

M A N U A L

FOR

'SENIOR' TYPE "E" VERTICAL MILLER

DENFORD MACHINE TOOLS LIMITED

GENERAL SPECIFICATION

| | |
|-------------------------------------|----------------------|
| Table Size | 635 x 152 mm. |
| Tee Slots | 10 (3/8) |
| Table Movement 'X' | 380 |
| Table Movement 'Y' | 165 |
| Table to Floor | 1050 |
| Quill Movement | 65 |
| Spindle Taper | I.S.O. 30 |
| Spindle Speeds | 260/700/1300/2300 |
| Spindle Motor | 0.37 KW |
| Spindle Rotation (Vertical Plane) | 360° |
| Spindle Rotation (Horizontal Plane) | 360° |
| Overall Size | 1830 x 650 x 1155 mm |
| Net Weight | 164 Kg. |

INSTALLATION

Cleaning

On delivery, the machine will have the bright surfaces coated with a protective solution. This must be removed, using a kerosene based solvent, before any attempt is made to move the slides or operate the machine.

Lubrication

The recommended type of oil to be used :-

Shell Vitrea 68 - or equivalent

The table slideways are lubricated by two spring type oilers - one at the left hand side and one at the rear left hand side of the cross-slide.

Lightly oil the slideways by hand before the initial use.

S.P.H.D. 30 INT. TAPER

| <u>Drg. No.</u> | <u>Description</u> |
|-----------------|---------------------------------------|
| 1 | Body |
| 2 | Spindle |
| 3 | Bearing End Cap |
| 4 | Taper Roller Bearing. SKF 32007X |
| 5 | Locking Stud |
| 6 | Locking Nut |
| 7 | Bearing Spacer |
| 8 | Rack Quill |
| 9 | Bearing Locknut |
| 10 | Bearing Adjusting Screw |
| 11 | Pulley Sleeve |
| 12 | Std. Key $\frac{1}{4}$ " Wide |
| 13 | Bearing. SNR 7206 |
| 14 | Obsolete |
| 15 | Driven Pulley |
| 16 | $\frac{1}{4}$ " Grubscrew - Oil Plug |
| 17 | Socket Cap Screw 2BA |
| 18 | Cover Plate |
| 19 | Domed Cover |
| 20 | Locknut and Washer. KM6 MB6 |
| 21 | Motor - $\frac{1}{3}$ H.P. |
| 22 | Socket Set Screw $\frac{1}{4}$ " Whit |
| 23 | Motor Flange-Tensioning Plate |
| 24 | Drive Pulley |
| 25 | Pulley Housing |
| 26 | Socket Cap Screw 2BA |
| 27 | Draw Bolt |
| 28 | Drive Bearing Housing |
| 29 | 5/16" Oiler |
| 30 | 5/16" Plain Washer |
| 31 | 5/16" B.S.F. Hex. Nut |
| 32 | 5/16" Tee Bolt |
| 33 | 1" dia. Ball |
| 34 | Lever |
| 35 | Locking Lever |
| 36 | Locking Collar |
| 37 | Driving Dog |
| 38 | Spring |
| 39 | Spring Retaining Screw |

| <u>Drg. No.</u> | <u>Description</u> |
|-----------------|-------------------------------|
| 40 | Socket Set Screw 2BA |
| 41 | Pinion |
| 42 | Distance Piece |
| 43 | Worm Housing |
| 44 | Worm Wheel |
| 45 | Clutch |
| 46 | Std. Key 3/32" wide |
| 47 | Shaft |
| 48 | Spring Housing |
| 49 | Driving Plate |
| 50 | Socket Cap Screw 2BA |
| 51 | Handle |
| 52 | Socket Set Screw 2BA |
| 53 | Shaft |
| 54 | Knob |
| 55 | Index Collar |
| 56 | Locking Screw |
| 57 | Index Plate |
| 58 | Collar |
| 59 | Taper Pin 1/8" |
| 60 | Socket Cap Screw 1/4" Whit. |
| 61 | Worm |
| 62 | Clamp Bolt - Motor |
| 63 | 1/2" B.S.F. Hex. Nut |
| 64 | 1/2" Plain Washer |
| 65 | Swivel Pin |
| 66 | Pulley Housing Cover |
| 67 | Socket Set Screw 2BA |
| 68 | Socket Set Screw 3/16" Whit. |
| 69 | Depth Stop Screw 5/16" B.S.F. |
| 70 | Depth Stop Locknut Top |
| 71 | Depth Stop Locknut Bottom |
| 72 | Stop Plate |
| 73 | 5/16" B.S.F. Nut |
| 74 | 2BA x 3/8" C/S Screws |
| 75 | Springwell Oiler |
| 76 | Back Plate |
| 77 | Taper Strip for Back Plate |
| 78 | Hex. Head 3/8" Whit. |
| 79 | 3/8" Standard Washer |

