

Altair[®] FluxMotor[®] 2022.1

Supervisor

General user information

Altairhyperworks.com

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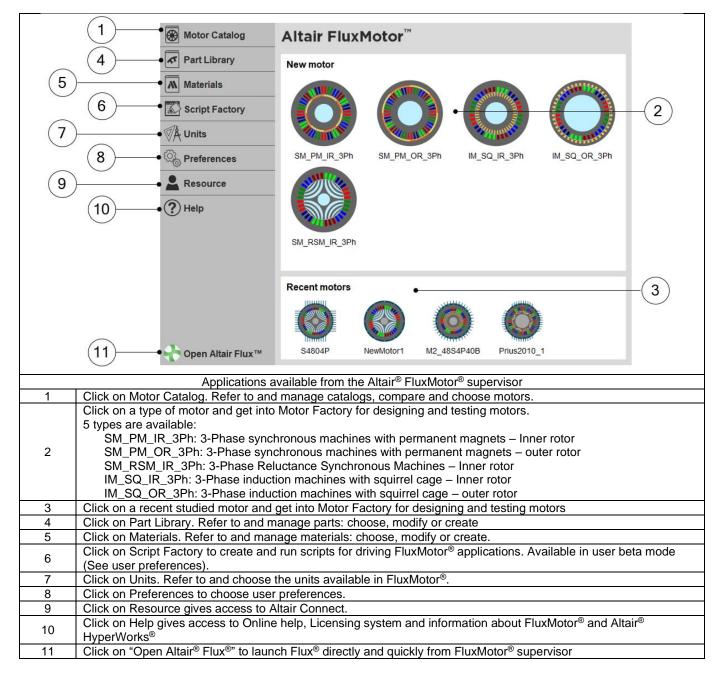
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1 SUPERVISOR OVERVIEW

1.1 Overview

The aim of the supervisor is to group all the needed applications to build and manage the motors. Supervisor is the first dialog the user comes across and it displays all applications used to build, test and compare motors.



Altair® FluxMotor® applications are briefly described in the next chapter.



1.2 Application to access motors

1.2.1 Motor Catalog

Motor Catalog is a **Powerful project management** to refer to and manage catalogs, compare and choose motors

Motor catalog environment allows easy management of motors and projects. An embedded comparator is available. The general data and performances of several machines can be compared thus simplifying the process to choose a machine.

For more information, refer to Motor Catalog user guide.

1.2.2 Motor Factory

With Motor Factory, get into a dedicated space for designing and testing motors.

Designing and testing electrical motors

- The dedicated design environment helps user define machines within minutes.
- Then using a step-by-step process, a dedicated interface will help users to finalize machine design which includes the shaft, rotor, magnets to the slots, winding and housing of the stator.
- The dedicated test environment enables users to assess motor performances
- Standard and relevant test portfolio is available and predefined tests are ready to be performed

For more information, refer to Motor Factory user guide.

1.3 Building blocks of machines

1.3.1 Part Library

Part Factory allows an Effective management of machine parts. Refer to and manage parts: choose, modify or create.

- In Part Library area, libraries are provided containing standard parts.
- Many slots, magnets and bars are available, and all the topologies are parameterized.

For more information, refer to Part Library user guide.

1.3.2 Part Factory

Part Factory can be accessed from Part Library. Get into a dedicated space for visualizing, modifying or creating parts.

- Customization of parts (slots, magnets)
- Standard parts, slots and magnets are provided, which can be edited and customized for various configurations.

For more information, refer to Part Factory user guide.

1.3.3 Materials

A comprehensive and scalable material database. Refer to and manage materials: choose, modify or create.

- Many typical materials are provided: Lamination, Solid, Magnet, Electrical Conductor, Electrical Insulator and Fluid.
- Users can also create their own materials.

For more information, refer to Materials user guide.

1.4 Miscellaneous functions to manage FluxMotor®

1.4.1 Choice of units

Refer to and choose the units available in FluxMotor[®]. For additional information, refer to chapter below.

1.4.2 Resource

To get into Altair Connect. Access Altair support and information with your Altair account.

1.4.3 User preferences

Choose user preferences. For additional information, refer to chapter below.

