

Startup TOOLS

12.0.1.0

Description of all functions

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1 Preliminary remarks

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2 GENIUS TOOLS License Manager

The GENIUS TOOLS products by INNEO Solutions are licensed using the Flexnet technology by Flexera.

The Flexnet license server has to be installed on a computer with a Windows operating system.

	1.0 M080
Flexnet version	11.17.0.0

System requirements for FlexNet Server

Microsoft Windows 64-bit x64

- Windows 11 / Windows 10
- Windows Server 2025 / Windows Server 2022

It is recommended to run license servers on a server-based operating system.

3 Startup TOOLS

From Startup TOOLS version 6, the product package consists of the following components:

Component / Product	Description
GENIUS TOOLS Starter	Separate product, for requirements see GENIUS TOOLS Starter
GENIUS TOOLS Library & Parameter	Separate products, for requirements see GENIUS TOOLS Library & Parameter
Creo data packages	Can be used with GENIUS TOOLS Starter, available for defined Creo versions. Contain configuration files, template models, symbols, drawing frames and more.
GENIUS TOOLS License Manager	for requirements see GENIUS TOOLS License Manager

Product matrix

For detailed requirements and supported PTC products, please refer to the sections on the individual GENIUS TOOLS products.

	Startup TOOLS		
	7.0	8.0	9.0
GENIUS TOOLS Starter	GTS 7.0	GTS 8.0	GTS 9.0
GENIUS TOOLS Library & Parameter	GENIUS TOOLS Library & Parameter 7.0	GENIUS TOOLS Library & Parameter 8.0	GENIUS TOOLS Library & Parameter 9.0
Data packages	Creo Parametric 4.0-7.0	Creo Parametric 4.0-8.0	Creo Parametric 7.0-9.0

	Startup TOOLS		
	10.0	11.0	12.0
GENIUS TOOLS Starter	GTS 10.0	GTS11.0	GENIUS TOOLS Starter 12.0
GENIUS TOOLS Library & Parameter	GENIUS TOOLS Library & Parameter 10.0	GENIUS TOOLS Library & Parameter 11.0	GENIUS TOOLS Library & Parameter 12.0
Data packages	up to version 10.0.0.0: Creo Parametric 7.0-10.0 as of version 10.0.1.0: Creo Parametric 7.0.2.0-10.0	Creo Parametric 7.0.2.0-11.0	Creo Parametric 10.0-12.0, except version 11.0.0.0

4 GENIUS TOOLS Starter

GENIUS TOOLS Starter is a C# desktop application that allows to manage central configurations for projects of the CAD applications Creo Parametric, Creo Elements/Direct Modeling, Inventor and SolidWorks.

GENIUS TOOLS Starter consists of five software components that can be run on any computer with a Windows operating system. You need a central data share with enough storage space that is accessible for all users via UNC.

These are the component applications:

- GENIUS TOOLS Environment Administrator for managing operating environments
- GENIUS TOOLS Project Configurator for configuring projects in an operating environment
- GENIUS TOOLS Starter App for starting configured projects
- GENIUS TOOLS Config Editor for editing configuration blocks
- GENIUS TOOLS Git Utility for checking in to Git and version management

4.1 Hardware and software requirements

GENIUS TOOLS Starter (GTS) works on all computers that fulfill the requirements for Creo 7.0 to Creo 12.1.

The following Windows server operating systems are supported for GENIUS TOOLS Starter Service: Windows Server 2025 / Windows Server 2022.

The following requirements are the same for installation computers, installation computers and satellites.

	GENIUS TOOLS Starter					
Version	7.0	8.0	9.0	10.0	11.0	12.0
Operating system	64-bit only Windows 10 / 8.1 / 7		64-bit only Windows 11 / 10			

	GENIUS TOOLS Starter		
.NET Framework	4.8 Delivered with Windows 10 -1903 (+8.1; +7) (May have to be installed separately on WIN7/8.1)	4.8 Delivered with Windows 10 -1903	Installation computer: 4.8
.NET	-		8.0 (is included in the GTS software setup)
Minimum screen resolution	X=1280 Y=1024		
Flexnet	INNEO Licence Manager 1.0 M050 (Flexnet) and later		
Caddepot directory (Central storage location with UNC access)	circa 1 to 5 GB for each operating environment		
Cadpool directory (Storage location on the application computer)	Sufficient storage space to set up at least one operating environment		
Data synchronization using GENIUS TOOLS Starter Service	Windows computer, where the Caddepot directory is located and where a service can be installed.		
Operating satellites using GENIUS TOOLS Starter Service	Communication port for REST API on installation computer and satellites. Standard: 8092 Satellites need the same storage space as the installation computer.		

