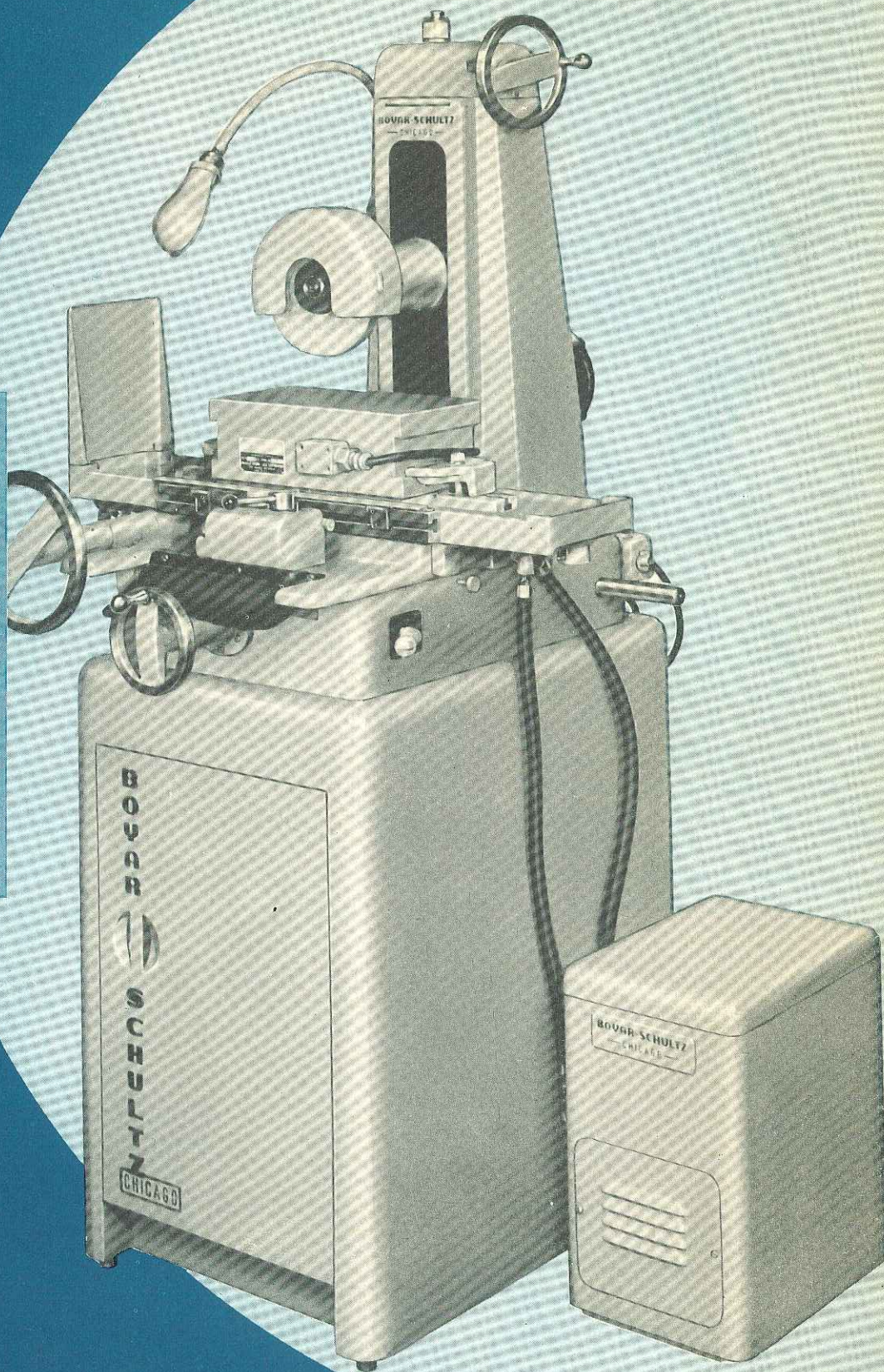


#514
5-72

BOYAR-SCHULTZ

6[★]12

**surface
grinder**



Big Machine Performance... *Sterling* Small Machine Cost!
www.SterlingMachinery.com

ACCLAIMED!

