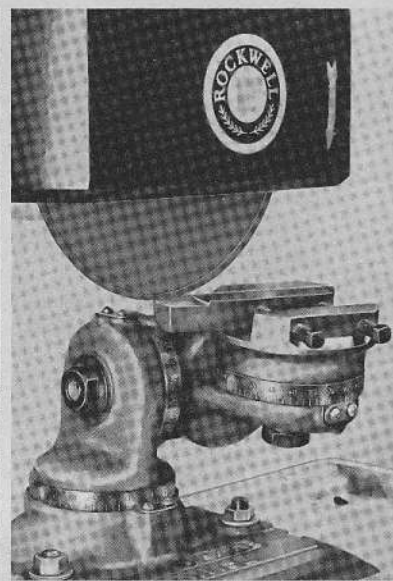
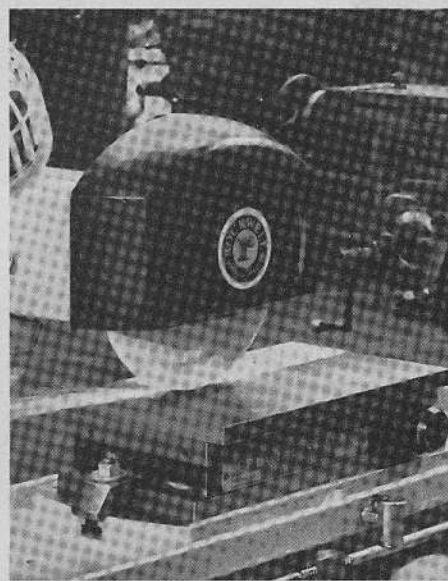


# ROCKWELL DELTA TOOLMAKER\* GRINDERS

***"A Family of 3 Machines!"***

Rockwell Delta Single Point Tool Grinder . . . grinds carbide-tipped, high-speed steel or alloy steel single-point cutting tools. Especially recommended for grinding chip-breaker grooves.



Rockwell-Delta Surface Grinder . . . produces a 20 RMS finish or better to handle practically all surface grinding requirements in the average shop.

Rockwell-Delta Tool and Cutter Grinder . . . an excellent unit for sharpening mills, reamers, saws blades and other multiple-point cutting tools.

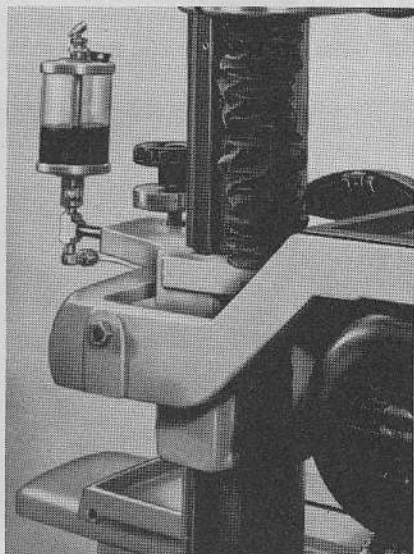
**Only Rockwell-Delta TOOLMAKER Grinders offer all these exclusives:**

\*Trademark

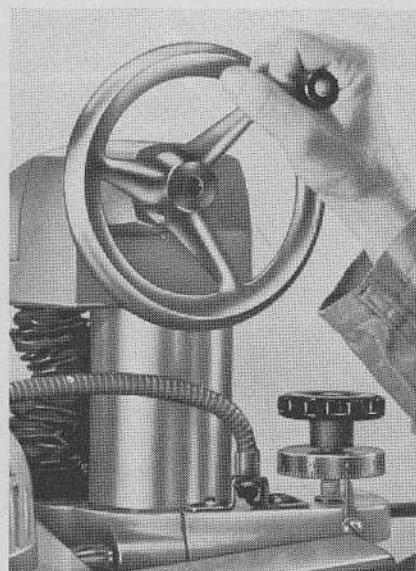
- Widest speed range available—3300, 3700 and 5600 RPM—to handle any grinding job.
- Unique 360° rotation of head and spindle for correct tool and cutter grinding.
- Exclusive "Center Mist" Coolant Attachment for cooler, more efficient grinding with longer wheel life.
- Preferred Teflon-lined V and flat ways on table for long life and effortless feed.
- Plus many additional Rockwell engineered extras!

