

# NEW UNISON CORPORATION

**“UNISON = GRINDING SOLUTIONS”**  
**DESIGNERS AND BUILDERS OF QUALITY EQUIPMENT**

## UNISON SOFTWARE MAKES GRINDING PARTS EASY

The software used in Unison Grinding Machines provides great flexibility and offers a new definition in parametric programming. The operator, through CAD CAM capabilities, can view a tool produced on the machine's monitor without ever touching a part and before grinding begins. The latest version of our software provides great flexibility and offers a new definition in parametric programming. Our software permits your operator to actually view the tool produced on the machine touch screen monitor before any grinding begins. This Parts Predictor offers advanced program verification and allows the operator to detect errors which can cause crashes before they occur. The operator knows exactly what the machine will be doing before it does it. This feature is known as “Geometral” and it operates in a Windows™ environment so it does not reduce your machine's production time.

Geometral software utilizes top/down design methodology. The operator defines the top level of required information by inputting a few variables of dimensional data. The software automatically develops the subsequent levels of information until the proper grinding program is completed. Depending on the class of part and parameters required, programming can take less than sixty seconds.

For instance, in as little as four steps, tools can be defined, simulated and ground. The flexibility of the software allows special shapes to be easily and quickly programmed. You are not “locked in” to what the manufacturer thinks a tool should look like. You decide how your tool should appear and our software allows you to design them to meet your expectations.

The benefits of our Live 3D Parts Predictor are:

- Save significant time and cost during first parts prove-outs
- Avoids machine repair costs due to crashes
- Eliminates costly machine downtime for part development
- Qualifies tools and checks part specifications

Using our proprietary Live 3D Parts Predictor is a very effective way to optimize grinding performance, improve part quality and increase overall shop floor efficiency.

Unison's software is easy to learn and a complete package of software is installed on every machine we ship. This allows our customers to use our equipment for additional applications at a later date without incurring any additional software charges. Our software package is highly versatile and includes applications for ID Grinding, ID Profile Grinding, Surface Profile Grinding, Plunge Grinding, Multistep Grinding, OD Profile Grinding, Throughfeed Grinding, Standard Surface Grinding and the ability to mix these modes in one cycle start.



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