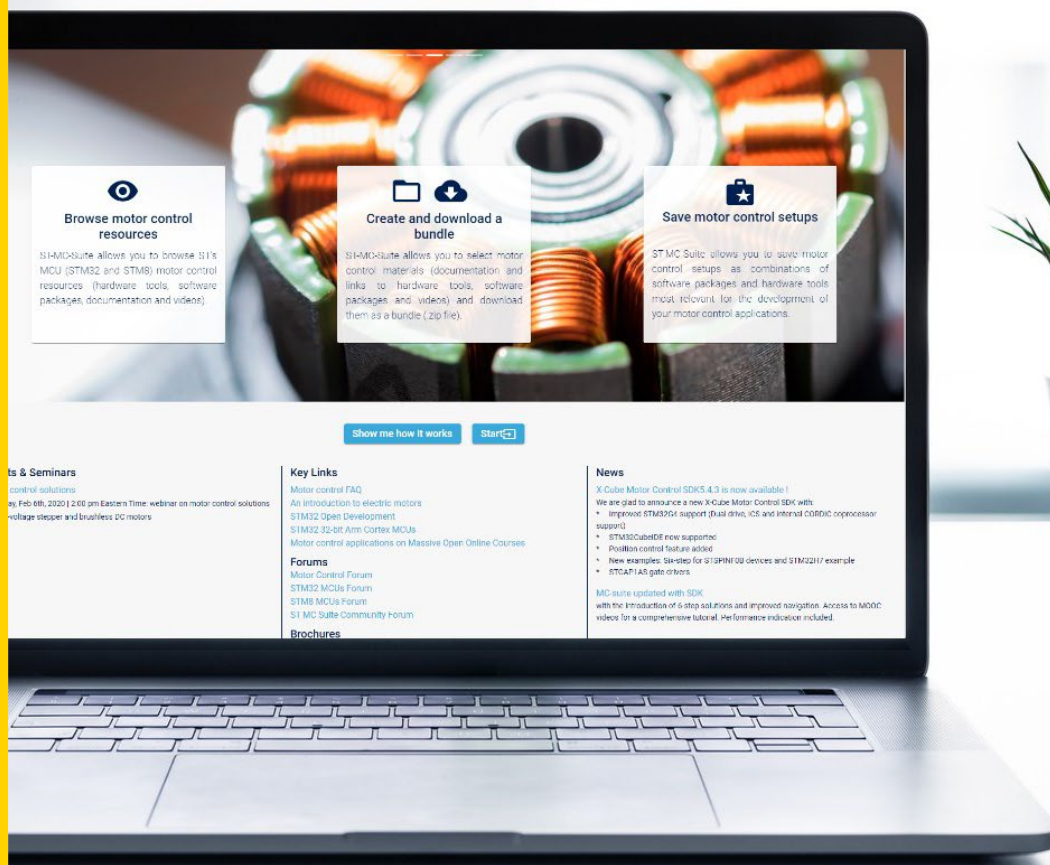




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# ST-MC-SUITE STM32 / STM8 motor control suite

# ST motor control suite

- The [ST Motor Control Suite](#) is an online tool providing everything developers need to create motor control solutions based on the ST MCU ecosystem.
- Browse ST's MCU (STM32 and STM8) motor control development resources (hardware tools, software packages, firmware, documentation, videos, training courses, and more)
- Select motor control development material (documentation and links to hardware tools, software packages and videos) using an intelligent wizard and download them all in a single “bundle” (ZIP file)
- Save your motor control “setups” as combinations of the most relevant software packages and hardware tools for the development of your motor control applications.



# Step-by-step





# ST motor control suite

With the personalized motor control solution, you can define the criteria of your motor control application (motor type and motor control algorithm).

### What are you looking for ?

I am looking for...  
a motor control development environment to shorten my product time to market

---

#### Which Criteria ?

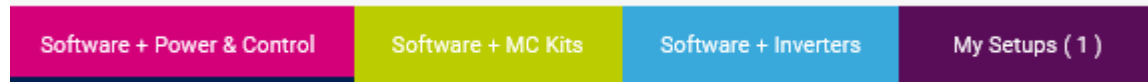
Motor Type  
BLDC / PMSM

Motor Control Algorithm  
Vector Control (FOC)

Close Search

# ST motor control suite

Different available setups:






Select and save your development setup by clicking on “add to setup”.

