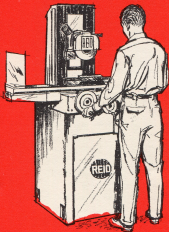




# REID PRECISION SURFACE GRINDERS

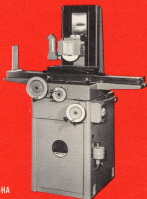
ALL-HAND • AUTOMATIC • SEMI-AUTOMATIC  
for tool room and production grinding

Since 1900 REID tool room and production surface grinders have set metalworking standards for grinding accuracy and consistency of finish. The present REID line provides eight high quality precision grinders, each designed to meet carefully defined grinding needs.



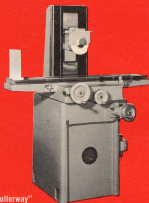
REID BROTHERS COMPANY, INC.  
BEVERLY — MASSACHUSETTS

## REID ALL-HAND GRINDERS



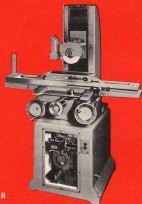
Model 618-HA

The popular REID 618-HA provides a dependable, accurate, all-purpose 6 x 18 surface grinder at a most attractive price. Extra long ways and sealed antifriction bearings assure precision tolerances. Its heavy cast iron base with long 18" center distance to cross slide ways contributes to maximum stability. Free moving hand wheel gives the light "feel of cut" tension preferred by many machinists. The 618-HA is standard equipped with a full 1 h.p., 3450 rpm motorized spindle which insures low micro-inch finishes and power-to-spindle. One-shot lubrication system standard.



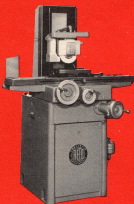
618-HR "Rollerway"

The REID "Rollerway" features a table which literally glides on 76 precision matched steel rollers for effortless, tension-free hand grinding. The Rollerway is designed especially for shops having a continuous volume of production grinding by hand where operator fatigue is an important factor. Adjustable wheel brake permits slight hand wheel tension when desired. In other respects, the Rollerway has the same features as the REID 618-HA Model, including 1 h.p., 3450 rpm motorized spindle for wheel power-to-spindle, and one-shot lubrication.



Model 618-H

REID model 618-H is considered by many as the finest 6 x 18 hand surface grinder available today. Special features include zero resetting slip rings with vernier for settings to .0001 on elevating hand wheel — and automatic lubrication for table, cross slide and head ways. In addition, the 618-P has all the important features of other REID hand grinders including 1 h.p., 3450 rpm motorized spindle. This splendid all-purpose grinder is especially recommended for tool and die work which demands degrees of accuracy, smoothness of finish, and consistency beyond usual standards.

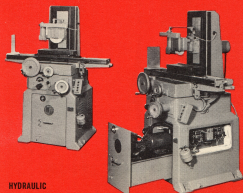


Model 612

The REID 612 is widely regarded as the "quality" surface grinder in its size range. This grinder is substantially heavier than comparable 6 x 12 grinders for maximum stability and vibration-free performance. The model 612 is a companion to the larger REID 618-HA model — offers the same features including full 1 h.p. motorized spindle, one-shot lubrication, extra long ways, and sealed antifriction bearings throughout. REID 612's are fast to set up, easy to use — can be counted on for superior finishes on all types of work.

## POWER GRINDERS

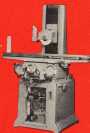
### AUTOMATIC · SEMI-AUTOMATIC



**HYDRAULIC**  
Models 618-HYD and 618-HYT  
Table Speeds 0 to 125 rpm

REID POWER GRINDERS can be depended on for consistent close tolerance grinding, and low micro-inch finishes — extremely important in production grinding. Thick chip grinds insure maximum grinding speeds, and contribute to quality finishes by fast dissipation of heat.

**ELECTRIC**  
Models 618-P and 618-PT  
Table Speeds 20 to 40 rpm



#### REID-O-MATIC All-Hydraulic

618-HYD

A rugged, dependable all-hydraulic automatic grinder designed to give low micro-inch finishes, and high volume on production runs. The REID-O-MATIC is powered by a compact, simplified hydraulic system contained in a pull-out drawer. This low pressure, self-bleeding system has a double pump and separate circuits for smooth, accurate table and cross slide motion. An automatic sensing device regulates correct pressure for each grinding load. The 618-HYD features instant hand-power changeovers — a tremendous time saver in setting up and checking work. Other outstanding features include rapid traverse cross slide for wheel dressing and automatic re-cycling of cross slide. The REID-O-MATIC provides a truly superlative power grinder at a price considerably less than comparable 6 x 18 hydraulics.

#### Semi-Automatic Hydraulic

618-HYT

A heavy hydraulic grinder for those who require power-to-the-table only. Free moving hand wheel operates cross slide. In all other respects, this grinder is identical to the fully automatic Model 618-HYD.

#### All-Electric Automatic

618-P

This long popular REID all-electric Power Grinder provides high production automatic grinding at low cost. A sturdy, simplified electrical system powers the table and cross feed. Special drive operates cross feed instantly at end of stroke — eliminating cross-over marks on work piece. Power is easily disengaged when hand feed desired. Automatic lubrication, vernier on elevating hand wheel, and cross slide lock are standard. Cross Feed is variable .006" to .100".

