



THE SILK OMM024 OVAL MANWAY MACHINE



Portable machining kit for the refurbishing of elliptical manways. Front and rear gasket surfaces for typical manway sizes of 18" x 12" ellipses.

FEATURES

- Automatic feed rates
- Externally mounted
- Utilizes AX024 drive ring
- Cam follower system
- Multiple surface finishes

MACHINE DESCRIPTION

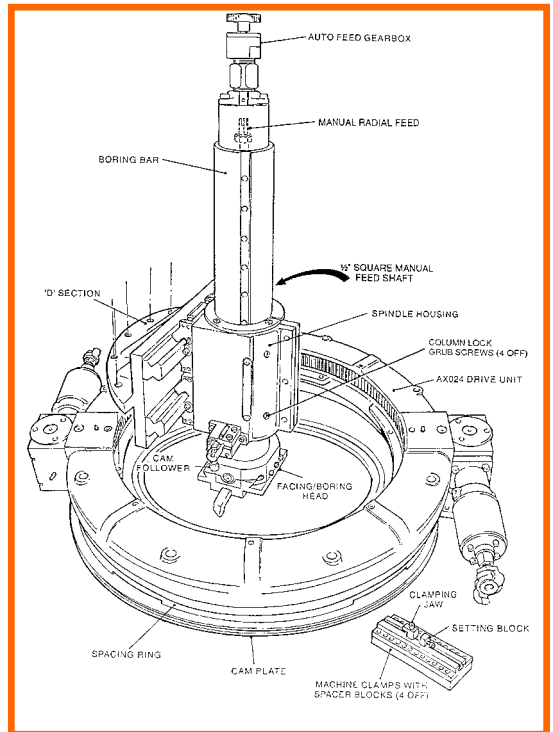
The Silk OMM024 Oval Manway Machine is constructed from the highest quality materials and designed for machining front and rear gasket faces on a wide range of elliptical manways. Best use is when access inside a vessel may be constricted and all machining operations need to be carried out externally.

The OMM024 consists of the AX024 drive ring, precision boring bar and D-section, cam plate and setting blocks. The boring bar incorporates a facing head with a positively driven radial feed and a floating radial tool carriage. Elliptical profiles are achieved through the use of a dual aspect ratio cam plate that is customer specified. The cam follower traces the path of the ellipse while the facing tool cuts the appropriate surface finish. Four separate adjustable clamp blocks are provided for mounting with radial and angular adjustment.

The machine is driven by two 1.55hp pneumatic motors, which are mounted directly to the drive and bearing assembly, and are quickly detachable. The drive and bearing are mounted on the base ring assembly and provide the drive for the saddle via a spur ring gear arrangement.

Since the OMM024 utilizes the AX024 drive ring the machine can be easily modified back to a standard rotary machining center. This allows the operator to use the drive ring for many other applications such as line boring, valve seat machining, and all types of flange refurbishing.

This machine like other Silk manufactured goods are conducted in strict conformance to the ISO 9001 quality system.



Specifications

Principal Dimensions

Height (Boring Bar)	27" (686mm)
Rotational Diameter	24" (610mm)
Maximum Major Axis	24" (610mm)
Minimum Minor Axis	6" (152mm)
Radial Travel Toolpost	1-3/4" (44mm)
Boring Depth	10" (254mm)
Overall Diameter	39" (991mm)

Weights (Including AX024 drive ring)

Nett Weight	418 lbs. (190 Kg)
Total Shipping Weight	465 lbs. (211 Kg)

Case Dimensions (AX024 drive ring)

Length	38" (953mm)
Height Boring Bar	17" (431mm)
Width	32" (800mm)

General Information

Drive Motor	(2) - 1.55hp (1.2 kw)
Min. Air Requirements	80PSI @ 80CFM (5 bar @ 2.2 m ³ /min.)
Drive Motor Output	1600RPM
Final Rotation Speed	46Rpm

Table of Surfacing Feeds

Gearbox	Feed (in)	Feed (mm)
Fine	0.004 / rev.	0.1 / rev.
Coarse	0.016 / rev.	0.4 / rev.

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