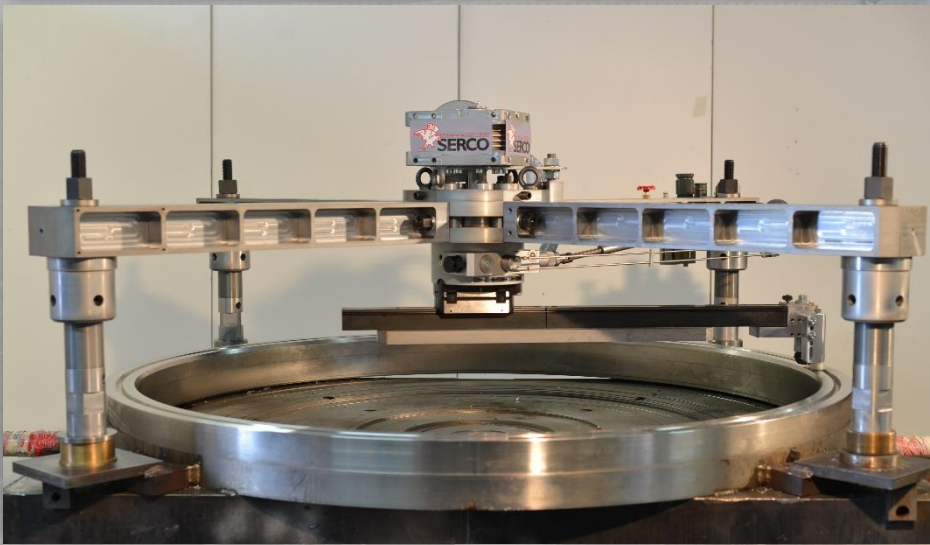
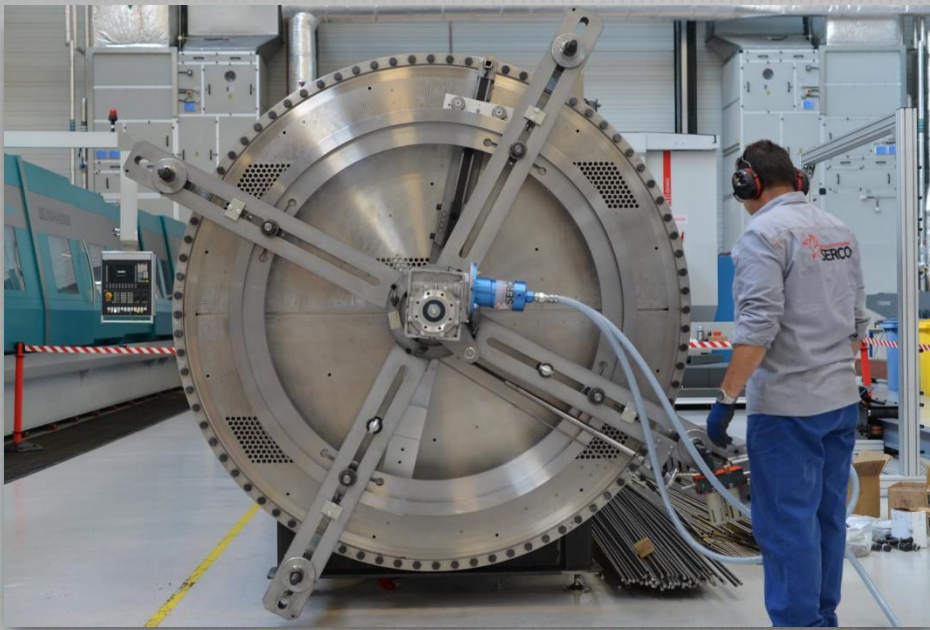


THE FUTURE OF ON SITE MACHINING

SERCO

SERCO XP-Series Portable Facing Units



XP-Series:

- XP 400
- XP 600
- XP 1200
- XP 1500
- XP 1800
- XP 2000
- XP 2200
- XP 2500
- XP 3200

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APPLICATIONS

VALVES --- FLANGES

REPAIR AND MAINTENANCE

OF SEALING SURFACES

ON-SITE OR IN THE WORKSHOP

ULTIMATE

TECHNOLOGICAL SOLUTIONS

**STANDARD AND CUSTOM-BUILT PORTABLE
EQUIPMENT**

The SERCO XP machining units are designed for the repair and maintenance of virtually all dimensions and materials of many diverse components such as:

