

Points Importer EG

CAD Data Converter

Key Benefits

Allows robot programs to be created from XML file data – easily, quickly and accurately

Improves ability to import data from third-party design packages

Ideal for use when creating robot programs for complex, curved parts

Requirements

Windows® XP

2+ open USB ports for USB keys

PCMCIA slot

1 GB RAM

3 GHz processor

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

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Third-Party CAD/CAM system

XML file editing capability

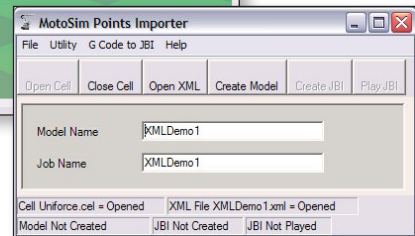
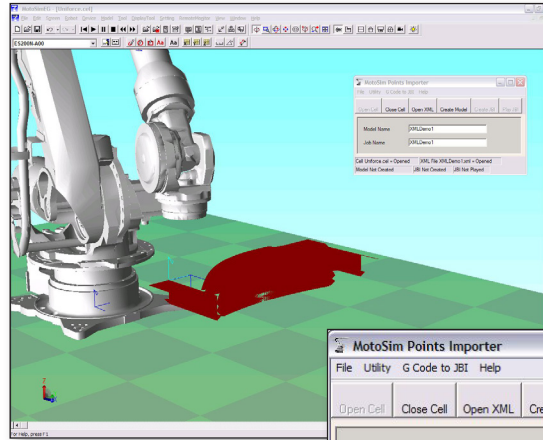
Dual monitors (optional)

Compatibility

DX100 controller

NX100 controller

XRC controller

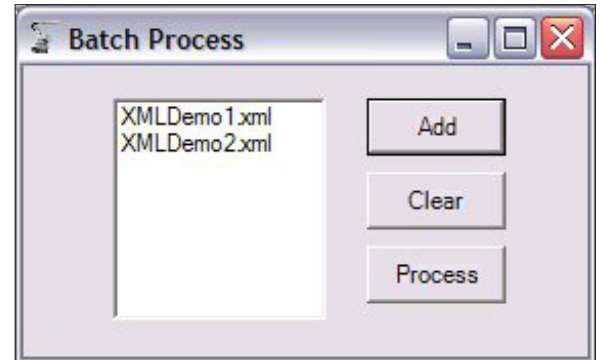


- Enables robot programs to be created from CAD data.
- Ideal for programming complex parts for applications such as waterjet cutting, grinding and deburring.
- Points Importer EG converts XML files into robot JBI files. XML files can be created from an XML editor or scripting language in a CAD program such as AutoCAD® or Unigraphics®.
- Motion commands and many mainstream INFORM III commands are supported through the XML instructions.
- Includes graphical user interface (GUI) for batch processing of files and a .NET programming interface.
- User can view and play back the newly created JBI in a virtual environment before deploying the job to the real work cell.
- Creates positions with respect to native MotoSim EG models, user frames and robot frames.
- Supports the following motion types: Linear, Joint, Circular, Spline, External Reference Point and Incremental moves. (i.e. MOV, MOVC, MOVV, INC P001 V=100.0).
- Provides ability to specify Position Variable (PVAR) with reference frame as output position vs. move constant (i.e. MOVV P001 V=100.0, INC P001 V=100.0 RF).

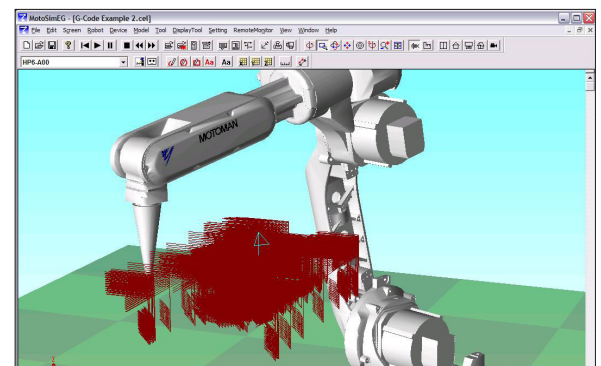
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Functions

- Search Tag – for incremental move (i.e. IMOV P001 V=25.4 UF#(2) SRCH RIN#(1)=ON DIS=D090).
- Move Tag – for supplemental move tags such as NWAIT.
- Get Current Position – gets current robot position in pulse or Cartesian (i.e. GETS PX000 \$PX000).
- Shift On – starts a robot shift command (i.e. SFTON P010 UF#(3)).
- Convert – converts a pulse PVAR type to the specified destination PVAR and reference frame (i.e. CNVRT PX000 PX000 UF#(2)).
- Get Position Element – imports a position element into a double precision variable (i.e. GETE D091 P000 (1)).
- Set Position Element – sets a position element equal to a double variable (i.e. SETE P010 (1) D001).
- Add – adds the source variable/constant to the destination variable and stores the result in the destination (i.e. ADD D090 D099).
- Sub – subtracts the source variable/constant from the destination and stores the result in the destination (i.e. SUB P001 P001).
- Multiply – multiplies the destination variable by the source variable/constant and stores the result in the destination (i.e. MUL I001 I002).
- Divide – divides the destination variable by the source variable/constant and stores the result in the destination (i.e. DIV R001 R002).
- Set Variable – sets the destination variable equal to the source variable (i.e. SET B001 255).



Batch Processing



Quickly Convert Many Points

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