

Installation Guide

OPEN MIND Software



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1. Scope of delivery

Before starting the installation, please check the product delivered for completeness. The running capability of all OPEN MIND products can be ensured only if the following requirements are in place:

- · Compatible hardware and software
- · Installed dongle driver
- Plugged-in dongle with activated products
- · Installed software

| | Content of the product data media | | Software copy protection | | Licensing | | |
|---|-----------------------------------|----------------------------|--------------------------------|----------------|-----------------------------------|-----------------|--------------|
| | Installa- tion | Installation instruc-tions | Software docu- mentation | Computer ID | Dongle (lo- cal / serv- er) | Activation code | Li- cence |
| <i>hyper</i> MILL for <i>hy-</i> <i>per</i> CAD-S | x | x | X | - | X | x | - |
| hyperMILL for Auto- desk® Inven- tor® | x | x | x | - | x | x | - |
| hyperMILL for SOLID- WORKS | x | x | х | - | x | X | - |
| hyperMILL SHOP View- er | x | х | х | - | x | x | - |
| CAD interfa- ces | x | x | x | - | x | x | - |
| Post Pro- cessors | - | - | x | - | x | x | - |

The activation code is supplied by e-mail.



2. Content of the product data media

- Installation of the CAM program *hyper*MILL (including Toolpath Editor, *hyper*VIEW, OPEN MIND tool database) with *hyper*CAD-S or *hyper*MILL SHOP Viewer as optional components.
- OPEN MIND license manager and codemeter dongle driver (local, server) in *hyper*MILL installation integrated.
- · Installation instructions.
- Software documentation: Documentation is included on the product data media

Postprocessors are provided in a customer-specific manner.



3. Requesting licence data

Software copy protection

OPEN MIND software and CAD interfaces are copy-protected using Codemeter dongles from WIBU Systems. For local licensing, each computer requires a separate dongle. It must be plugged into a USB interface.

Activation code for licence

The licence management can be implemented independently of the production environment. The range of licensed products per dongle can be tailored with the OPEN MIND Licence Manager according to your requirements, for example, by porting 5X functionality to another editor or to the product extension. In such a case, it is not necessary to replace the dongle.

A licence is the right to use OPEN MIND software such as hyperMILL or components.

An activation code allows for one or several licences to be activated or deactivated on a dongle and is not tied to any specific dongle. Activated products on a (randomly selected) dongle are always tied to their activation codes. The activation code is supplied by e-mail.

The purpose of a return is to modify the scope of the OPEN MIND software in use on a dongle, for example, when changing the software package from 'Classic' to 'Expert'. The software package is returned to the activation code and can then be adjusted by OPEN MIND.

The use of a licence server requires a network licence.



4. Install

Overview of the installation process

The installation is always local.

For the CAD-integrated products *hyper*MILL for Autodesk® Inventor® and *hyper*MILL for SOLIDWORKS, a working version of the respective CAD software must have been installed and already started once.



IMPORTANT

The installation requires administrator rights.

Start of the installation

The installation starts automatically. Follow the installation instructions.

In the second step, configure the previously installed *hyper*MILL version using the *hyper*MILL Settings Wizard. For further information, see section *hyper*MILL Settings Wizard.

After the installation process, activate the licences using the Licence Manager. Further information on this can be found in the chapter Licence Manager - Activate and Manage Products.

Installing OPEN MIND software

Install the hyperMILL, hyperCAD-S, hyperMILL SHOP Viewer and OPEN MIND Licence Manager programs:

- 1. Start installation: Call the installation under Products.
- 2. Select language for the installation: Select the language for the installation.
- Licence agreement: Read and accept the terms and conditions of the license agreement and click Next
- 4. Select target folder: Click **Next** to confirm the directory in which the components are to be installed. You will be shown a default path (C:\Program files\OPENMIND) that you can change using the **Change** button.
- 5. Select and install programs: Select the programs to be installed.



IMPORTANT

A simultaneous installation of *hyper*MILL / *hyper*CAD-S and *hyper*MILL SHOP Viewer is not possible. At the time of installation, you can choose whether to use your computer as a CAD/CAM work station or as a *hyper*MILL SHOP Viewer work station. Subsequent selection is possible in the licence manager.

