

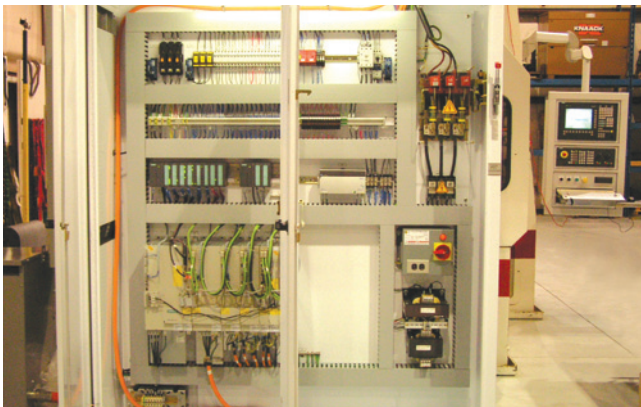
Recontrols

■ *Designed for long standing performance*

Recontrolling

One excellent method to improving the accuracy and reliability of your equipment is to recontrol it. This of course is dependent upon its mechanical stability. When your equipment is mechanically sound or performing at acceptable levels, then recontrolling is an ideal choice for improving its performance.

A recontrolled machine done by MTB always includes a complete electrical cabinet replacement. We do this for a number of reasons, but the most important is warranty. In order to offer a one year warranty and avoid issues with older equipment left inside the cabinet, we always install entirely new electrical equipment in the cabinet. This eliminates the uncertainty that occurs when something within the cabinet causes a problem. Second, the recontrol is completed



The new equipment is all prepared offsite, then integrated into the existing machine on site. Depending on the complexity, the required down time is very minimal.



more quickly and cleanly by replacement of the entire cabinet. On some machines, this allows MTB to virtually plug the cabinet into the old plugs, as opposed to cutting them all off and terminating on terminal strips. In the course of a typical recontrol, MTB will also replace all servo motor power and feedback cabling as well as all the encoder cabling on the machine. We will install all new feedback systems, such as glass scales and encoders for all axes. In a few cases, we can have your feedback devices rebuilt, if it is mechanically impossible to install new ones. The remainder of the machine wiring and electrical equipment on the machine itself will remain unchanged, except for all servomotor, spindle motor and feedback cables, which are replaced. This, of course, is unless you request that we replace all or part of the systems during the recontrol.



Control Platforms

Currently, MTB's engineering and support team members are familiar with the following controls platforms: Fanuc systems; Siemens drives and CNCs; NUM; Telemecanique; Square D equipment; Indramat; Allen Bradley PLCs and CNCs; Delta Tau motion cards; and a host of other platforms. Our knowledge of proprietary systems includes Emerson, Liebherr and Pfauter.

While MTB offers a variety of CNC and PLC platforms for recontrols, the three main CNC platforms generally used within the gear industry today are Fanuc, Siemens and NUM. For PLCs, a host of platforms is available, including Allen Bradley, Siemens and Square D, to name a few.

MTB is always open to your request for a particular brand of controls. However, if our experts



believe that the controls you select are not the best for the project, MTB will inform you of the reasons. Ultimately, the final decision of the platform we install will be yours.

Software

Software is another one of our specialties with two types of software in every CNC controlled machine: PLC and Conversational Programs. The PLC programs run the machine functions, while the Conversational Program software is the operator interface for entering process data. MTB excels in the development of robust PLC and HMI applications.



In the course of a typical recontrol, MTB will also replace all servo motor power and feedback cabling as well as all the encoder cabling on the machine.