... the finest

BOYAR SCHULTZ

6[★]12

SURFACE GRINDER

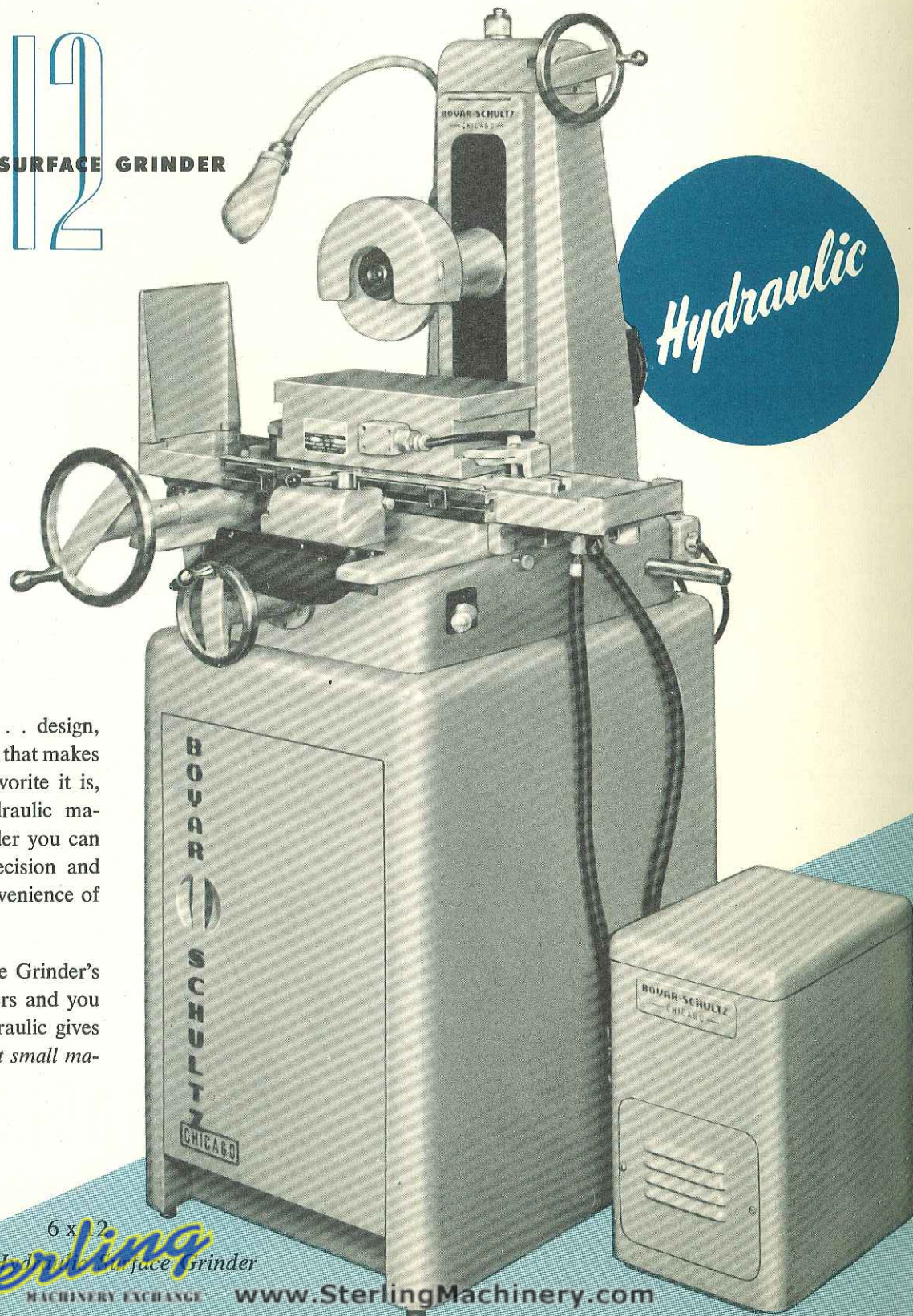
Hydraulic

In keeping with our policy of constant improvement, Boyar-Schultz has developed the new 6x12 Hydraulic Surface Grinder.