The OPEN MIND Licence Manager must always be installed, however, it can also be installed separately for use as a licence server, for example.

Now click **Install**. Click **Finish** to complete the installation.

The *hyper*MILL Settings Wizard for the second step, the configuration of a *hyper*MILL installation, starts automatically (see "*hyper*MILL Settings Wizard").



5. hyperMILL Settings Wizard

You can use the *hyper*MILL Settings Wizard during *hyper*MILL configuration to define, among other things, the language, measurement system and paths for the files created by *hyper*MILL.

hyperMILL-Settings

Global working space: Specify where the files generated by *hyper*MILL are to be saved. By default, the location is C:\Users\Public\Documents\OPEN MIND. To change this path, click Change and select the required path.

Project paths: If you work with project directories, data generated by *hyper*MILL will be stored here. By default, the location is: C:\Users\Public\Documents\OPEN MIND\Projects.

You can change either setting at any time later in the hyperMILL settings (tab: Application).

Use project paths: The files generated by *hyper*MILL are saved at the previously specified **Project path**.

Language: Set the language for *hyper*MILL.

Measurement system: Specify the measurement system (Metric/Inch) for hyperMILL.

CAD platform: The platforms identified during the installation are displayed. Select the required CAD platform(s). Then click **Next**.

Setup application database project

As part of the configuration, you can create databases according to your requirements:

Import databases from an earlier version: This creates a database project on the basis of an application tool database and application macro database from an earlier version of *hyper*MILL.

Empty database project: This creates a database project with an empty tool and/or macro database.

Demo database project: This creates a database project using the available demo databases, see:

<Installation directory>/Tool Database/<version>/template database/<language>/
demo.db.



NOTE

Please note that the demo data in these tool databases is provided to illustrate the various functions and is not intended for production purposes. OPEN MIND disclaims any liability for damages resulting from the use of demo data in a production environment.

New database project: This creates a database project on the basis of any existing databases in the .mdb and .db formats.



NOTE

Please note that you can change all the directories for macro and tool databases at any time later in the *hyper*MILL settings (tab: **Application**).



You can combine databases from different areas. For example, you can combine an empty macro database and a tool database from an earlier version of *hyper*MILL into one database project. You can change the name of the database project as you wish. Click **Next** when you have completed all the settings.

Apply settings

You will be informed that the settings have been applied. The installation and initial configuration of *hy-per*MILL are complete. Click Close to close the dialog.

Transfer data

You can use the *hyper*MILL Settings Wizard to transfer data and settings from one PC to another PC. This may be necessary

- 1. if a PC was replaced or
- 2. hyperMILL if multiple PCs should have the same settings.

Requirements

The following requirements must be met to transfer data and settings from one PC to another PC:

- · You must be logged in with the same Windows user account used for hyperMILL.
- · The user account requires administrator privileges.
- · All OPEN MIND applications must be closed.
- It is only possible to transfer data between the same *hyper*MILL version.

Export data

Proceed as follows to export data and settings:

 Start the hyperMILL Settings Wizard manually by double-clicking the SettingsWizard.exe file in the installation directory.

Example:

C:\Program Files\OPEN MIND\Settings Wizard\[Versionsnummer]\SettingsWizard.exe.

- 2. Select Export Settings and click Next.
- 3. Enter the path to save the exported data on the **Export Settings** dialogue page. Click **Change** to change the default path. If you have installed multiple versions of *hyper*MILL on your PC, select the version from which the data should be exported under **Version** and click **Next**.
- The next dialogue page shows an overview of the exported data and settings in the hyperMILL Directories, Admin Settings, Databases, Postprocessors and Licence sections. Click Next to start the export.
- 5. Click Close on the last dialogue screen to close the dialogue.

Import data

Proceed as follows to import data and settings:

1. Start the *hyper*MILL Settings Wizard manually by double-clicking the **SettingsWizard.exe** file in the installation directory.

