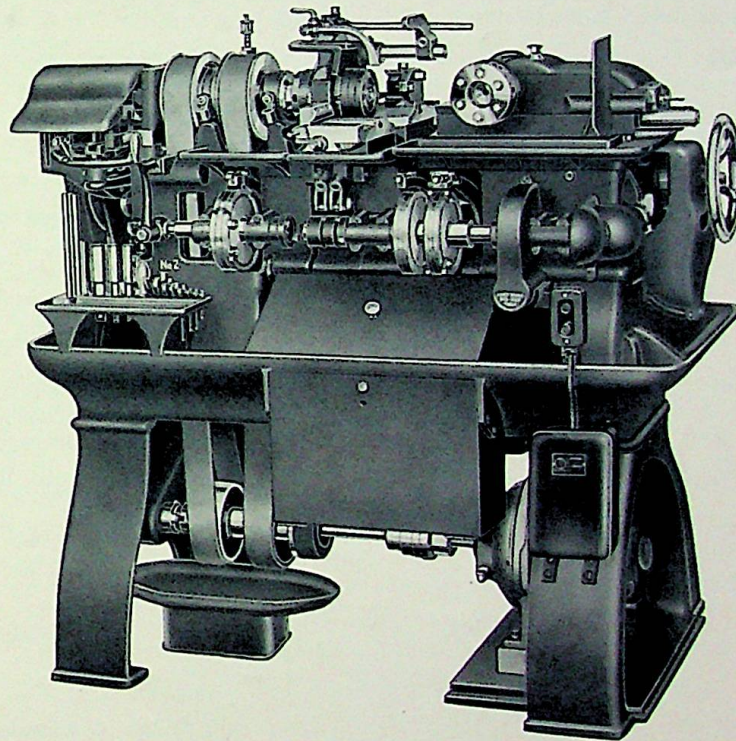


SPECIFICATIONS

No. 2
AUTOMATIC
SCREW MACHINE
HIGH SPEED
FOR MOTOR DRIVE ONLY



CAPACITY:

HOLE THROUGH LARGEST FEEDING FINGER, 7-8"
TURNS ANY LENGTH TO 2"

ONE MOVEMENT OF FEEDING MECHANISM FEEDS ANY LENGTH TO 21-2"

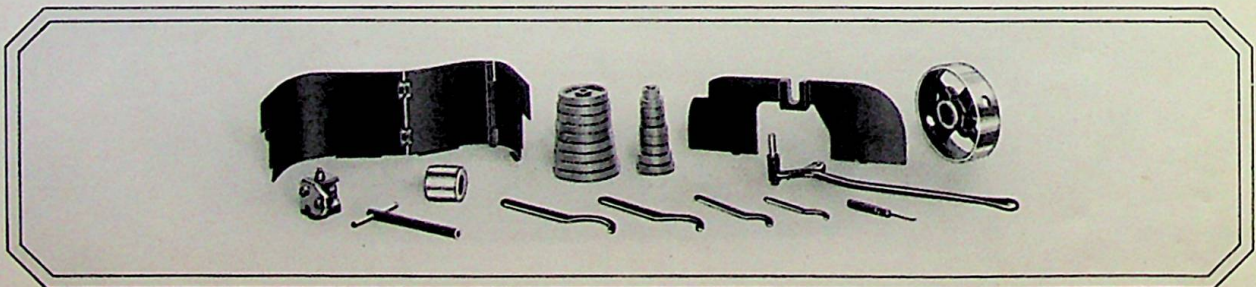
BROWN & SHARPE MFG. CO.
Providence, R. I., U. S. A.

