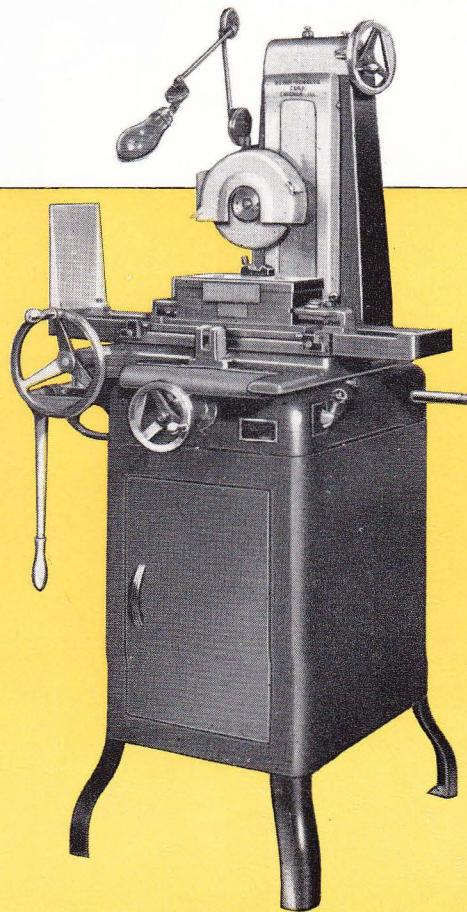


Boyer-Schultz

MODEL 6-12

SURFACE GRINDER



BIG MACHINE PERFORMANCE...SMALL MACHINE COST

BOYAR SCHULTZ

MODEL 6-12

SURFACE GRINDER

A REAL PRECISION MACHINE TOOL providing the close tolerance performance that has always been associated with larger, costly grinders.

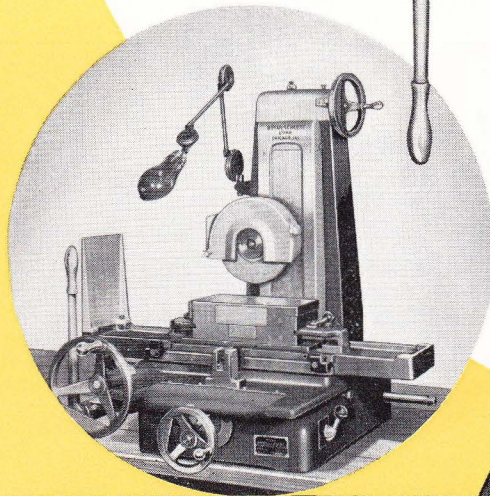
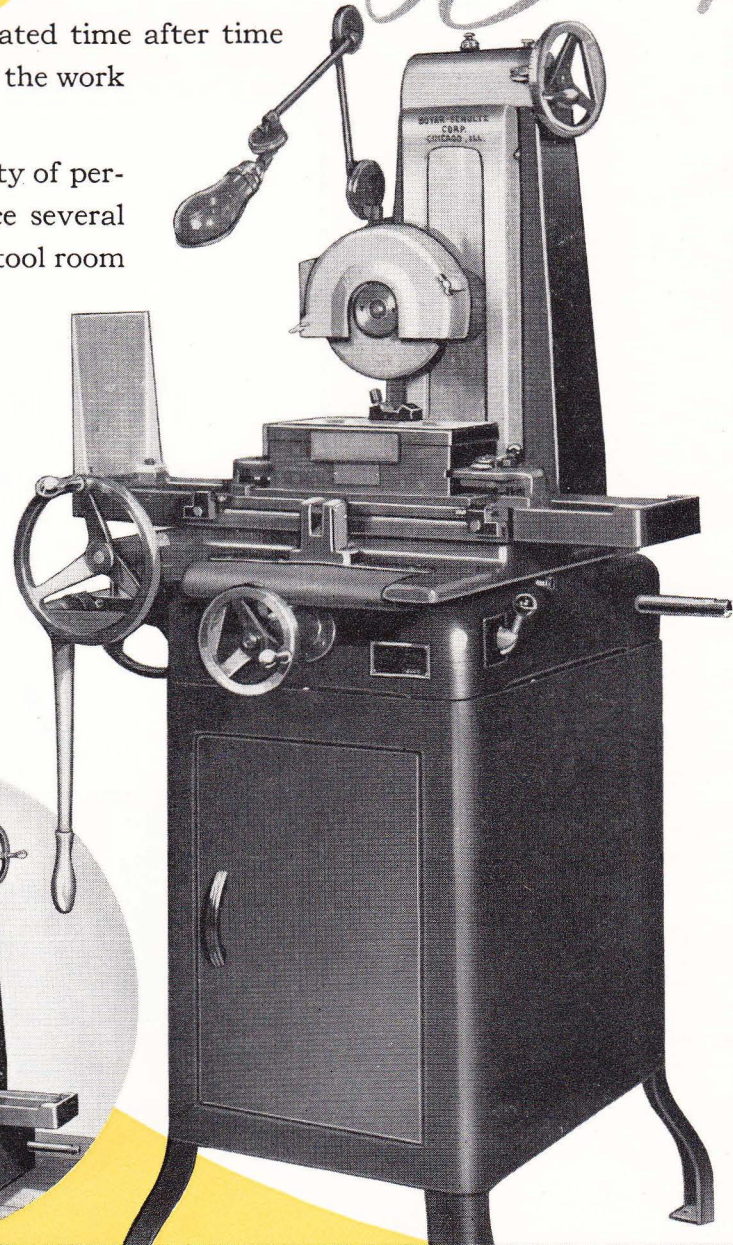
This Model 6-12 Surface Grinder has demonstrated time after time that it is capable of handling a large percentage of the work ordinarily being done on the larger machines.