Example:

C:\Program Files\OPEN MIND\Settings Wizard\[Versionsnummer]\SettingsWizard.exe.

2. Select Import Settings and click Next.



- 3. On the **Import Settings** dialogue page, click **Change** and select the previously exported *.omSettings file.
- 4. The next dialogue page shows an overview of the data and settings to be imported in the *hyper*MILL **Directories**, **Admin Settings**, **Databases**, **Postprocessors** and **Licence** sections. Click **Next** to start the import.
- 5. If data with the same name are already present on the target PC, you will be informed of the import details on the last dialogue page. Click **Close** to close the dialogue.

How does data export/import take place?

- Before the import process, all settings and data are stored in a backup file in the following directory: C:\Users\Public\Documents\OPEN MIND\backup\backup.omSettings.
- Existing data with the same name on the target PC will **not** be overwritten during the import process. The data will either be saved as a copy (example: databases) or the import will **not** take place at all (example: postprocessors). Information on the import will be summarised (each section separately) in a text file and saved in the following directory:
 - C:\Users\Public\Documents\OPEN MIND\tmp\Settings Wizard.
- · Local, network and mixed environments are supported.
- · Missing directories are created.
- No user decisions are required.



6. Licence Manager - Activating and managing products

Typical processes

Overview of typical processes during the activation of products:

Table 1. Separate activation

Initial situation

Separate activation on computer with Internet for hyperMILL licence without Internet access

Licensing process



Computer with Internet

- 1. Install the Licence Manager
- 2. Attach dongle to USB
- 3. Start the Licence Manager
- 4. Select local dongle
- 5. Input activation code
- 6. Select and activate products
- 7. Close the Licence Manager
- 8. Remove the dongle





hyperMILLcomputer

- 1. Install OPEN MIND software
- 2. Attach dongle to USB
- 3. Start OPEN MIND software

Table 2. Network licensing

Initial situation

Network licensing for hyperMILL computer with network licence, without Internet access

Licensing process

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Computer with Internet

- 1. Install the Licence Manager
- 2. Attach dongle to USB
- 3. Start the Licence Manager
- 4. Select local dongle
- 5. Input activation code
- 6. Select and activate products with a network licence
- 7. Close the Licence Manager
- 8. Remove the dongle





Licence server

- 1. Install the Licence Manager
- 2. Attach dongle to USB
- 3. Start the Licence Manager
- 4. Select local dongle
- 5. Turn on network server
- 6. Close the Licence Manager





hyperMILLcomputer (client)

- 1. Install OPEN MIND software
- 2. Start the Licence Manager
- 3. Select the licence server
- 4. Turn on and use licence server
- 5. Close the Licence Manager
- 6. Start OPEN MIND software

Checking requirements

- · Prior to the , please check the following points:
- · Is there Internet access?
- Has the OPEN MIND Licence Manager been installed?
- Has a Codemeter dongle been supplied and plugged into a USB interface of the computer?
- Is there an activation code (5x5-digit string of characters)?



When the Licence Manager is installed, the dongle driver is installed automatically.



NOTE

The activation and return of licences or OPEN MIND software products requires an active Internet connection. After the activation, the dongle can be used without an Internet connection.

Process

Start the OPEN MIND Licence Manager. The software can be found on the Start menu under OPEN MIND. Finally, close the Licence Manager and start the OPEN MIND software.



NOTE

The Licence Manager is installed in C:\Program Files\OPEN MIND\License Manager and can be launched using LicenseManager.exe.

Search for and select dongle

The Licence Manager looks for all local dongles and all licence servers on the network. On the **Dongle / Licence server** tab, all **Available Dongles / Servers** are displayed. Select a local dongle or licence server (display of server name and dongle number).

The list shows all products allocated to the selected dongle or server with the following information.

Product name: Display of the products available on the dongle and/or licence server as well as, as a branch view, the users of the products. Click on the product name to display the licensed users.

Expires: Expiry date - after this date, the product can no longer be used.

Maintenance: Expiry date - after this date, updates are no longer possible.

Notes: Display of information on postprocessor and machine model licensing.

