

Release Notes

Update instructions.

1. Download the version that matches your version of ESPRIT Edge

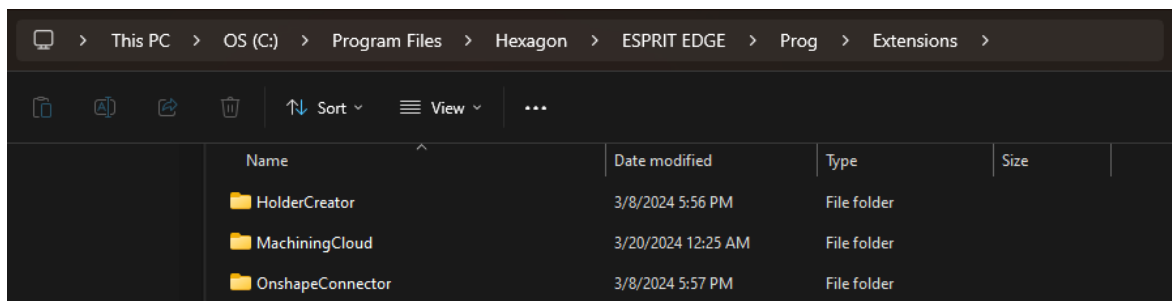


MachiningCloud_2024.2_24.03.0001_Manual.zip

The naming convention is: “MachininCloud_[ESPRIT Edge Major Version]_YY_MM_XXXX.zip”

2. Download Extension .zip
3. Shutdown ESPRIT
4. Unzip and replace the “MachiningCloud” folder in the extension folder: **<Esprit Edge install folder>/Prog/Extensions**

Typically **C:\Program Files\Hexagon\ESPRIT EDGE\Prog\Extensions**



5. Start ESPRIT

Support

Contact support@machiningcloud.com

Version 0016

- Added support for ESPRIT EDGE feature export to MachiningCloud Tool Advisor. The feature export creates a JSON file. Import the file into your job features, then run Tool Advisor on them.

Version 0015

Many bug fixes and improvements:

- getting coordinate systems from correct complexity and fallbacks
- getting MCS CSW from detailed structure to build GDML assembly correctly
- tool mapping, added HIGH_FEED
- added support for LCR RCR CCR -added more function for coordinate system checks and manipulation
- fixed the 2D profile Z origin for custom tools
- increased F&S metric rounding from 4 to 5
- added work around for a crash in a version of ESPRIT 2025 where unmounting and deleting a tool would crash ESPRIT
- Turning: hand of tool healing, better support for Grooving
- For better consistency, changed GetCoordinateSystem to GetReferenceItem, CRP not being a coordinate system
- unit support for F&S -added an easy way to report an issue from main window

Version 0014

- A crash occurs in ESPRIT EDGE 2025.4.2551.3599 Hotfix 1 when replacing a tool. To avoid the crash in ESPRIT EDGE, the tools about to be replaced are not unmounted before being deleted.

Version 0013

- Support for new coordinates system LCR/RCR for Grooving tools. This is a big quality improvement for grooving across all brands.

Version 0012

- Send support requests directly from the ESPRIT Extension dialog.

Version 0011

- Milling
 - MILL_INDEX_HIGH_FEED now generate indexable tools in ESPRIT instead of a bull nose.
- Turning

- Support for new coordinate system “CCR” which represents the Center of the Corner Radius, which is the ESPRIT EDGE reference point. This greatly improves the reliability of the inserts positioning for all ISO turning tools.
- Support for new coordinate systems “LCR”, “RCR” which represent the LEFT and RIGHT corners of grooving inserts. This will ensure good positioning of Grooving inserts.
- Turning GROOVE_ONEDGE and THREAD_ONEDGE generate a TopNotch tool even for non-60 or 55 degrees inserts.
- Better property mapping for Grooving inserts
- Support for any orientation for turning TopNotch tools
- Feeds and Speeds:
 - Comments in the ESPRIT tool now support importing the F&S in Inch

