

	Form title Machining PowerPac 6.07.01 Machining Functionality	Ref	
Department ABB Robotics/BU Robotics Product		Date 8/8/2018	File name Machining PowerPac- Machining Functionality Release Notes.doc
	Alan Huang, +86 021 61056186		Page 1/5

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Release Information

Release Name

The release name is RobotStudio Machining PowerPac 6.07.01 - Machining Functionality.

The release contains following products:

Installation package of Machining PowerPac 6.07.01

Release Information

The information should be considered as last minutes information and most up-to-date.

For more information please contact project manager: CN-Robotics-Software@abb.com

Release Time

Release time **2018-7**

Ordering number

Ordering number for the Machining PowerPac 6.07.01 - Machining Functionality Manual is
3HAC054781

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General

Installation information

- 1) Download Machining PowerPac 6.07.01 from the following link,
<http://new.abb.com/products/robotics/robotstudio/downloads>
- 2) Click “ABB Machining PowerPac 6.07.01.exe” to install Machining PowerPac - Machining Functionality
- 3) Machining PowerPac - Machining Functionality will be installed under “Robotics IT”, the standard install location for RS PowerPac

Language information

Machining 6.07.01 Supports following languages:

- q English
- q Chinese

Main functions

- Create Tool model
 - Easily create tool geometry
 - Support user-defined contact point on tool
- Create geometry
 - 5 strategies to create path curves based on the Cad model
 - Geometry boundary to constrain process area
- Create operation
 - Tool axis control
 - Flexible non-process move setting strategies
 - WAVE path
 - Safe path
- Path edit
 - 2 strategies to do smooth tool axis interpolation
 - Support smooth contact point(on tool) adjustment
- Simulation

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- New quick simulation and collision check in RS
- Support VC simulation
- Export RAPID
- Extendable with template

Corrections MPP 6.07.01

Corrections

**Support parameterized side machining tool radius compensation in rapid code.
Feature #9044**

Limitations

- Zig/zigzag pattern for operation is not available after editing the sequence of feature curves
- Flexible contact point on tool is not supported for tool face machining
- System supports only ABB 6-axis robots, except for IRB 6640ID, IRB 6640 LeanID, and 6-axis painting robots IRB 52, IRB 5400, and IRB 580

Known issues

- The Machining PowerPac - Machining may encounter error if users have run Machining Powerpac older version in the same RobotStudio session
- For operation tool axis, if the specified fixed tool axis is close to 90 degree with the original tool axis, the calculated tool axis maybe wrong
- Undo for creating tool in Machining PowerPac doesn't work well, users need to undo twice to undo a tool creating operation
- CAMWorkobject node in geometry view and tool node in tool view don't support copy/paste from keyboard(ctrl + c/ctrl + v)
- The user interface layout of Machining PowerPac maybe incorrect if users don't use "smaller – 100% (default)" in Windows display setting
- Tool change of operation causes incorrect position of safe path in quick simulation
- Quick simulation of robot on track for safe path is incorrect while VC simulation is OK
- Safe path defined in operation is not included in operation template
- IRB6700_300_270 kinematics has an error, currently this robot type is not supported.

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