When a licence server is used, the following is additionally displayed:

Count: Display of number of products licensed

Used: Display of the currently used number of product licences. If not all licences available are in use, the display will be highlighted in green. If all licences available are in use, the display will be highlighted in red.

If the search does not yield any results, the message 'No active licences found' appears. In this case, plug a dongle into the USB interface or set up a licence server.

If the message 'No active licences found' is displayed or if existing licences are to be managed, switch to the Activation code tab:

Select activation codes

Already existing activation codes are validated automatically and displayed for selection under **Available** activation codes in the Activation code tab. Use **Add activation code**to add a new activation code.





NOTE

The complete activation code can be copied to the fields in one process via the clip-board. For this purpose, place the cursor in the first field.

Keep your activation codes in a safe place. The codes will also be required to return products, for example, as part of software maintenance.

Please do not interrupt the activation process as this could damage the dongle.

Once the fields have been filled in, a connection to OPEN MIND is established automatically and the activation code is checked.

- Activation code is recognised.
- Error, activation code could not be recognised. Check whether the activation code was entered correctly and that there is an Internet connection, for example, check the firewall settings. If necessary, contact your network administrator. Confirm the successful process with **OK**.

Select the required activation code under **Available activation codes**:

- Remove an entry from the activation codes.
- * Bookmark an activation code as a favourite that is always displayed at the top.
- Reload the activation codes.

On the **Activation code** dialogue page under **Targets**, choose the dongle, whose scope of licensing needs to be changed.

The list displays all allocated products and test licences with status (Not activated) or the dongles activated through them.

Activate or return

Select the required products from the list and click Activate licence and/or Return licence.



NOTE

- Ensure that the relevant dongle is available locally.
- Ensure that the software has been closed before you use Return.

Activate licence allocates the product to the selected local dongle. The dongle number is displayed. If an update is available, the update will be activated.

Return licence deactivates the product on the selected dongle and returns it to the activation code.

If products are to be returned to OPEN MIND, for example, when changing from local licensing to network licensing, proceed as follows:

- 1. On the Activation code tab, select the activation code from Available activation codes.
- 2. The List displays only the products that must be returned.
- 3. Click Return licence.





NOTE

While products still need to be returned to OPEN MIND, the further management of products belonging to the activation code is blocked.

This requires an active Internet connection! A connection to OPEN MIND is established automatically and the changes are implemented.

- Change successful
- Error, change not possible. Check whether an Internet connection is established. Switch to the **Dongle /**Licence server tab and
- reload by clicking on the Activation codes button.

If the error persists, please contact your Support.

Select the required activation code under Available activation codes.

- Removes an entry from the activation codes.
- Bookmarks an activation code as a favourite that is always displayed at the top.
- Reloads the activation codes.

Under Targets, select the dongle, whose scope of licensing needs to be changed.



NOTE

A dongle for a licence server can be managed locally using any OPEN MIND Licence Manager. For this purpose, plug the dongle into the local USB interface.

Network licence and licence server

On the **Options** tab, select the **Use this computer as a licence server** option if the computer is to be used as a licence server on the local network.

To select this option, you must have administrator rights.

Use the **Use licences from a server** option if you want to access a network licence. An available licence server is accessed automatically via **Locate licence server automatically**. Enter a server with its IP address or name manually in **Server name** if the **Use a specific licence server** option is to be used.

To configure these settings, you must have administrator rights.



NOTE

You must start the Licence Manager with administrator rights, for example, using the Windows Run as administrator function. For this purpose, select LicenseManager.exe in the program directory and right-click to open the Windows shortcut menu.



If you are working with network licences, specify a product that is to be started regularly on the computer on the **Start tab under Select base product**. Otherwise, where available and permitted, the local dongle will be evaluated or the most extensive product package available on the network will be started (**Automatic selection**).

You can use **Additional client info** to store a note (for example, phone number and e-mail address) that is displayed for every user when a licence server is used.

Reload on the Dongle/Licence server tab starts a new search for available dongles and licence servers. Group list by users sorts the list of products in such a way that the products currently in use are shown as being allocated to the users. The status bar displays information on the settings of the local computer.

