

Silk AXL 012 Flange Facing Machine

Maximum Clamping Capacity 12 inches (305mm)

The SILK AXL012 is a lightweight, robust, precision machining platform. The solid circular drive ring utilises an independently adjustable four jaw clamping arrangement for mounting the machine externally, on regular and irregular surfaces up to 305mm (12") wide.

It is powered by one 0.8kW (1.1hp) high torque pneumatic motor and rotates on a high precision bearing giving excellent rigidity. The machining centre also features continuous automatic feeds enabling the production of industry standard surface finishes.

The AXL012 offers versatile repair capabilities to a wide range of plant and equipment. Typical applications include the re-facing of pipeline flanges and connectors ranging from gramophone finished raised faces to precision O-ring grooves. With the addition of easy to install, bolt-on "kits" the machining centres may be adapted to repair RTJ grooves, to machine valve seats and to produce bores.



Silk AZL012 Features

- Compact, lightweight great for onsite machining
- Externally mounted which means that its easily mounted
- Operates in any position
- Cuts "O" ring grooves, vertical grooves, "V" grooves, lens ring seats, hub profiles and weld preparations
- Achieves finishes from 1.6µm Ra to 6.3 µm (63CLA to 250CLA)
- 'Gramophone' finish when turning and 0.8µm Ra to 1.6µm (32CLA to 63CLA) when polishing
- Pneumatic drive permits use in hazardous areas
- Fitted transportable case



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Maximum Clamping Capacity 12 inches (305mm)

The SILK AXL012 is constructed, as is the rest of the range, from the highest quality materials. It is designed to give machine shop accuracy combined with ease of handling and portability in the flange range of 0-305mm (0" to 12").

The machine consists of three main assemblies:

Base Ring Assembly

Four separate adjustable clamp blocks are provided which may be positioned on the base ring to suit the size of flange being machined.

Drive and Bearing

The machine is driven by a 0.66kw (0.85hp) pneumatic motor, which is mounted directly to the drive bearing assembly and is quickly detachable.

Saddle

The saddle is mounted on the drive and bearing assembly and provides a rigid structure to which the tool post is fixed.

Drive input to the saddle is derived from the drive and bearing assembly, internal gear arrangement and saddle gear pick-up gear in a planetary motion.

Tool post traverse in and out is provided by a lead screw which is driven by the saddle gear train.

Direction is selected by the traverse selector.

The machine can achieve cuts to a maximum depth of 2mm (0.079") without flanged holes and 1mm (0.039) with flanged holes.

Specifications

Principal Dimensions

Height	130mm (5 ¹ / ₈ ")
Rotational diameter	305mm (12")
Maximum swing	305mm (12")
Minimum swing	0mm (0")
Tool post travel	438mm (1 ⁵ / ₈)
Overall diameter	610 mm (24")

Weights

Nett weight (less wooden case)	50kg (110lbs)
Total shipping weight	85kg (187lbs)

Wooden Case Dimensions

Length	800mm (32")
Height	430mm (17")
Width	720mm (28")

General Information

Gripping Range	minimum size 102mm (4") maximum size 305mm (12")
Flange Range	minimum size 0mm (0") maximum size 305mm (12")

Drive Motor

Minimum air supply requirements	5 bar 2.26m ³ / min (80psi 80cfm)
Drive motor output speed	1600rpm
Final rotational speed	33

Table of Surfacing Feeds

Gearbox	Feed (mm)	Feed (inches)
In	0.81	0.032
Out	0.20	0.008
Hand Held	0.5	0.002