#### Semi-Automatic Electric

618-PT

Identical to electrically powered automatic Model 618-P except power-to-the-table only. Cross slide is hand operated.

SPECIFICATIONS	All-Hand				Automatic		Semi-Automatic	
Model	618-HA	618-HR	618-H	612	618-HYD	618-P	618-HYT	618-PT
Machine Size	6 x 18	6 x 18	6 x 18	6 x 12	6 x 18	6 x 18	6 x 18	6 x 18
Work Height (Wheel to Table)	15"	14¾"	13¾"	15"	15"	13¾"	15"	13¾"
Cross Slide Travel	7"	7"	7"	7"	7"	7"	7"	7"
Table Travel	20"	20"	20"	14"	20"	20"	20"	20"
*Weight (lbs. net)	1525	1525	2400	1425	2500	2400	2500	2400
*Lubrication	One shot	One shot	Auto-matic	One shot	Auto-matic	Auto-matic	Auto-matic	Auto-matic

#### Motorized Spindles Standard

All REID Grinders are standard equipped with full 1 h.p. 3450 rpm integral cartridge type Motorized Spindles. Two-speed Belt Driven Spindles supplied if preferred. 1½ h.p. motorized spindle available for heavy work.

#### Teflon or Chromed Ways

Ways can be chromed or teflon coated at slight extra cost.

#### Power Operation Systems

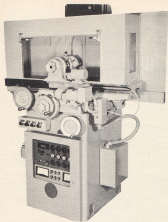
618-HYD and 618-HYT — Hydraulic Power. One 1 h.p. motor with two low pressure pumps (Capacities — 4 gals. and 1 gal. per minute)

618-P and 618-PT — Electrical Power. 1/6 h.p. Gearhead Motor, 116 rpm output.



\*Weight All REID Grinders mounted on heavy walled, one-piece, cast iron bases to provide maximum stability.

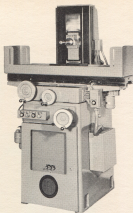
\*Lubrication Automatic lubrication can be installed as optional extra on Models 618-HA, 618-HR, 612.



**REID 612-SG INDEXING SLICER AND GRINDER.**  
Repeat Accuracy to  $\pm$  One Tenth of a Thousandth!

This versatile REID machine provides electronically accurate automatic indexing to a consistent  $\pm .0001$  tolerance. Developed for slicing valuable semi-conductor wafers — has many other applications for close tolerance form and slot grinding or cutting on production basis. Cross feed increments up to 1 inch.

**612-DG DICER AND GRINDER.** Features automatic table in slow  $\frac{1}{4}$  to 5 inches-per-minute range plus a high speed spindle in which silicon carbide, diamond, and other cutting wheels perform efficiently. Widely used for dicing silicon, germanium, and other semi-conductor materials. Has specialized surface grinding applications. (Table speeds from  $\frac{1}{2}$  ipm to 20 ipm can be supplied.)

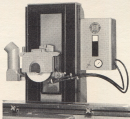


**REID... FAMOUS SINCE 1900 FOR QUALITY PRECISION SURFACE GRINDERS**

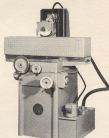
**SURFACE GRINDER ACCESSORIES**



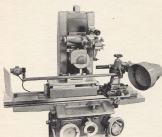
**DUST COLLECTOR.** Vacuum type cabinet model No. 66 with self-contained motor. Draws dirt and dust from grinding area. Foot pedal shaker cleans filter surfaces. Large dust collectors available for serving two or three grinders.



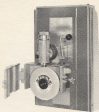
**REID COOL SPRAY GRINDING ATTACHMENT.** A fine jet of coolant directed at wheel and work contact prevents excessive heating, controls dust. Spray mist dissipates. Coolant container mounts on column. Regulator controls volume of coolant to adjustable spray nozzle. Unit operates with very small volume of air of customer's supply.



**REID WET GRINDING ATTACHMENT.** Provides flow of coolant over work—from a tank by motor driven pump. A spray guard with adjustable shields is placed on work table to control coolant return.



**Optical Grinding Equipment.** REID Dealers can supply complete optical projection and profile equipment for visual form control and inspection while grinding, and for forming wheels. Write for details.



**New "Lever Action" Wheel Dresser.** The new REID lever action wheel dresser is lighter, more compact, faster, and much less expensive than other dressers — yet does a superb job of smooth, accurate wheel dressing. Unit mounts permanently on grinder head. Dial with micrometer settings positions diamond. Hand lever moves diamond squarely across face of wheel. Dresses wheels to 8" diameter. Can be mounted on many other than REID surface grinders.



**Reid Wheel Balancer.** A new and inexpensive wheel balancing stand with arbor. Permits fast accurate dynamic balancing of all standard grinding wheels. An invaluable accessory which contributes to low micro-inch finishes by reducing chatter caused by out-of-balance wheels.

**Other Accessories Available From Your Reid Dealer**

Attachments for High Speed Grinding, Disc and Radius Grinding . . . Reid Work Lits . . . Grinding Wheels . . . Wheel Collets . . . Magnetic Chucks . . . Angle Vise . . . Machine Pads . . . Rectifiers, Neutrofers, Neutral and Neutralator Controls.

**REID PRECISION SURFACE GRINDERS**

REID BROTHERS COMPANY, INC. • 140 ELLIOTT STREET, BEVERLY, MASS.