The New Hydraulic has taken its place with the Hand Feed Grinder that has become so popular with users demanding a sturdy, high precision machine.

The same high quality . . . design, workmanship and performance that makes the hand feed machine the favorite it is, has been built into this Hydraulic machine. In this Hydraulic Grinder you can be sure of the same high precision and ruggedness, *plus* the extra convenience of hydraulic longitudinal action.

Compare this new Surface Grinder's performance with other grinders and you will know why this 6x12 Hydraulic gives *Large Machine Performance at small machine cost.*



6 x 12
Sterling
Hydraulic Surface Grinder
MACHINERY EXCHANGE

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APPROVED!

... by management

ACCE...

...

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 oversize, 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 long periods of time.

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

LONGITUDINAL TABLE ACTION (Hand Feed Model)—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. Hydraulic Grinder can also be fed with conventional hand feed.

TABLE CARRIAGE—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.

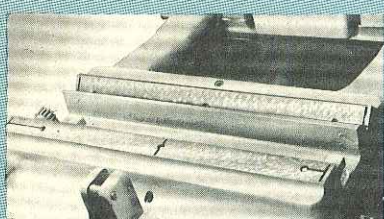
OILING OF TABLES—Only one oil cup is used for complete oiling of longitudinal and transverse system.

UNIVERSAL WHEEL ADAPTER furnished as standard equipment, with wheel puller. Extra adapters available from stock.

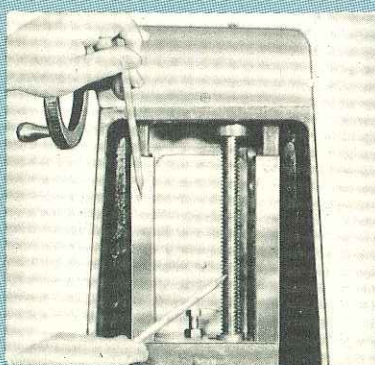
ADJUSTABLE LIGHT—Full visibility is possible with light which is adjustable to any position.

SPECIFICATIONS

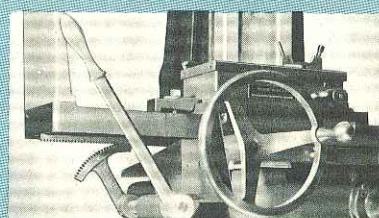
	Hydraulic Feed	Hand Feed
Table Travel Longitudinal Cross Feed	13" 7"	13" 7"
Work Height (using 7" diam. wheel)	0" to 11¼"	0" to 11¼"
Table Working Surface ("T" slot. ⅜" width)	12" x 5⅝"	12" x 5⅝"
Grind Wheel Diameter Thickness Hole Diam.	7" 3/16" to ½" 1¼"	7" 3/16" to ½" 1¼"
Spindle Speed	3000 rpm	3000 rpm
Handwheel Graduation Vertical Cross Feed	.0005" .001"	.0005" .001"
Longitudinal Table Speed	0—50 fpm	
Spindle Motor	½ hp—3450 rpm	½ hp—3450 rpm
Hydraulic Pump Motor	¼ hp—1725 rpm	
Floor Space	44" x 38"	43" x 38"
Height (Bench Model) (Floor Model)	32" 62"	32" 62"
Weight Net Shipping	485 lb 706 lb	415 lb 561 lb



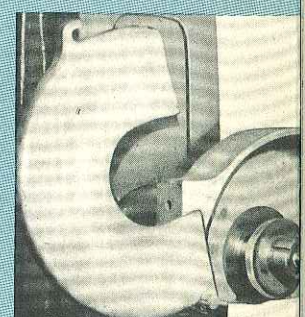
Oiling of table ways is accomplished with a single oil cup.



Spindle Elevating Screw supported by oilite bearings.



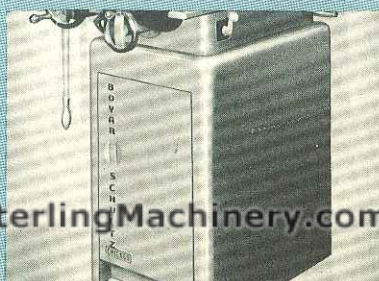
Rapid Traverse Table Lever. Used instead of hand wheel for fast operating and less fatigue.



