



Post Hub Partner upload

User Guide

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Introduction

This document will help for preparing the kits structure before uploading on Siemens Post Hub. The explained specifications in this document are recommended to follow to ensure successful kit upload on Post Hub.

Finally, our goal with Post Hub is to provide the widest and greatest solutions to our customers world-wide and have an outstanding library available where our customers can find the solution they need.

Everyone, but mainly Siemens and our Partners, are allowed to provide the information for a commercial solution or even free solution to Post Hub.

Post Hub and the future development is focused on Post Configurator, means we will only allow Post Configurator Solutions on Post Hub.

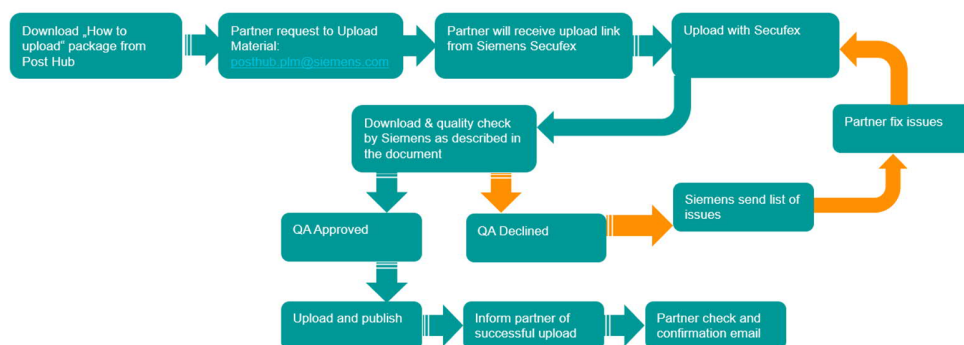
Upload process information

The final upload to Post Hub is provided as a free service from the Siemens Global Post Processor team to ensure quality aspects of the site (look & feel) by the Siemens Secufex system.

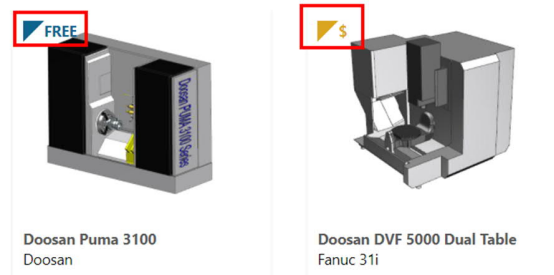
To have an effective process in place Siemens will provide the information how to package the data and Siemens will do a final review before publishing it. If there is anything to change we will contact you with the list of changes.

As a reference see below the complete process:

Upload Process Partner



Difference Paid and Free Solution



1. Free Solution



The free version means it's completely free for every user of Post Hub and can be directly installed within NX without any restrictions for the NX user. The provided solution is tested and it's close to production ready. We recommend adding a disclaimer in those cases in the post processor output to avoid any legal implications.

```
(*****)
(* Before using the generated output of this post processor, *)
(* you have to make sure it fits your machine and setup. *)
(* The author of this post processor is not liable for any damages *)
(* or harm resulting of insufficient or incorrect *)
(* validation or customization of this post processor or its output.*)
(*****)
00001
```

2. Paid Solution

The Paid Solution means the customer cannot directly download the solution and have to contact the author of the solution for a demo version or finally to buy the solution. Paid solutions are identified by the \$-character on the top left corner and the filter settings on Post Hub.



Those solutions need a documentation, flyer, key information and sample NC code, but it's not needed to upload the full solution to Post Hub. It's more the advertising aspect.

Solution preparation Free Download

If you plan to extend the Post Hub from your side with additional free content for everyone a package contains at minimum:

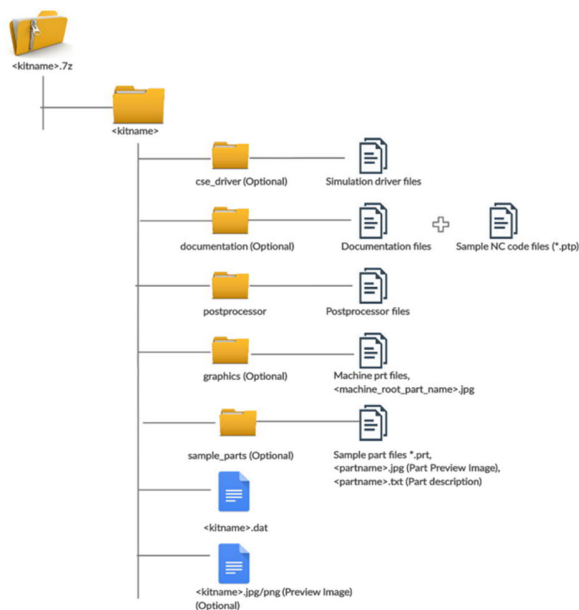
- Documentation/ Marketing Flyer
- NC sample file
- Acceptance Part file
- Postprocessor based on Post Configurator -> can be encrypted
- Preview Picture
- Empty dat-file
- Excel file filled out with required information

Optional Items:

- Graphics
- CSE driver
- MTK-file
- Any additional item/ documentation
- Templates/ .pax

1. Kit structure preparation

Refer to below picture to build the right structure. As mentioned above please take care of the mandatory information which are needed for a successful upload.