## ROCKWELL DELTA TOOLMAKER GRINDERS

**DELTA QUALITY FEATURES  
ASSURE PRECISION  
GRINDING AND  
SHARPENING**



**Safety and Convenience Features**—Both the elevating and cross feed screws are completely enclosed by a protective sleeve to keep out harmful abrasive dust. The totally enclosed motor is mounted upside down, providing a handy tray for wrenches, indicators and work pieces. Efficient Coolant Attachment provides just the right amount of coolant to keep diamond wheels cool for chip-breaker grinding.

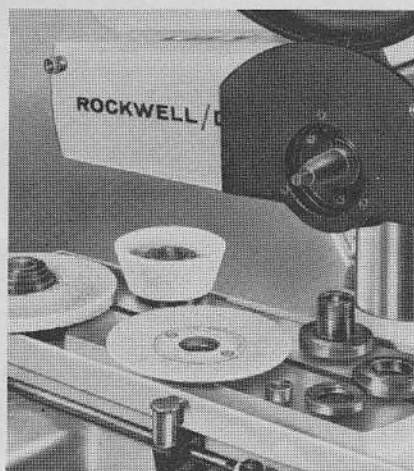
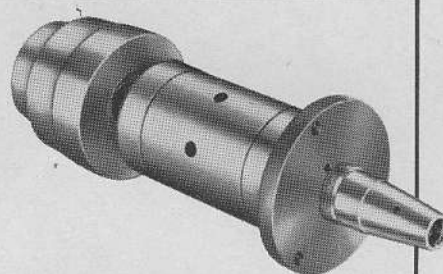


**Quick Operating Hand Wheel; Precision Down Feed Control**—Large hand wheel facilitates rapid, vertical travel of head for rough settings while Micrometer Down Feed Knob (with no back lash) permits fine settings. Extra large micrometer collar is easy to read, graduated in .0005", and has "slip" feature for zero start reading.

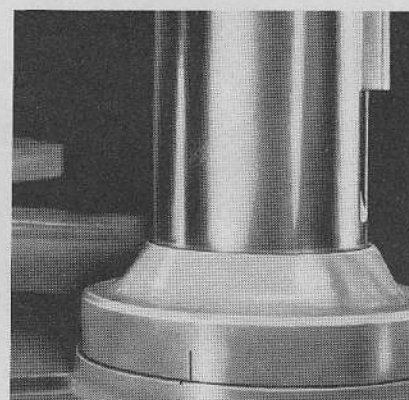


**Exclusive Three-Speed Range**—Unlike other machines, these grinders provide matched three-step cone pulleys with a flat belt drive to the spindle. You get these benefits: Three spindle speeds—3300, 3700 and 5600 RPM—the right SFPM for the different diameters of straight, dish and cup wheels. The flat belt drive assures vibration-free spindle operation.

**Heavy Duty, Ball Bearing Spindle**—The massive spindle, which is carefully ground and balanced, is mounted on preloaded, duplex, precision ball bearings to assure high quality grinding year after year. Sealed bearing construction protects the spindle from abrasive dust and prevents coolant from washing lubricant out of the bearing.



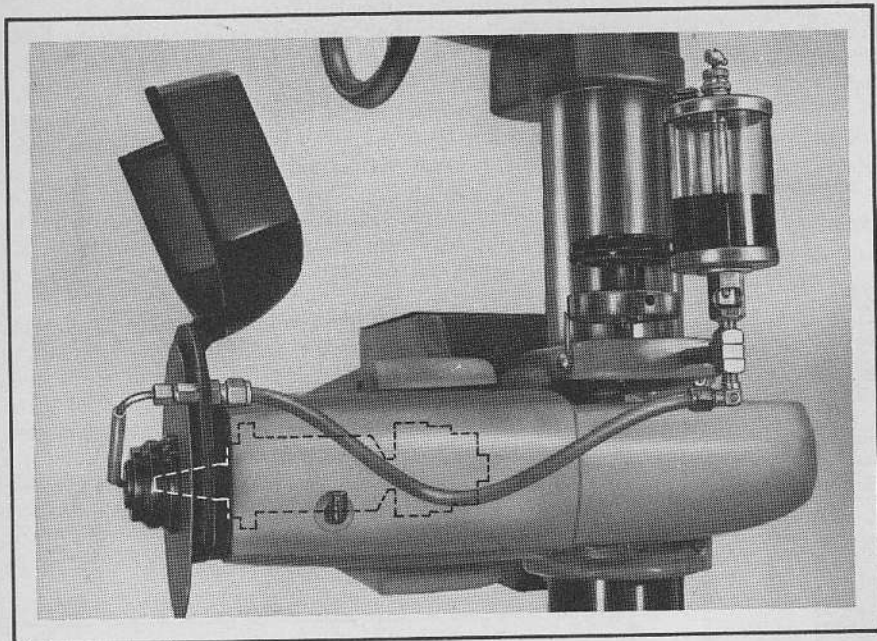
**Time and Money-Saving Wheel Adapters**—Rockwell makes available interchangeable, taper mounted wheel adapters which fit snugly on the ground, tapered spindle. These adapters save time and money because once a wheel is mounted and dressed, it can be removed, then mounted *without* resetting or redressing—*especially important where diamond wheels are used.*