Wheel Capacity 7 inch diameter, ½ inch thick ¼ inch diameter hole.



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



The New Improved streamlined Stand, attractive in appearance and sturdy.

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TESTED!

with high favor by those who use it

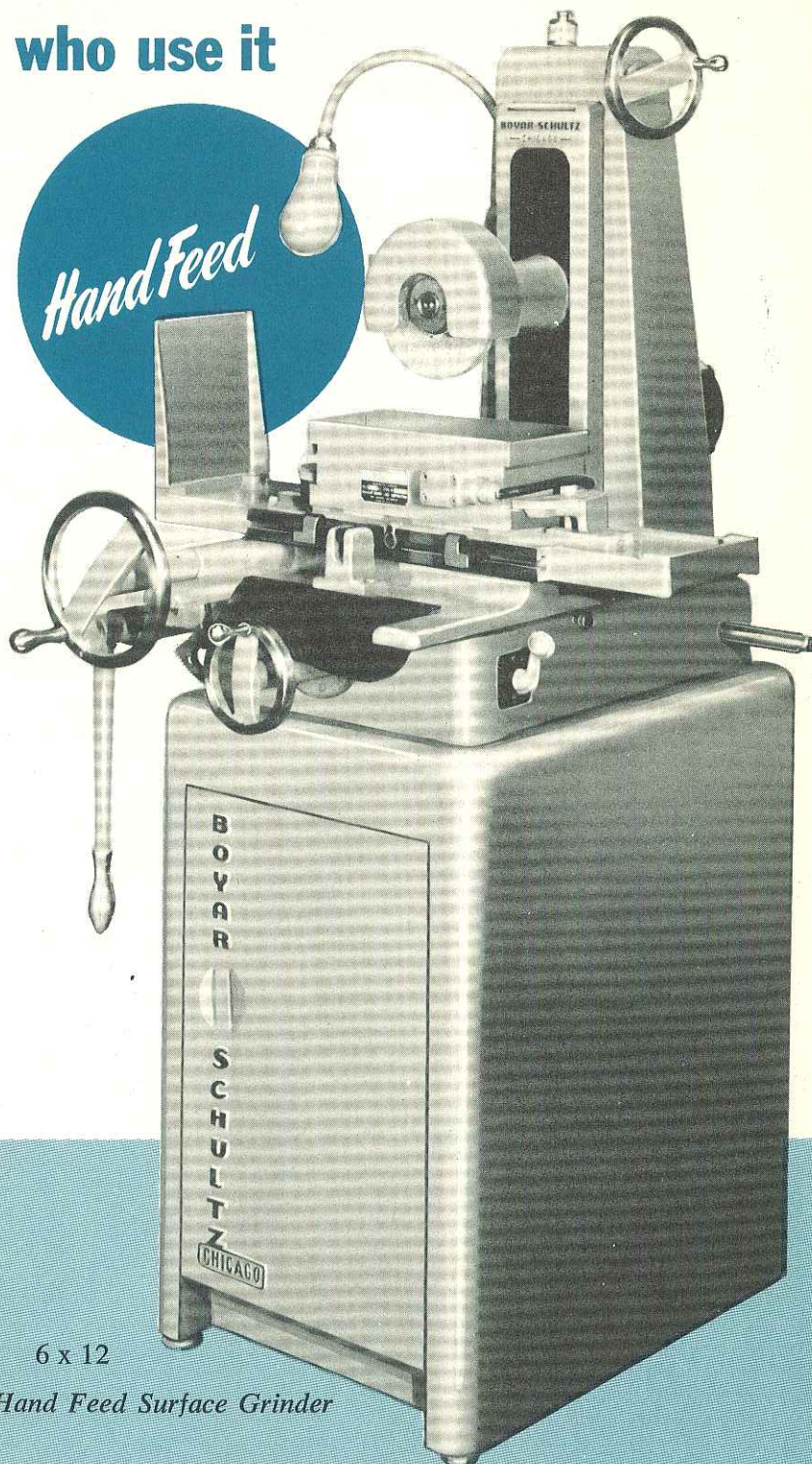
A REAL PRECISION MACHINE TOOL providing the close tolerance performance that has heretofore been associated with larger, more costly grinders.