Proxy authentication

If you use an Internet proxy with authentication in your company, on the **Options** tab you must enter the **User name** and **Password** for the proxy in order to activate the licences.

Afterwards, you can log in using the **Logon to proxy** button. On successful login, the **user name** and **password** are locked for editing and the **Activation code** tab of the Licence Manager is unlocked.

When an Internet proxy with authentication is used, the activation codes are not stored on the system and are also not loaded when the **Licence Manager** is started. They must be entered separately each time a licence is changed.

Specify warning period

On the **Options** tab, you can use the **Warning period** option to specify how many days in advance you wish to be notified of licences that are going to expire. By default, you will receive a warning 14 days before a licence expires.

To change this setting, you must have administrator rights.

Specify start options

Here, you can configure the standard start behaviour of hyperCAD-S / hyperMILL.

If you do not make a selection, *hyper*CAD-S / *hyper*MILL will always start with the maximum available scope of licensing and provide the maximum available product functionality.

For example, if you want to restrict the use of licences in a network environment, you can select the base products and options here that are used on start-up.



NOTE

If you choose an option, for which you do not have a licence, this option will not be loaded on start-up.

An error message, indicating that this option is not available, will also not appear.



7. Administrator manual

Introduction

This manual details the unattended installation and administrative tasks in relation to *hyper*MILL and *hyper*CAD-S. Installation with the user interface is described in the installation guide.

Silent installation of hyperMILL / hyperCAD-S

Unattended installation can be performed using two methods. It can either be implemented with the set-up.exe or with the individual MSI packages. We recommend using the setup.exe.

In both cases, the product must be configured following installation. The product cannot be started following installation without firstly being configured.

Prior to installing *hyper*MILL, any CAD systems, into which *hyper*MILL should be integrated, are to be installed.

Installation with setup.exe

| Property | Value | Description |
|---------------------|--|--|
| INSTALLDIR | Path | The target path of the installation. The default value is <programs>\OPEN MIND. Subfolders are created automatically.</programs> |
| IS_CAMOB- SERVER | 01 | Default: 0. A parameter controlling recognition of the SHOP Viewer. This can be set for initial installation. |
| /language:LCID | LCID: 1028; 1029; 1031; 1033; 1034; 1036; 1040; 1041; 1042; 1043; 1045; 1046; 1049; 1060; 2052 | Sets a system language for the installation process. Determines the language of the installed help. Additional auxiliary languages must be installed separately. |

| LCID | ISO | HMLANG |
|------|-------|--------------|
| 1028 | CN_TW | chinese_trad |
| 1029 | CZ | czech |
| 1031 | DE | german |
| 1033 | EN | english |
| 1034 | ES | spanish |
| 1036 | FR | french |
| 1040 | IT | italian |
| 1041 | JA | japanese |
| 1042 | КО | korean |



| LCID | ISO | HMLANG |
|------|-------|------------|
| 1043 | NL | dutch |
| 1045 | PL | polish |
| 1046 | PT | portuguese |
| 1049 | RU | russian |
| 1060 | SL | slovenian |
| 2052 | CN_ZH | chinese |

Example:

setup /silent INSTALLDIR="c:\open mind\cam" /language:1031

Installs the license manager and hyperMILL in German in the folder c:\open mind\cam without user interaction.

Further command line options for the $\mathtt{setup.exe}$ can be found online at:

https://helpnet.flexer as of tware.com/installshield 25 help lib/help library/SteSetup exeParam.htm

Installation without setup.exe

In the case of installation without the setup.exe, the system components must be provided manually. hyperMILL and hyperCAD-S use the following system components.

