



GLOBAL
MACHINE TECHNOLOGY



THE SILK FXB630 FLANGE FACING MACHINE



Lightweight, portable, flange facing, grooving and weld preparation machine designed to machine full faced, raised face and grooved flanges from 6-30" (153-762mm) diameter.

FEATURES

- Automatic feed rates
- Internally mounted
- Cuts ring joint, raised face, lens ring, and hub profile seats
- Various machining kits
- Multiple surface finishes

MACHINE DESCRIPTION

The Silk FXB630 is constructed from the highest quality materials. It is designed to give machine shop accuracy combined with portability and ease of handling on flanges from 6" - 30" (153mm - 762mm) in diameter. The machine has four main assemblies for machine operation.

The **Base Assembly** has three separate mounting bases that enable the machine to be installed in the center of any flange from 6" - 30" (153mm - 762mm).

Each base assembly consists of a flat triangular shape with a radius machined across each corner. A hole drilled and tapped in the edge of each corner, together with similar tapped holes in the center of each straight face, enable the adjustable centering clamps to position the base in the center of the flange.

The **Drive Hub Assembly** consists of a 1.55hp (1.2kw) pneumatic motor unit, which is mounted directly to the hub. The hub provides the drive input to the gearbox assembly and also provides a rigid support for the surfacing arm.

The **Drive Gearbox** is mounted on the drive hub assembly and provides a variety of cutting feeds for different machine applications.

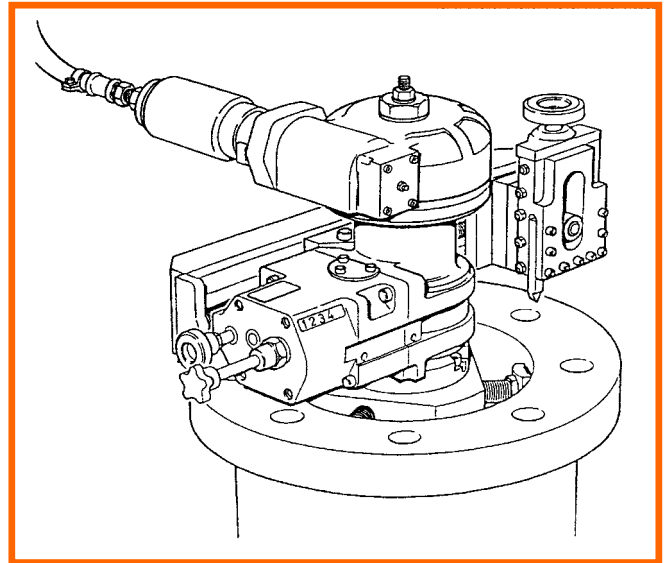
Drive input to the gearbox is derived from the drive hub take-off gear. The gearbox provides four different feed rates selected by push / pull selector. Traverse is selected by push / pull selector, which selects IN, OUT, and NEUTRAL position. The neutral position can be used for rotating the surfacing arm by hand for tool positioning.

The **Cutting Arm Assembly** is mounted on the drive hub assembly and provides a rigid structure to which the tool post is fixed. Feed in and out is provided by a leadscrew which is driven by the gearbox and designated by the gearbox selector.

OPTIONAL ACCESSORIES:

Tube Sheet Mounting Kit
 Tube Sheet Backfacing Kit
 V-Groove Machining
 V-Groove Measuring Kits

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



Specifications

Principal Dimensions

Machine height	13" (330mm)
Min. mounting base diameter	6" (153mm)
Min. rotational clearance	25" (813mm)
Toolpost travel	1-5/8" (40mm)

Weights & Case Dimensions

Machine weight	136 lbs. (63 Kg)
Total shipping weight	400 lbs. (182 Kg)
Length	38" (940mm)
Width	22" (550mm)
Height	20" (508mm)

General Information

Power output	1.55 hp (1.2 kw)
Drive motor speed	18 - 520RPM Max.
Flange range:	
Minimum diameter	6" (153mm)
Maximum diameter	30" (762mm)
Min. bore diameter	6" (153mm)
Max. bore diameter	28" (711mm)
Air supply requirements	80PSI @ 80CFM 5bar @ 2.2 m ³ /min.

Table of Surfacing Feeds

Gearbox	Feed (in)	Feed (mm)
Position 1	0.007	0.18
Position 2	0.010	0.25
Position 3	0.018	0.46
Position 4	0.033	0.84

For further details contact:



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