No. 2 Automatic Screw Machine

High Speed

For Motor Drive Only

- CAPACITY** Hole through largest feeding finger, $\frac{7}{8}$ " ; through feed tube, $1\frac{1}{2}$ ". Regular feed tube takes feeding fingers for light work to 1" diameter. A feed tube to take light work to $1\frac{1}{8}$ " diameter can be furnished as an extra. Turns any length to 2". One movement of feeding mechanism feeds any length to $2\frac{1}{2}$ ". Greatest distance, front of chuck to turret, $6\frac{3}{4}$ ".
- SPINDLE** Bearings hardened, ground and lapped. Hardened steel boxes equipped with roller bearings. Front box provided with means of compensation for wear. Thrust taken at rear end of spindle by ball bearing. Diameter of hole through spindle, $1\frac{7}{8}$ ".
- DRIVE** By motor. 3 H. P. motor, connected direct to main driving shaft, runs at constant speed of 1,800 R. P. M. 6 spindle speeds; 2400, 1820, 885, 536, 407 and 200 R. P. M. 2400 R. P. M. and 1820 R. P. M. should not be run together in opposite directions. Changes obtained by split pulleys in conjunction with a sliding sleeve clutch on the driving shaft which engages a reduction mechanism. Eight different speed combinations can be obtained. Additional speed combinations can be secured by use of other sizes of pulleys.
- COLLETS** Change from one size to another easily made by removing a single nut. Adjustment of gripping power made by nut between front bearing and front pulley on spindle.
- STOCK FEEDING MECHANISM** One movement feeds any length to $2\frac{1}{2}$ "; greater lengths by successive movements. Can be stopped independently of spindle. Scale on feed slide, graduated to 32nds of an inch or to millimeters, facilitates setting length of feed. Fine adjustments readily made.
- AUTOMATIC STOP** For feeding mechanism. Stops entire machine except spindle. Operates when stock is exhausted and leaves chuck open.
- MOVEMENTS** Indexing of turret, operation of chuck, feeding of stock and reversal of spindle controlled by adjustable dogs, easy of access and quickly adjusted. Feeds of turret slide and cross slides controlled by cams made from steel disks, cheaply formed and easily applied. Turret slide and cross slides may be operated by hand. Cross slide ways guarded from chips. Driving shaft maintains constant speed of 240 R. P. M.; insures rapid movements irrespective of size of work. Return and change movements extremely rapid.
- TURRET** 6 holes, 1" diameter. Revolves vertically on side of turret slide. Horizontal clearance, center of holes in turret to side of turret slide, $1\frac{1}{2}$ ". Greatest distance, front of chuck to turret, $6\frac{3}{4}$ "; least, $2\frac{1}{2}$ ". Tools turn any length to 2". Arranged for single or double indexing.
- SWING STOP FOR STOCK** Separate from turret, makes available all 6 holes for operating tools.
- CROSS SLIDE TOOLS** Circular. On separate slides. Can be operated together or separately. Tool posts have fine adjustment.
- CHANGE GEARS** Provide for the normal requirements of the machine.
- AUTOMATIC LUBRICATION** Equipped with an automatic oiling arrangement which provides for forced feed lubrication to the most important points of the machine.
- FLOOR SPACE** At right angles to spindle, 31". Parallel to spindle, 61".
- EQUIPMENT** No. 1 Pump and piping, $\frac{7}{8}$ " spring collet and feeding finger, 4 spindle driving belts, driving shaft belt, set of cam blanks, change gears, 2 wire stands and everything else shown in cut on cover and panel below. Instructions and diagrams for laying out cams sent with each machine.



WEIGHTS AND SHIPPING DATA	Net Weight, Lbs. (Approx.)	Domestic Shipping Weight, Lbs. (Approx.)	Foreign Shipping Weight, Lbs. (Approx.)	Dimensions for Shipment, Inches	Space Occupied, Cu. Ft.
Machine ready for Motor drive	2225	2700	2750	74x43x60	110
Machine complete with Motor drive	2325	2800	2850	74x43x60	110

The following attachments are available for use on the No. 2 Automatic Screw Machine (High Speed) (For Motor Drive Only) as extras:

Screw Slotting Attachment
Vertical Slide
Index Drilling Attachment
Burring Attachment
Rear End Threading Attachment
Automatic Rod Magazine
Roller Feed and Timing Mechanisms

Cross Drilling Attachment
Drilling Attachment
Tap or Die Revolving Attachment
Combination Drilling and Tapping Attachment
Double Movement Cross Slide
Outside Feeding Attachment
Arrangement for Oiling Through Turret Tools

Details of Construction

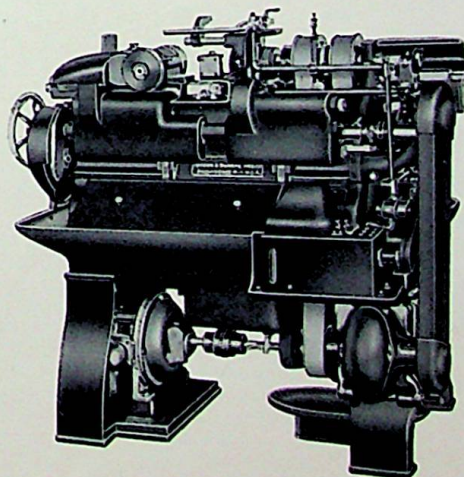
The Brown & Sharpe No. 2 Automatic Screw Machine (High Speed) (For Motor Drive Only) is similar in general design to the regular No. 2 Automatic Screw Machine (High Speed). It possesses the same capacities as the latter machine and, other than the method of driving, is similar in the constructional and operating features.

Like the other High Speed Automatics, this machine is provided with a swing stop and the double indexing arrangement which greatly facilitates increased production.

The motor is connected to a shaft which runs under the base of the machine. The pulleys mounted on this shaft drive, through belts, the pulleys mounted on the spindle. A sufficient number of speed changes are provided to adapt the machine to a broad range of work.

The broad legs of the machine stand offer adequate protection to the motor yet leave it readily accessible for cleaning, oiling, etc.

The convenient location of the starting box and controlling arrangement is a feature of the machine.



Rear View

Screw Machine Service

To the manufacturer of screw machine parts, no one thing is of any more importance than taking advantage of all new developments in the line of machines and attachments.

The Brown & Sharpe Screw Machine Service is always at the disposal of our customers, either to assist them in the selection of equipment, or in the solution of any difficulties they may encounter in such work. Perhaps if given an opportunity to study your work we may find it adaptable to increased production with Brown & Sharpe equipment.

Data compiled through years of experience, both on work in our own shop and in plants of our hundreds of customers, places us in an advantageous position in making recommendations.