

SPEED, FEED AND MOTOR CONTROL

Single direct-acting levers control speeds, feeds and motor. Unique shifting of speeds and feeds is direct from any one to any other without passing intermediate points. A pointer indicates speeds and feeds engaged. The motor control lever operates a built-in pilot switch with "Start-Stop" position; on reversing motor controls "Start-Stop-Reverse".

FEED GEARING

The feed transmission is also an individual unit and is removable as a complete assembly. Ground alloy involute splined shafts, shaved gears and anti-friction bearings are used.

Lubrication is provided from the main transmission case. Special feed gearing can be furnished to include a limited number of tap leads.

SPINDLE AND SLIDING HEAD

Heat treated alloy steel spindle quill and removable full capped quill bearing in the sliding head give extra long life and allow compensating adjustment for what little wear does occur.

The alloy steel spindle shaft has 19 involute splines to give maximum bearing area in the drive bushing and provide increased torsional capacity. The spindle ball bearings are grease lubricated and mounted so temperature increase under extra heavy operation has minimum effect on preload.

The hardened steel drift slot insert in the spindle prevents damage from rough use of drifts.

The sturdy box section sliding head is mounted on generous, accurately scraped, dovetail column ways. Precision alignment allows full vertical movement without impairing accuracy. Accurate counter-balancing by a weight inside the column allows quick easy positioning of head and spindle. The combination of a positive lock latch, engaging the elevating rack and the sliding head binder, positively lock the head to the column, without putting undue strain on the head casting.

The powerful positive quick-acting feed clutch and gear mechanism, contained in the head, operate in a bath of oil. The feed worm and gear are in constant mesh. The feed depth dial is easily set to disengage the feed at any preselected point. Safety trip dogs automatically disengage the power feed at the extremes of spindle travel.

TAPPING

The Cleereman automatic tapping reverse option is for high speed tapping of large or small run production in open or blind holes. The depth repeatability obtained at a reversing point is invaluable when blind hole tapping.

Complete controls for automatic or manual operation along with feed depth dial permit use of this attachment throughout the range of travel.

For close tolerance work a lead screw unit geared directly to the spindle can be furnished. A separate precision ground lead screw and bronze nut are needed for each thread pitch, and are known as a thread lead attachment. Certain geared pitch leads can be obtained by using special gearing in the feed box or a combination of leads can be arranged by using the auxiliary feed gear box. All automatic tapping equipment is optional equipment.

EQUIPMENT AND ACCESSORIES

Coolant Systems
Chip Pans
Special Spindle Noses
Multiple Drill Head Flanges
Multiple Drill Head Counterbalancing
Increased Spindle Travel
Machined and T-Slotted Base
Automatic Tapping Reverse
Thread Lead Attachment
Increased Column Heights
Compound Tables
Special Boring Spindles

SPECIFICATIONS: CLEEREMAN DC BOX COLUMN SLIDING HEAD DRILLING MACHINE SINGLE SPINDLE MACHINES

30" Swing
Machine
15
14
27½
48
18
33 20½
12
12½
18
12
2% x 5%
No. 4
1.650"
3%
24x28
23x24
5½
5-7-9-13-
-20-32-45
ation
-775-1000
160-1500
cation
5 or 7½
9'-3" 35x58
3750
5150
4250
42x60
x96 high
140
4550

**Spindle Travel reduced 4½" when using lead screw tapping attachment.
**Sliding Head Travel reduced by 2½" when using an auxiliary feed gear box.

For factory direct parts and service contact us at the address below.

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