1.4.4 Help

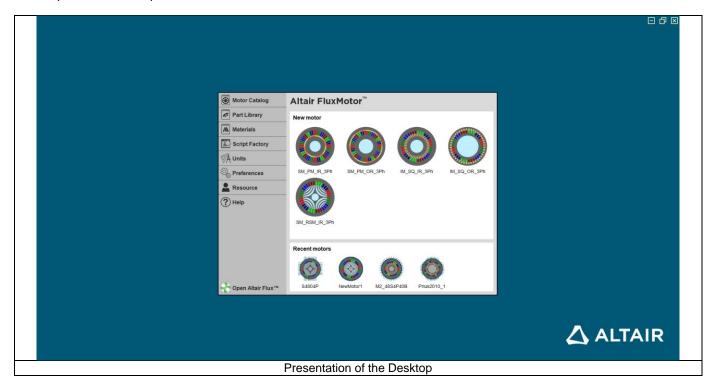
This gives access to Online help, Licensing system and information about FluxMotor® and Altair® HyperWorks®



p. 5

1.5 Desktop of Altair[®] FluxMotor[®]

The desktop contains the Supervisor.



The supervisor (desktop) of FluxMotor[®] can be reduced by using functions (buttons) on the right top part of the screen.

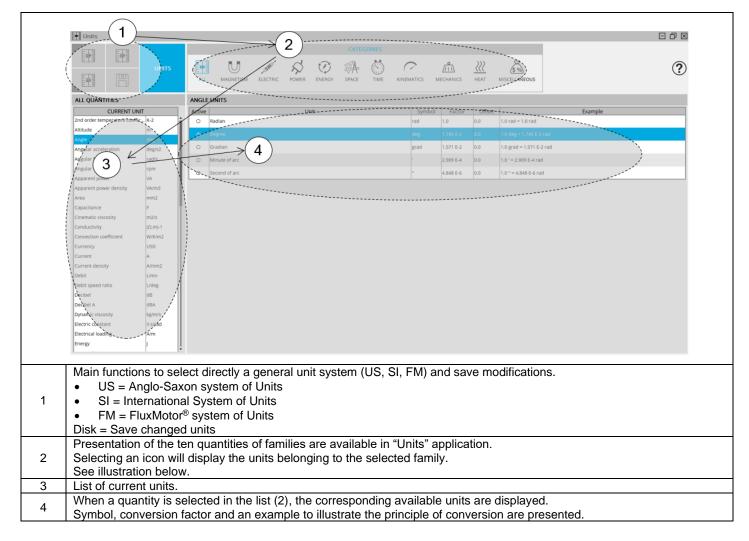
	Image: Series Factory Altair FluxMotor" Image: Series Factory Image: Series Factory Image: Series Factory Image: Series Factory
	Download on Altair One - Marketplace Licensing About Altair FluxMotor™ About Altair Simulation Products
	Miscellaneous functions of FluxMotor [®] Desktop
1	Management of the size of FluxMotor [®] Desktop.
2	Expand the menu "Help" to access to "Online help", FluxMotor [®] Forum, Altair One -Marketplace, "Licensing" system and information about FluxMotor [®] and Altair [®] HyperWorks [®] Note: The section "About FluxMotor [®] " allows finding the reference of the current version of FluxMotor [®] .



2 UNITS

2.1 Overview

To get into "Units" application from the supervisor, click on "Units" button. The "Units" area is shown on the picture below. It is composed of four main zones.





Note: In Units application, the icons at the top part of the screen display the available units in different categories. See illustration below.

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2.2 How to choose and save a unit?

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	gnetic flux den:	sity	т	0	Kiloampere per met	er						kA/m	1 000.0	0.0	1.0 kA/m = 1 000.0	A/m			
Perm	meability		H/m	•	Ampere per meter							A/m	1.0	0.0	1.0 A/m = 1.0 A/m				
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				0	Kiloampere per inch	1						kA/in	39 370.079	0.0	1.0 kA/in = 39 370.)79 A/m			
				0	Ampere per inch							A/in	39.37	0.0	1.0 A/in = 39.37 A/i	n			
1 2 3 4	Seleo Seleo Save	ct the	e physica e unit whi e new un t changes	ch is it. s.	s to be m	odified	d.												
5	It is p or US	poss	ible to se	lect	the units	propo	osed	by Flu	ихМо	tor®	(FM) or s	elect o	ne of	the two	intern	national sy	/stem of	units (S

2.3 Expanding the menu in Units

This menu gives access to system functions like help documentation and Exit.