Because the first cost is so low . . . and the quality of performance is so high . . . it is real economy to place several Model 6-12 grinders at strategic positions in your tool room where they are quickly available.

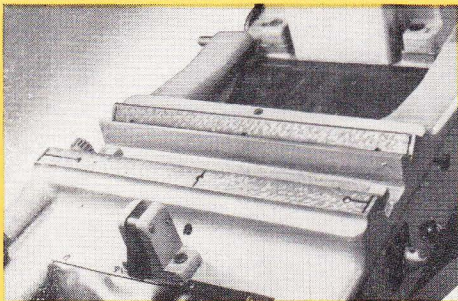
Many users tell us they are able to obtain with this Grinder, flatness, horizontal and vertical tolerances that compare with any other precision surface grinder, regardless of size.

This excellent performance is the net result of unusually sturdy design, fine materials and the efforts of craftsmen who themselves, KNOW what a precision machine must do.

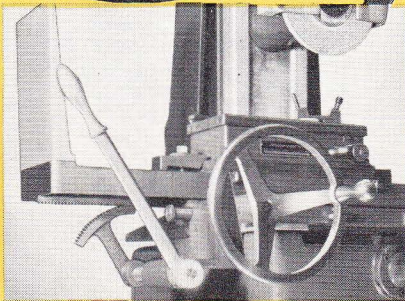
Big



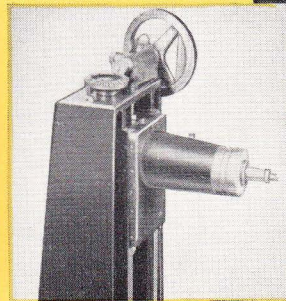
A time saving Tool, mounted on the bench close to the man who will use it most. Always quickly available for work on tools, gages, dies, jigs and fixtures. No time lost taking work to grinding department, where long production runs may be interrupted.



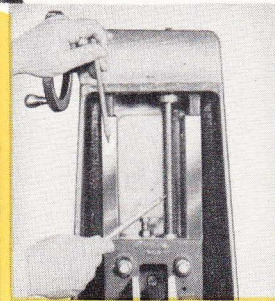
A new development for improved oiling of table ways. One point oiling eliminating 8 oil cups.



Rapid Traverse Table Lever. Used instead of hand wheel for fast operation and less fatigue.



Ball Bearing Spindle, accurately balanced and fitted with pre-loaded, precision ball bearings.



Spindle Elevating Screw. Selected bevel gears, supported in Oilite bearings.

machine performance

... SMALL MACHINE COST

CAPACITY—Boyar-Schultz Model 6-12 Surface Grinder, a 6 x 12 machine with actually 7 inch cross feed travel . . . one inch more than the indicated 6 inches. Longitudinal travel is 13 inches and vertical travel of spindle is 11½ inches.

SPINDLE—This is the “working unit,” the very heart of the machine, and is designed for very close tolerance, smooth finish grinding; supported at each end by over-size, pre-loaded, radial thrust, precision ball bearings. Spindle is motivated by a special ½ H.P. motor and connected to motor by precision made pulleys and hand selected 6 inch V Belt. Sturdily built, it will absorb the heavy demands put upon it during a long period of time.

TABLE—Best material, stress and strain relieved. Made with one Vee way and one Flat, ground and fitted for smooth operation.

LONGITUDINAL TABLE ACTION—Obtained by conventional hand wheel and also by Rapid Traverse Table Lever. Either may be disengaged while the other is in use. Large Hand Wheel provides extra leverage.

TABLE CARRIAGE—Table travels on two flat precision and hand scraped ways, mounted on main grinder base. Cross feed travel is actuated by lead screw supported by needle bearings and located between table ways. Neoprene Accordion Sleeve seals lead screw from dirt and abrasive dust.

A *Cross feed binding screw* stops transverse motion when desired.

SPINDLE ELEVATING SCREW—Supported by Oilite bearings and operated by a set of carefully selected bevel gears. Responds instantly to slightest movement of hand wheel because radial thrust bearing provides constant tension between hand wheel shaft and vertical screw.