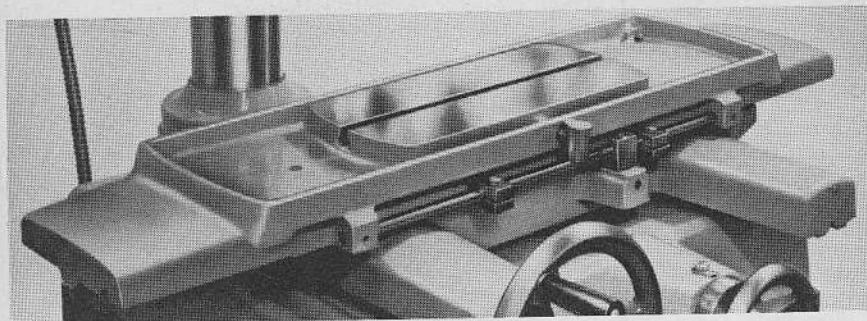
**Unique Rotation of Head and Spindle**—Tool maker's use of a round column, versus competitive A-frame construction, gives it a versatility and ease of set-up not available with other grinders. This is true because the column, with work head and spindle, can be rotated away from the normal "zero" position as shown by the witness marks. It is easy to provide wheel clearance for tool and cutter grinding, and the work head can even be rotated a full 360° for special jobs.



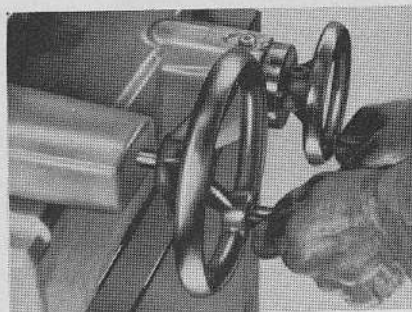
## ROCKWELL DELTA TOOLMAKER GRINDERS



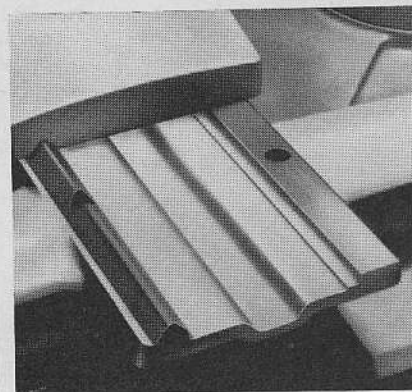
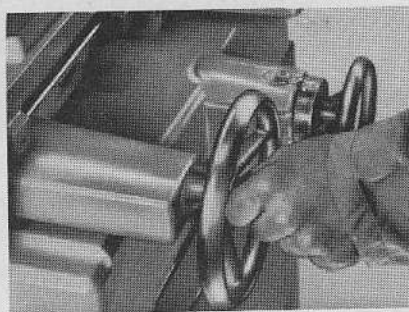
**Unique "Center Mist" Coolant**—Only Rockwell offers this "center mist" coolant attachment developed especially for chip-breaker grinding with diamond wheels. It improves surface grinding quality, too. Coolant drips from reservoir through tube and enters hollow spindle. Then, it flows out through two staggered port holes, 180° apart. Wheel flanges, recessed in the center with grooves extending to the outer rims, carry the coolant down both sides as well as through the porous wheel. The fan action of the wheel breaks the coolant down into a fine mist which cools the work exactly at the point of grinding, much better than coolants sprayed or flooded onto the general grinding area.



