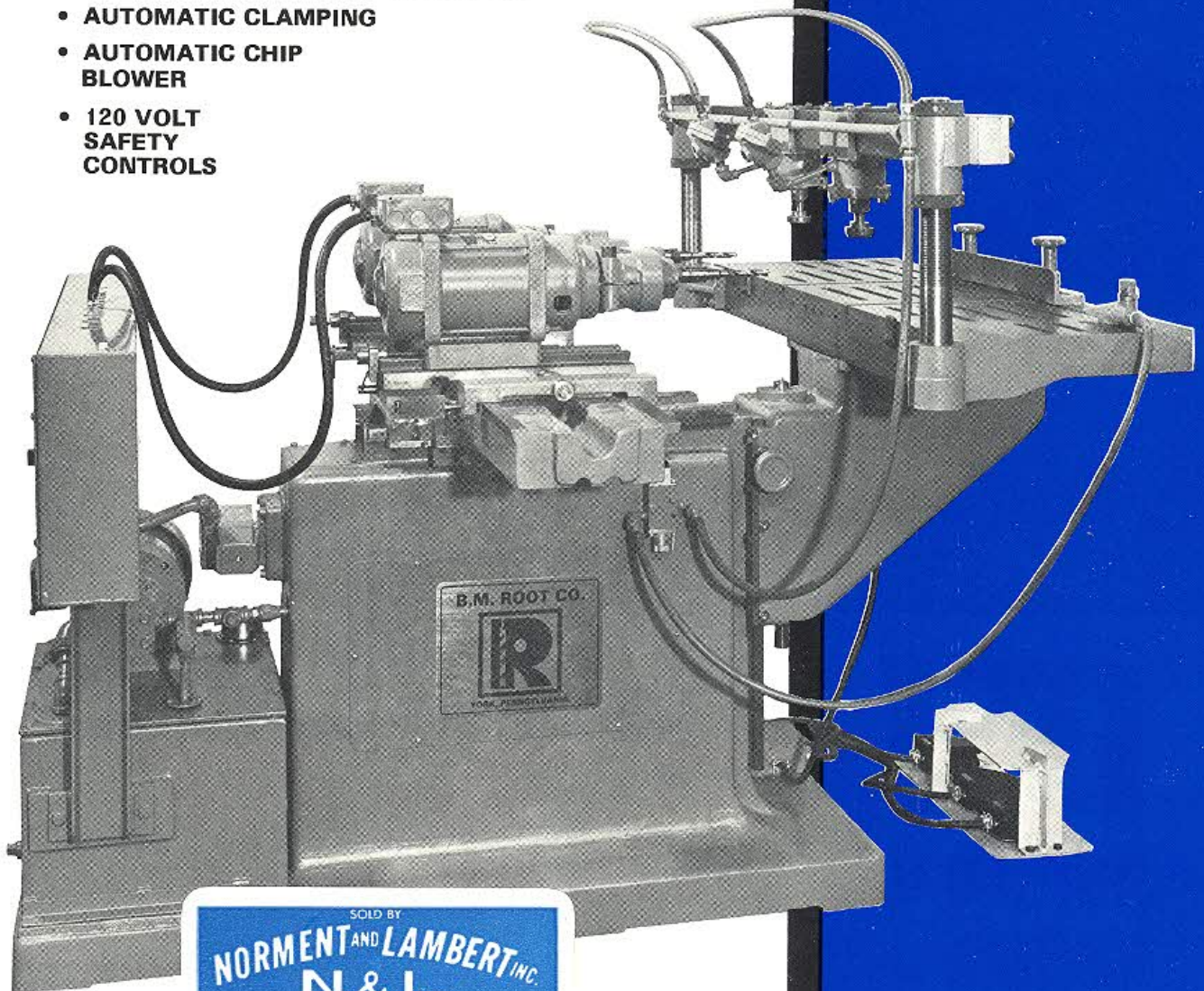


ROOT STYLE D-170

HYDRAULIC FEED HORIZONTAL BORER

Featuring

- AUTOMATIC CONTINUOUS AND INTERMITTENT FEED STROKES
- STEPLESS HYDRAULIC POWER FEED
- AUTOMATIC CLAMPING
- AUTOMATIC CHIP BLOWER
- 120 VOLT SAFETY CONTROLS



