visual Components

ROBOT ADD-ON

VISUAL COMPONENTS ROBOT ADD-ON IS FOR MODELLING ROBOT PROCESSES. REALISTIC MOTION SEQUENCES REPRESENTATIVE OF THE ACTUAL WORKCELL ARE RAPIDLY DEVELOPED BY COMBINING SIMPLE ROBOT INSTRUCTION STATEMENTS TOGETHER IN AN ICON BASED SEQUENCE EDITIOR.

- **EFFECTIVE INSTRUCTION OF ROBOT TASKS**
- **VISUALIZE A COMPLETE WORKCELL IN OPERATION**
- **CHECK REACHABILITY AND OPTIMISE WORKCELL LAYOUTS**
- **AVOID COSTLY ERRORS WITH COLLISION DETECTION**

Solution Partner Automation SIEMENS

SolidWorks Solution Partner

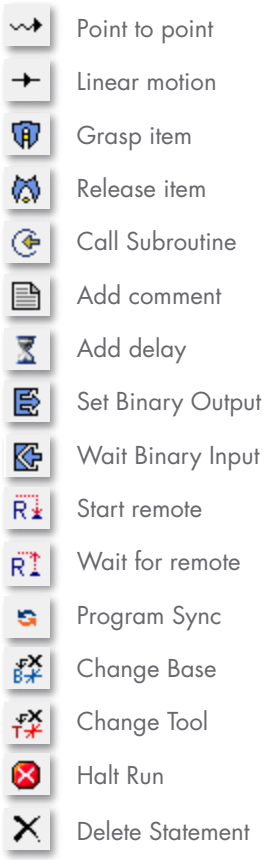
ROBOT ADD-ON

REALISTIC ROBOT MOTION
WITH SIMPLE ICON BASED EDITING

THE ICON BASED SEQUENCE EDITOR PROVIDES ALL THE TOOLS AT YOUR FINGERTIPS TO ACCURATELY MODEL A COMPLEX ROBOT BASED WORKCELL. LOCATED IN THE ROBOT ADD-ON TEACH TAB, THE SEQUENCE EDITOR COMBINES SAVED ROBOT POSES WITH GRIPPER AND DEVICE I/O STATEMENTS INTO A SUB-ROUTINE OR PART OF A MAIN PROGRAM SEQUENCE.

Robots and devices are moved into position using the interactive JOG JOINTS, TRN TOOL, and ROT TOOL functions. The positions are saved to a Point-To-Point (PTP) or Linear (LIN) motion statement and then combined with other robot statements: The sequences can be saved,editied and in some cases "mirrored" to define the workcell tasks.

- DIGITAL I/O AND REMOTE DEVICE STATEMENTS CONTROL THE WORKCELL DEVICES
- SUPPORTS UNIQUE ROBOT KINEMATICS AND CONFIGURATIONS
- ROBOT WIZARD FOR CREATING NEW ROBOT MODELS COMPLETE WITH MOTION PLANNER
- SWITCH TO ACTUAL 1:1 CLOCK SPEED TO SEE THE TRUE SPEED OF THE WORKCELL.
- 17 STATEMENTS PLUS CUSTOMIZED PROCESS STATEMENT TO ADD NEW PROCESS ICONS



FEATURES

Robot Pose Tools Jog joints into position or move the Tool work-point, using the robot inverse kinematics.

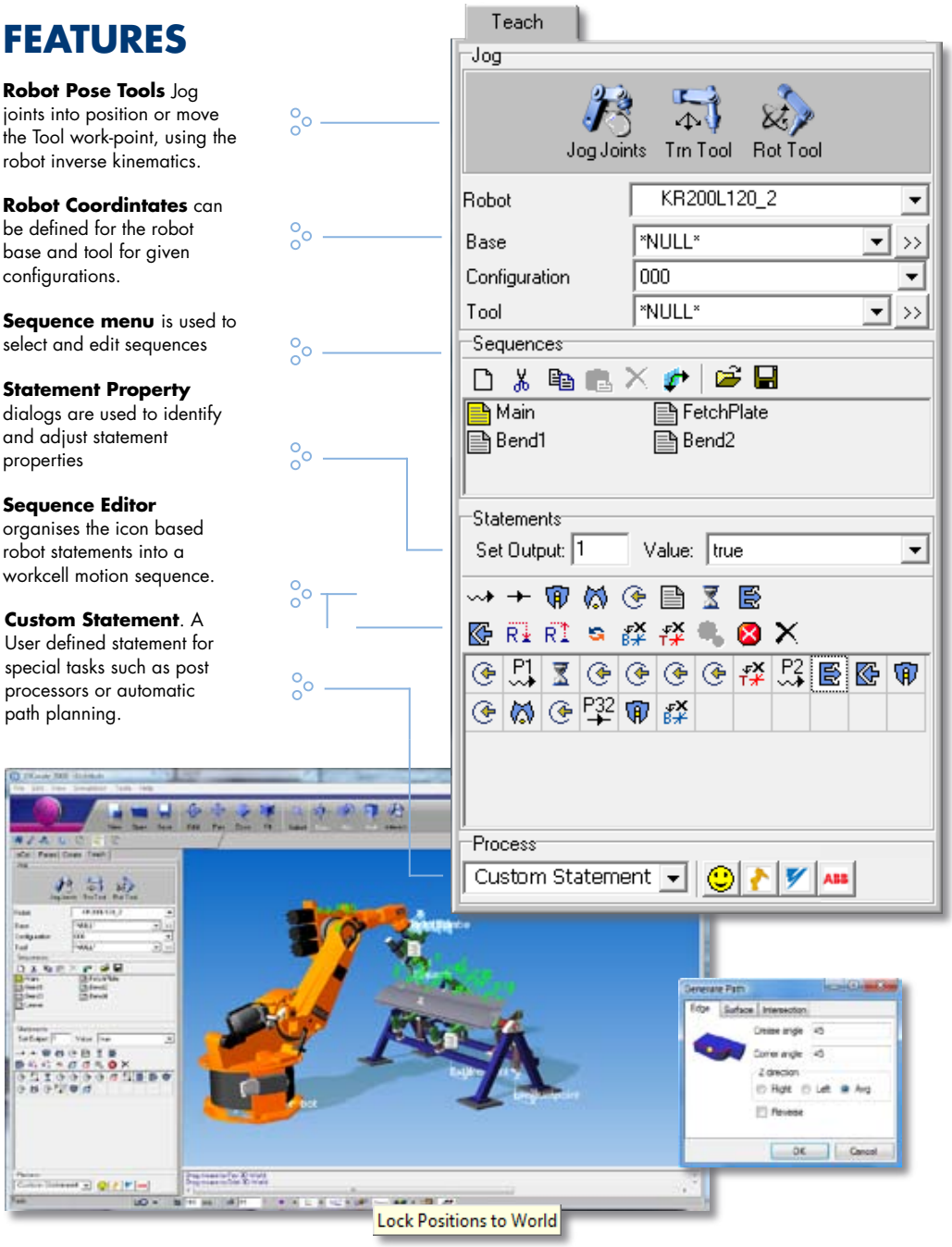
Robot Coordintates can be defined for the robot base and tool for given configurations.

Sequence menu is used to select and edit sequences

Statement Property dialogs are used to identify and adjust statement properties

Sequence Editor organises the icon based robot statements into a workcell motion sequence.

Custom Statement. A User defined statement for special tasks such as post processors or automatic path planning.



The Robot Add-on is an Add-on for 3DCreate or 3DRealize

visual components

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