

# SERIES 8 CNC

## 8th generation CNC



The SERIES 8 CNC is designed to meet the everchanging, real-time needs of machine builders throughout the world. Whether you or your customer strive for faster installation, increased reliability, ease of connectivity to networks, or improved operator efficiency - the SERIES 8 CNC will meet your needs.

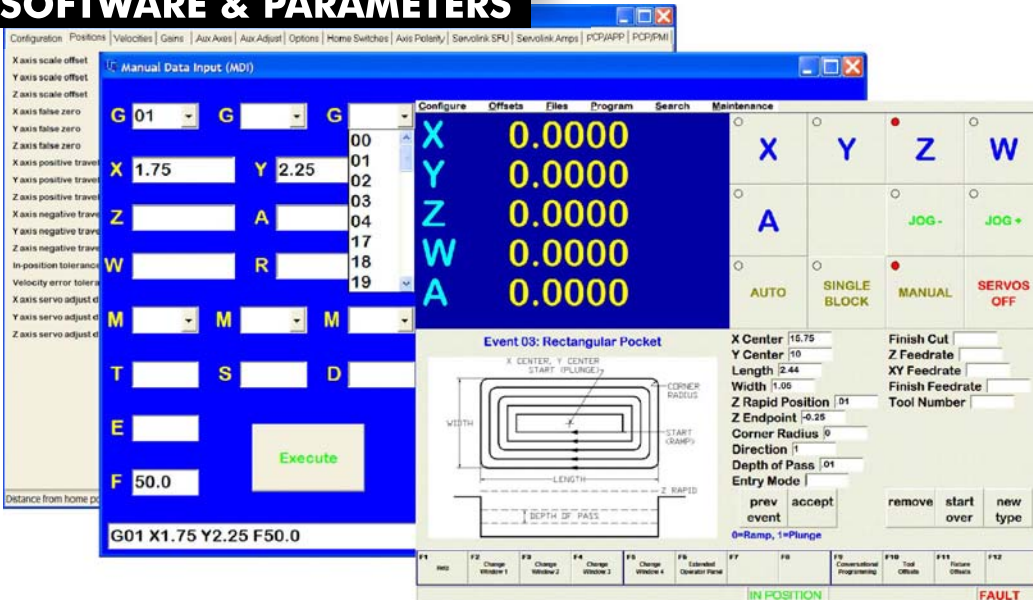
## ROBUST HARDWARE



At the core of the SERIES 8 CNC is an industrial hardened MC84 motion control board. Communication with the PC is via Ethernet, providing flexibility and future growth potential. Connections to the servo and I/O interface originates from the MC84 board, all using high speed digital interface to assure reliability and minimize connections.

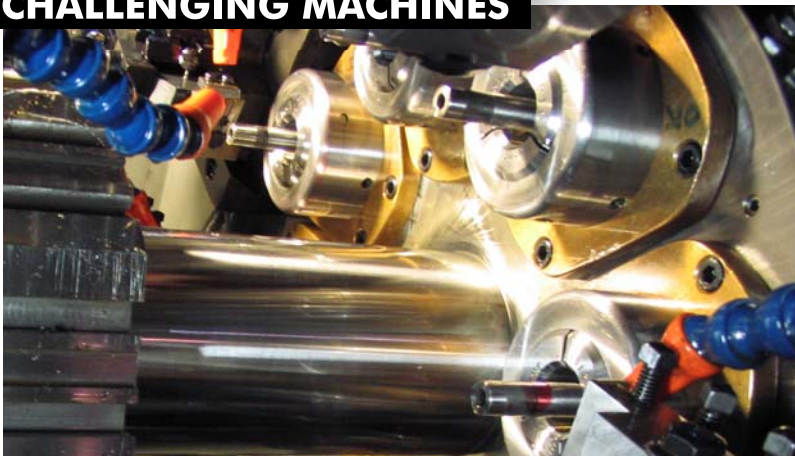


## SOFTWARE & PARAMETERS



The SERIES 8 CNC was designed for ease of use for the machine builder as well as the end user. Parameter setting software allows configuration of the machine axes, menu driven commands make it easy to learn and operate.