- ➔ Flanges
- ➔ Grooves
- ➔ Safety valves
- ➔ Sealing surfaces
- ➔ Hole surfaces
- ➔ High pressure valves
- ➔ Flat seats
- ➔ Conical seats
- ➔ Manholes
- ➔ RTJ Grooves

Used in many diverse and demanding industries:

- ➔ Power Plant (Nuclear, Thermal, Hydraulic)
- ➔ Refineries
- ➔ Petrochemical
- ➔ Chemical
- ➔ Pharmaceutical
- ➔ Food and Beverage Industry
- ➔ Shipbuilding
- ➔ Valve manufacturing / machining
- ➔ Maintenance and Repair contractors operating in the field





40 YEARS OF EXPERIENCE AND TECHNICAL EXPERTISE WORLDWIDE

PROVIDING THE INDUSTRY WITH THE MOST VERSATILE AND RELIABLE FLANGE AND VALVE MACHINING TECHNOLOGY

COST EFFECTIVE

High precision, High performance

Enhanced efficiency

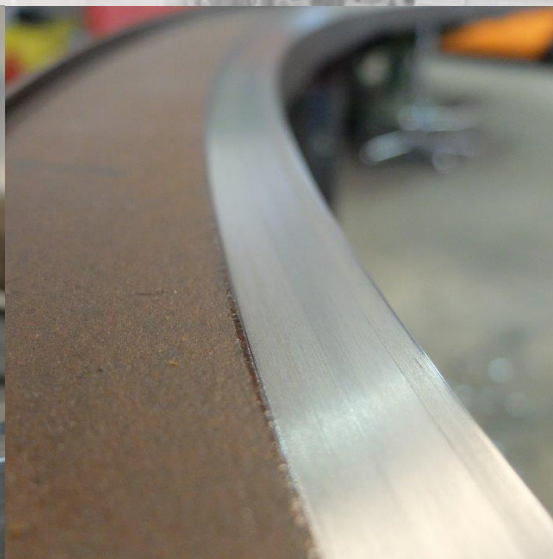
Light weight

Perfect for use in tight areas

Operating principle

The Serco XP machines all work on the same principle. They are set up and fixed in place by a column/arm system. This clamping principle allows high precision performance of internal machining operations.

The XP machine setup is fast and easy. The design allows for independent adjustment of the concentricity and parallelism to reach a precision of 1/100 mm with a surface finish of 1.6 Ra.

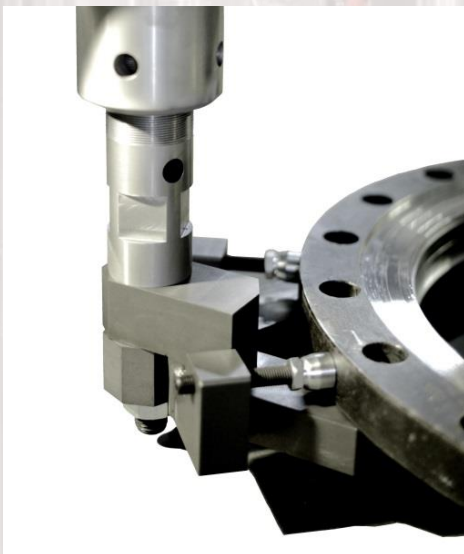




OPTIONS AND ACCESSORIES

Inclinable Head

The inclinable head is designed to do boring operations, RTJ grooves and conical machining. It attaches to the end of a fixing arm. The results are extremely accurate and precise.



FSTG

The FSTG allows all the XP series to be clamped on the outside of a flange in order to machine the seal surface AND the bolt working surface.

Using the inside of the holes to catch the flange, the FSTG avoids any distortion during the set-up of the machine.

The gasket surface will not be deformed even after removal of the machine.

All the machines can be used with a FSTG device :

