

Release Notes  
Cutting PowerPac

2022.2

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 2022 ABB all rights reserved. ABB AB  
Robotics Products  
SE-721 68 Västerås  
Sweden

# Table of Contents

<b>Overview</b>	<b>4</b>
<b>1 Release Information</b>	<b>5</b>
<b>2 What's new</b>	<b>7</b>
<b>3 Late-breaking information</b>	<b>8</b>
<b>4 Corrections</b>	<b>9</b>
<b>5 Known Limitations</b>	<b>10</b>
<b>6 Installation information</b>	<b>11</b>
<b>7 Technical support</b>	<b>12</b>

# Overview

---

## Description

This document provides information about the new features, problems corrected, and installation of Cutting PowerPac.

---

## Product Overview

The Cutting PowerPac is a RobotStudio solution for offline programming and simulation of Cutting application.

Cutting PowerPac allows you to make the configuration and simulation for a Cutting application and process.

Cutting PowerPac is a dedicated tool for generating cutting programs in RobotStudio. Utilizing the CAD geometry as the basis for all robotics programming, you can generate 2D and 3D shape cutting instructions based on geometry features, and also generate free form cutting path base on the edges. This method, known as geometry-based offline programming, gives you unprecedented control over the cutting paths, resulting in improved quality.

Cutting PowerPac is available as-

- **Premium** - Offers full PowerPac functionality for offline programming and simulation. The Premium level requires activation.



### Note

**Cutting PowerPac 64-bit edition** is installed on computers with a 64-bit operating system. The 64-bit edition allows large CAD-models to be imported as more memory can be addressed.

For download information, visit our RobotStudio Download Page:  
<http://new.abb.com/products/robotics/robotstudio/downloads>

On the PowerPacs User Forum discuss problems and solutions online:  
<http://forums.robotstudio.com/categories/powerpacs>

# 1 Release Information

## 1.1 General

---

### Release Name

The release name is **Cutting PowerPac 2022.2** and the build number is **6.13.0111.4007**

---

### Release Date

The release date is **July 6<sup>th</sup>, 2022**.

---

### Demo station

Demo\_Cutting\_Station is included in this version

It is stored in the Pack & Go format (.rspag) and can be opened with the command Unpack & Work on the Share section of the RobotStudio menu.

---

### Language Support

Cutting PowerPac is available in the following three languages: English, German and Chinese (simplified).

---

### Documentation

User documentation for Cutting PowerPac is available from the *Help* button in the upper-right corner of PowerPac after activation.

Also, available under installed\ Program Files folder(x86)\ABB\Cutting PowerPac 2022\Help

## 1.2 Prerequisites

---

### Before you install...

Before you begin installing Cutting PowerPac, you must have administrator privileges to successfully complete the installation.

It is advisable that below software should be installed before installing Cutting PowerPac -

- RobotStudio **6.08** and above is compatible
- Robotware 5.60 and above is compatible

---

### Licensing

Cutting PowerPac is available as -

- **Premium** - Offers full PowerPac functionality for offline programming and simulation. The Premium level requires activation.

## 1.3 System requirements

---

### Software requirements

Operating System	
Microsoft Windows 10	64-bit edition

---

### Hardware Requirements

CPU	2.0 GHz or faster processor, multiple cores recommended
Memory	
	8 GB if running Windows 64bit edition.
Free disk space	5+ GB free space
Graphics card	High-performance DirectX 11 compatible graphics card. For the Advanced lightning mode Direct3D feature level 10_1 or higher is required.
Screen resolution	1920 x 1080 pixels or higher is recommended
DPI	Normal size (100% / 96 dpi) up to Large size (125% / 120 dpi)
Mouse	Three-button mouse
3D Mouse [optional]	Any 3D mouse from 3DConnexion, see <a href="http://www.3dconnexion.com">http://www.3dconnexion.com</a> .
Disk Drive	DVD-ROM Drive (required only if you receive the RobotStudio installer on a DVD)

## 2 What's New

### Overview

This section contains information about the new features of Cutting PowerPac.

