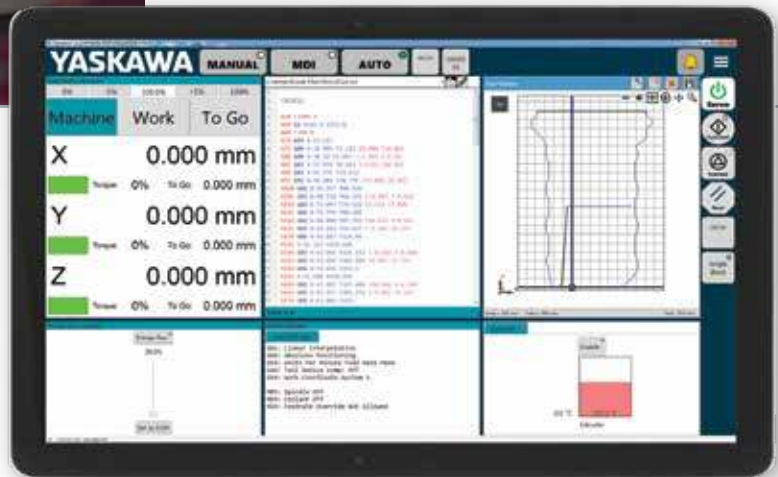




# YASKAWA COMPASS™

YOUR CNC NAVIGATOR





# EXPERIENCE THE POWER OF YASKAWA COMPASS

## SIMPLE, HIGHLY CONFIGURABLE GRAPHICAL USER INTERFACE (GUI)

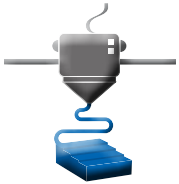
- Landscape or portrait display orientation
- Multiple machine type capable
- Easy configuration options, including user defined panel layouts, pop up dialog boxes, buttons, graphics, Boolean functions, machine specific plug-ins
- Use company logos, colors to enhance OEM branding
- Simple icon menus
- Axis configurator allows selection of axis count, INCH, MM, degrees
- Auto, MDI and jog modes
- Program execution modes: single block, optional stop, block skip, restart
- Pop-up NC editor
- Active G/M module
- Axis position registers
- Work and tool offsets
- Machine plug-ins library: extruder, spindle, tool changer, heaters, fans and more
- Pop up window features: alarms, warnings, user defined messaging
- Alarm history
- Part cycle time measurement tools
- Tool manager
- 3D viewer, live TCP updates
- Configurable hot keys
- Custom G-Code, M-code and macros
- G-Code syntax checker



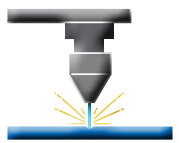
## GROWING LIST OF READY-MADE MOTION IEC TOOLS

- Bed leveling surface compensation
- Extruder pressure advance control
- Temperature control
- Stepper control
- Tangential control
- Multi extruder and spindle control
- Registration offset
- Tool changer
- Drill pocket bank

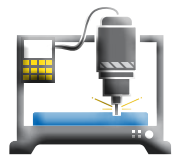
# EASY FROM THE START, POWERFUL DOWN THE ROAD



**3D Printing  
and Additive  
Manufacturing**



**Laser, Plasma,  
and Waterjet  
Cutting**



**Routing  
and Shape  
Cutting**



**Advanced  
Robotic  
Motion**

## **SIMPLE INTERFACE FOR NEW USERS, EMPOWERMENT FOR EXPERTS**

Yaskawa Compass is a software solution that quickly points novice machine operators in the right direction, while giving experienced developers a powerful pathway to advanced features.

Yaskawa Compass software allows easy navigation for a single piece of equipment with the versatility to be used across a diverse set of machine types. Expand your capability with preconfigured controls, or create your new applications as needs arise. Complete freedom to innovate is built in from Day One, without losing the simple usability you started with.

Wherever your machine development process is headed, Compass will be a valuable tool for the journey.

## **G-CODE FROM A TO Z**

Coupled with Yaskawa's MPiC Controllers, Compass can function in any machine that utilizes G-code. Features like axis readouts and streaming G-code displays are already built in. Customization is equally easy. OEMs can customize on screen features as well as adding G-codes specific to their process.







## FOUR POINTS THAT MAKE IT EASY

### Save time with built-in configurations

Choose from a variety of pre-developed, ready-to-use plug-ins for 3D printers, routers and other popular machine types. Each configuration draws on extensive Yaskawa experience with applications like yours.

### Screen layout stays neat and organized

Compass is built around a column-based format, keeping screen elements always in good order.

### Start with a style library

Choose from several groupings of complementary colors and shapes to establish a pleasing, professional look.

### Simple, quick customizing

Easily amend a style library to match your company's custom colors and logos, enhancing brand identity.

## FOUR POINTS THAT MAKE IT POWERFUL

### Speed up development with prebuilt plug-ins

Special functions for advanced manufacturing and shape cutting are already installed and ready to implement without additional programming. A partial plug-in list is included with this brochure.

### Develop your own screen panels within Compass

Use the Compass interface to simply create your own custom screen functions, then store and utilize them in a future machine or in other Compass projects.

### Complete freedom to write your own code

Compass will import your proprietary C# plug ins, preserving your company's software assets.

### Shorten development path with Yaskawa support

The Yaskawa team of programming experts are available as a ready resource, able to maximize the integration of CNC control and G-code programming with Yaskawa motion control systems. You can go forward with the reassurance that the most capable team in motion automation is ready to partner with you.



# ONE NAME TO KNOW FOR ALL AUTOMATION

## YASKAWA

Yaskawa Compass is the entryway into the automation industry's most honored family of motion control solutions.

**MotionWorks IEC** software brings the same ease and power to programming that Compass brings to machine interface. Write motion programs in multiple languages, including structured text, ladder logic and IEC function blocks. Create your own programming, or drag and drop preprogrammed kinematic tools for any type of motion automation device...even multi-axis robots.



**MP3300iec controllers** are the optimum choice for Compass applications, due to their ability to utilize G-code and a history of performance in advanced shape-cutting and additive manufacturing applications. Control up to 62 servo axes (5 axis simultaneous). A built-in web server allows you to monitor and operate a machine remotely from any PC or smart device.



**Sigma-7** means unparalleled precision, speed, compactness and rock solid reliability in servo systems, with an extensive line of rotary, direct drive and linear models from 3w to 55Kw. Each is backed by the industry's most experienced and dedicated team of application support engineers. Wherever you wish to go in motion control Yaskawa will be by your side, with full factory support from professionals stationed in 27 countries around the globe.



YASKAWA.COM



Yaskawa is the leading global manufacturer of low and medium voltage variable frequency drives, servo systems, machine controllers and industrial robots. Our standard products, as well as tailor-made solutions, are well known and have a high reputation for outstanding quality and reliability.

**YASKAWA**

**Yaskawa America, Inc.** | Drives & Motion Division

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