HAND WHEELS—placed to afford greatest convenience and are fitted with needle bearings for easy operation. Vertical feed graduated in half thousandths; cross feed in thousandths. Working parts enclosed for maximum protection from abrasive dust.

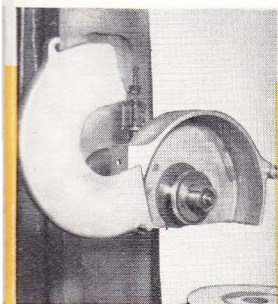
NEEDLE BEARINGS—Five sets of needle bearings are used in Model 6-12 Surface Grinder for long wear and easy operation.

OILING OF TABLES—In keeping with Boyar-Schultz progressive designing policy, the oiling system for the longitudinal and cross feed tables, cross feed screw and longitudinal hand wheel has been improved to eliminate 8 of 9 oil cups, and at the same time provide for better, more positive one point lubrication. (see illustration below)

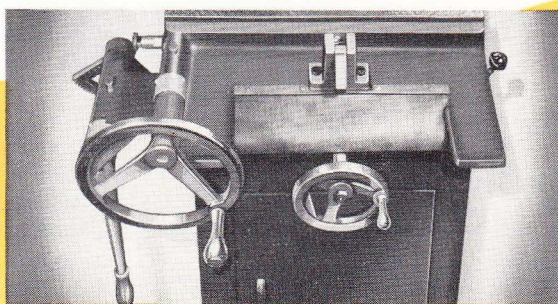
ADJUSTABLE LIGHT—Full visibility is possible with light which is adjustable to any position.

SPECIFICATIONS

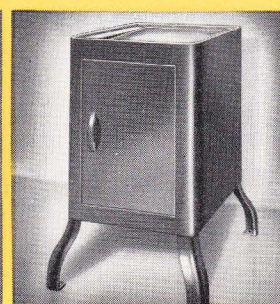
HEIGHT: (Bench Model)	32"
HEIGHT: (Floor Model)	62"
TABLE TRAVEL	
Longitudinal	13"
Horizontal	7"
VERTICAL TRAVEL	11½"
TABLE WORKING SURFACE	12" x 5⅝"
	T Slot for ⅜" Hold Down T Bolts
GRINDING WHEEL	7" Diameter, ½" x 1¼" Hole
SPINDLE SPEED	Approx. 3200 R. P. M.
HAND WHEEL GRADUATIONS	
Vertical	Half thousandths, (.0005)
Transverse	1 thousandths, (.001)
MOTOR	½ H. P.
LIGHT	110 Volt
FLOOR SPACE REQUIRED	43" wide, 38" deep
WEIGHT	600 Lbs. (Approx.)



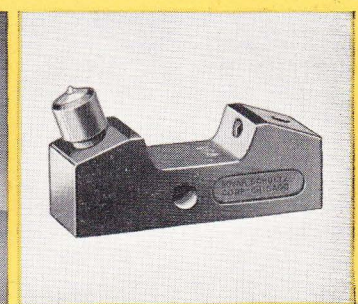
Wheel Capacity, 7 inch diameter, ½ inch thickness. Arbor 1¼ inch diameter.



Large conveniently located hand wheels. Neoprene Apron protects from dust and dirt.



Pedestal available for converting Bench model to Pedestal Model Machine. Heavy welded steel with removable drip pan.



Diamond Dresser and Diamond. A sturdy Fixture presenting a generous surface to the magnetic chuck. Diamonds in two sizes.

BOYAR-SCHULTZ Toolroom GRINDERS

Wherever Boyar-Schultz Grinders have been installed, their design, quality of materials and unexcelled workmanship are quickly recognized.

In shops where accurate, close tolerance work must be turned out, skilled mechanics turn instinctively to Boyar-Schultz Grinders, knowing that these tools give fullest expression to their ability.

With Boyar-Schultz Grinders in your shop or tool room, you are sure you have the best your tool dollar can buy.



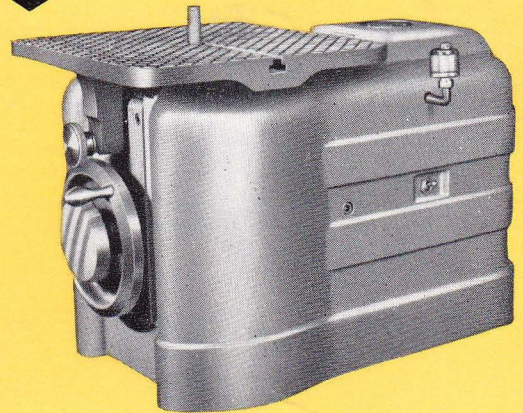
**No. 6-18
SURFACE
GRINDER**



**No. 2
PROFILE
GRINDER**

Made with two spindles, independently powered and turning at 10,000 R.P.M. with oscillations.

**No. 1
PROFILE
GRINDER**



BOYAR-SCHULTZ CORPORATION

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