FSTG 500 : XP400 + XP600

FSTG 2050 : XP1200 to XP2000

FSTG 2500 : XP2200 to XP2500

FSTG 3300 : XP3200



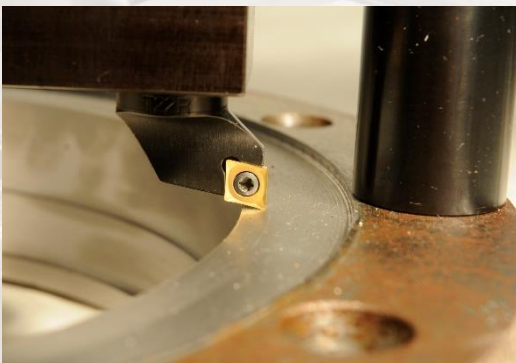


ADVANTAGES

Precision

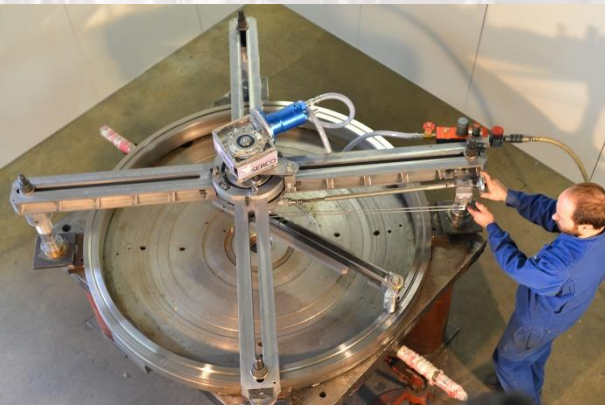
With a **precision of 1/100 mm** and a surface finish up to **Ra 1.6** the Serco XP machines are the best performing and most accurate machines available to perform your **surfacing** operations.

In some fields of activity (**Petroleum, refineries, Offshore, etc.**), the seal surface's required roughness varies between **Ra 3.2 & 6.3**. Thanks to the adjustable radial feed, SERCO machines are able to accommodate **different demands and standards**.



Fast Setup

The machine is designed to be set up quickly and easily even in the most severe working conditions. Since the column height and the concentricity adjustment are independent of each other, it takes only two steps to accurately set up and adjust the machine for it to be ready to operate.



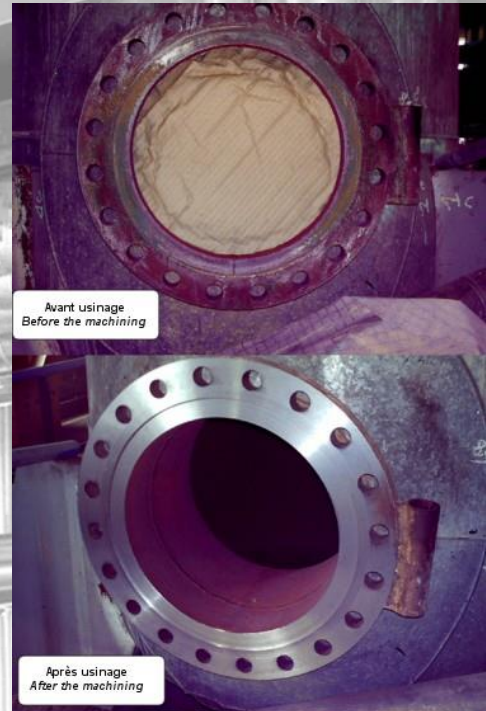
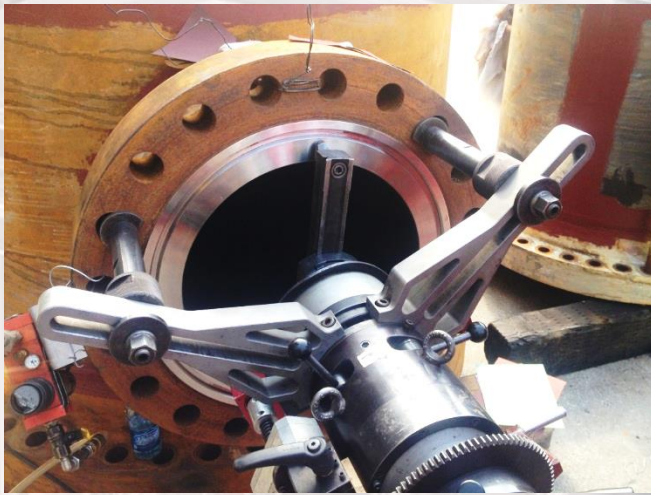
Light and Compact

The SERCO XP is set up easily in even the **tightest spaces**, and in **all positions**. Its light weight, compact dimensions and ergonomic design allow for easy installation and use by a single **operator**.



EXAMPLES OF APPLICATIONS

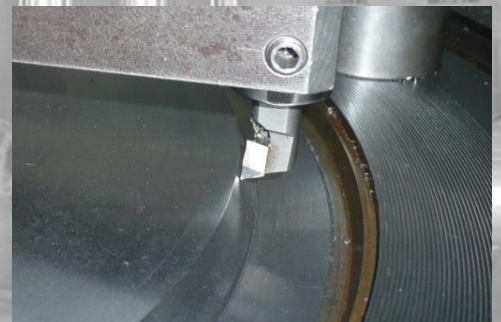
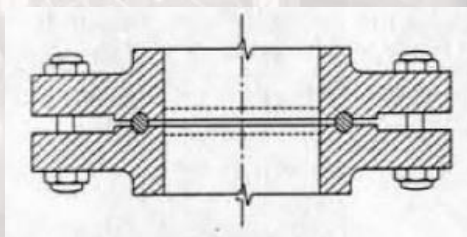
- ▶ Portable boring and surfacing machines
- ▶ Portable equipment for conical machining
- ▶ Portable grinding equipment
- ▶ Portable grooving bench



Ring Type Joint (RTJ) Flanges:

Ring Type Joint flanges are generally used in high pressure and/or high temperature operations for oil and gas applications.