#### 2.1 Cutting PowerPac 2022.2

No new feature has been added. References are updated to RobotStudio 2022.2 and compatibility tests are performed

#### 2.2 Cutting PowerPac 2022.1

No new feature has been added. References are updated to RobotStudio 2022.1 and compatibility tests are performed

#### 2.3 Cutting PowerPac 2021.4

No new feature has been added. References are updated to RobotStudio 2021.4 and compatibility tests are performed.

#### 2.4 Cutting PowerPac 2021.3

No new feature has been added. References are updated to RobotStudio 2021.3 and compatibility tests are performed.

#### 2.5 Cutting PowerPac 2021.2

No new feature has been added. References are updated to RobotStudio 2021.2 and compatibility tests are performed.

#### 2.6 Cutting PowerPac 2021.1

No new feature has been added. References are updated to RobotStudio 2021.1 and compatibility tests are performed.

#### 2.7 New Features in 2019.1

No new feature has been added. References are updated to RobotStudio 2019.1 references and compatibility test is performed.

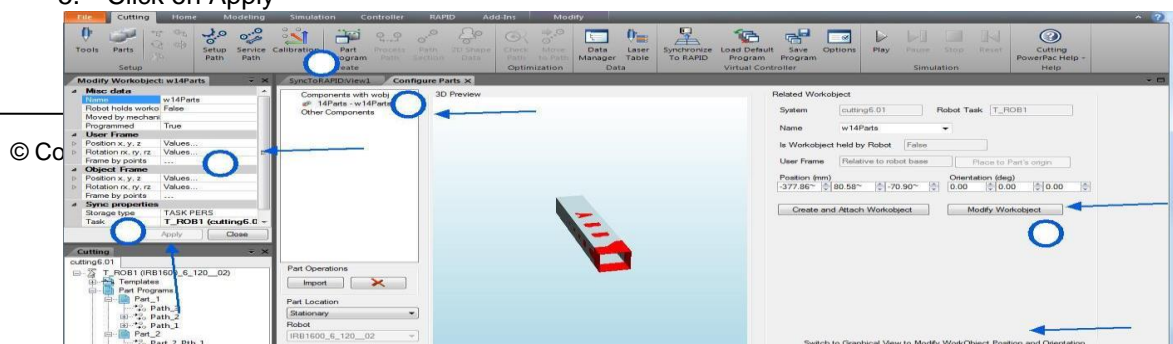
#### 2.8 New Features in 6.08

No new feature has been added. References are updated to RS 6.08 references and compatibility test is performed.

### Setup – Parts: Modify Workobject directly from Parts Window by selecting points on Part in graphical view

In Parts window-

1. Select a part
2. Click on “Modify –Modify Workobject button window” opens up on left
3. Switch to Graphical view
4. Update Workobject User Frame / Object Frame by selecting points on Part
5. Click on Apply







## **3 Late-breaking information**

### **3.1 Overview**

This section contains late-breaking information that will be included in the appropriate documents in the subsequent releases.

Nothing in this release.

## 4 Corrections

---

### Overview

This section describes the defects solved in Cutting PowerPac.

### 4.1 Corrections in Cutting PowerPac

---

#### Overview

This section describes the corrections made in 2022.2

---

#### Product Defect Documents

None

---

#### Bug Fixes

---

20220505-5954716 | Salesforce| Bug 449196: CPP: Fatal error during modify target

## 5 Known Limitations

---

### Overview

This section describes known limitations in Cutting PowerPac.

---

### Calibration

- Load existing calibrations fail if different number of calibration points present in multiple calibrations in a station.  
  
Workaround - Keep same number of calibration points if multiple calibrations are present in a station.
- Sync to RAPID when calibration is present creates RAPID errors

---

### Cut 2D Shape Instruction

Create Cut from Path View -> Shapes -> Cut 2D Shape Instruction... in the Path View inverts path by 90 degrees

The workaround is to:

- Use 2D Shape Data button in Cutting Ribbon to create 2D Shape instructions.