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 always 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.



6 x 12

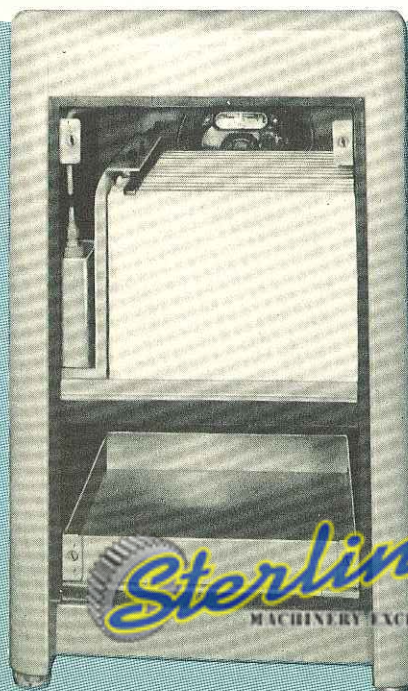
Hand Feed Surface Grinder

Boyar-Schultz Dust Collector

Furnished as optional equipment with Model 6-12 Surface Grinder. This Unit is fitted into the newly designed streamlined stand and is specially made for this Grinder. With it the grinder requires no more floor space.

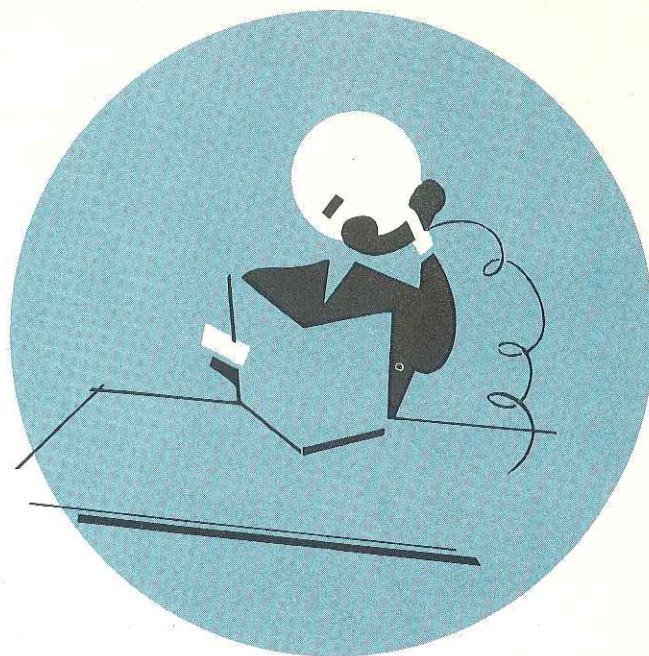
Collector is made of 15 filter bags, treated for spark resistance. Bags are so arranged to direct the dust INTO the

filter bags where it is trapped. In each filter bag is an individual Nylon fiber brush for removing dust that may cling to the inside surfaces, and dropping it into the removable tray below. All 15 brushes are operated simultaneously by the rear of the grinder stand. The entire system may be quickly and easily removed for complete cleaning when necessary.



Sterling
MACHINERY EXCHANGE

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WE are proud to present this fine Grinder backed by more than a quarter century experience in the metal working field.

The 6-12 Grinder was designed and built to bring its users Big Machine performance, but at the low cost of a small machine. The cost is so low that many users find it real economy to place several of these fine Grinders at strategic points in the shop. In the toolroom it has already given an excellent account of itself, grinding gages and other work where an extremely high degree of accuracy is demanded.

In production also it will be found to be a most efficient machine tool. Many voluntary testimonials have been called to our attention, telling of the extremely close tolerance precision work obtained from this Model 6-12 Surface Grinder.

