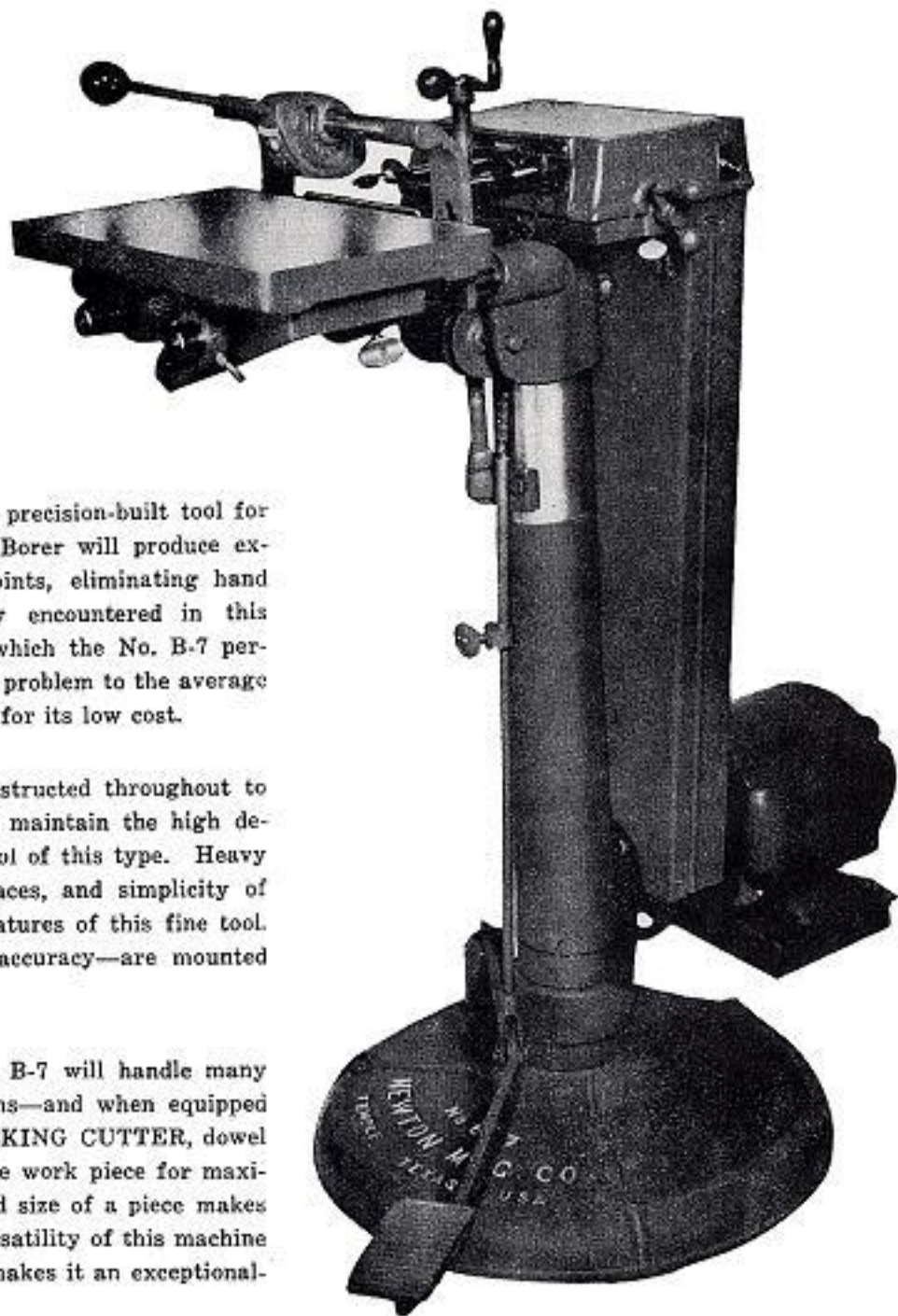




No. B-7 BORER

TWO SPINDLE HORIZONTAL BORING MACHINE



The NEWTON No. B-7 BORER is a precision-built tool for the wood worker. This two-spindle Borer will produce extremely accurate holes for dowel joints, eliminating hand fitting and misalignment frequently encountered in this exacting operation. The ease with which the No. B-7 performs a job—that is frequently a real problem to the average shop owner—will quickly compensate for its low cost.

The No. B-7 BORER, is sturdily constructed throughout to give long trouble-free service and to maintain the high degree of accuracy so necessary in a tool of this type. Heavy iron castings, oversize bearing surfaces, and simplicity of design are among the outstanding features of this fine tool. The spindles—vitally important for accuracy—are mounted on high speed frictionless bearings.

In addition to dowel boring, the No. B-7 will handle many other types of wood boring operations—and when equipped with a NEWTON STYLE "B" CHUCKING CUTTER, dowel pins can be produced directly onto the work piece for maximum joint strength, where the limited size of a piece makes it impractical to drill a hole. The versatility of this machine and its high quality of performance makes it an exceptionally popular tool in any shop.

DRILL BITS and ATTACHMENTS for B-7 BORER



STYLE 500—Taper Point



STYLE 700—Taper Point



STYLE 600—Spur Point



STYLE 800—Spur Point



BA-1 ADAPTER
Adapts straight shank bits
to threaded chucks.