## 6 Installation information

### 6.1 Installing Cutting PowerPac

---

#### Installation Instructions

Cutting PowerPac 2022 will be installed side-by-side with any previous installation of Cutting PowerPac. It uses the same activation key.

Cutting PowerPac requires RobotStudio and Robotware to be installed.

**New Installation Path:** Cutting PowerPac 2022 is installed in C:\Program Files (x86)\ABB\Cutting PowerPac 2022 (Same as RobotStudio).

---

#### How to install Cutting PowerPac on a PC

	Action
1	Go to the website <a href="http://new.abb.com/products/robotics/robotstudio/downloads">http://new.abb.com/products/robotics/robotstudio/downloads</a>
2	Download Cutting PowerPac from the PowerPacs section.
3	Unzip <b>Cutting PowerPac 2022.2.zip</b> file, to extract all the installation components to the folder specified.
4	Go to the extracted location.
5	Double click on <b>ABB Cutting PowerPac 2022.2.exe</b> file. Go through the wizard to finish installation.

---

#### Knowing which Cutting PowerPac version is installed

The version number of your Cutting installation is displayed in the Cutting AddIn button in AddIns tab. The version can also be seen in the about dialog once the PowerPac is activated. The About dialog can be accessed from the Help icon within the PowerPac.

---

#### Activation of Cutting PowerPac license

PowerPac Trial license is not supported by Robot Studio 2019 and above. Robot Studio Trial license itself is applicable for PowerPac also.

##### RobotStudio Trial License:

Users need to request a trial license from within RobotStudio, whereby RobotStudio connects to a cloud service that provides a trial license key unless a previous trial has been granted to that particular machine.

Only one trial per machine is allowed.

Internet connection is required for the trial.

---

#### How to activate Cutting PowerPac

Use the Activation Wizard to activate your RobotStudio. RobotStudio activation automatically activates Cutting PowerPac AddIn.



**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>.

---

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

1. Go to the **File** tab, and then 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 Cutting installation is activated, you will have valid licenses for the features covered by your subscription.

---

**Changes in version naming for PowerPac**

1. New version naming scheme is in sync with Robot Studio.
2. Based on the current year
  - The first version a certain year (e.g. 2019) will be called "2019.1".
  - Subsequent releases will be called "2019.2", "2019.3" etc.
3. Revisions will overwrite an existing installation  
Example: Cutting PowerPac 2019.2 will upgrade (overwrite) 2019.1
4. Versions can be installed side-by-side  
Example: Cutting PowerPac 2019.1 and Cutting PowerPac 2020.1 (not yet released) can be installed side-by-side

---

**Changes in Robot Studio licensing**

**Handling of new orders**

1. RobotStudio 2019.1 is an upgrade to RobotStudio 6.x
  - This release will be bundled with RobotWare 6.09 and supports all released versions of RobotWare 5 and 6.
  - Only one product for order in the order system ("RobotStudio") with the usual price and 3HAC-numbers. Same as before.
2. Old license keys will not work for RobotStudio 2019
3. New license keys will not work on RobotStudio 6.x or 5.x.
4. The internal name of the license key is "RobotStudio 7.x"
5. Subsequent releases of RobotStudio will be compatible w.r.t to the activation key.

**Handling of existing users**

1. Existing users can continue to use their current license and version of RobotStudio until their license key expires.
2. When it does, upgrading to RobotStudio 2019 will be compulsory as only keys for RobotStudio 2019 and later will be generated.

3. Existing users who may want to try the latest RobotStudio release will receive an e-mail with a new license key for RobotStudio 2019 with the same content and expiration date as their current key.
4. The e-mail will be sent to the currently registered e-mail addresses entered at the time of initial order.

## 7 Technical support

### 7.1 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, see <http://www.abb.com/contacts>.

---

#### Have the following in mind

1. Running the latest version of RobotStudio and Cutting 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 Cutting 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* → *RobotStudio 2022* → *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<sup>®</sup> or WinRAR.

---

#### License support

For license-related questions, please contact the team responsible for license support directly at [softwarefactory\\_support@se.abb.com](mailto:softwarefactory_support@se.abb.com)