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

Simple, Highly Configurable User Interface

- Landscape or portrait display orientation
- Multiple machine type capable
- Easy configuration options, including user defined panel layouts, pop-up dialog boxes, buttons, graphics, browser functions, machine specific plug-ins
- Use company logos, colors to enhance OEM branding
- Simple common menu
- Axis configurator allows selection of axis count, INCH, MM, degrees
- Auto, MDI and jog modes
- Program execution modes: single block, optional stop, block skip
- Pop-up NC editor
- Active G/M module
- Axis position registers
- Work and tool offsets
- Machine plugins library: extruder, spindle, tool changer, heaters, fans and more
- Pop-up window features: alarms, warnings, user defined messages
- Alarm history
- Part cycle time measurement tools
- Tool manager
- 2D viewer, live TCP updates
- Configurable hot keys
- Custom G-Code, M-code and Macros
G-code from A to Z

Coupled with Yaskawa’s MPiec 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 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 your 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 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 interfaces. With motion programs in multiple languages, including structured text, ladder logic and IEC function blocks. Create your own programming, or drag and drop preprogrammed schematic 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 axes simultaneously). 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 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.