

# Roller shutter

MOTORS  
CONTROLS  
ACCESSORIES

 simu





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# WHO ARE WE?



## **MANUFACTURERS OF MOTORS AND AUTOMATIC SYSTEMS**

FOR ROLLER SHUTTERS, BLINDS,  
SCREENS, INDUSTRIAL AND  
COMMERCIAL DOORS SINCE 1952.

For over 70 years, SIMU has been drawing on its industrial know-how and core values to help its customers. As committed partners, we develop close relationships with our customers on a daily basis to provide them the most adapted advice and solutions.

## **INVENTOR OF THE TUBULAR MOTOR FOR ROLLER SHUTTERS IN 1959**

In 1959 the first tubular motor was designed and crafted inside the walls of SIMU's workshop: a key technical milestone unlocking new possibilities in the field of outdoor applications.

Since then, SIMU has provided continuous improvement to its industrial customers - by manufacturing simple, efficient and good quality products that perfectly meet their expectations.



## **OUR COMMITMENTS**

At SIMU, our goal is to provide you with robust, top-quality products that are easy to implement, connected and compliant with the highest industry standards.

We demonstrate our ingenuity in every one of our actions to bring you simple and highly efficient solutions.

As manufacturers ourselves, we know what makes a great business partner: we give impetus to our customers' projects through our mastery of our best standard products and services, and our down-to-earth, dedicated attitude.

At SIMU, we are here for you.



# OUR VALUES



## Pragmatism

Powered by our expertise, we work together in action, hand-in-hand with our partners. Unafraid to get our hands in the dirt, we help them deploy their projects and business, with our long-standing sturdiness and mastery.



## Integrity

What you see is what you get. No frills no fuss. We do what we say we are going to do, showing up for our partners by acting with goodwill, commitment and humility to guarantee their satisfaction.



## Reciprocity

From our DNA to our day-to-day actions, we wholeheartedly believe in the power of partnering. With a give and take mindset, we generate connections that lead to mutual value. Because for us, working together is success.



## OUR AREAS OF EXPERTISE

We offer an extensive range of motors to equip all shutters on the market, from the smallest to the largest, both for new buildings and for renovation projects.

We offer solutions for vertical blinds and awnings: combined with SIMU motors, with high rotation speeds, we offer smart, effective and elegant solar protection solutions, available for both the tertiary and residential markets.

We offer motors and automatic systems for roller doors, grilles and metal shutters for stores and industrial doors. As an expert in this specific market, we provide support to manufacturers with our offer of central, exterior and tubular motors which are global benchmarks, and from now on, with our solution for fire and smoke protection.



**ROLLER SHUTTER**



**SOLAR SOLUTION**



**AWNING**



**SCREEN**



**INDUSTRIAL DOOR**



**COMMERCIAL CLOSURE**

### CUSTOMER SERVICE CONTACT

**T. +33 3 84 64 75 00**

**@ [service@simu.com](mailto:service@simu.com)**



# WE ACT FOR GREEN

The ACT FOR GREEN® program is a voluntary approach to reducing the environmental impact of our products.

Eco-design is an overarching process that impacts each stage of the lifecycle of the product.

The objective is to reduce a product's environmental impact, from the extraction of raw materials, through its manufacture, transport and use, to its end-of-life. It is a conscious step forward for the end-user and the planet.

By 2030, 100% of our motors will be ACT FOR GREEN®.



## OUR CUSTOMISATION SERVICE

In order to constantly adapt to the specific needs of our industrial customers, customisation is a core part of our offer. With this aim, we support our customers by offering them two solutions:

### - “KITTING”:

we create a new product reference by combining products and accessories in a new package, for example:

- Different accessories in a single kit,
- Accessories mounted on the motor to save time during assembly.

### - TECHNICAL MODIFICATION:

we carry out functional modification to standard products to tailor them to your need.







**”The mastery of  
motorisation solutions by SIMU:  
when best standards, technical expertise and  
pragmatic mindset meet for a robust industrial  
partnership”**

SIMU, a brand of the SOMFY Group,  
is a leader in motorisations since 1952.  
Renowned for our expertise in rolling shutter, screen, awning  
and commercial and industrial applications,  
we uphold the philosophy ‘No is not an answer’.

We are dedicated to serving the B2B industrial sector,  
combining advanced technology with a client-centric & solution-oriented  
approach and fostering long-term partnerships.

Our products are the embodiment of robustness, simplicity, and efficiency,  
designed as essential solutions that adhere to the best market standards.

Discover more about our technical expertise and  
collaborative, pragmatic spirit at [www.simu.com](http://www.simu.com).

