

REBUILDING & MODERNIZATION OF HEALD CF GRINDERS

The Heald CF Grinder has proven itself as a production workhorse in the bearing industry, as well as other high volume environments. At SNI, we have capitalized on the strengths of the CF, while at the same time using technology to overcome the machine's traditional weaknesses.

The CF is a complex machine, and its use and application can be very challenging. With deep roots back to Heald Machine, SNI has more experience building, remanufacturing, and applying CF grinders than any company in the world. This allows us to maximize the CF's capability and overall performance.

When modernized by SNI with state-of-the-art electronic controls, proprietary super-rigid dressing systems, and many other subtle changes, the CF has the capability to outperform even the newest high-production grinders, at a fraction of the cost.

Experts in internal grinding, SNI's process engineers and technicians will thoroughly review all the relevant grinding parameters, apply the correct machine features and tooling, and fine-tune the system to enhance overall process results.

A typical CF modernization might include:

- Receipt of your existing CF grinder, or retrieval of a remanufacturing candidate from SNI's machine inventory.
- Disassembly to the basic elements; cleaning and priming all units that are to be reused.
- Grinding and stoning table elements to reestablish float to OEM tolerances; Adding new capillary coils, foot guards, wipers; replacement of limit switches with quick-setting proximity switches.
- Grinding and stoning cross-slide elements to reestablish float to OEM tolerances; conversion of feed and compensation unit to ballscrew/servo motor arrangement.
- Revamping of swivel plate including: rebuilding of workhead cartridge; adding new AC variable variable-speed drive and new motor, allowing for programming of speed through the grinder control.
- New SNI super-rigid Heavy-Duty Lift-up Dresser assembly, capable of accepting virtually all diamond dressing media (form roll, rotary diamond, single point, etc.).



- Completely new hydraulic system, inclusive of pump, filters, hoses, pressure switches, etc.
- New electrical enclosure, with inclusion of an Allen-Bradley SLC-500 programmable logic controller and a motion control.
- New CRT display, featuring a TCP "Quick Panel" Touch Screen.
- Control software written specifically for the CF, and all developed in-house by SNI's expert Grinding Controls Engineers.
- New, individual mist lube systems for the wheelhead and workhead.
- Improved guarding, including new sliding front guard in place of original removable guard.
- New coolant filtration system, or arrangement to adapt to your central system.
- SNI Quick Change Load Chute Assemblies, to reduce changeovers to minutes.
- Supply of all necessary tooling for test grinding purposes and/or your production needs.
- A test grind and capability study.
- Full documentation, and a comprehensive one year warranty.