The Serco machining units are specially designed for dependable, high performance machining in extreme conditions.





XP SERIES

TECHNICAL FEATURES

Types	XP 400	XP 600	XP1200	XP1500	XP1800	XP2000
Radial stroke in mm	30 mm 1.2"	40 mm 1.6"	100 mm 4"	100 mm 4"	200 mm 8"	200 mm 8"
Radial auto-feed (2 speeds)	manual	0,05 & 0,15 mm/rev	0,062 & 0,186 mm/rev	0,062 & 0,186 mm/rev	0,062 & 0,186 mm/rev	variable and independent
Mini facing Ø	20 mm 0.78"	20 mm 0.78"	20 mm 0.78"	20 mm 0.78"	20 mm 0.78"	20 mm 0.78"
Maxi facing Ø	400 mm 15.7"	600 mm 23.6"	1200 mm 47.2"	1500 59"	1800 mm 71"	2080 mm 82"
Mini clamping Ø	110 mm 4.4"	200 mm 7.9"	500 mm 20"	500 mm 20"	500 mm 20"	650 mm 25.6"
Maxii clamping Ø	500 mm 19.6"	660 mm 26"	1400 mm 55"	1700 mm 66.9"	2050 mm 81"	2250 mm 88.5"
Driving motor maxi power in Watt with 6 bar (87 psi)	780 W	780 W	2000 W	2000 W	2000 W	3000 W
Driving motor free speed in revolution/min	100 rev/min	100 rev/min	45 rev/min	45 rev/min	45 rev/min	45 rev/min
Working air pressure	5 to 7 bar					
Air consumption	1500 l/min 53 cfm	1500 l/min 53 cfm	2500 l/min 88 cfm	2500 l/min	2500 l/min 88 cfm	3500 l/min 124 cfm
Weight (approximately)	20 kg 44 lbs	30 kg 66 lbs	≈ 220 kg ≈ 485 lbs	≈ 280 kg ≈ 617 lbs	≈ 380 kg ≈ 837 lbs	≈450 kg ≈ 992 lbs
Outside clamping system	FSTG 500	FSTG 500	FSTG 2050	FSTG 2050	FSTG 2050	FSTG 2500
Inclinable head (boring operation, RTJ Groove, conical machining)	Yes	Yes	Yes	Yes	Yes	Yes



Types	XP 2200	XP 2500	XP3200
Radial stroke in mm	200 mm 8"	200 mm 8"	200 mm 8"
Radial auto-feed (2 speeds)	variable and independent	variable and independent	variable and independent
Mini facing Ø	20 mm 0.79"	20 mm 0.78"	20 mm 0.78"
Maxi facing Ø	2280 mm 90"	2580 mm 101.57"	3280 mm 129.13"
Mini clamping Ø	650 mm 25.6"	650 mm 25.6"	650 mm 25.6"
Maxi clamping Ø	2450 mm 96.5"	2750 mm 108.26"	3450 mm 135.83"
Driving motor maxi power in Watt with 6 bar (87 psi)	3500 W	3500 W	3500 W
Driving motor free speed in revolution/min	45 rev./min	45 rev./min	45 rev./min
Working air pressure	5 to 7 bar 72 to 102		
Air consumption	3500 l/min 124 cfm	3500 l/min 124 cfm	3500 l/min 124 cfm
Weight (approximately)	≈550 kg ≈ 1212 lbs	≈600 kg ≈ 1322 lbs	≈800 kg ≈ 1763 lbs
Outside clamping system	FSTG 2500	FSTG 2500	FSTG 3200
Inclinable head (boring operation, RTJ Groove, conical machining)	Yes	Yes	Yes



Contact & Comments

Our commitment! Your satisfaction!

Serving our customers around the world with competence, efficiency and reliable service is our main goal. Whatever questions you may have, please do not hesitate to consult with us. Our staff will always advise you in a professional manner and recommend the right equipment to meet your technical requirements.

Call or email us for more information!

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