SOLD BY
NORMENT AND LAMBERT INC.
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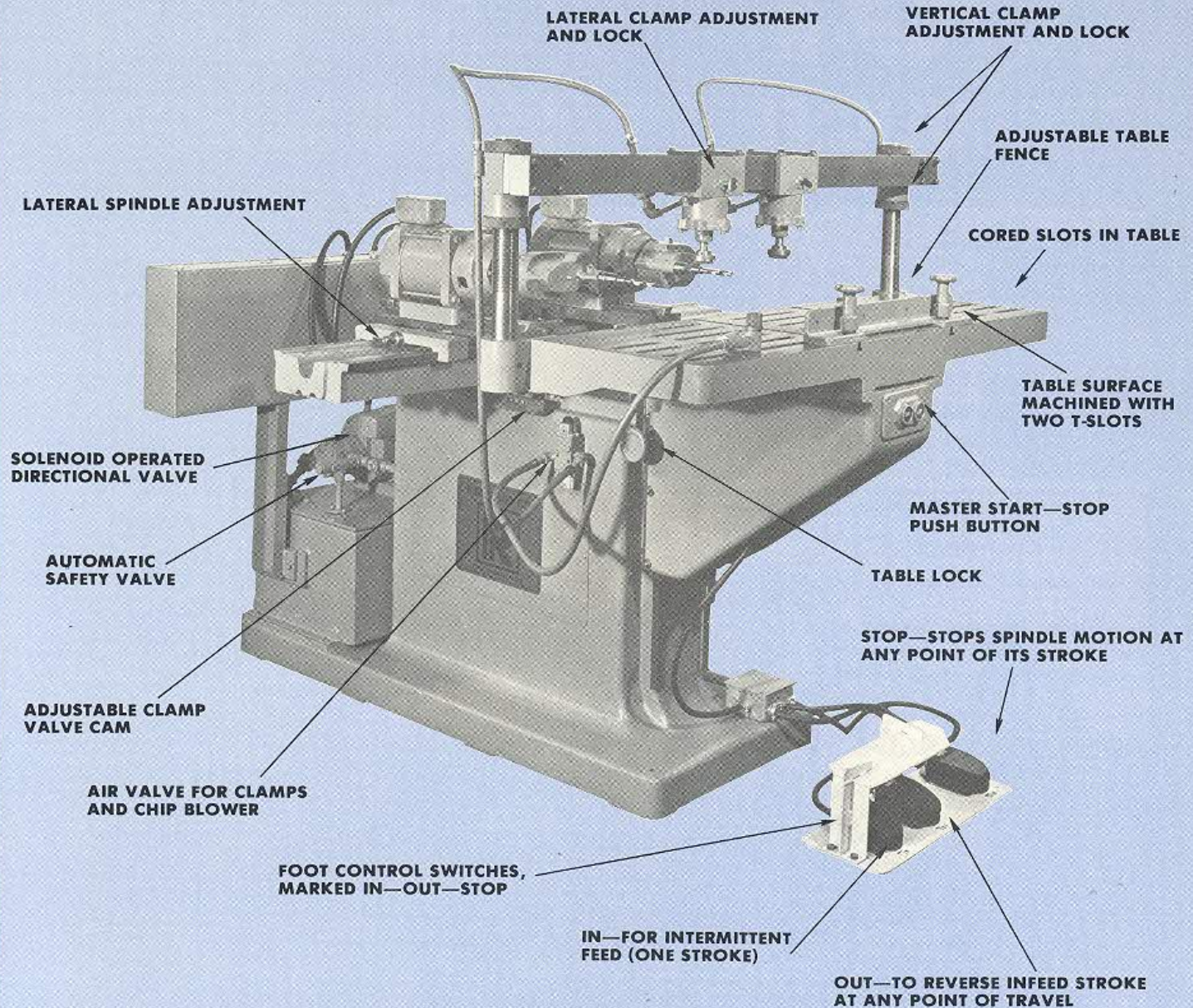
B.M. ROOT CO.