Embedded Software Packages				
Actions	Name	Description	Ecosystem	
> Add to setup	X-CUBE-MCSDK	PMSM FOC library to drive one or two motors	STM32	

Control Boards					
Actions	Name	Family	Components	Connections	
> Add to setup	NUCLEO-F030R8	STM32F0	STM32F030R8T6	Morpho	
> Add to setup	NUCLEO-F072RB	STM32F0	STM32F072RBT6	Morpho	
> Add to setup	NUCLEO-F302R8	STM32F3	STM32F302R8T6	Morpho	
> Add to setup	NUCLEO-F303RE	STM32F3	STM32F303RET6	Morpho	

# ST motor control suite

Each item of your setup has associated and filterable documents.  
All selected documents will be added directly to your bundle.

Control Boards					
Actions	Name	Family	Components	Connections	
<input type="checkbox"/> <a href="#">Add to setup</a>	NUCLEO-F030R8	STM32F0	STM32F030R8T6	Morpho	
Associated Document(s) ( 0 / 15 selected )					
<input type="checkbox"/>	Description	pdfName	category	version	size
<input type="checkbox"/> 	<a href="#">DB2196 STM32 Nucleo-64 boards</a>	STM32 Nucleo-64 boards	Product Specifications	12.0	461 KB
<input type="checkbox"/> 	<a href="#">TN1235 Overview of ST-LINK derivatives</a>	Overview of ST-LINK derivatives	Technical Notes & Articles	2.0	670 KB
<input type="checkbox"/> 	<a href="#">UM1727 Getting started with STM32 Nucleo board software development tools</a>	Getting started with STM32 Nucleo board software development tools	User Manuals	5.0	2 MB

# ST motor control suite

The ST-MC-SUITE lets you save your setups. Once saved, you get quick access to:

- Purchase boards (redirecting you to the ST website)
- Download software
- Download related PDF files (direct download or option to add it to your bundle)

The screenshot displays the ST-MC-SUITE interface. At the top, there are four colored tabs: 'Software + Power & Control' (pink), 'Software + MC Kits' (yellow-green), 'Software + Inverters' (blue), and 'My Setups ( 1 )' (purple). Below the tabs, there are three buttons: 'Download PDF', 'Add PDF to bundle', and 'Delete selection'. A table below shows the details of a setup named 'Pierrick' with a description of '6 step motor control' and a creation date of '1/4/2019'. Below the table, there are three columns representing components: 'Control Board' (NUCLEO-F302R8) with an 'Add to cart' button, 'Power Board' (X-NUCLEO-IHM07M1) with an 'Add to cart' button, and 'Software' (X-CUBE-MCSDK) with a 'Download' button.

Setup name	Setup description	(creation date : 1/4/2019)
Pierrick	6 step motor control	(creation date : 1/4/2019)

Control Board	Power Board	Software
NUCLEO-F302R8	X-NUCLEO-IHM07M1	X-CUBE-MCSDK
Add to cart	Add to cart	Download



# ST motor control suite

The “Generic Documents & Videos” section provides various filterable resources, such as application notes, brochures, technical articles, presentations and more. Select all relevant items and add them to your bundle.

The screenshot displays the ST Motor Control Suite web interface. At the top, there is a navigation bar with the ST logo, the text "life.augmented", and "ST Motor Control Suite" with icons for search and bundle management. Below this is a breadcrumb trail: "T-MC-Suite > Home > Finder". A search bar is present with the text "Motor Control Generic Documents & Videos" and a "New search" button. On the right, there is a "My Bundle" button with a folder icon and "(3)".

Below the search bar, there are two tabs: "Documents" (active) and "Videos". A sidebar on the left contains a "Reset filters" button and several filter dropdowns: "Search", "Category" (set to "Any"), "Motor type" (set to "Any"), "Algorithm" (set to "Any"), and "Ecosystem" (set to "Any"). A "Close" button is located at the bottom of the sidebar.

