

SERCO XP 2000 - Portable Extra Flat Flange Facing Machines

OVERVIEW

The XP series of machines are positioned and locked by means of a column / arm system fixed on the outer part of the flange to be machined. This clamping principle allows to perform internal machining operations.

The XP machines can be adjusted very accurately (concentricity and parallelism with a 0.01 mm precision). Machining accuracy: an accuracy of 0,01 mm with Ra up to 1.6 can be achieved.

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

DESCRIPTION

The XP machines have a reduced height clearance for facing works performed between flanges and are especially designed for flange facing operations in all industrial areas.

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

The applications are wide and our clients come from very different industries where the machining accuracy is crucial. The most demanding industry fields are:

- Nuclear
- Petrochemical
- Aerospace
- Shipbuilding
- Biochemistry
- Boiler-Making
- Defence Industry
- Food Processing
- Oil & Gas

SETUP & OPERATION

All XP 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.

APPLICATIONS

- Flange facing on every type of flange: Ø 250 – 2080 MM



TECHNICAL FEATURES

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|--------------------------------|--------------------|
| • FACING Ø (MM): | Ø 250 – 2080 MM |
| • CLAMPING: | Ø 1300 – 2350 MM |
| • RADIAL STROKE: | 560 MM |
| • RADIAL AUTO-FEED (2 SPEEDS): | 0.1 / 1 MM/PER REV |
| • STROKE OF CUTTING TOOL: | 50 MM |
| • DRIVE MOTOR: | 3KW / 6 BAR |
| • DRIVE MOTOR SPEED: | 45 RPM |
| • WORKING AIR PRESSURE: | 6 BAR |
| • AIR CONSUMPTION (L/MIN): | 3500 L/MIN |
| • HEIGHT: | 630 MM |
| • WEIGHT: | 250 OR 600 KG |

OPTIONS:

- INCLINABLE HEAD (BORING OPERATION + RTJ GROOVE + CONICAL MACHINING) – STROKE 70 MM

TECHNICAL CHARACTERISTICS

- MACHINE WITH 4 ATTACHABLE ARMS. ARMS ARE DISMOUNTABLE AND ADJUSTABLE ANGULARLY.
- EXTERNAL FIXING ON THE DOWEL HOLES OF THE SUPPORT.
- PNEUMATIC MOTORIZATION (HYDRAULIC OR ELECTRIC ON REQUEST).
- MANUAL AND AUTOMATIC CENTRAL BORING HEAD DRIVES A FACING TOOL HOLDER.
- ADJUSTMENTS OF SQUARENESS AND CONCENTRICITY ARE INDEPENDENT. THIS ALLOWS A HIGH DEGREE OF ACCURACY OF THESE ADJUSTMENTS COMPARED TO THE SELECTED RANGES OF REFERENCE.