MOTOMAN NEWS RELEASE

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NEW! MOTOMAN'S G-CODE CONVERTER SOFTWARE USES CNC PROGRAMS TO AUTOMATICALLY GENERATE ROBOT PROGRAMS

Dayton, Ohio — Motoman's new G-Code Converter EG is PC-based application software that uses standard G-Code programs used by CNC machine tools, including I/O and other non-motion commands, to generate production robot programs. As a result, customers can minimize time required to program robot systems to perform many of the diverse applications that are typically performed by CNC machines.

The G-Code Converter allows customers to optimize their use of capital by utilizing standard, six-axis devices to perform lower tolerance applications involving cutting, deburring, trimming, engraving, drilling and tapping, mold creation, and surface finishing. Customers can use the G-Code Converter EG to minimize cost and effort required to generate robot programs, and to leverage time and effort they have already spent generating machine tool programs. Using the G-Code Converter EG, customers have flexibility and scalability to perform matching tasks, as well as part insertion and assembly operations, in the same system.

G-Code Converter EG is ideally suited for customers who are working with standard CAD/CAM packages that use highly developed, process-specific application tools to create complex cutting and material removal paths. These application tools apply process-specific expertise related to cutting speeds, rotation speeds and cutting angles to generate optimized cutting paths in basic machine tool language, commonly known as G-Codes.

G-Code Converter EG allows the user to leverage this process-specific knowledge captured in proven, mature and affordable CAD/CAM software packages. A G-Code program with as many as 30,000 points can be used to generate a robot program in as little as 10 minutes, depending on the speed of the user's PC. G-Code Converter EG automatically translates large processes into multiple subroutines that a robot can perform and allows mapping of custom machine functions to standard robot functions.

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The G-Code Converter EG is extremely flexible and can be configured to interpret a wide range of individual G-Code file formats, including SURFCAM©, GibbsCAM®, Delcam® or other proprietary file formats. I/O and other commands, contained in standard M and G Codes, can also be adjusted for CNC to robot variations. Mapping of customer machine functions is performed using an XML configuration file. The G-Code Converter allows the user to set default robot configurations, speeds, motion types and reference frames in the configuration file as well.

The G-Code Converter EG is an add-on module available for Motoman's Points Importer EG software that uses XML (extensible markup language) formats to translate the G-Code data to XML and then into a robot program, using MotoSim EG as a robot programming engine. The G-Code Converter application software can be used together with any of the MotoSim EG software packages (MotoSim EG or MotoSim EG Lite). The packages include two different example simulation cells and G-Code file formats.

For more information on Motoman products and services, visit the corporate website at www.motoman.com, call 937.847.6200 or write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449.

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