

Overview:

- The AX024 Silk Clamshell is a larger version of the AXL012 and has a maximum clamping capacity of 584mm (23”).
- It has an eight independent jaw clamping arrangement, and is driven by two 1.7kW (2.3hp) high torque pneumatic motors.
- The two continuous, automatic feeds offer a fine and a coarse surface finish.

Like its smaller brothers, these precision tools have a host of interchangeable “Bolt-On” extras covering almost any machining operation offered in a conventional machine shop.

- This flexibility provides a highly cost effective solution to field machining applications, saving both time and money.



Silk AX024 Features:

- Compact & Portable
- Precise & Robust
- Externally mounted
- Operates in any position
- Cuts ‘O’ ring grooves, vertical grooves, ‘V’ Grooves, lens ring facings and weld preparations
- Achieves surface finishes from 250 CLA to 63 CLA when polishing
- Pneumatic drive permits use in hazardous areas

Silk AX024 flange facing and grooving machine is constructed from the highest quality materials. It is designed to give machine shop accuracy combined with portability and ease of handling for work on flanges of 0”-23” diameter.

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Silk AX024 Flange Facing Machine

Base Ring Assembly

Eight separate adjustable clamp blocks are provided. These can be positioned on the base ring to suit the size of flange being machined. The arrangement enables the machine to be locked in position and centred relative to the flange using adjustable screws on the clamp blocks.

Drive Ring

The drive ring module, incorporating the bearing assembly, provides the drive for the saddle via a worm, worm wheel and internal gear arrangement. Power driving the machine is provided by two 1.55 hp pneumatic power units mounted on the drive ring.

Saddle

The saddle is mounted on the drive ring and bearing assembly and provides a rigid structure to which the toolpost is fixed. With drive provided through the drive ring internal gear arrangement and saddle pick-up gear, the saddle and support bearings rotate around the internal gear in a planetary motion. Toolpost traverse in and out is provided by a lead screw driven by the saddle gear train.

Traverse is selected by a traverse selector. The machine can achieve cuts to a maximum of 0.39" (1mm) without flanged holes and 0.020" (0.5mm) with flanged holes. Alternative tool posts can be fitted to the saddle depending on the machine application.

Specifications

Principal Dimensions

Overall diameter (inc motors)	40 inches (1016mm)
Height	7 inches (179mm)
Rotational diameter	23 inches (584mm)
Toolpost traverse (min/max)	0 to 16 inches (0 to 406mm)
Toolpost vertical travel	1.5 inches (38mm)

Weights

Nett weight (less wooden case)	387 lbs (176 kg)
Total Shipping Weight	495 lbs (225 kg)

Wooden Case Dimensions

Length	38.5 inches (980 mm)
Height	18.5 inches (470 mm)
Width	31.5 inches (800 mm)

General Information

Gripping Range (min/max)	12 to 23inches (305 to 584mm)
Flange Range (with crank tool)	0 to 23.75inches (0 to 630mm)

Drive Motors Two

1.55 hp each

Minimum Air Supply Requirements

(90psi @96cfm)

Drive Motor Output Speed

1600 rpm

Final Rotational Speed

46 rpm

Table of Surfacing Feeds

Selector Position	Feed (In)	Feed (mm)
In	0.032	0.81
Out	0.008	0.20
Hand Held	0.002	0.5