| System compo- nent | Version | Licence Manag- er | <i>hyper</i> MILL | <i>hyper</i> CAD-S |
|--------------------------------|---------------|----------------------|-------------------|--------------------|
| VC-Redist 2005 SP1 x86 | 6.0.2900.2180 | | x | |
| VC-Redist 2005 SP1 x64 | 6.0.2900.2180 | | x | |
| VC-Redist 2008 SP1 x86 | 9.0.30729.17 | | x | |
| VC-Redist 2008 SP1 x64 | 9.0.30729.17 | | x | |
| VC-Redist 2010 SP1 x64 | 10.0.40219.1 | | x | x |
| VC-Redist 2013 Update 1 x86 | 12.0.21005.1 | | x | |
| VC-Redist 2013 Update 1 x64 | 12.0.21005.1 | | x | |
| VC-Redist 2017 x86 | 14.16.27012.6 | | x | |
| VC-Redist 2017 x64 | 14.16.27012.6 | | x | х |



| System compo- nent | Version | Licence Manag- er | <i>hyper</i> MILL | hyperCAD-S |
|--|---------------|----------------------|-------------------|------------|
| Microsoft .NET Framework 3.5 SP1 | | | х | х |
| Microsoft .NET Framework 4.5.1 | | x | x | x |
| Microsoft .NET Framework 4.5.2 | | х | х | х |
| Microsoft .NET Framework 4.6.1 | | х | x | х |
| CodeMeterRun- time | 6.80.3312.500 | x | x | x |

The product is installed following installation of the system components.

- · Licence Manager
- hyperCAD-S
 - Language pack for *hyper*CAD-S
- *hyper*MILL
 - Language pack for *hyper*MILL

The MSI packages support their own properties here.

| Property | Value | Description |
|------------|---------------------------------------|--|
| INSTALLDIR | Path | The target path of the installation. The default value is <programs>\OPEN MIND. Subfolders are created automatically.</programs> |
| HMLANG | Language | English, German, French, Sets the product language. The product starts in this language following installation. |
| SUITE_UI | 01 | Indicates whether automatic product configuration should be started. The default value for this property is 0, whereby automatic configuration is not started. Automatic configuration is guided by a user interface and should not be called in an unattended installation. |
| TRANSFORMS | LCID.mst Example: TRANSFORMS=1033.mst | Transformations (*.mst files) are available for <i>hyper</i> MILL and Licence Manager, which provide language-specific text for start menu entries. The product is offered in these languages. |



| LCID | ISO | HMLANG |
|------|-------|--------------|
| 1028 | CN_TW | chinese_trad |
| 1029 | CZ | czech |
| 1031 | DE | german |
| 1033 | EN | english |
| 1034 | ES | spanish |
| 1036 | FR | french |
| 1040 | IT | italian |
| 1041 | JA | japanese |
| 1042 | ко | korean |
| 1043 | NL | dutch |
| 1045 | PL | polish |
| 1046 | PT | portuguese |
| 1049 | RU | russian |
| 1060 | SL | slovenian |
| 2052 | CN_ZH | chinese |

The configuration must be performed once installation is complete.

Configuration

For the configuration of *hyper*MILL and *hyper*CAD-S, the SettingsService is provided. The Settings-Service is able to transmit the typical configurations from one system to the next. In special cases, manual intervention is required.

The SettingsService

The configuration of the product can be largely automated by means of the SettingsService. For this purpose, the SettingsService recognises a series of command line options with which the required operations are started.

SettingsService.exe [-allswitch|-cadswitch|-import] [<version>|-disable] [-disable|-update] [-defaultdb|-macrodb|-colortable] [filepath]

| -allswitch | Activates/deactivates hyper/MILL in all found and supported CAD platforms. | The version number of the version to be activated is required or -disable. (Specialisations: -tdswitch, -swswitch, -invswitch, -hcswitch available for thinkdesign, , , <i>hyper</i> CAD-S) |
|------------|--|---|
| -cadswitch | Activates the COM interfaces of the <i>hyper</i> CAD-S specified under <version></version> | |

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Example

Initialises the system for the use of *hyper*MILL xx.x in all supported CAD platforms and makes the standard databases for tools and macros plus the standard colour tables available.

| hyperMILL product version | xx.x (internal version) |
|---------------------------|-------------------------|
| 2020.2 | 26.0 |
| 2021.1 | 27.0 |
| 2021.2 | 28.0 |

SettingsService.exe -allswitch xx.x -update -defaultdb -macrodb -colortable

Example

Removes all hyperMILL versions from all supported CAD platforms.