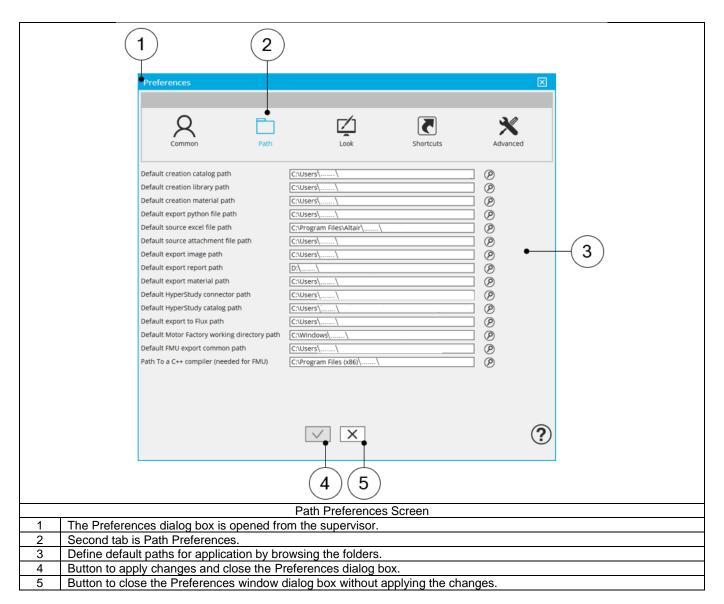
	Image: term Image: term Image: term Image: term
1	Expand the menu in the top left corner in Units dialog box.
2	List of actions available: • Save (=Save unit changes) • About • Debug mode • Help to open the online help documentation directly on the chapter dealing with Units • Exit for closing Units dialog box
\times	Closing Units dialog box is also possible by using this icon on the top right corner of the Units dialog box.
*	Closing Units dialog box is also possible by using the shortcut CTRL-Q defined in the user preferences. For more information, refer to the chapter "Preferences" below.

3 PREFERENCES

3.1 Common Preferences

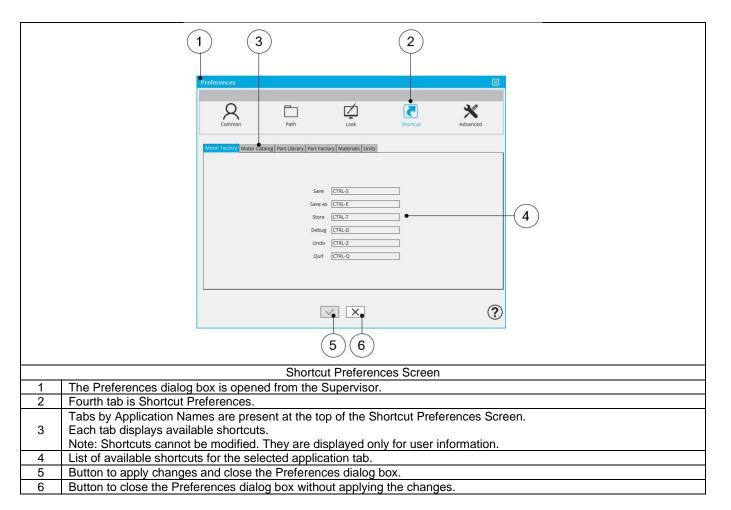
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				√• ו		?	
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				nmon Preference	es screen		
1		es dialog box is		ne Supervisor.			
2		mmon Preferend uage used in Flu		cation: only Eng	ilieh ie availahle	in the current w	ersion
4		imals to conside					
							upervisor, it is possible
5		a new motor or					
	The number of	most recently u	sed motors av	ailable must be	defined in the u	user preferences	s. The default value is 5.
6						ie same time. "Y	/es" is set by default.
7		changes and c					
8	Button to close	the Preference	s dialog box w	ithout applying	the changes.		





