

Release Notes
ArcWelding PowerPac 2

6.08

Revision: A

The information in this manual is subject to change without notice and should not be construed as a commitment by ABB. ABB assumes no responsibility for any errors that may appear in this manual.

Except as may be expressly stated anywhere in this manual, nothing herein shall be construed as any kind of guarantee or warranty by ABB for losses, damages to persons or property, fitness for a specific purpose or the like.

In no event shall ABB be liable for incidental or consequential damages arising from use of this manual and products described herein.

This manual and parts thereof must not be reproduced or copied without ABB's written permission, and contents thereof must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted.

Additional copies of this document may be obtained from ABB at its then current charge.

© Copyright 2019 ABB All rights reserved.
ABB, Robotics,
Sweden

Table of Contents

1 Release Information	4
2 What's New in ArcWelding PowerPac 2 6.08	5
3 Known Limitations	8
4 RobotWare compatibility	10
5 Installation information	11
6 Technical support	14

1 Release Information

1.1 General

Release Name

The release name is ArcWelding PowerPac2 6.08 and the build number is 6.08.0108.1040

Release Date

The release date is 23-Apr-2019

Language Support

ArcWelding PowerPac2 is available in the following language: English.

Documentation

Operator Manual is available in English language along with the product.

1.2 System recommendation

Recommended Software

Operating System	
Microsoft Windows 7 SP1	32-bit edition
Microsoft Windows 7 SP1 (recommended)	64-bit edition
Microsoft Windows 10 (recommended)	64-bit edition



Note

RobotStudio 6.08.01 does not support Windows XP and Vista. The reason is that RobotStudio uses .NET Framework 4.5 which is not supported by XP or Vista.

ArcWelding PowerPac2 is not tested on Windows 8 32-bit edition, which is the reason why it is not added to the list of supported operating systems.

However, as of now, there are no known obstacles that prevent ArcWelding PowerPac2 to run on Windows 8 32-bit.

Recommended Hardware

CPU	2.0 GHz or faster processor, multiple cores recommended
Memory	3 GB if running Windows 32 bit edition 8 GB if running Windows 64 bit edition (recommended)
Free disk space	10+ GB free space, solid state drive (SSD)
Graphics card	High-performance, DirectX 11 compatible, gaming graphics card from any of the leading vendors. For the Advanced lightning mode Direct3D feature level 10_1 or higher is required.
Screen resolution	1920 x 1080 pixels or higher is recommended
Colors	256 or higher
DPI	Normal size (100% / 96 dpi) up to Large size (150% / 144 dpi)
Mouse	Three-button mouse
3D Mouse [optional]	Any 3D mouse from 3DConnexion, see http://www.3dconnexion.com .

2 What's New in ArcWelding PowerPac 2 6.08

Overview

This section contains information about the new features of ArcWelding PowerPac 2.

Process Markup

Identify edges/joints as curves in the CAD model which are referred as Process Markups. These are used to estimate the Weld lengths and Sequences. Weld paths are created on these process markups.

Robot Centric Programming

The workflow for creating weld paths/support instructions is Robot centric.

- Easily bring the Robot close to the desired location
- Interactively verify the Tool orientations
- Animated Configuration management, helps to visualize the cable turns for different combinations
- Support for finding potential reachability issues, even before creating the path itself
- Create instructions based on various templates

This reduces the post programming reachability issues.

Interactive Browser tree

New Browser tree for managing the Programs and Components (Process Markups and Templates)

- Organize instructions in groups of Process sections
- Switch between Instruction and Target view modes
- Work seamlessly with RobotStudio, all context menu options are readily available and extended with new functions.

Properties for Process Markup, Robot targets and instructions

Depends on the context in the ArcWelding browser tree, properties shall be displayed.

Markup Properties:

- Displays the Cycle Time and overall length of the Process Markup, along with the other parameters.
- The Process markup sequence can be modified.
- Export the markup properties.

