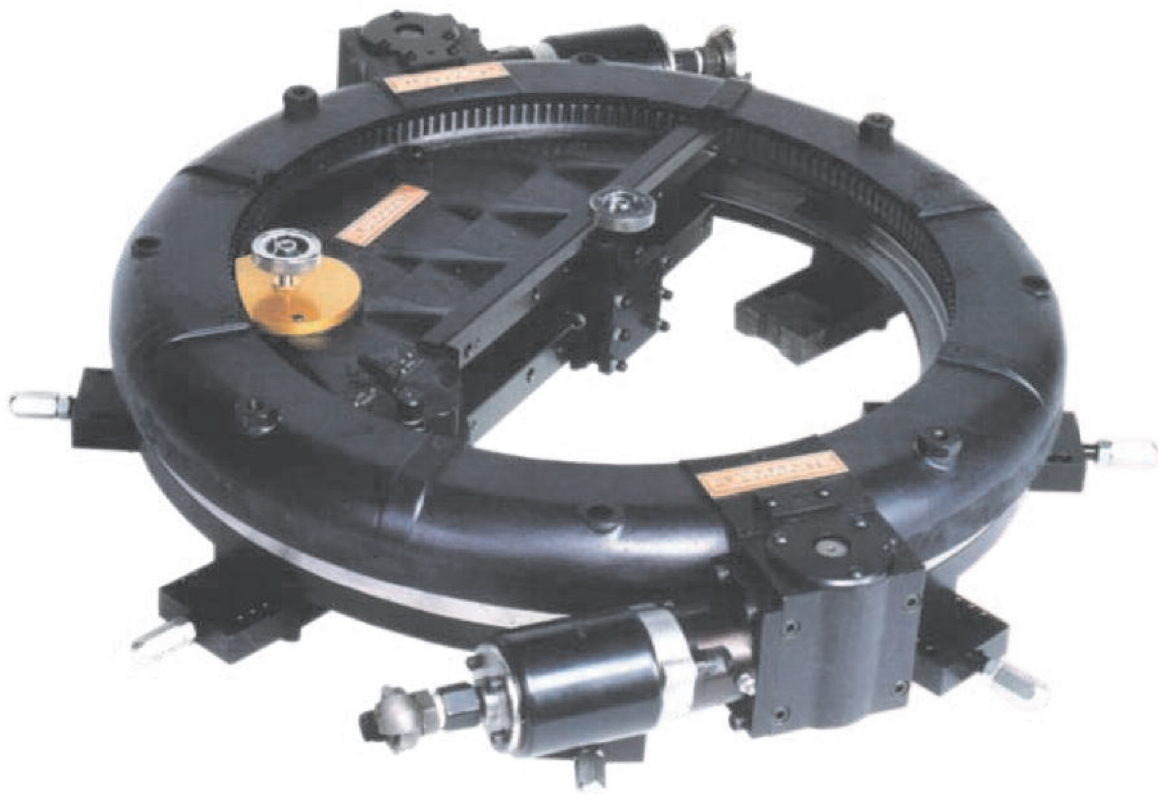


Flange Facing AX024



Integrated Solutions
to Piping Problems



AX024 Flange Facer

A portable flange facing and grooving machine designed for machining full faced, raised face and grooved flanges up to 23³/₄" (603mm) diameter.

AX024 Flange Facer



The Silk AX0244 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 from 0"-23" diameter. The machine consists of three modules:

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.

Quality

All Furmanite Silk Engineering activities are conducted in strict conformance to the ISO9001 quality system.

Silk Design Department

All Silk machines are used by our on-site service technicians and over the years, we have modified and designed attachments to enable the Silk range of machine tools to undertake many specialist applications. Can we help you? Comprehensive CAD facilities operated by qualified design engineers and experienced project engineers are able to meet your exact requirements.

Features

- Compact
- Portable
- Externally Mounted
- Operates in any Position
- Cuts 'O' Ring Grooves, vertical grooves, V grooves, lens ring facings, weld preparations
- Achieves surface finishes from 250 CLA to 63 CLA (6.3 μ m Ra to 1.6 μ m Ra) when turning and from 63 CLA to 32 CLA (1.6 μ m Ra to 0.8 μ m Ra) when polishing
- Pneumatic drive permits use in hazardous areas
- Provided in own transportable case

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

| | | |
|------------------------|---------|---------|
| Net weight (less case) | 387 lbs | (176Kg) |
| Total shipping weight | 495 lbs | (225Kg) |

Case Dimensions

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

General Information

| | | |
|-------------------------------------|-----------------|--------------|
| Flange range dia. (with crank tool) | 0-23½" | (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 | 46 rpm | |

Table of Surfacing Feeds

| Selector Position | Feed 'inches' | Feed 'mm' |
|-------------------|---------------|-----------|
| In | 0.032 | 0.81 |
| Out | 0.008 | 0.20 |
| Hand held | 0.002 | 0.05 |