SNI

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*Precision Grinding Machines*

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# Rotary Surface Grinders

Heald Model 161, 261, and 361 Rotary Surface Grinders are firmly established as the grinder of choice when it is necessary to achieve production rates, without sacrificing the tolerances of thickness, flatness and parallelism, all while achieving the finest of surface finishes.

What enables the Heald Rotaries to provide these superior workpiece attributes, is an extremely rigid vertical column design in conjuction with a stable, pyramidal-form. The reciprocating table holds the rugged cradle-type chuck, while the grinding wheel is fed downward onto the rotating workpiece(s). Throughout the grinding cycle, all grinding forces are evenly distributed, as the grinding wheel pressure remains centered over the table ways at all points in the stroke.

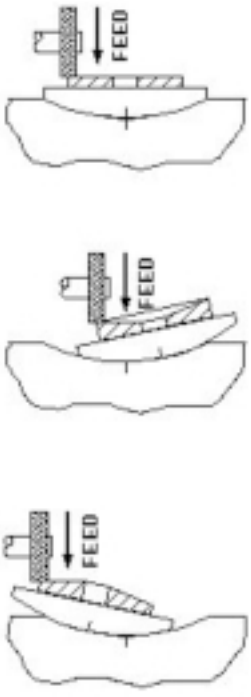
Heald Rotaries are avaible in chuck sizes up to 30” in diameter. As with all of the Heald grinders, SNI offers a variety of scopes-of-work and options to best suit the customer’s application, as well as it’s budget.

*Level I: Complete Rebuild*

The basic package provides for the complete rebuild of the rotary surface grinder. All machine systems and components are completely restored to their original condition, to meet or exceed the OEM specifications.

*Level II: Modernization (Single Axis)*

The existing hydrualic feed back will be removed to make way for modern controls, utilizing a servo-motor/ballscrew arrangement in conjunction with PLC control, to substantially improve feed control, minimize set-up time, and improve process consistency.




**Cradle-type Chuck** can be swivelled to provide for grinding of concave and convex surfaces, as well as flat grinding. ▶

**Modernized Heald Model 161** Rotary Surface Grinder modernized with PLC control of wheelslide (Level II scope of work, as described below).

*Level III: Two-axis CNC Conversion*

We also offer a full two-axis conversion of rotary surface grinders. Both the wheelslide and table are modernized with a modern CNC providing control over the ballscrew/servo arrangments, and all existing “wet valves” are removed. No longer will it be necessary to adjust feed rate knobs, table control valves, and positioning stops. All programming of feed and positioning parameters will be handled through the CNC control, and workpiece part-programs can be quickly saved and retrieved when changeovers occur.

| Model | Chuck Sizes |
|---|---|
| 161 | 6”, 8”, 10” |
| 261 | 12”, 16”, 20” |
| 361 | 24”, 30” |