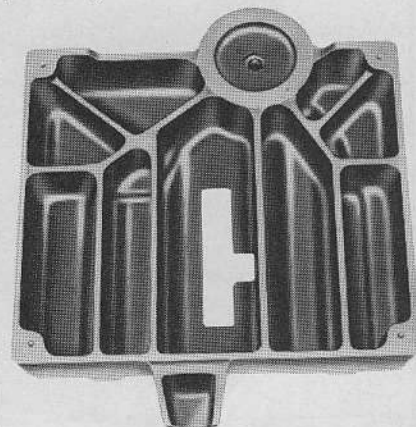
**Many-Purpose Table**—Has a 5 $\frac{1}{4}$ " x 13" surface, finish ground by its own spindle to within 16 microinches. Designed with T-slot to facilitate clamping of work or the mounting of work-holding fixtures. Coolant trough permits wet or dry grinding (side and end shields can easily be added for wet grinding). Adjustable, spring-loaded stops act as cushion . . . are especially suited for tool and cutter grinding.



**Multi-Position Handle**—You can select the most comfortable position of the handle on the table feed hand wheel, in a matter of seconds. Just pull out the handle, set it where you want it, and let it snap back into engagement. This is especially important when the operator is grinding small pieces and must continually "short stroke" the table. Large micrometer sleeve on cross feed is easy to read and has "zero" start feature.



**Smooth Operating Table and Cross Slide**—Table and cross slide have precision ground V and flat ways (no troublesome gibs to adjust). Table ways are Teflon-lined, practically eliminating wear and providing smooth, effortless feed.

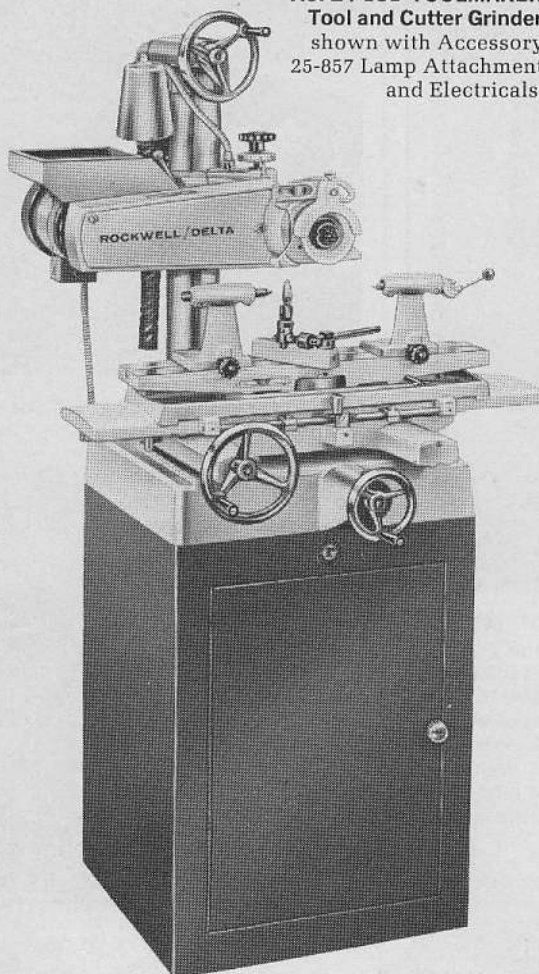


**Specially Designed Base**—Massive, scientifically ribbed base provides extra rigid support for the  $\frac{3}{4}$ " thick cast iron column and grinding head. Built-in leveling jacks at rear corners (not shown) guarantee proper alignment for precision grinding.



**Large, Deluxe Cabinet Base**—Machine rests on a heavy, rigidly reinforced steel base. Vibration pads, furnished for placement under each corner, isolate the grinder, protecting it from floor vibrations caused by trucks, elevators, punch presses and similar machinery. This assures smooth grinder performance. Two large shelves provide ample storage room. Large door has a cam type, rattle-proof latch.