York, Pennsylvania 17405

Boring Machine Specialists ■ Phone 717/848-2356

BULLETIN
204A

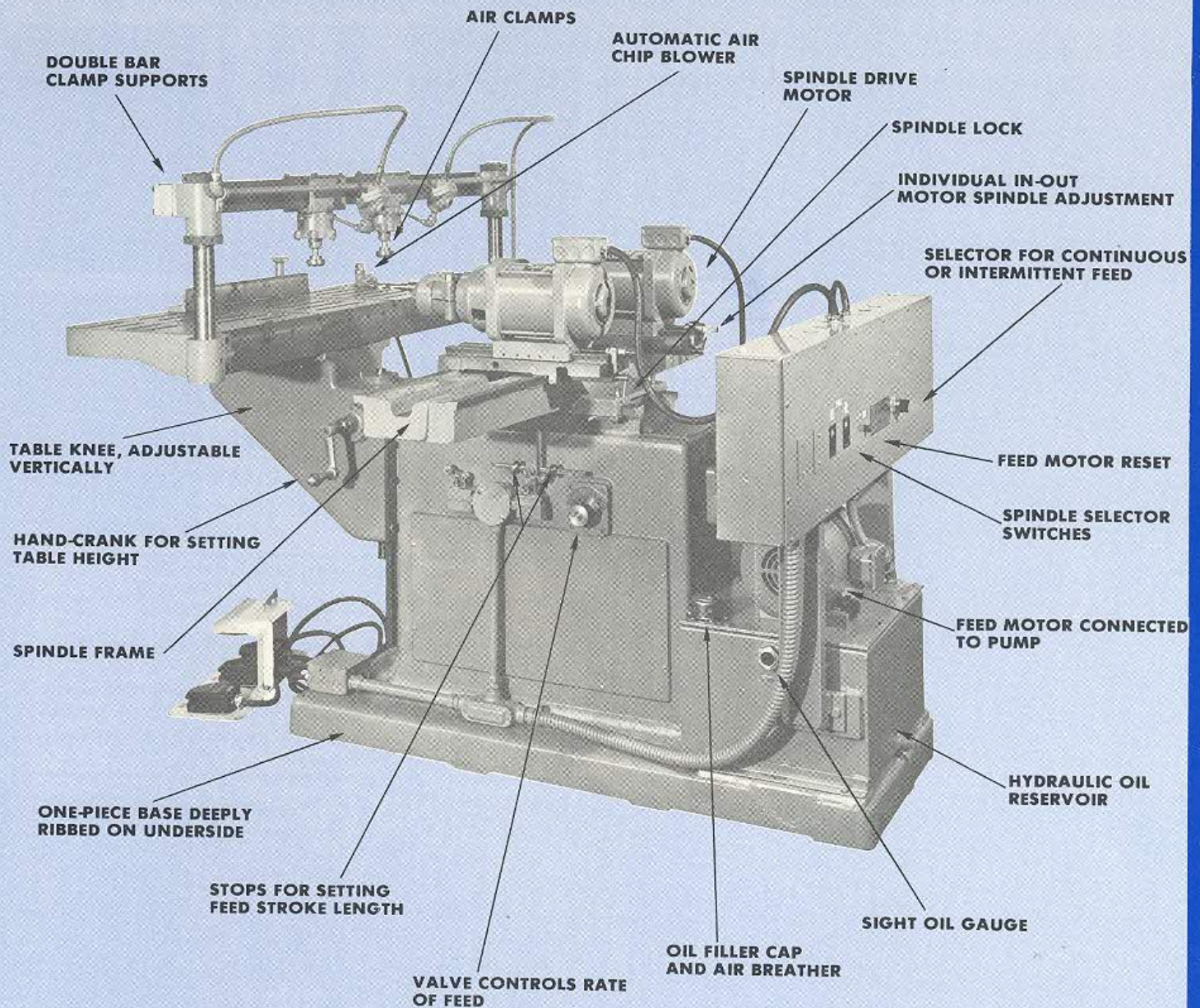
ROOT STYLE D-170



The "D170" is an extremely flexible and highly productive Horizontal Borer for dowel boring a wide variety of furniture parts and similar products. The machine is available in either 30" or 42" maximum boring length. Standard equipment includes two D53 motorized spindles with individual depth adjustment, two D51 single spindle radial boring heads, two automatic air operated holddowns, back fence and chip blower. Additional motorized spindle units can be added. Also adjustable or fixed center multiple spindle boring heads can be used with the motorized spindle units to increase the versatility of the machine.

The frame carrying the spindle units is hydraulically powered providing a wide range of feed strokes controlled through a throttle valve. An automatic pre-set safety valve prevents damage to the machine from jamming or overloading. Either continuous or single cycle operation can be used by simply turning the selector switch. Electric foot switches marked "IN", "OUT" and "STOP" control the feed stroke.

The air clamp control is adjustable to synchronize the air clamps with the boring stroke, to close just before boring and release after the bits have retracted from the stock. Quick acting exhaust valves expedite opening of the clamps.



The D53 motorized spindle units are provided with individual in and out adjustment by means of a screw and hand crank. This feature is useful in setting for accurate depth or to compensate for unequal bit lengths. The D51 heads are adjustable throughout an entire circle of 4" radius, providing a wide combination of spindle centers for straight line or offset boring. Spindle noses are regularly furnished to receive 7/16" - 14 thread bit shanks.

Separate electric control is provided for each spindle motor with a master start-stop station at the front of the table. Overload and low voltage protection is provided. The control circuit operates on 120 volt through a transformer.

NOTE THESE RESULTS OF AN ACTUAL TEST RUN

Length of Feed Stroke	Minimum Strokes per minute	Maximum Strokes per minute
3"	6	30
4"	4½	23
5"	4	18
6"	3	15

Since oil is the fluid medium for transmitting power, construction is simplified and maintenance is reduced because all feed parts are slow moving and operate in an oil bath provided by the hydraulic oil.