Version 001

- Bug fixes

Version 0009

- Users can now override property values from the extension dialog.
- Improved property recovery for drilling tools
- Support for multi brand assemblies in Feeds and Speed connection

Version 0008

- Automatic version update check
- Feeds and Speeds integration
 - Manual import via the copy to clipboard button in the app
 - API integration when using a MachiningCloud tool
- Fixed Thread Angle for Turning threading inserts
- Improved holder orientation with some ISCAR grooving tools
- Fixed an inch import issue with some tool shifts.

Version 0007

- Improved warning messages when importing Turning tools with irregular insert. A simple warning telling the user to pay attention the ESPRIT EDGE insert instead of an “unsupported tool” and use custom tool message.
- Improved Grooving tool control point location. Top Notch are still a hit or miss where you might have to adjust the tool shift by the insert half width or full width.
- Added mapping for insert hand for grooving, top notch and laydown inserts.
- Added EPSR (insert angle) recovery when the insert shape is identified and IC and L are provided

- Added a toolshift.Y correction when the manufacturer provide a incorrect HF or HTA value that causes the insert to not be in the turning plane. Typically toolshift.Y should be 0 in order for the insert to be in the turning plane.
- Added a check and correction for insert E value being too big. This happens with some manufacturers where the E value provided was 9998mm.
- Added a inch/mm property value check. If a value is 0 in one unit and not 0 in the other unit, the extension will correct it. It is happening for some IMC group tools.

Version 0006

- Major change when it comes to Tool Length calculation. V0006 now calculates the tool length using the STP assembly whereas previous versions were using ISO properties.
- Fixed Insert Width property mapping for Indexable End Mill
- Fixed Tool Angle property mapping for chamfer mill (previously hardcoded to 0)
- Many drilling fix including:
 - SIG calculation when PL and DC are available
 - Fixed Indexable drill tool length which now takes the insert blade length into account
- Lead Angle is now mapped to PSIR for end mills
- Indexable Chamber Mill now map the smallest diameter to the tip diameter
- Added “LE” in the indexable End Mill mapping for the insert length

Version 0005:

- **VERY IMPORTANT:** Starting with the May 2024 release of MachiningCloud the ESPRIT export will now use 2 buttons for ESPRIT and ESPRIT EDGE. ESPRIT EDGE users need to export to ESPRIT EDGE.
Previous versions of the extension will display an error message if you try to open a zip file targeted for the exact name “ESPRIT”.
- Attempting to import a GDML file will display a warning showing how to use those files. Previously it would just fail without any tips.

Version 0004:

- Added support for Grooving, TopNotch, Laydown tools.
MachiningCloud tools are mapped to the ESPRIT tools.
Inserts are mounted on the ISO defined control point.
Inserts properties are mapped to the extent of what is available.
- An option to mount imported tools to first available station has been added. Previously tools would always be imported as unmounted.
- Localization improvements.
- Updated ToolType mapping.

Version 0003:

- Fixed an issue causing single adapter imports to not create the GDML adapter at the same location as CSW.
- The version is displayed in the main window.
- A button to quickly access the download page has been added.
- An adjustment for the tool length of thread milling has been added so that the length reaches half a thread.

Version 0002:

- Assemblies now use the "DetailedStructure".
 - Tools now always use the 3D origin as Z=0
 - The Tool Length is now always measured from Z=0 instead of the mounting point. This provides consistency for mounting the same tool in different holders.
- Support for non-linear assemblies (multiple assembly items connected to the same Adapter).
- Fixed issues with Thread Milling

Version 0001:

- Support for inch import; tools are imported in the unit of the document
- Support for ISO Turning
- Support for importing Holders
- Grooving tools currently don't generate an insert but the shanks are imported. One can manually create the insert and position it using Tool Shifts.