The main content area is a table titled "Documents" with the following columns: Title, Category, Motor type, Algorithm, Ecosystem, and Size. The table contains 9 rows of document entries, each with a checkbox and a PDF icon.

	Title	Category	Motor type	Algorithm	Ecosystem	Size
<input type="checkbox"/>	<a href="#">AN4220 - Sensorless six-step BLDC commutation</a>	Application Notes	PMSM	BLDC 6-step	-	946 KB
<input type="checkbox"/>	<a href="#">Motor Control Reference Guide</a>	Brochures	-	-	-	2.96 MB
<input type="checkbox"/>	<a href="#">STM32F3 series - Mainstream 32-bit MCUs</a>	Brochures	PMSM	PMSM FOC	STM32	2.18 MB
<input type="checkbox"/>	<a href="#">STSPIN Motor Control: Design Considerations for Brushless Direct Current Motor Control</a>	Magazine Articles	-	-	STM32	5.54 MB
<input checked="" type="checkbox"/>	<a href="#">STM32 and STM8 embedded software solutions</a>	Presentations	-	-	STM32, STM8	2.55 MB
<input checked="" type="checkbox"/>	<a href="#">X-NUCLEO expansion boards motor control - Selection guide</a>	Selection Guides	-	-	STM32	264 KB
<input type="checkbox"/>	<a href="#">STM32L4 MCU series - Excellence in ultra-low-power with performance</a>	Presentations	-	-	STM32	1.29 MB
<input type="checkbox"/>	<a href="#">X-NUCLEO-IHM16M1 quick start guide</a>	Presentations	PMSM	BLDC 6-step	STM32	1.14 MB
<input type="checkbox"/>	<a href="#">RN0027 - STM8S motor control firmware library package release 1.0</a>	Release Notes	PMSM, 3ph ACIM	BLDC 6-step, ACIM V/F	STM8	45 KB

# ST motor control suite

Add videos to your bundle. Some can be played directly in the tool.

Documents Videos

Videos

Reset filters Search Algorithm: Any Motor type: Any Close

<input type="checkbox"/>	Title	Algorithm	Motor type
<input type="checkbox"/>	<a href="#">Troubleshooting of your BLDC motor design in ST MC SDK</a>	PMSM FOC, BLDC 6-step	PMSM
<input type="checkbox"/>	<a href="#">Low voltage motor control portfolio</a>	-	-
<input type="checkbox"/>	<a href="#">High Voltage motor control portfolio</a>	PMSM FOC, BLDC 6-step, ACIM FOC, ACIM V/F	PMSM, 3ph ACIM
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">STSPIN233, Low-voltage brushless DC monolithic motor driver</a>	-	PMSM
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">Get to know STSPIN32F0 Advanced brushless DC motor drivers with embedded 32-bit MCU</a>	PMSM FOC, BLDC 6-step	PMSM
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">Getting Started with the NEW Motor Control Nucleo Pack</a>	PMSM FOC	PMSM
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">Plug &amp; Play Design For Very Precise Field Oriented 3-Phase Motor Control</a>	PMSM FOC	PMSM
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">Solving Stepper Motor Design Challenges with PowerSTEP01</a>	-	Stepper
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">STSPIN Designing for small motors with 1.8V driver Ics</a>	-	Stepper
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">Getting started with low DC motor driver expansion board</a>	-	Brushed DC
<input type="checkbox"/> <input type="checkbox"/>	<a href="#">Get your mbed project with X-NUCLEO-IHM02A1 started</a>	-	Stepper

# ST motor control suite

Find all your selected recourses in your bundle.  
The bundle can be downloaded as a .zip file with just one click.


Your bundle is ready !

[Clear bundle](#)

Motor Control Generic Documents & Videos ^

[Documents \(3\)](#) delete all (3)

- Presentations : [STM32 and STM8 embedded software solutions](#) - 3 MB 🗑
- Selection Guides : [X-NUCLEO expansion boards motor control - Selection guide](#) - 264 KB 🗑
- AN5166 - Application Notes : [Guidelines for control and customization of power boards with STM32 MC SDK v5.0](#) - 323 KB 🗑

 [ST-Motor-Control-setups.pdf](#) 🗑

Estimated bundle size : 3.57 MB

[Close](#) [Download Zip File](#)

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