3.3 Look Preferences

	Preferred took and fiel Genrion Reth Low Subtroats Advanced
	67
	Look Preferences Screen
1	The Preferences dialog box is opened from the Supervisor.
2	Third tab is Look Preferences.
3	Two types of look and feel are available in the current version: Dark and Light.
4	Graphic background color changes for the Motor Factory and Part Factory areas.
5	Maximum magnitude of the displayed flux density for visualizing the flux density into the magnetic circuit. The default value is 2.5 Tesla.
6	Button to apply changes and close the Preferences dialog box.
7	Button to close the Preferences dialog box without applying the changes.



3.5 Advanced Preferences

3.5.1 Presentation

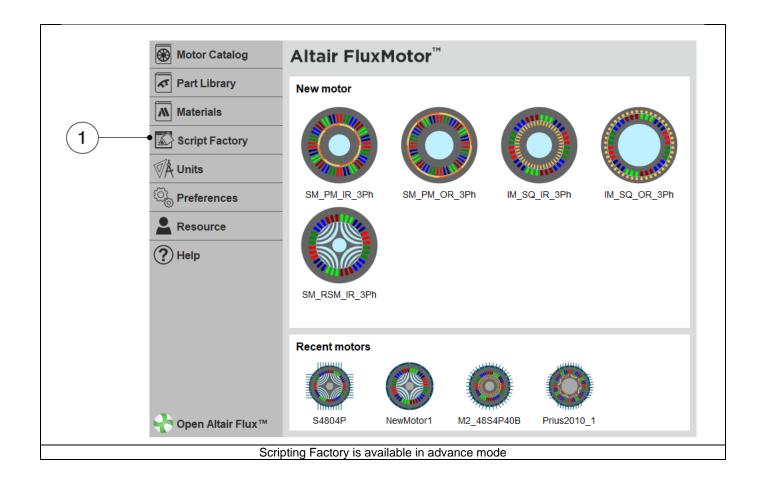
	1 2
	Preferences
	Common Path Look Shortcuts Advanced
	Altair FluxMotor ^{an} User Level Standard Logger level STANDARD Flux simulations running mode Parallel No. simultaneous « Flux.exe » running 6 Setting memory allocation Max. "Motor Factory" memory (MB) 512 Max. "Part Library" memory (MB) 256 Max. "Flux2D software" allocated memory (MB) 1536 Max. "Flux2D software" allocated memory (MB)
	10 9
	Advanced Preferences Screen
1	The Preferences dialog box is opened from the supervisor. Fifth tab is Advanced Preferences.
	FluxMotor [®] User Level: Standard or Beta. By default, the user level is Standard.
3	Note: In Beta Level features non-entirely qualified are available for testing.
4	Logger level: STANDARD, DEBUG, SEVERE.
4	Logger level represents the level of information given by log files provided by FluxMotor [®] .
5	Process of computation can be launched in Serial or in Parallel. By default, they are running in Parallel mode. However, in case of a big model and/or if the computer does not have enough dynamic memory space you should select the Serial mode. In that case, the computation time will be longer.
6	Number of simultaneous « Flux.exe » running. This can help when the memory capability of the computer is limited.
7	Setting memory allocation: Yes / No. In case of answer "Yes" the maximum memory allocation for applications can be defined by user.
8	Maximum memory allocation for applications. It is recommended to keep default values as far as possible. In case of a trouble consult our support team. These fields are in write mode in advanced FluxMotor [®] user level.
9	Button to close the Preferences dialog box without applying the changes.
10	Button to apply changes and close the Preferences dialog box.



3.5.2 Warning:

When FluxMotor® User Level is "Beta", features non-entirely qualified tests which are available for testing.

In the current version, only the Scripting Factory is concerned by this mode.





4.1 How to report an error?

When a bug or a problem occurs when using FluxMotor[®] (whatever is the considered application), a dedicated panel is automatically provided for helping the users to report this error.

It allows creating a zip file which stores all the information needed for FluxMotor[®] support team to understand and solve (as far as possible) the problem.