Instruction Properties:

- Displays the Robot configuration
- Option to convert Joint to Linear instruction
- MoveTo next Joint instruction
- Change the animation speed

Target Properties:

- Modify the offset for selected/multiple targets.

Sync & Play

For the selected process path shall be synced to RAPID with updated references and start simulation automatically.

Motion Analyser

Track the real robot live together with the RobotStudio station (Digital Twin).

- Record and play-back the path
- Assign and check signal triggers

Template Manager

Leverages on the updated RobotStudio Instruction template manager, to automatically find and create templates for available process instructions, with editing provisions. Saved as a Station document and easy to extend to other applications.

Virtual Reality

All relevant functions / concepts from Arc Welding PowerPac are also available in the VR setup.

2.1 Comparison between PowerPac versions

The following table highlights the comparison between with earlier PowerPac versions:

	Arc Welding PowerPac 2	Arc Welding PowerPac
Markup		
Process Markups	Yes	NO
Programs & Path creation		
Create Part Program	YES	YES
Modify Part Program	YES	YES
Create Process Path	YES	YES
Create Process Section	YES	YES
Import / Export Process Section / Path	NO	YES
Target reachability check before Path creation	YES	NO
Target reachability check after Path creation	YES	YES
Add Air Instruction	YES	YES
Add Search Instruction	YES	YES
Path View (Horizontal View)	NO	YES
Move To (Path View) operation	YES	YES
Jump To (Path View) operation	NO	YES
Modify/optimize selected targets	NO	YES
Animated Configuration management	YES	NO
MultiMove Process section support	NO	YES
Graphics		
Guided assistance in Notification area while creating Process Path	YES	NO
Process Markup are shown as Wire Parts	YES	NO
Collision detection while moving along the path	YES	NO
Templates		
Arc templates in package	NO	YES
Template Editor	YES	YES
Process data editor	NO	YES
Others		
Motion Analyzer	YES	NO
Virtual Reality	YES	NO

3 Known Limitations

Overview

This section describes the known limitations in Arc Welding PowerPac 2 6.08.01.

3.1 Process Markup

Limited provision to customize the process markups.

Work around: Manually create curves and move the Part into the Markup group in the RobotStudio Layout browser tree.

3.2 Templates

Default Arc Template(s) are not imported to RobotStudio automatically

Follow the below procedure to import and use the instructions with AWPP 2.