2. Naming Convention

The kit name must be unique to store in our database on Post Hub. This is affecting the uploaded kit name from the structure and the final kit name visible on Post Hub. Because Siemens want to ensure everyone can upload, even if it's the same machine tool already exists on Post Hub follow the naming convention:

For the package itself:

Manufacturer_ExactMachine_MachineType_Kinematic_controller_PartnerName

e.g.

Grob_Gx50_Millturn_TTAB_S840D_PartnerName

e.g. Kinematic definition:

TTAB – Dual Table A & B

HTAB – Head Table A & B

HHAC – Head Head A & C

Etc.....

The solution name must be used for the .dat, .png and the postprocessor name too.

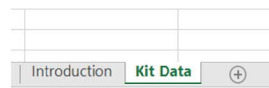
As a reference you can download the Grob kit to see the structure from Post Hub.



| Name | Größe | Gepackte G... | Geände |
|-----------------------------------|------------|---------------|---------|
| sample_parts | 12 523 650 | 3 389 827 | 2020-04 |
| postprocessor | 2 884 201 | 947 736 | 2020-04 |
| graphics | 1 841 386 | 1 014 961 | 2020-04 |
| documentation | 19 700 999 | 6 765 254 | 2020-04 |
| cse_driver | 2 288 918 | 1 316 591 | 2020-04 |
| Grob_Gx50_Millturn_TTAB_S840D.png | 337 037 | 329 840 | 2020-04 |
| Grob_Gx50_Millturn_TTAB_S840D.dat | 403 | 150 | 2020-04 |

3. Filling out the Excel

In this step all needed information for the visible items must be filled in. Open the provided kitinfo.xlsx and switch to the Kit Data Tab. Additional information for packaging can be found under the Introduction Tab.



| Grob G350 Millturn Dual Table AB PartnerName | | | | | | | | |
|--|---------------------------|-----------------------|-------------------|----------------------|------|------|--------------------------|------------------------|
| A | B | C | D | E | F | G | H | I |
| Sr.No | Kit Name | Author | Controller Family | Machine Manufacturer | Axes | Unit | Manufacturing Technology | Build Date(YYYY-MM-DD) |
| 1 | Millturn Dual Table AB Pa | Partner/ Company Name | Sinumerik 840D | Grob | 5 | Both | MillTurn | 2021-07-13 |

Sr. No: Number, typically starting with 1

Kit Name:

This is the visible name on Post Hub and used for the free text search. Naming convention is similar to the package name and including the partner name to be unique, e.g.:

Grob G350 Millturn Dual Table AB – Partner/Company Name



Author: Company/ partner name

Controller Family: Dropdown menu, select controller. In case it's not in the list please contact us and we will be able to extend the list

Machine Manufacturer: Dropdown menu, select Manufacturer. In case it's not in the list it's also possible to use the Generic entry or as before for the controllers let us know and Siemens can extend the kit.

Axes: Enter number of Axes

Unit: If the solution is designed for both units use the both dropdown option, in other cases just use the metric the solution is developed for.

Manufacturing Technology: Select from Dropdown. If not matching use other.

Build Date: Visible on Post Hub, use the current date when creating the package

| Kinematic configuration | Description | Machine Root Part Name | Pricing | Supported Version | Author Email Address | Video Link | Zip Name |
|-------------------------|-------------|------------------------|---------|-------------------|--|------------|-----------------------------|
| Dual Table | Mandatory | | Free | NX1926 and onward | contact@email | | name_of_the packaged zip/7z |

Kinematic configuration: Select from the drop-down menu.

Description: Short description of the provided solution. Can be contain high level kinematic description. It's recommended to include the "For further information see documentation"

Machine Root Part Name: not needed and keep empty

Pricing: This will control the behavior if the solution can be downloaded directly. In case of Free select Free.

Supported Version: Version of NX for working solution. It can be a specific one or e.g. "NX1953 and onward" if multiple versions are supported.