	1 2 5
Erro	MESSAGE
Fail t	o update the motor structural data
Ticke	: Number : #100.13.31 #12 #100.13.158 Zip building
	Zip archive name (.zip)* NewMotor1_error_1705182055● 6 Zip archive path * D:\Report_a_pb ● Ø ☑ Add Motor project to archive 7
	Build Cancel
	✓ ✓
	3 4
1	Process to report a trouble This panel automatically is opened when an error or a bug is occurring.
2	A short message is displayed to explain the origin of the problem.
3	Button to close the panel after reading the message.
4	Button to create the zip file before sending it to the support team.
5	Dialog box to define the zip file.
6	Give a name to the zip file.
7	Store the zip file in a folder.
8	Button to finalize the building of the zip file.
9	Button to close the dialog box without creating the zip file.
10	Resulting zip file automatically built and ready to be sent to the support team.



5 ALTAIR FLUXMOTOR[®] LICENSING

5.1 Altair[®] HyperWorks[®]

5.1.1 Network server license activation

Prerequisites: You will need the port@host information, which can be obtained from your company's system administrator, to connect to an existing license server. They will first need to set up and install the license server. Please, refer to section 5 of the Altair License Management System guide for more details.

1) Launch the software. If you do not have a valid license on your workstation, the License setup window will open automatically, and the license status will show as "NON-ACTIVATED".

License setup [
Offline Mode Disabled
HOST ON ALTAIR ONE
Status NON ACTIVATED 🚫
Username
Password
Proxy settings
Proxy settings
LOCAL SERVER
Status NON ACTIVATED 💋 🕒
License Server
LOCAL FILE
Status NON ACTIVATED
License File
ALTAIR_LICENSE_PATH not set
No license
License log
\rightarrow
(2)
Figure 1 – License status NON-AC
I Igule I - LICENSE Status NON-AC

- Enter the port@host information for the License Server (Mark 1 Figure 1 License status NON-ACTIVATED).. Example: <u>6200@192.168.100.5</u>
- Click on the apply button (Mark 2 Figure 1 License status NON-ACTIVATED). The status changes to "ACTIVATED" when the license is validated, or you will receive an error message if unsuccessful.

Warning: This license activation will be available only during the FluxMotor[®] session. After the closure of FluxMotor[®], you will have to do this action again.

Please refer to section 5.1.3 (Specifying a license with a Windows environment variable) if you want to save your license registration.

Tip: You can also use an environment variable to specify a license file.



Certain applications will have standalone licenses available from your reseller. In this case, you will need to specify your license file in the HyperWorks section of the License setup window.

Prerequisites: Obtain a valid license file from your Altair account manager.

- 1) Once your license file has been emailed to you, copy it to your preferred location on your workstation.
- Launch the software. If you do not have a valid license on your workstation, the License Setup window will open automatically, and the license status will show as "NON-ACTIVATED".

		-	
License setup	\mathbf{X}	4	
Offline Mode	 Disabled 		
HOST ON ALTAIR ONE		l.	
Status NON ACTIVATED			
Username			
Password			
Proxy settings			
LOCAL SERVER		l.	
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License File	Ø	\smile	
ALTAIR_LICENSE_PATH not set			
No	o license		
License log			
	× (?)		
	\mathbf{i}		
(2))		
\bigcirc	·		
Figure 2 Lisses			
Figure 2 – Licens	se status NON-ACT	IVATED	

- Click on the browser button (Mark 1 Figure 2 License status NON-ACTIVATED) and browse to the location of the License File.
- 4) Click on the apply button (Mark 2 Figure 2 License status NON-ACTIVATED). The status will change to ACTIVATED when the license is validated, or you will receive an error message if unsuccessful.

Warning: The license activation will be available only during the FluxMotor[®] session. After the closing of FluxMotor[®] session, the license must be reactivated for using FluxMotor[®]. Please, refer to the section 5.1.3 (Specifying a license with a Windows environment variable) for specifying a license with a windows environment variable.

Tip: You can also use an environment variable to specify a license file.