## CHALLENGING MACHINES



To handle the complex requirements of commodity and specialty machinery, the SERIES 8 CNC's advanced and flexible architecture makes sense for either new or retrofit installations. Our experience in CNC includes:

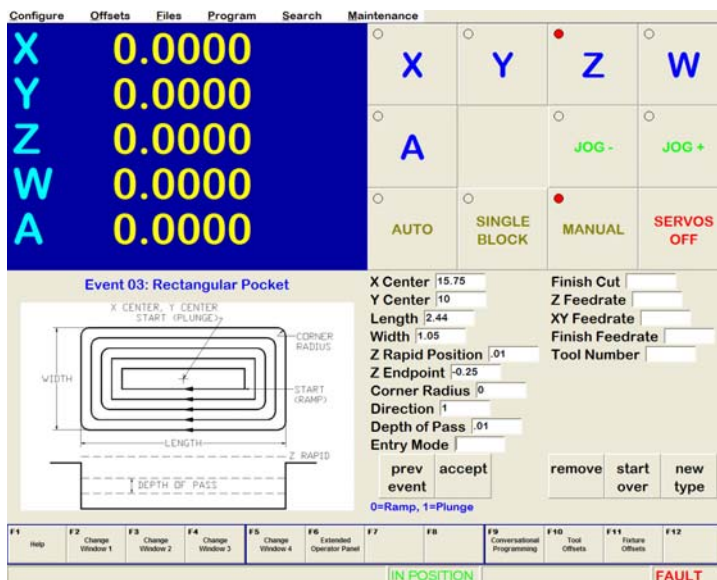
- » up to 6-axis milling
- » 5-axis tool grinding
- » piston turning with part load/unload
- » multi-spindle lathes
- » tire mold letter and tread engraving
- » PCB routing
- » rotary transfer machines
- » PCB high speed drilling
- » laser and water jet machinery

Leveraging over 80 years combined CNC design engineering experience in our German and American divisions, SIEB & MEYER has developed a powerful, flexible machine control to serve OEMs, retrofitters, and machinists.

# System Architecture

## Industrial PC

The SERIES 8 CNC uses a PC running Microsoft Windows XP Professional, equipped with a standard Ethernet connection to provide a real-time link to the motion interface board, the MC84. The PC controls the user interface, provides part program storage and network connectivity



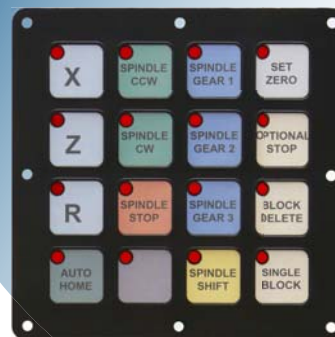
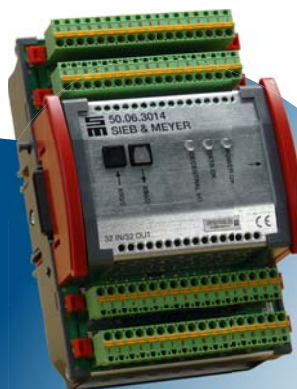
## The Brains

At the center of the SERIES 8 CNC is a Motorola Coldfire based industrial hardened board that handles servo control, path plotting, PLC operation and NC parsing.



## I/O Interface

A high-speed serial bus interfaces up to 1024 I/O points to the CNC. A full range of digital I/O voltages and analog signals are supported. Standard operator panels or custom designs communicate over the same I/O bus.



## The Muscle

All axes and spindles interface to the CNC through the Servolink digital network. If your application requires analog drives, a separate board interfaces them directly to the Servolink network



**SIEB & MEYER**



# Features & Specifications

## User Interface

- » Touch screen driven
- » Configurable, real-time position display
- » Part program display
- » Graphical part program prove out mode - displays exact information from CNC
- » 999 tool offsets
- » Automatic tool calibration
- » 32 fixture offsets
- » User friendly program editor

## Servo Interface

- » Rack mounted servos with common power supply
- » Integrated spindle drive
- » Digital parameter setting direct from CNC

## Part Program

- » Industry standard RS-274D programs
- » User assignable M and G codes
- » Develop custom macros with APP language
- » Conversational programming

## Performance

- » Supports 6 interpolated axes
- » Supports 6 additional axes
- » Supports 8 spindles
- » High-speed probe inputs (hardware latched)
- » 1 millisecond servo update rate
- » Powerful diagnostic tool for axis setup and tuning

## PLC

- » Powerful programming language
- » 20 ms scan rate
- » All standard boolean instructions supported
- » If-the, else-if control instructions
- » Flip flop instructions
- » Online debugging and monitoring of PLC logic
- » Online I/O monitoring with forcing



## Best Support in the Industry

With over 30 years experience in delivering world class CNC solutions, SIEB & MEYER is committed to making every installation a success.

We have the engineering capability and application knowledge to develop custom solutions for the toughest and fastest applications.

SIEB & MEYER can assist with all aspects of an installation - from developing custom software, designing the electrical interface, integrating the software, to providing high-quality on-site or telephone support.



## CONTACT INFORMATION

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