Success Story

Designed and manufactured for functionality and productivity

Equipment: *Gleason AGT Model 2450 two-axis CNC dressing machine*
Manufacturer: MTB and *Gleason OEM design*
Model: *2450*
Application: *Dressing machine*
Job: *MTB 2968*

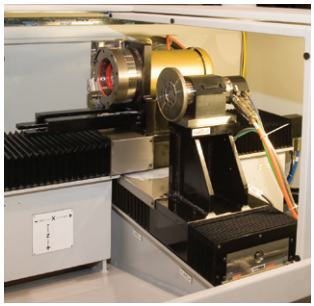
Challenge

Increase productivity of current equipment by a minimum of 20%.

Specialty equipment designed and manufactured by MTB

Solution

Removed auxiliary operations from primary equipment. This allowed MTB, in conjunction with the customer's engineering staff, to design and build two rough-dressing machines for grinding wheels, allowing the primary equipment to operate at 100%--making parts. Thinking "out-side-the-box" has increased efficiency and product output.



To ensure operators have visibility of the entire dressing process, an industrial camera was mounted and interfaced with the operating system to allow view-ins of hard-to-see areas at setup time.

Result:

Ergonomic engineering was the key to making these machines easily usable by the operator. This design utilizes twin spindles, and two axes of motion to pre-dress grinding wheels that are mounted on the wheel hubs. In regards to functionality and productivity, the machine will maintain existing software functionality (PLC logic) and operator interface (HMI), and the ability to download data from a central computer, along with the use of all existing grinding machine hardware. A PC based Pentium processor control with Windows XP and a 9 inch flat screen monitor displays the user-friendly software.