Step 1: Launch Instruction Templates window

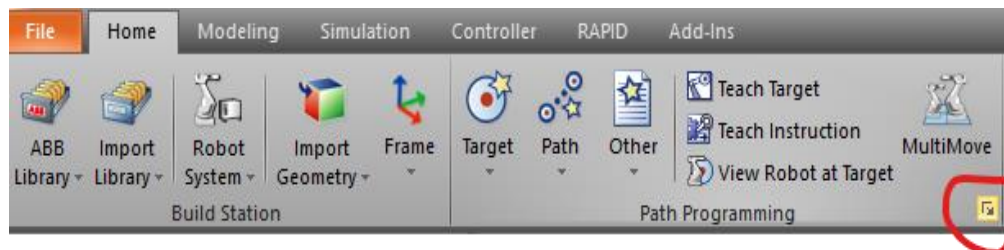


Figure 1 Launch Instruction Templates

Step 2: Through Import operation, select the Arc.xml file

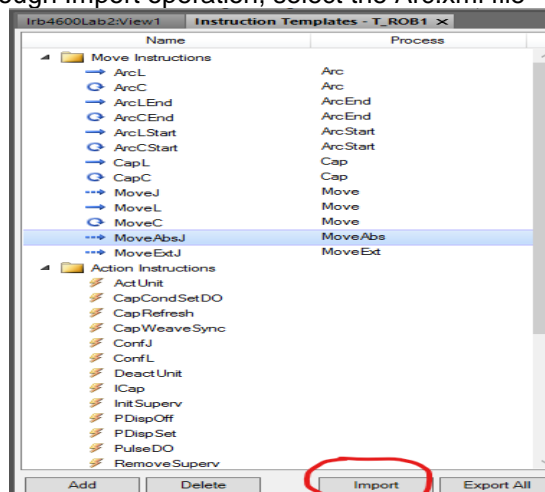


Figure 2 Import Arc File

Import C:\Users\<UserId>\Documents\RobotStudio\Instruction Templates\Arc.xml

Step 3: Delete "xxxx_ProcessList.xml" file from Station Documents.

Step 4: Save the station

Step 5: Close the RS instance.

Step 6: Restart RS & open the station.

Step 7: Activate PowerPac. Arc template will be available in the "xxxx_ProcessList.xml" file.

Step 8: Deactivate & Activate PowerPac. Arc template will be shown in the Templates browser also.

3.3 Path Programming

-
- No additional support for optimizing path programs with external axis.

3.4 MoveTo operation

In Multi Move systems, “MoveTo” operation is limited to the selected task only.

3.5 Search operation

This version supports Search_1D option.

4 RobotWare compatibility

ArcWelding PowerPac 2 6.08 is compatible with RobotWare 6.08.01 onwards, though there are no known limitations with earlier versions of RobotWare.

5 Installation information

5.1 Installing ArcWelding PowerPac 2

Installation Instructions

ArcWelding PowerPac 2 will be installed side-by-side with any previous installation of ArcWelding PowerPac. It uses the same activation key.

ArcWelding PowerPac 2 requires RobotStudio and RobotWare to be installed.

How to install ArcWelding PowerPac on a PC

	Action
1	Go to the website http://new.abb.com/products/robotics/robotstudio/downloads
2	Download ArcWelding PowerPac 2 from the PowerPac section.
3	Double-click on the file ArcWelding2 PowerPac 2 6.08.exe of the ArcWelding PowerPac media.
4	ArcWelding PowerPac 2 6.08.exe is a self-extracting executable; it will extract all the installation components to the folder specified.
5	Go to the extracted location.
6	Click on setup.exe. Go through the wizard to finish installation.

ArcWelding PowerPac 2 6.08 should be installed under the 'Robotics IT' folder present at the same level as the Base application i.e. RobotStudio 6.xx.

The default installation path for the ArcWelding2 PowerPac 6.08 is "\$[Program Files]\ABBIndustrial IT\Robotics IT".

Licensing

The ArcWelding PowerPac software licenses are designed to cater to the Engineering (Office) and Operations (shop floor) requirements. The following licensing options are available:

RobotStudio and ArcWelding PowerPac:

- Basic (no license required)
- Premium

Licenses for Robot Controller:

- 633-4 Arc option

For more details, see the Operating manual - ArcWelding PowerPac

Activation of ArcWelding PowerPac2 Trial license

For an immediate trial period of 30 days, RobotStudio will work without activation.

By default, ArcWelding PowerPac 2 would not be activated. With the installation of PowerPac comes a Trial license of ArcWelding PowerPac.

This trial license should be manually activated. After the installation is activated, you will have valid licenses for the features covered by your subscription for a period of 30 days.

Please refer to the section ***Manual Activation*** for details on activating "***Trial License***".

How to activate ArcWelding PowerPac license?

Use the Activation Wizard to activate your ArcWelding PowerPac installation.

**Note**

If you have a problem with your activation, contact your local ABB customer support representative at the e-mail address or telephone number provided at <http://www.abb.com/contacts>.

For using the Activation Wizard, follow this procedure.

	Action
1	On the File tab, click Options and go to General: Licensing .
2	On the Licensing page to the right, click Activation wizard to launch the Activation Wizard.
	In the Activation Wizard, on the Activate RobotStudio page, indicate whether you have a Standalone License or a Network License , and then click Next . If you have chosen Standalone License , you will proceed to the Activate a Standalone License page. See Activate automatically over the Internet or manually below for further steps. If you have chosen Network License , you will proceed to the Network License page. See the RobotStudio Operating manual for further steps.