4.2 Supported desktop applications

1. Administrators can create projects with object data and predefined configuration settings for the following CAD applications:

- AutoCAD, AutoCAD Architecture, AutoCAD LT und AutoCAD Mechanical 2021 - 2026
- Creo Elements / Direct Modeling 17.0 - 20.8
- Creo Parametric 7.0 - 12.1
- Inventor 2021 - 2026
- SolidWorks 2020 - 2025

2. The following applications will be automatically detected if they are installed on the user computer (autostart). The latest version will be opened.

- Creo Elements / Direct Drafting
- Creo Illustrate
- Creo Schematics
- Creo View
- Geomagic Design X
- KeyShot
- Mathcad

4.3 Access rights

Caddepot

Read access: All users need read access to the Caddepot for synchronization to work.

Write access: For some functions users need write access to individual directories of an operating environment in the Caddepot.

- GENIUS TOOLS Starter App feedback on the last synchronization
... \serveronly_SyncResults\
- Central user configuration files
... \userdata
- Common databases for GENIUS TOOLS for Creo name generation (has to be configured manually)
... \serveronly\gt_numgen

Warning: This functionality cannot be used offline.

Cadpool

Read / write access: The user needs full write access to the local Cadpool for synchronization to work.

Client computers

Write access: Write access needs to be granted to the following Creo installation directories

- if more than the standard key (e.g. *parametric.psf*) or the synchronization of the start key is to be used: to the directory that contains Creo startkeys,
- if the Creo configuration files *config.sup*, *config.pro*, *creo_parametric_admin_customization.ui* need to be adapted: to the directory ..
\\CommonFiles\\text

Please note: If Creo is installed into the Windows default program directory, you should not make any changes with GENIUS TOOLS Starter App. Install Creo into another directory, for example C:\\ptc.

4.4 PTC Creo support

	GENIUS TOOLS Starter				
	8.0	9.0	10.0	11.0	12.0
Creo Parametric 8.0	X	X	X	X	X
Creo Parametric 9.0	–	X	X	X	X
Creo Parametric 10.0	–	–	X	X	X
Creo Parametric 11.0	–	–	–	X	X
Creo Parametric 12.0	–	–	–	–	X

4.5 PTC Windchill support

GENIUS TOOLS Starter supports the Windchill versions that work with the supported PTC Creo versions. Refer to the Matrix at PTC for exact weekly versions.

CAD	PLM
Creo Parametric 4.0	Windchill 10.2 – 12.0
Creo Parametric 5.0	Windchill 11.0 – 11.1
Creo Parametric 6.0	Windchill 11.0 – 11.2
Creo Parametric 7.0	Windchill 11.1 – 12.x
Creo Parametric 8.0	Windchill 11.1 – 12.x
Creo Parametric 9.0	Windchill 11.1 – 12.x
Creo Parametric 10.0	Windchill 12.x
Creo Parametric 11.0	Windchill 12.x
Creo Parametric 12.0	Windchill 13.x

5 GENIUS TOOLS Library & Parameter

GENIUS TOOLS Library and GENIUS TOOLS Parameter are add-on applications for Creo Parametric. They are separately available products since version 6.

PTC Creo support

	GENIUS TOOLS Library & Parameter					
	7.0	8.0	9.0	10.0	11.0	12.0
Creo Parametric 4.0	X	X	–	–	–	–
Creo Parametric 5.0	X	X	–	–	–	–
Creo Parametric 6.0	X	X	–	–	–	–
Creo Parametric 7.0	X	X	X	X / – ¹	X / – ¹	–
Creo Parametric 8.0	X	X	X	X	X	–
Creo Parametric 9.0	X	X	X	X	X	–
Creo Parametric 10.0	X	X	X	X	X	X
Creo Parametric 11.0	X	X	X	X	X	X
Creo Parametric 12.0	X	X	X	X	X	X

¹As of version 10.0.1.0, support for PTC Creo versions 7.0.0.0 and 7.0.1.0 is discontinued.

PTC Windchill support

The following functionality can be configured to work with PTC Windchill.

