YASKAWA

G-Code Converter EG

Convert G-Code to Robot Programs
(Option for Points Importer EG)

Key Benefits

Ideal for users that have a mix of CNC machines and robots in their shop or for individuals who know G-Gode programming
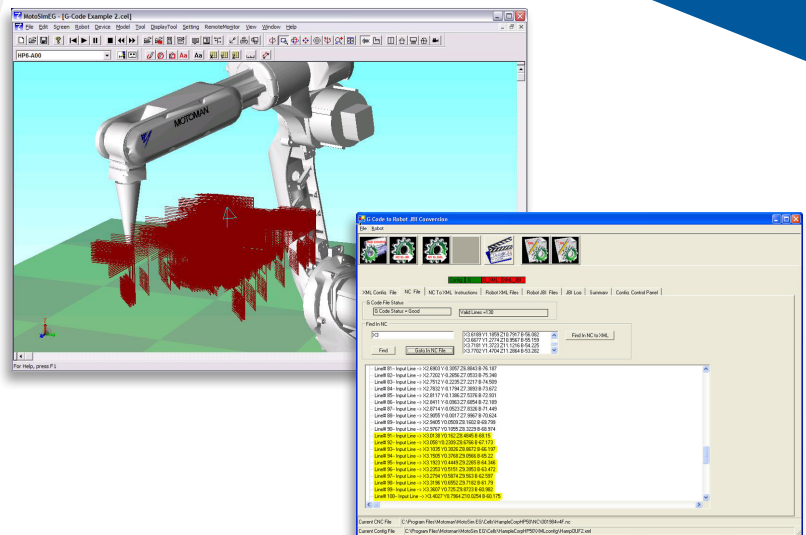
Ideally suited for customers working with third-party CAD/CAM expert packages for applications such as material removal, grinding, mold creation, surface finishing or drilling and tapping

Compatibility

DX100 controller

NX100 controller

XRC controller

- Productivity enhancement tool that converts standard CNC G-Code programs into Motoman® robot programs.

- Intuitive programming interface with step-by-step process for machine operators.

- Extremely flexible and can be modified to read in any G-Code format such as DelCAM®, SURFCAM®, GibbsCAM® or other proprietary G-Code file formats.

- Three different example simulation cells and G-Code file formats are provided.

- I/O and other commands can be adjusted for CNC-to-robot variations.

- All customized changes are contained in an XML configuration file. The software can support multiple G-Code formats by simply changing this XML configuration file.

- Allows custom mapping of machine functions to robot functions.

- CNC programs as large as 30,000 points can be converted in approximately 1 to 30 minutes (depending on PC processor) and are complete and ready to run.

- Automatically splits large processes into multiple subroutines for robot operations.

- Existing machine tool operations can be converted into robot programs without interrupting production.

- Optimizes use of capital by utilizing standard, six-axis devices to perform lower-tolerance machining processes.

- Minimizes cost to generate robot programs and leverages time and effort already spent generating machine tool programs.

- Flexibility to perform material removal, part insertion and assembly operations in same cell.

G-Code Converter EG

Calibration Requirements

- Calibration of the robot is highly suggested since tolerances and accuracy must be considered. The system configuration must support the appropriate requirements.

- MotoCal® calibration performed by Yaskawa Motoman is available before it leaves the factory.

- Field MotoCal calibration is available through Yaskawa Motoman's Customer Satisfaction Group.

- MotoCal is available to enable customers to perform calibrations on their own. Accessory items for your specific robot are not included with MotoCal.

Minimum System Requirements

Windows® XP

2 GHz processor

2+ open USB ports for USB keys

PCMCIA slot

MotoSim EG: 2.01 or greater
(Currently not supported by MotoSim EG-VRC)

Points Importer EG

Recommended System Requirements

1 GB RAM

3 GHz processor

Third-Party CAD/CAM system

XML file editing capability

Dual monitors

G-code converter is launched from the points importer menu

G-code can create status reports that show input, output and intermediate files and associated errors

The configuration file is loaded

YASKAWA