Boyar-Schultz Corporation

Main Office and Plant

2000 South 25th Avenue • Broadview, Illinois

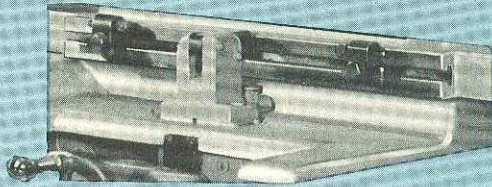
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Available Accessories for the

BOYAR-SCHULTZ 6" 12" SURFACE GRINDER

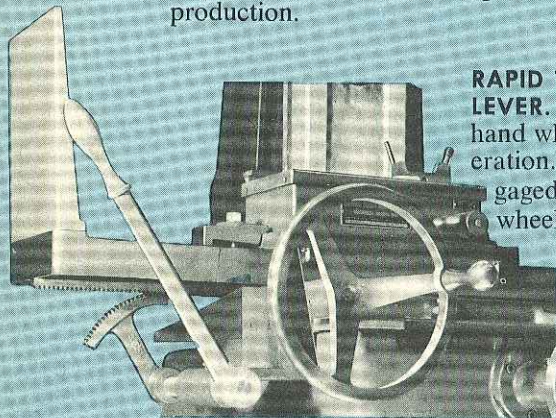


ADJUSTABLE LONGITUDINAL TABLE STOPS for more rapid production.

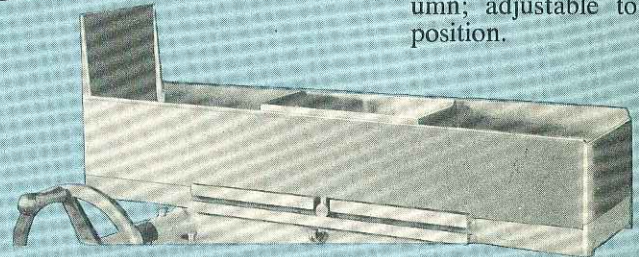


DIAMOND DRESSER AND DIAMOND. A sturdy fixture presenting a generous surface to magnetic chuck.

ADJUSTABLE LIGHT. Provides full visibility. Fastened to spindle column; adjustable to any position.



RAPID TRAVERSE TABLE LEVER. Used in place of hand wheel for faster operation. Quickly disengaged when hand wheel is used.



WET COOLANT ATTACHMENT. Furnished complete with pump and splash guards, drilled hole and sealing gaskets. Either pump or splash guards available separately.

Other Grinders by Boyar-Schultz

WHEREVER BOYAR-SCHULTZ GRINDERS have been installed, quality of materials and unexcelled workmanship are quickly recognized.

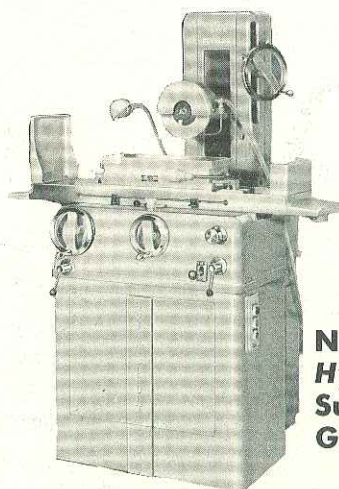
In shops where accurate close tolerance work must be turned out, skilled mechanics turn instinctively to Boyar-Schultz Grinders, knowing that these tools give fullest expression to their ability.

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

BOYAR-SCHULTZ CORPORATION

Main Office and Plant

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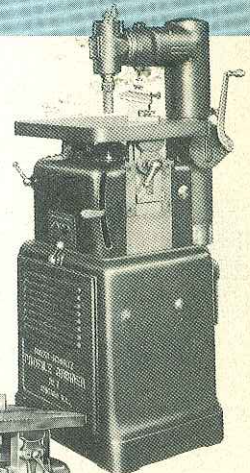
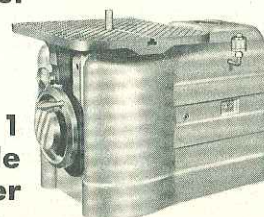


No. 6x18 Hydraulic Surface Grinder



No. 6x18 Hand Feed Surface Grinder

No. 1 Profile Grinder



No. 2 Profile Grinder

In two Models — Dual and Single Spindle turning at 10,000 R.P.M. with oscillating mechanism. Dual spindles independently powered.

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