5.1.3 Specifying a license with a Windows environment variable

Some companies prefer to use environment variables for licensing. When setting up an environment variable, you can specify a singleuser license file on your local machine or a network server license. You can also point to multiple files, locally or on a server, with the environment variable.

1) Click the Windows Start menu and navigate to System Properties.

Tip: In Windows 10, type "env" and then select Edit the System Environment Variables.

	System Properties	×
	Computer Name Hardware Advanced System Protection Remote	
	You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings	
	User Profiles Desktop settings related to your sign-in Settings	
	Startup and Recovery System startup, system failure, and debugging information Settings	
	Environment Variables	
	OK Cancel Apply	У
Figure 3 – System	Properties – Definition of Environment variable A	ALTAIR_LICENSE_PATH

- 2) Click the Environment Variables button.
- 3) Under User variables, click New and create a variable named ALTAIR_LICENSE_PATH. If you already have this variable, highlight it and click Edit.
- Set the Variable value to point to the single-user license file or the license server. Enter the complete file path to the license file, for instance:

"C:\Users\name\Documents\licensefile.dat" or enter the port@host for the license server.

Tip: You can use a semicolon to append a value with additional license locations.

5) Click OK



5.2 Altair One

5.2.1 Altair One account license activation

Prerequisites: You must first activate your Altair One account and download the software. If your company uses a proxy server, you will also need the host and port numbers.

1) Launch the software. If you do not have a valid license on your workstation, the License Setup window will open automatically, and the license status will show as Not Activated.

License setup
Offine Mode
HOST ON ALTAIR ONE
Status ACTIVATED 📀 — (1)
Username
Password
Proxy settings
LOCAL SERVER
Status NON ACTIVATED 🚫
License Server
LOCAL FILE
Status NON ACTIVATED 🚫
License File
ALTAIR_LICENSE_PATH not set
License log
ucride log
2
Figure 4 – License via Altair One - Dialog box

- Enter the Username and Password you created for your Altair One account (Mark 1 Figure 4 License via Altair One Dialog box).
- 3) Click on the apply button (Mark 2 Figure 4 License via Altair One Dialog **box**). The status changes to "ACTIVATED" when the license is validated, or you will receive an error message if unsuccessful.
- 4) If your company uses a proxy server, click Proxy Settings, select Use Proxy, and enter the Host and Port numbers.

	Proxy Server	
	Use Proxy	
	Host *	1
	Port * 0	1
	Username	1
	Password]
1-)
L		
Figu	re 5 – Proxy Server Settings - Dialog box	



- 5) If your proxy server requires authentication, click Proxy Server Login and enter a Username and Password.
- 6) Click on the apply button (Mark 1 Figure 5 Proxy Server Settings Dialog box). The status will change to Activated when the license is validated, or you will receive an error message if unsuccessful.

5.2.2 Using Altair One account license in offline

Altair One units can be checked out and used in offline mode for up to two weeks. Each application must be checked out individually.

- 1) Launch the software.
- 2) Select File > Licensing to open the License Setup window.

License setup	
Offline Mode	
HOST ON ALTAIR	ONE
Status ACTIVATED	
Username	
Password	
Proxy settings	
LOCAL SERVER	
Status NON ACTIVATED	
License Server	
LOCAL FILE	
Status NON ACTIVATED	
License File	$\square \square $
ALTAIR_LICENSE_PATH	H not set
License log	
	\checkmark × ?
Figure 6 – L	icense via Altair One – Offline Mode

3) Click the Offline Mode slider (Mark 1 Figure 6 – License via Altair One – Offline Mode).

You may now run the application without an internet connection for up to two weeks. Note that each application must be checked out individually.

4) To check the units back in, click the Online Mode check box again.



The Altair Student Edition license is a <u>node-locked</u> license - a license that will work only on one machine whose Ethernet ID was entered while requesting.

By downloading the software and license file you agree to not use the software for commercial purposes and to not install the software on any corporate machines.

Copy the file to a location that does not change (like a user directory) and set the environment variable ALTAIR_LICENSE_PATH to the location of the license file.

For all information about FluxMotor® Student Edition, please, refer to the following link:

https://altairuniversity.com/altairuniversity-for-students/