Author Email Address: This is the contact email for the customers if they want to reach out to the author. Our recommendation is to have a general one in place, not pointing to a specific person

Video Link: You can include any additional link, e.g. to You Tube to represent the solution. This is new released since beginning of July 2021

Zip/7z Name: Name of the package as described in chapter 1 (Kit structure preparation)

Solution preparation Paid



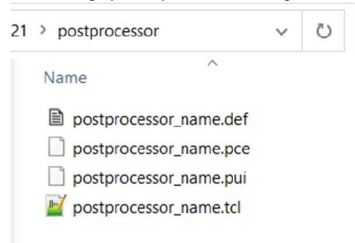
The paid solution cannot be downloaded directly and the customer has to contact the author via email.

Steps are similar to the Free solution but instead of using the Free for Pricing use the Paid.

In case of providing a Paid solution the post processor can be a dummy post processor, e.g. just an empty pui-file with the package name. This is used to verify if the package is complete for upload.

Mandatory package content Paid solution

- Documentation/ Marketing Flyer
- NC sample file
- Dummy postprocessor, just an empty tcl, def, pce & pui-file with the package name is enough



- Preview Picture
- Empty dat-file
- Excel file filled out with required information

Optional Items:

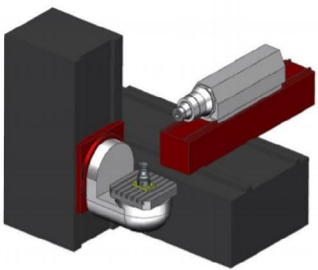
- Any additional item/ documentation

Note: Also the Paid solutions are only allowed to be based on Post Configurator!

If Siemens is unsure if really a Post Configurator post processor is provided in the Paid solution we will contact you for validation.

Documentation & Preview Picture

Every solution provided on Post Hub needs a documentation or Marketing flyer. As a reference you can take a look into the existing ones from Post Hub (e.g. Grob Gx50)



| General Information | |
|---------------------|---|
| Machine mode | MILL_TURN |
| Machine type | 5_axis_dual_table |
| Controller name | Sinumerik 840D |
| Home position | Metric/Inch: X=-7/-0,275 Y=624,32/24,579 Z=607,5/23,5 |
| Unit | PART |

| Controller Capabilities | |
|-------------------------|---------------|
| Plane output supported | ALL_EXCEPT_ZM |
| TCPM output supported | ALL |
| Polar mode supported | OFF |

| Kinematics Setting | |
|---------------------|------------------------------|
| Arc Output Mode | FULL_CIRCLE |
| Spindle Axis Vector | (0.000000,0.000000,1.000000) |
| Linear Axis | (X, Y, Z) |
| 4th Axis | A |
| 5th Axis | B |

| G-Codes | |
|-------------------------|------|
| Rapid motion | G0 |
| Linear motion | G1 |
| Circle motion (CLW) | G2 |
| Circle motion (CCLW) | G3 |
| XY plane | G17 |
| XZ plane | G18 |
| YZ plane | G19 |
| Inch | G700 |
| Metric | G710 |
| Absolute output code | G90 |
| Incremental output code | G91 |

| M-Codes | |
|------------------------------|-----|
| Program stop | M0 |
| Optional program stop | M1 |
| End of program without reset | M2 |
| End of program with reset | M30 |
| Spindle direction (CLW) | M3 |
| Spindle direction (CCLW) | M4 |
| Spindle OFF | M5 |
| Toolchange | M6 |
| Coolant ON | M8 |
| Coolant OFF | M9 |

| Postprocessor Information | |
|---------------------------|-------------------------|
| Name | Grob Gx50 Millturn TTAB |
| Version | 5.3.0 - Release |
| Supported NX version | NX1899 and following |

1. Mandatory Content of documentation:

- General Information of the solution
- Post Configurator Version
- Supported NX Version
- Controller Information
- Region of Sale, this is needed if you want to sell your Solution just in specific countries.

2. Optional Content of documentation:

- Anything you want to add and highlighting special features/ functions
- Siemens recommend to have a 2 sides marketing flyer and detailed documentation

3. Preview Picture (Free and Paid Solutions)



To have a similar look and feel on Post Hub for the customers the pictures must follow specific rules.

- Picture Format: .png
- Picture Size: 880x660 pixels
- White background
- Company Logo in top right corner
- Avoid too much coloring
- No coordinate systems visible
- If creating it from NX model, True Shading, white background, no ground/ floor reflection/ shadow
- If using pictures directly from the machine tool e.g. from the web, take care that you have the rights to use the pictures as defined in the terms of use of Post Hub and Copyright policy.

Additional Information

If you provide a Paid solution, we expect from our partners to be able to deliver a demo version to the customer who request this. This can be time bombed and encrypted with Post Configurator standard functionality.

Document History

| Version | Date | Author | Notes |
|---------|--------------|-----------------|--|
| 1.0 | 13 July 2021 | Thomas Jenensch | Initial version |
| 1.1 | 11 Aug 2021 | Thomas Jenensch | Adding details to dummy post processor and update overview upload process. |