



GLOBAL
MACHINE TECHNOLOGY



THE SILK HD100 PORTABLE DRILLING MACHINE



Portable drilling machine is a compact, lightweight, portable drill designed for applications involving repetitive drilling operations.

FEATURES

- Automatic down feed
- Quick release keyhole base
- Light weight
- Variable length

MACHINE DESCRIPTION

The Silk HD100 is a compact, lightweight, positive feed variable stroke drilling machine constructed from the highest quality materials. It can be carried and operated by one man and is designed to drill holes in a variety of materials. It is particularly suitable for applications involving repetitive drilling in a variety of different materials.

The machine consists of a single main assembly which incorporates a drive gearbox and a spindle which acts as both leadscrew and tool holder. The gearbox is mounted on pillars which are secured to a triangular keyhole base. The maximum stroke of the drill is 12" (305mm). Typical applications for which the HD100 can be used include the drilling out of corroded or seized bolts and studs up to 3" (76mm) and hole drilling in a variety of different materials for related applications.

KEYHOLE BASE ASSEMBLY

The machine is mounted on a triangular base which is designed to provide a sturdy support for the drilling operation. The base accepts interchangeable pillars of different lengths, depending on the application, which are attached to the base by means of socket head cap screws. The base assembly also features three quick release keyhole mounting holes which allow the machine to be mounted to the workpiece both quickly and simply using three screws.

DRIVE UNIT

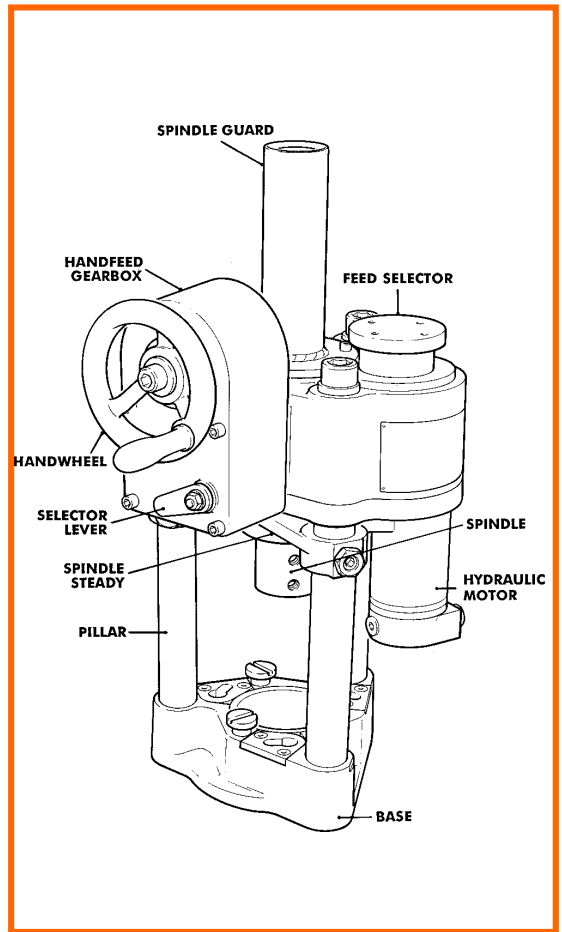
The gearbox is driven by a 2.2hp (1.6kw) hydraulic motor or a 3.5hp (2.61kw) pneumatic motor, mounted vertically beneath the drive gearbox housing. Both motors provide a spindle speed of 150 RPM.

INTERCHANGEABLE SPINDLES & PILLARS

The machine is designed to accept spindles and pillars of different lengths which can be fitted quickly and easily. This enables the machine's stroke length to be increased depending on the application for which it is to be used.

FEED SYSTEM

The machine is fitted with both hand and power feed. Hand feed is selected by a lever mounted on the hand feed gearbox. Automatic down feed is selected by pressing the feed selector push button. The feed rate is 0.005" (0.13mm) per revolution of the spindle.



A rapid reverse facility is also incorporated into the design as well as an automatic stop to prevent damage caused by overrun.

OPTIONAL EXTRAS

Additional stroke and pillar lengths.
No. 4 Morse Taper or ISO 30 taper.
Specialty tooling.
Hydraulic power pack.

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

Specifications

Power & Speeds:

Hydraulic supply 1500PSI @ 5GPM (100 bar @ 22LPM)
Air supply 80PSI @ 80CFM (5 bar @ 2.3m³/min.)
Spindle Speed 150RPM Feed 0.005" (0.13mm) / Rev.

Case Dimensions:

Length 26" (660mm) Height 16" (420mm) Width 14" (360mm)

Dimensions & Weight :

Net Machine Weight 101 lbs. (46 Kg)
Total Shipping Weight 136 lbs. (62 Kg)
Height Min. 19" (488mm) Max. 25" (645mm)
Width 18" (450mm)

** Standard Machine - 1" Sidelock spindle housing

For further details contact:



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