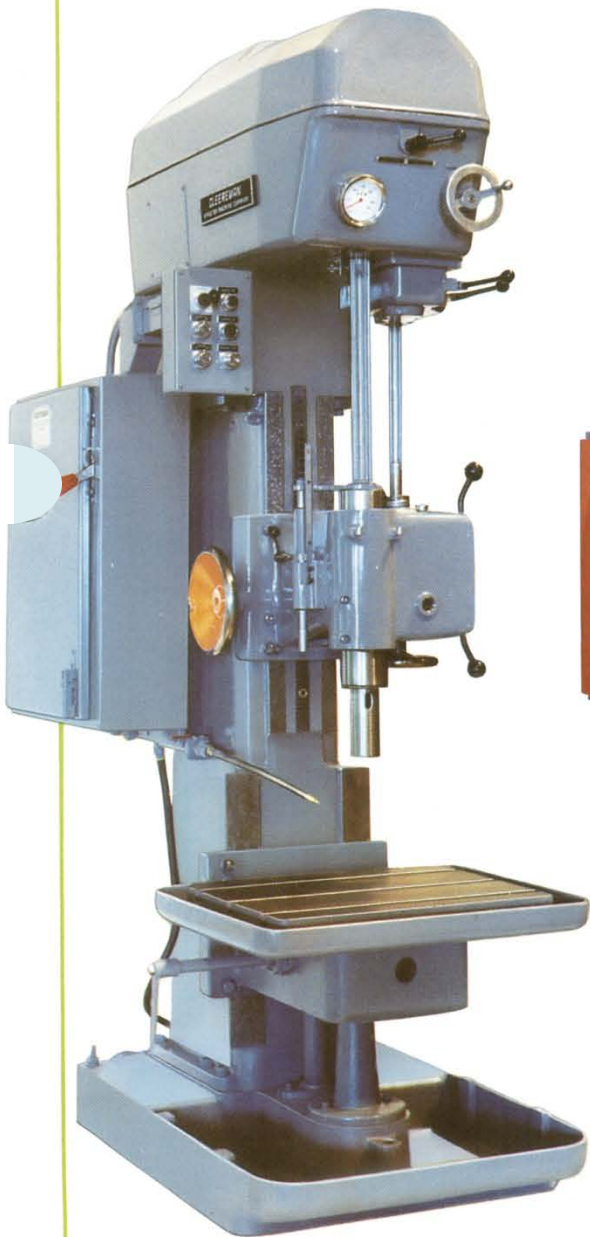


# Variable Speed Sliding Head Drilling Machine

Performance, accuracy and versatility are built in characteristics of Cleereman sliding head drilling machines. These same characteristics of quality are now reflected in the DV Series of variable speed upright drilling machines.

Unit construction provides simplified design and assures easy maintenance and trouble free, long life operation.

The wide range of adjustment means a wide variety of work is easily handled. Gear driven IPR feed provides accurate control of feed rates. Generous way areas are accurately finished and lubricated to insure long life. Dependable variable speed feature allows infinite spindle speed adjustment to suit the application.



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

Chas. G. Allen, Inc.  
25 Williamsville Road  
Barre, MA 01005  
Tel: (978) 355-2911  
Fax: (978) 355-2917

## SPEED & MOTOR CONTROL

The spindle speed transmission has a high/low range selector lever, conveniently located on the front of the headstock, driving a manually adjustable variable pitch sheave to obtain spindle speeds, in the two ranges, from 80 RPM to 2000 RPM. Spindle speeds are monitored by the headstock mounted tachometer. Spindle rotation is controlled by a "joy-stick" lever mounted on the conveniently mounted control panel.

## FEED GEARING

The feed transmission is an individual unit and has four feed rates ranging from .005" to .016" per revolution of the spindle. Feed rates are positively controlled by selective sliding feed change gears, actuated by means of two control levers.

Oil bath lubrication insures long life to all components. Special feed gearing can be furnished. Hand feed optional at reduced cost.

## SPINDLE & SLIDING HEAD

The large diameter spindle quill is ground and fitted to the sliding head with an adjustment feature to compensate for wear. The vertical travel of the quill is by means of a rack and pinion drive. The alloy steel spindle has an involute spline drive 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 heavy operation has minimal effect on preload. The spindle has a #4 Morse taper with a hardened drift slot (flanged quill optional). Accurate counterbalancing by a weight inside the column allows quick and easy positioning of the sliding head and spindle. The sturdy box section sliding head is mounted on generous accurately scraped dovetail column ways. Precision alignment allows full vertical adjustment of the sliding head without impairing accuracy.

The feed clutch is a positive fine tooth serrated type, engaged by either of two quick return levers. Feed disengagement point is set by means of a direct reading depth scale and adjustable feed trip actuator. The feed clutch worm wheel is driven by a constant mesh worm gear submerged in oil.

## EQUIPMENT AND ACCESSORIES

- Flood Coolant System
- Chip Pans
- Special Spindle Noses
- Multiple Drill Head Flanges
- Additional counterbalancing for multiple heads & heavy tooling.
- Automatic tapping reverse
- Cross compound table (box column only)
- Inch/metric dial for depth feed
- 4:1 feed reducer
- Worklight

## SPECIFICATIONS

### CLEEREMAN DV25 BOX COLUMN

Center of Spindle to Lower Column	12.5"
Center of Spindle to Upper Column	11.5"
Swing in Plane of Table	23"
Maximum Distance Spindle to Table	33"
Minimum Distance Table to Floor	19.5"
Spindle Travel by Power	8"
Spindle Travel by Hand	8.5"
Adjustment of Sliding Head	12"
Vertical Adjustment of Table	12"
Spindle Nose—Diameter and Length	2.437" x 5.437"
Morse Taper Hole in Spindle	No. 4
Least Diameter of Spindle	1.625"
Spindle Sleeve Diameter	3.875"
Working Surface of Table	12" x 24"
Height of Base	4.5"
Feeds in Thousandths per Revolution	5-8-11-16
Special higher or lower feed range on application	
Standard Speeds	Infinitely variable 80-2000 RPM
Horsepower	5 Hp.
Height Overall	101"
Floor Space	28.5" x 43"
Net Weight, lbs.	3150#
Crated Weight, including	
Electrical Equipment, lbs.	3600#

### CLEEREMAN DV25 ROUND COLUMN

Center of Spindle to Lower Column	12.5"
Center of Spindle to Upper Column	11.5"
Swing in Plane of Table	25"
Maximum Distance Spindle to Table	31"
Minimum Distance Table to Floor	19.5"
Spindle Travel by Power	8"
Spindle Travel by Hand	8.5"
Adjustment of Sliding Head	12"
Vertical Adjustment of Table	17"
Spindle Nose—Diameter and Length	2.437" x 5.437"
Morse Taper Hole in Spindle	No. 4
Least Diameter of Spindle	1.625"
Spindle Sleeve Diameter	3.875"
Working Surface of Table	23" dia.
Height of Base	4.5"
Diameter of Round Column	7"
Feeds in Thousandths per Revolution	5-8-11-16
Special higher or lower feed range on application	
Standard Speeds	Infinitely variable 80-2000 RPM
Horsepower	5 Hp.
Height Overall	101"
Floor Space	28.5" x 58"
Net Weight, lbs.	2950#
Crated Weight, including	
Electrical Equipment, lbs.	3350#

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