SettingsService.exe -allswitch -disable

Example

Removes hyperMILL xx.x from the supported thinkdesign installations.

SettingsService.exe -tdswitch xx.x -disable

Example

Registers the thumbnail display in Windows Explorer via hyperCAD-S xx.x.

SettingsService.exe -cadswitch xx.x

Example

Imports the settings from a file. The data is imported for the version that the SettingsService installed.

SettingsService.exe -import sample.settings

Registry

There are registry keys that affect the behaviour of *hyper*MILL during installation or the first application start.

Registry keys

- HKEY_LOCAL_MACHINE\SOFTWARE\OPEN MIND
 - common\Configuration\
 - GlobalWorkingSpace (REG_SZ) refers to the global working space.
 - ProjectDirectories (REG_SZ) references the project directories.
 - OMConfig (REG_SZ) refers to the CFG files that are required for licensing.
 - Language (REG_SZ) defines the default language of hyperMILL.
 - TemplateToolDB (REG_SZ) references the tool database that is loaded if the document and application databases failed to load (emergency database).
 - common\<Product Version>\Languages
 - contains the lists of languages that you can select for .hyperMILL



All further registry keys are user-specific and cannot be used during the installation.

Security settings

*hyper*MILL was developed to allow users to work with power user rights. If it becomes necessary to run *hyper*MILL with limited rights, some security settings will have to be adjusted.



8. Hardware / software requirements

OPEN MIND Technologies AG (April 9, 2020)

The installation checks automatically whether a 64-bit program version of the software products can be installed and whether all requirements for the respective variant on your computer have been met. If necessary, any missing but necessary components or programs will be installed automatically.



NOTE

If Microsoft .NET Framework is installed, your system may have to be restarted afterwards

| | hyperMILL for hyperCAD-S | hyperMILL for Autodesk® Inventor® | hyperMILL for SOLIDWORKS |
|---|-----------------------------|-----------------------------------|--------------------------|
| Computer equipment | | | |
| USB connection (min. 2.0) | x | х | x |
| Processor (at least) 4 Cores | Intel Core i5 | Intel Core i5 | Intel Core i5 |
| > 2.2 GHz | | | |
| Processor (recommended) 8 Cores > 4 GHz | Intel Core i9 | Intel Core i9 | Intel Core i9 |
| RAM memory GB (at least) | 16 | 16 | 16 |
| RAM memory GB (recommended) | 32 | 32 | 32 |
| Free disk space (GB) ⁽²⁾ CAD/CAM product | 10 | 10 | 10 |
| OpenGL-compatible graphics card (3) | x | x | x |
| Possible operating systems Windows 10 | х | х | х |

- (1) Component of Autodesk Inventor Series.
- (2) Recommended memory for use of the respective product; with increasing complexity of the machined model, more memory is required.
- (3) Suitable graphics card for CAD/CAM workstation. Recommendation: NVIDIA Quadro with at least 2 GB,

For hyperMILL for Autodesk® Inventor® and hyperMILL for SOLIDWORKS, the recommendations of the respective CAD manufacturer apply.



For *hyper*MILL in *hyper*CAD-S the following applies: correct functioning when using AMD ATI-graphic cards cannot be guaranteed.

*hyper*CAD-S requires a graphic card with an OpenGL-accelerated graphic card driver OpenGL Version 4 or higher. Please consult the OPEN MIND website and the overview of graphic cards and graphic card drivers that are recommended for use with *hyper*CAD-S.



NOTE

The hardware listed there has been automatically tested for use and is being used in day-to-day work. This does not mean that <code>hyperCAD-S</code> can be run only with the hardware recommended. <code>hyperCAD-S</code> should run on any graphic platform with a full implementation of OpenGL.

Windows does not support any OpenGL-accelerated drivers. As a user, you must install a manufacturer's or OEM driver for the direct use of hardware-accelerated OpenGL. These drivers are available from the websites of most graphic hardware manufacturers.



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