

SERCO TU 400 - Portable High Powered Flange Facing & Boring Machine

OVERVIEW

The TU series is our greatest achievement. Used with success for over 30 years in the Nuclear Maintenance and Oil & Gas Industries, the TU machines were designed for facing directly on site with a 1/100 mm accuracy.

Using a TU machine is the guarantee of perfect machining in any circumstance with great accuracy within a minimum amount of time.

DESCRIPTION

The TU 400 has its axial and radial feed driven by a motor. When the machine is set up, the machining is completely automatic. Its low weight and dimensions allows it to access to the most difficult areas while machining with an 1/100 mm accuracy.

It is possible to use the FC 745 Chain Clamping Device to set up the machine around the work piece.

SETUP & OPERATION

All TU machines work on the same principle.

They are set up and mounted, thanks to a column/arm system which is bound to the workpiece. An optional chain system can be used to bound the TU machine around the workpiece, even if no attachment possibility is available.

The TU machine setup is fast and easy.

The design allows adjusting the concentricity independently of the squareness with a 1/100 mm accuracy.

The machining accuracy is in the order of 1/100 mm and a surface finish of Ra = 1,6.

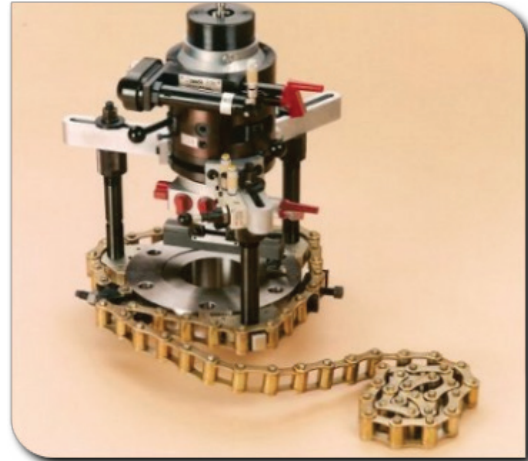
APPLICATIONS

The TU machines are designed for reparation work, maintenance and prefabrication on site.

They are mainly used for the machining of valves and flanges of any dimension and any material.

The applications are varied and our clients operate within different industries, where their machining accuracies are crucial. The most demanding industry fields are:

- Nuclear
- Petrochemical
- Aerospace
- Shipbuilding
- Biochemistry
- Boiler-making
- Defence Industry
- Offshore
- Oil & Gas



TECHNICAL FEATURES

• MACHINING Ø (MM):	Ø 0 – 400 MM
• CLAMPING:	Ø 220 – 430 MM
• AXIAL STROKE:	100 MM
• AXIAL AUTO-FEED(MM/MIN):	0 – 24
• RADIAL STROKE:	40 MM
• RADIAL AUTO-FEED (2 SPEEDS):	0.05 / 0.15 MM PER REV
• AUTOMATIC RAPID RETURN:	0.4 MM/REV
• PNEUMATIC MOTOR (BAR 6):	780 W
• AXIAL FEED MOTOR:	150W
• WORKING AIR PRESSURE (BAR:	5 - 7
• AIR CONSUMPTION (L/MIN):	1500
• WEIGHT:	35KG

THE MACHINE IS SHIPPED IN A POLYPROPYLEN CONTAINER WITH 2 ROLLERS

CONTAINER:

• DIMENSIONS:	680 X 530 X 380 MM
• WEIGHT WITH MACHINE & COMPONENTS:	65KG