**No. 24-151 TOOLMAKER\***  
Tool and Cutter Grinder  
shown with Accessory  
25-857 Lamp Attachment  
and Electricals.



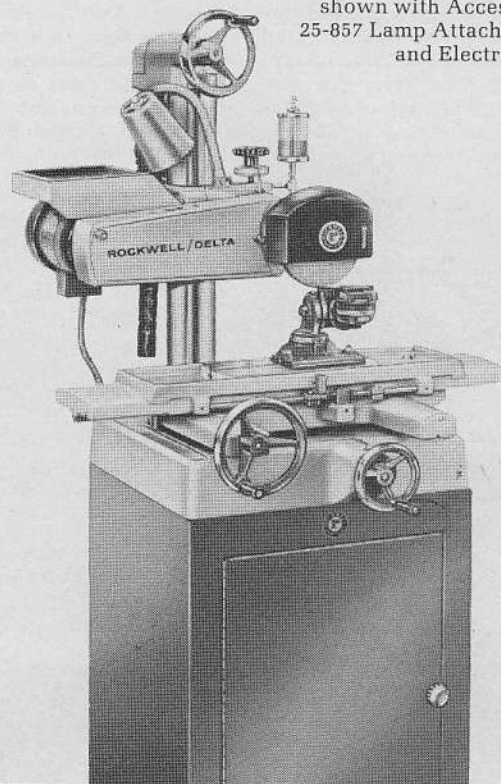
The Rockwell TOOLMAKER Tool and Cutter Grinder will efficiently sharpen all types of mills, reamers, taps, saw blades and other multiple-point cutting tools. It actually will do the work of tool and cutter grinders costing hundreds of dollars more. You can quickly convert it to do precision grinding of chip-breaker grooves in carbide and other tooling simply by adding the Univise and Center Mist Coolant Attachments.

The unit, without the Tool and Cutter or Chip-Breaker Grinding Components, can be used for surface grinding accurate, flat surfaces where the surface pattern and RMS finish are not critical. It can produce surfaces to 20 RMS.

Many grinding machines are available which perform only one function—tool and cutter sharpening, grinding of chip-breaker grooves, or surface grinding. Rockwell, however, offers you one machine that will do all three operations. Purchase a Rockwell Tool and Cutter Grinder, add the Coolant Attachment and Univise, and you have a "3-in-1" grinding machine. Best of all, you can get this "triple value" at less cost than you would pay for one comparable single-purpose machine.

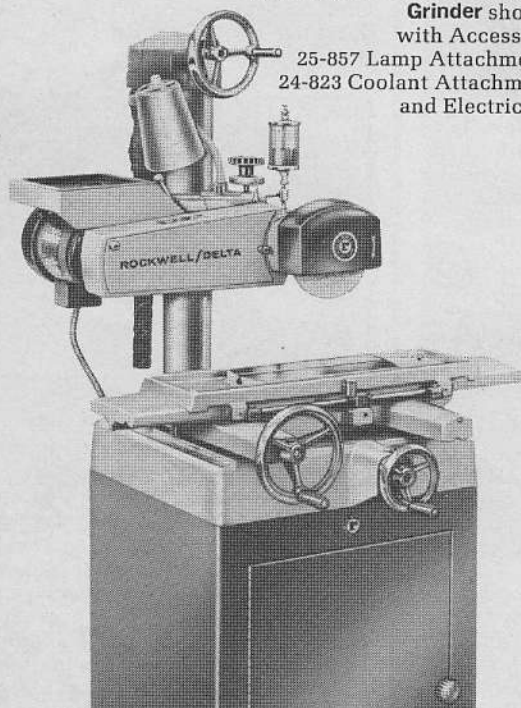
Let us show you a Rockwell TOOLMAKER Grinder in action today!

**No. 24-152 TOOLMAKER\***  
Single Point Tool Grinder  
shown with Accessory  
25-857 Lamp Attachment  
and Electricals.



\*Trademark

**No. 24-150 Basic TOOLMAKER\***  
Grinder shown  
with Accessory  
25-857 Lamp Attachment,  
24-823 Coolant Attachment  
and Electricals.



## STANDARD EQUIPMENT

All Toolmaker grinders include storage type cabinet with shelves and door, four anti-vibration pads, motor pulley ( $\frac{5}{8}$ " bore), flat belt, guard for belt and pulleys, guard for 7" straight wheel, wheel adapter, holder for diamond wheel dresser, oil for spindle bearings, wrenches, T-bolts (2) and instruction manual. No. 24-822 Tool and Cutter Grinding Attachment is included with No. 24-151 Tool and Cutter Grinding Machine. No. 24-823 Coolant Attachment and No. 24-902 Univise are included with No. 24-152 Single Point Tool Grinding Machine.