Activate automatically over the Internet or manually

The Activation Wizard gives you two choices on how to proceed. You can choose either automatic activation over the Internet or manual activation. These are explained in the following section.

Automatic Activation (recommended)

In Automatic Activation, the Activation Wizard automatically contacts and sends your activation request to the ABB licensing servers over your Internet connection. Your license will then be automatically installed and your product will be ready for use.

For Automatic Activation you need a working Internet connections and also a valid Activation Key that has not exceeded the number of installations allowed.

RobotStudio must be restarted after the activation has been successfully completed.

**Note**

If you choose to activate over the Internet but are not currently connected to the Internet, then the wizard alerts you that there is no connection.

Manual Activation

1. If the computer does not have a working Internet connection or a trial license needs to be activated, you must proceed with Manual Activation
2. A license file has an extension “.bin”. “**Trial License_ArcWelding.bin**” is installed with the PowerPac. It can found under the following location “\$[Program Files]\ABB Industrial IT\Robotics IT\ArcWelding PowerPac2 6.08\TryLicense”
3. If you already have a license file, follow the step 8.
4. If you want to create a license file follow steps 5 – 8.
5. Create a license file by selecting the option **Step 1: Create a license request file**. Proceed through the wizard, enter your Activation Key and save the License Request File to your computer.

6. Use a removable storage medium, such as a USB stick or floppy disk, to transfer the file to a computer with an Internet connection. In that computer, open a web browser, go to <http://manualactivation.e.abb.com/> and follow the instructions given.

The result will be a License File that should be saved and transferred back to the computer having the installation awaiting activation.

7. Re-launch the Activation Wizard and go through the steps until you reach the **Activate a Standalone License page**.

8. Under **Manual Activation**, select the option **Step 3: Install a license file**.

Proceed through the wizard, selecting the License File when requested. Upon completion, ArcWelding PowerPac is activated and ready for use.

RobotStudio must be restarted after the activation has been successfully completed.

How can I tell whether my ArcWelding PowerPac installation has already been activated?

1. Go to the **File** tab, click on the **Options** button, and select the **Licensing** section.
2. Click **View Installed License Keys** to see the status of your current license.
3. If your ArcWelding installation is activated, you will have valid licenses for the features covered by your subscription.

6 Technical support

6.1 Overview

Contacting ABB

If you have any questions or problems with your PowerPac installation, please get in touch with your local ABB Robotics Service representative, or the person who has shared this build.

Have the following in mind

1. Running the latest version of RobotStudio and ArcWelding PowerPac ensures that it works properly and includes improvements and new product functionality. ABB recommends that you update to the latest version of RobotStudio and ArcWelding PowerPac whenever a new version is available and before contacting ABB for support.
2. Give a brief description of how to reproduce your problem.
3. Create screenshots if applicable. (Use ALT + PRINT SCREEN to get an image of the active window instead of the entire screen.)
4. Generate a Full Scan with the RobotStudio Support Tool available next to RobotStudio in the Start menu, save the report and attach it with your problem description. (Click **Start** → **Programs** → **ABB Industrial IT** → **Robotics IT** → **RobotStudio** → **RobotStudio Support Tool**, click on **Run Full Scan** and then **Save Report**.)
5. We also need the following user information:
 - i. name
 - ii. company
 - iii. contact information
 - iv. what operating system you are running (incl. language)
 - v. subscription ID for your purchased license.
 - vi. Machine ID, see Help section of File tab.



Note

When sending large (> 1 Mb) files, please compress them with WinZip® or WinRAR.

License support

For license-related questions, please contact the team responsible for license support directly at softwarefactory_support@se.abb.com