STYLE 400—Countersink
(Can be combined with BA-1 Adapter
for threaded chucks)



STYLE "B"
CHUCKING
CUTTER

Spindles—The drill spindles on the NEWTON No. B-7 BORER are made of tough alloy steel. They are mounted on high speed frictionless bearings that are pre-lubricated for life and completely protected against dust. The spindle units move on dovetailed ways, and are provided with gibbed adjustments for wear. The drill chucks are integral with the spindles.

Drill Chucks—Two types of chucks are available on the No. B-7 BORER, optional to the purchaser. A setscrew type of chucks, having two large hollow head setscrews, for $\frac{1}{2}$ " straight shank tools, or $\frac{7}{16}$ "-14 threaded chucks for holding threaded shank tools are standard. The type of chuck desired should always be specified when ordering.

Capacity—The No. B-7 BORER will drill two holes up to $\frac{5}{8}$ " in diameter on any center spacing from $1\text{-}\frac{5}{32}$ " to $4\text{-}\frac{1}{2}$ ", and at a maximum depth of $3\text{-}\frac{1}{2}$ ". The work table is adjustable to 3" below the center line of the spindles, thus making it possible to drill to the center of a 6" piece. The standard work-holding clamp will take stock up to $2\text{-}\frac{1}{4}$ " in thickness by any length. The No. AP-2 Work-holding Clamp—optional at slight extra cost—will hold stock up to 3" in thickness by any length. Either clamp can be quickly removed from the table, when desired.

Work Table—This part is made of a heavily ribbed casting accurately machined and polished. It is in precision alignment with the spindles, and is equipped with a stop rod for gauging the depth of boring. A gauge bar at the front of the table locates the work to the drill bits. This bar is offset from the table to allow for chip passage, and can be dropped down below the working surface of the table so that the work piece can be extended beyond the table, for such operations as cutting dowel pins on small pieces with the NEWTON STYLE "B" CHUCKING CUTTER.

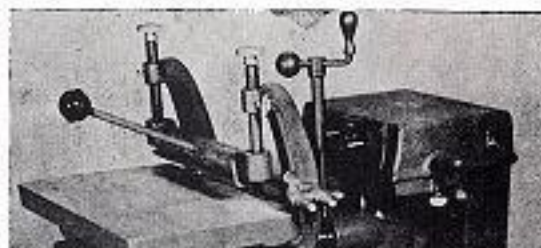
The work table of the No. B-7 BORER moves on $1\text{-}\frac{1}{8}$ " diameter Redways that are fitted to very close tolerances.

Power Transmission—The drill spindles on the No. B-7 BORER are each driven by two matched V-belts from the motor. These belts operate over precision-machined steel sheaves. The motor is mounted on a hinged base that automatically retains the correct belt tension at all times.

Motor Recommendations—Use a $\frac{3}{4}$ H. P. 1725 R. M. P. NEMA 66 frame motor.

Drill Bits—For best results, use short length Dowel Drills. These drills are approximately 5" in overall length, and are available from most supply sources. A complete stock is carried at our factory for immediate shipment. Although the short length drills are recommended, longer lengths can be used if necessary.

STANDARD EQUIPMENT—The NEWTON No. B-7 BORER is regularly equipped with the Standard Work-holding Clamp; 1 Phase Motor Control Switch; V-Belts and Motor Pulley; Heavy-duty Extension Cord and Plug; and two $\frac{1}{2}$ " Drill Bits. Motors and 3 Phase Motor Control are Extra.



The view above shows the No. B-7 BORER equipped with the No. AP-2 WORK-HOLDING CLAMP. This clamp can be had (in place of the standard clamp) at a slight extra cost. The work table of the machine is prepared for either clamp.



The NEWTON STYLE "B" CHUCKING CUTTER, shown above in operation on a No. B-7 BORER, will cut square-shouldered pins from $\frac{1}{4}$ " to $\frac{5}{8}$ " in diameter by $1\text{-}\frac{1}{8}$ " in length, and is ideal for cutting pins on the ends of chair stretchers and similar pieces of work where it is not practical to drill a hole for a dowel pin. Straight or compound angles can be produced with this cutter. See individual pamphlet for details of this cutter.

SPECIFICATIONS—No. B-7 BORER

Drilling Centers.....	1-5/32" to 4-1/2"
Drill Bit Capacity.....	5/8" Dia.
Maximum Drilling Depth.....	3-1/2"
Plain Chucks.....	1/2" Bore
Threaded Chucks.....	7/16"-14 Thread
Work Table.....	8 1/2" x 14"
Horizontal Travel of Work Table.....	3-1/2"
Spindle Speed.....	3,600 R. P. M.
Motor.....	3/4 H. P., 1725 RPM, 1 or 3 Ph., 60 Cy., A. C.
Motor Pulley.....	3 1/4" O. D. x 3/4" Bore
Net Weight (With Motor).....	225 lbs.
Domestic Shipping Weight.....	Approx. 265 lbs.
Crated for Export.....	Approx. 325 lbs.

IMPORTANT—Specify Type of Chuck, and Phase of Motor when ordering. If machine is ordered "Less Motor", give Wiring Phase.