

Silk AX1445 Flange Facing Machine

Maximum Clamping Capacity 14 to 45 inches (356 to 1143mm))

The SILK AX1445 Flange Facer is light weight and due to its internal exhaust air ducting system, surprisingly quiet.

Internally mounted, this machine has a working range of 356mm (14") to 1143mm (45") and features four continuous feed rates.

The mounting bases come in two sizes and have micro-adjustable pads to help quickly align the base during set-up.

A single 3kW (4 hp) pneumatic motor drives the turntable, adjustable arm and tool post arrangement. Optional extras include tube sheet mounting and back facing kits as well as grinding and polishing attachments.

Typical Applications

- Lens Ring Seat Cutting & Polishing
- 'V' Groove Cutting
- Tube Sheet Machining

Silk AX1445 Features

- Precise and robust
- Compact and portable
- Internally mounted
- Operates in any orientation
- Cuts "O" Ring grooves, RTJ and other V grooves, standard and compact flange facings, weld repairs, etc.
- Achieves surface finishes from 6.3mm Ra to 1.6mm Ra (250min Ra to 63min Ra) when turning and from 1.6mm Ra to 0.8mm Ra (63min Ra to 32min) when polishing
- Pneumatic drive permits use in hazardous areas
- Provided in own transportable case



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Silk AX1445 Flange Facing Machine

Maximum Clamping Capacity 14 to 45 inches (356 to 1143mm)

SILK AX1445 - It is constructed, as is the rest of the range, from the highest quality materials.

It is designed to give machine shop accuracy, combined with ease of handling and portability, in the flange range of 355mm (14") to 1140mm (45"). The machine consists of four main assemblies:

Base

The mounting bases for the machine are supplied in two sizes to ensure maximum stability throughout the machining range. The bases are set up using the clocking tower bar supplied, to centralise and level the base exactly.

A base is adjusted parallel to the flange by four micro precision pads. It has a detachable locating spigot fitting into a hardened bush, ensuring the machine is positioned as accurately as the base is set.

Drive Hub

A 2.61kw (3.5hp) air motor is contained within the drive hub, giving plenty of power to tackle welds, bolt holes and more exotic materials such as stainless steels.

The machine is surprisingly quiet, as the exhaust is vented down the bore and muffled by its body.

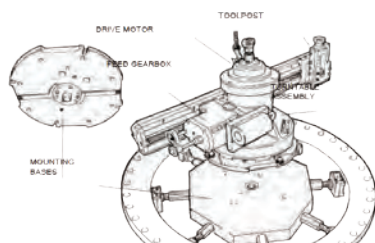
Drive Gearbox

The versatility of this machine is a direct result of the use of the Silk 4-speed gearbox. This allows the machine to feed in or out to give a continuous spiral finish.

Adjustable Arm and Toolpost

Sliding in a dovetail clamp enables the surfacing arm to be positioned to suit the flange, or any obstructions around it.

The arm is clamped on the dovetail and pressed down onto hardened pads to maintain accuracy. The swivel toolpost can be tilted for weld preparation, grooving or special applications.



Specifications

Principal Dimensions

Machine Height	16.5 inches (410mm)
Mounting Base Thickness	2.5 inches (63.5mm)
Maximum Rotational Diameter	45.25 inches (1150mm)
Minimum Rotational Diameter	31.5 inches (800mm)
Tool Post Travel	1.56 inches (40mm)

Weights

Machine Weight (Less Base)	231.5 lbs (105kg)
Nett Weight (Less Wooden Case)	500lbs (227kg)
Total Shipping Weight	660lbs (30kg)

Transportable Case Dimensions

Length	40 inches (1015mm)
Height	32 inches (810mm))
Width	25 inches (640mm)

General Information

Depth of Flange Required to Set Base	5.12 inches (130mm)
Machine Height above Flange Face	13.9 inches (345mm)
Final Rotational Speed	30 rpm

Gripping Range

Minimum Recommended Bore	14 inches (355mm)
Maximum Recommended Bore	38 inches (965mm)

Facing Range

Minimum Diameter	14 inches (355mm)
Maximum Diameter	45 inches (1143mm)

Drive Motor

Minimum Air Supply Requirements	2.61kw (3.5hp) 6 bar 2.69m3/min(90psi 95cfm)
Drive Motor Output Speed	185 rpm

