Transport crate for S18TP

## S18 Options:

Order No.	Description
S18-1500	Optional mandrel for Ø 14-22mm
S18-1600	Feed lever for S18
S18-1600-SSE1	Limit Stop
210-0002	Balancer

## S18TP Shafts:

Order No.	Description
US18TP-26-1	Shaft, Ø 12mm
US18TP-26-2	Shaft, Ø 13mm
US18TP-26-3	Shaft, Ø 14mm
US18TP-26-4	Shaft, Ø 15mm
US18TP-26-5	Shaft, Ø 16mm
US18TP-26-6	Shaft, Ø 17mm
US18TP-29	Shaft, Ø 18-30mm

## S18TP Clamping Blades:

Order No.	Description
US18TP-27-1	Clamping blades for Ø 12-14mm
US18TP-27-2	Clamping blades for Ø 13-15mm
US18TP-27-3	Clamping blades for Ø 14-16mm
US18TP-27-4	Clamping blades for Ø 15-17mm
US18TP-27-5	Clamping blades for Ø 16-18mm
US18TP-27-6	Clamping blades for Ø 17-19mm

## S18TP Clamping Mandrels:

Order No.	Description
S18TP-1200	Clamping mandrel for Ø 18mm

## S18TP Milling Heads:

Order No.	Description
US18TP-65	Milling head for shaft Ø 12mm
US18TP-66	Milling head for shaft Ø 13mm
US18TP-67	Milling head for shaft Ø 14mm
US18TP-68	Milling head for shaft Ø 15mm
US18TP-69	Milling head for shaft Ø 16mm
US18TP-70	Milling head for shaft Ø 17mm

## S18TP Further Options:




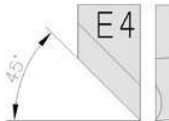
Order No.	Description
US18TP-47	Adjustable limit stop
210-0004	Balancer for S18TP

ID Mounted

# S18 Pipe Beveling Machine

## Tool-Bits

ID Mounted

Order No.	Description	Picture
O-S18-E1-4-H-50	Tool-bits 90° for S18	
O-S18-E2-4-H-52	Tool-bits 30° for S18	
O-S18-E2INV-4-H-55	Tool-bits 30° for S18, for weld removal jobs	
O-S18-E3-4-H-51	Tool-bits 37°30 for S18	
O-S18-E4-4-H-53	Tool-bits 45° for S18	
O-S18-E4-4-H-F-53	Tool-bits 45° for S18	