

# Mactech Europe



## SILK AX024 FLANGE FACER

The SILK AX024 Rotary Machining Center is a larger version of the SX012 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
- Provided in own transportable case

SILK AX024 FLANGE FACER - Externally Mounted



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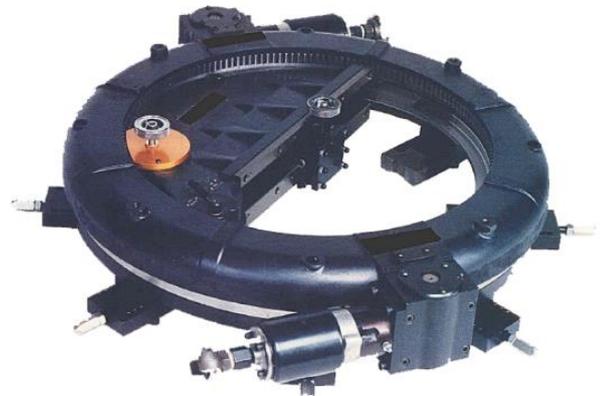
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## SILK AX024 FLANGE FACER



The 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.



### 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.

### Table of Surfacing Feeds

Selector position	Feed (inches)	Feed (mm)
In	0.032	0.81
Out	0.008	0.20
Hand held	0.002	0.5

### Specifications

#### Principal dimensions

Overall diameter (inc. motors)	40" (1016mm)
Height	7" (179mm)
Rotational diameter	23" (584mm)
Toolpost traverse (min/max)	0"-16" (0-406mm)
Toolpost vertical travel	1½" (38mm)

#### Weights

Nett weight (less case)	387lbs (176kg)
Total shipping weight	495lbs (225kg)

#### Case dimensions

Length	38½" (980mm)
Height	18½" (470mm)
Width	31½" (800mm)

#### General information

Flange range dia. (with crank tool)	0-23¾" (0-603mm)
Gripping range (min/max)	12-23" (305-584mm)
Drive motors	Two 1.55 hp each
Minimum air supply requirement	90 psi @96 cfm
Final rotational speed	46rpm



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