



AUTOMATIC CYCLE CONTROL Adjustable dials control limit switches for operating spindle traverse motor and electric feed clutch on adjustable spindle head.

For adjustment requiring close depth tolerances, a built-in micrometer graduated in thousandths is provided on top of the head just above the depth dial. The built-in micrometer has a range of plus or minus .020 inch adjustment with a depth repeatability of .002 inch.

DRILLING AND/OR TAPPING

The Series "A" is built in two model classifications. The Model AD is the drilling machine and the Model ADT is the drilling and tapping machine. High cycle tapping operations are accomplished by using rapid reversal motors.

LUBRICATION

Lubrication to the transmission gears and bearings is distributed by a pump in the transmission head. The adjustable head transmission runs in oil. All isolated bearings are permanently sealed.

T-SLOTTED TABLE A T-SLOTTED TABLE bolts solidly to a large pad on the lower column face. An extra capacity coolant trough and a heavy screw jack for auxiliary support are included.

J.I.C. ELECTRICAL SPECIFICATIONS J.I.C. Electrical Specifications are standard.



FEED CLUTCH

The heavy duty electric feed clutch is engaged to furnish feed to the cutting tool after rapid advance.

STANDARD EQUIPMENT

Standard equipment includes pushbutton station, motor shelf and coupling for station, motor shelf and coupling for direct motor drive, sump type base, counterweight assembly, rectangular table with screw jack and No. 5 Morse Taper Spindle Nose or Flanged Quill for Multiple Spindle Drill Heads. One pair of Speed Pick-Off Gears, one pair of Feed Pick-Off Gears, thigh or low range) and one pair of Speed Pick-Off Gears, thigh or low range) and one pair of Speed Pick-Off Gears (high or low range) and Off Gears (high or low range) Gears (high or low range) and one pair of Feed Intermediate Gears are provided as standard.

OPTIONAL EQUIPMENT
Straight Raising Blocks, Offset Raising
Blocks, Special Slotted Spindle Nose,
Special Spindle Nose Tapers, Increased
Spindle Travel, Power Feed Dwell to
Spindle, Coolant System, Chip Pans,
Special Indexing Tables, Multiple Spindle
Heads, Fixtures and Tooling, T-Slotted



SPEED-FEED BOX

Shaved, heat treated pick-off gears are fast and simple to change. Each pair of speed pick-off gears is transposed to provide 2 spindle speeds. One pair of intermediate speed gears is furnished as standard equipment for either high or low range. Each pair of Feed pick off and Feed intermediate gears can be transposed to provide four IPR feedrates.

Base, Left Hand Tapping and Skip Feed meet a wide range of machining requirements.

VARIATIONS

Available

Increased clearance under the spindle can be obtained with raising blocks. Offset raising blocks also increase the spindle overhang.

Special oversize bases and tables, for large parts, fixtures, or indexing tables are available.

The upper column, spindle head, transmissions, motors and controls are a complete unit readily mounted on special machinery or fixtures.

Various gang drill arrangements are available.

| SPECIFICATIONS: | CLEEREMAN | SERIES | "A" |
|-----------------|-----------|--------|-----|
| Single Spindle | | | |

| Single Spinule |
|--|
| Spindle to column |
| Spindle Head adjustment (3" Increments) 6" Spindle travel 1114" |
| Morse Taper No. 5 Spindle nose, #5 M.T. 3-1/8" Dia Spindle quill diameter 4-7/16" Thrust capacity-No. 5 M.T. Spindle 7,000 lbs Flanged Quill 8,500 lbs |
| Table and BaseTable Working Surface.22" x 24"Vertical Table Adjustment.12"Height of Base.6" |
| Floor Space 8 to L x F to B. 33" x 60" Height, Overall. 102" |
| Motors Main Drive |
| |

5, 7-1/2, 10 or 15 HP/1200 or 1800 RPM

Shipping..... Approximately 4,300 lbs

| Spindle R.P.M. (Low Range) 64 777 90 103 123 1441 162 185 202 231 265 304 355 414 486 580 | Spindle R.P.M. (High Range) 193 230 270 315 369 423 486 555 606 693 793 912 1065 1242 1461 1740 |
|---|---|

Speeds based upon 1800 RPM motor

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

| Availab | le | |
|----------------|----------------|------------------|
| Spindle | | Available |
| Thousa | ndths per rev. | Tap Leads |
| Feeds | Feeds | Threads per inch |
| .0029 | .0204 | |
| .0039 | .0278 | 36 32 |
| .0043 | .0313 | 32 |
| .0048 | .0347 | 20 |
| .005 | .0357 | 28 |
| .0052 | .037 .0417 | 28 27 24 |
| .0068 | .0485 | 24 |
| .0070 | .050 | 20 |
| .0078 | .055 | 18 |
| .0087 | .0625 | 16 |
| .0098 | .069 | |
| .0100 | .0714 | 14 |
| .0107 | .076 | 1.0 |
| .0108 | .0769 | 13 |
| .0112 | .0798 .0833 | 12 |
| .0122 | .0868 | 11-1/2 |
| .0126 | .090 | 11-1/2 |
| .0127 | .0909 | 11 |
| .0137 | .0973 | |
| .0140 | .100 | 10 |
| .0156 | .111 | 9 |
| .0177 .0195 | .125 .1385 | 0 |
| .0201 | .1429 | 7 |
| .0234 | .1667 | 6 |
| .0263 | .1875 | 5 |
| .0273 | .194 | |
| .0280 | .200 | 5 |
| .0310 | .222 | 4-1/2 |
| | | |

.222

.0350

Weight