GENIUS TOOLS Library & Parameter (all modules)

- GENIUS TOOLS Name Generator
 - version 6.0-12.0 with Creo, native
- Open or create drawing (6.0-12.0)
 - REST API
- JavaScript (6.0-12.0)
 - REST API

GENIUS TOOLS Parameter

- GT Assembly Report (6.0-12.0)
- REST API

GENIUS TOOLS Library

- GT Library Data Importer (6.0-12.0)
- REST API

Windchill prerequisites

All REST functions require Windchill 11.0 or later with CPS 06.

6 GENIUS TOOLS MBD for ISO GPS

GENIUS TOOLS MBD for ISO GPS is a Creo Parametric add-on application that supports function-oriented design and specification in 3D.

PTC Creo-Support

	GENIUS TOOLS MBD for ISO GPS	
	11.0	12.0
Creo Parametric 10.0*	X	X
Creo Parametric 11.0	X	X
Creo Parametric 12.0	–	X

* The table functions in Creo are only available from version 11.0.

PTC Windchill-Support

GENIUS TOOLS Starter supports the Windchill versions that work with the supported PTC Creo versions. Refer to the Matrix at PTC for exact weekly versions.

7 GENIUS TOOLS Model Processor

The product line GENIUS TOOLS Model Processor comprises the following products:

- Model Processor Report
- Model Processor Rework
- Model Processor User
- Model Processor Worker Extension

The term *Classic* was introduced in version 12 to label the previously available Model Processor products. The new development of the Model Processor product series, which will be available from July 2025, is labeled *Next Generation* and has both the familiar and new functions.

PTC Creo support

The products of the product line GENIUS TOOLS Model Processor support the following versions of Creo Parametric and Windows.

For Model Processor Worker Extension the versions apply for the visualization engine used (creo_view_adapter), not for the PTC Windchill server.

	Model Processor products								
	4.1	5.0	5.7	7.0	8.0	9.0	10.0	11.0	12.0
Wildfire 4.0	32/64 bit	-	-	-	-	-	-	-	-
Wildfire 5.0	32/64 bit	-	-	-	-	-	-	-	-
Creo Parametric 1.0	32/64 bit	-	-	-	-	-	-	-	-
Creo Parametric 2.0	32/64 bit	64 bit ≥ M120	-	-	-	-	-	-	-
Creo Parametric 3.0	-	64 bit	-	-	-	-	-	-	-

Creo Parametric 4.0	-	64 bit	X ≥ M040			-	-	-	-
Creo Parametric 5.0	-	-	X	X	X	-	-	-	-
Creo Parametric 6.0	-	-	-	X	X	-	-	-	-
Creo Parametric 7.0	-	-	-	X	X	X ≥ 7.0.2.0			
Creo Parametric 8.0	-	-	-	-	X	X	X	X	X
Creo Parametric 9.0	-	-	-	-	-	X	X	X	X
Creo Parametric 10.0	-	-	-	-	-	-	X	X	X
Creo Parametric 11.0	-	-	-	-	-	-	-	X	X
Creo Parametric 12.0	-	-	-	-	-	-	-	-	X
Windows XP	X	-	-	-	-	-	-	-	-
Windows 7	X	X	X	X	X	X	X	X	X
Windows 10	-	-	X	X	X	X	X	X	X
Windows 11	-	-	-	-	-	X	X	X	X

PTC Windchill-Support

GENIUS TOOLS Starter supports the Windchill versions that work with the supported PTC Creo versions. Refer to the Matrix at PTC for exact weekly versions.

8 GENIUS TOOLS Model Processor NG

The Model Processor products were redeveloped with version 12 and labeled *Next Generation (NG)*. They have both familiar and new functions.

PTC Creo support

The products of the product line GENIUS TOOLS Model Processor support the following versions of Creo Parametric and Windows.

For Model Processor Worker Extension the versions apply for the visualization engine used (creo_view_adapter), not for the PTC Windchill server.

	Model Processor products
	12.0
Creo Parametric 9.0	X
Creo Parametric 10.0	X
Creo Parametric 11.0	X
Creo Parametric 12.0	X
Windows 10	X
Windows 11	X

PTC Windchill-Support

GENIUS TOOLS Starter supports the Windchill versions that work with the supported PTC Creo versions. Refer to the Matrix at PTC for exact weekly versions.