**Together, as one.**

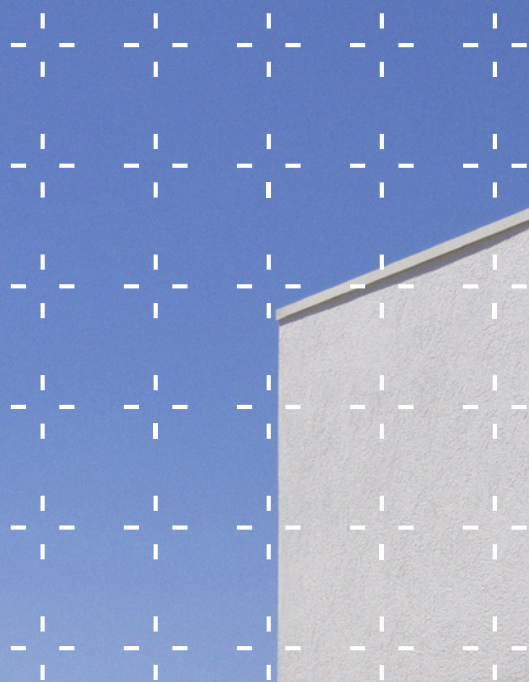




# NOTES

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





# 01. Motorised mechanisms







# 01.

## Motorised mechanisms

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# SELECTING THE MOTOR TO MATCH THE DIFFERENT TUBES...

## THE SELECTION CHARTS and limits of use mentioned in this catalogue

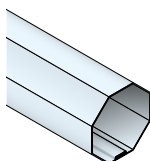
...are given for information and vary according to each installation characteristic (in particular: types of slats, frictions, conditions of installation, variations in power supply voltage, torque variations due to the kinematics and spring strength of each awning). Neither the manufacturer nor the seller can be responsible for bodywork and material damage.

Recommendations for the use of tubes require careful attention as well (see profiler's charts). Each awning and roller shutter manufacturer will have to test the products in order to determine his own selection charts. Please ask us about any specific cases.

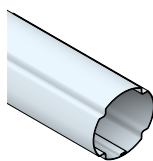
### Nota

If needed, we can also make personalised selection charts according to your closure specification. The request form is available on page 17.

## ROLLER SHUTTER WITH OCTA 40 & ZF 45 TUBE



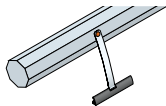
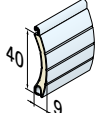
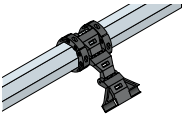
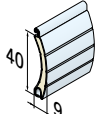
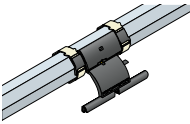
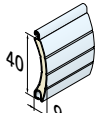
OCTA 40



ZF 45

⚠ Maximum fabric weight: **30 kg**

The following charts give the fabric liftable weight (in kg), according to the roller shutter characteristics and the motor torque:

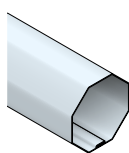
Type of link	Size of lath	Shutter height	Motor torque					
			3 Nm	4 Nm	6 Nm	9 Nm	10 Nm	13 Nm
 Spring fastener		1.5 m	8 kg	11 kg	17 kg	25 kg	28 kg	–
		2.4 m	8 kg	10 kg	15 kg	23 kg	25 kg	–
		3 m	7 kg	9 kg	14 kg	21 kg	23 kg	30 kg
 V.A.S. or V.A.R. lock		1.5 m	8 kg	11 kg	16 kg	24 kg	27 kg	–
		1.5 m	8 kg	10 kg	15 kg	23 kg	25 kg	–
		1.5 m	7 kg	9 kg	14 kg	20 kg	23 kg	29 kg
 Easylink lock		1.5 m	8 kg	11 kg	16 kg	25 kg	28 kg	–
		1.5 m	8 kg	10 kg	15 kg	23 kg	26 kg	–
		1.5 m	7 kg	9 kg	14 kg	21 kg	23 kg	30 kg

### Nota

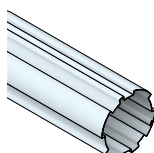
Spring fastener: system compatible with all Ø 40 motors **excepted with T3.5 AUTO®+ motor**.



## ROLLER SHUTTER WITH OCTA 50 & ZF 54 TUBE



OCTA 50



ZF 54

⚠ Maximum fabric weight: **40 kg**

The following charts give the fabric liftable weight (in kg), according to the roller shutter characteristics and the motor torque:

Type of link	Size of lath	Shutter height	Motor torque											
			3 Nm	4 Nm	5 Nm	6 Nm	8 Nm	9 Nm	10 Nm	13 Nm	15 Nm	17 Nm	20Nm	25 Nm
 Spring fastener		1.5 m	8 kg	11 kg	14 kg	16 kg	22 kg	24 kg	27 kg	35 kg	-	-	-	-
		2.4 m	8 kg	10 kg	13 kg	15 kg	20 kg	23 kg	25 kg	33 kg	38 kg	-	-	-
		3 m	7 kg	9 kg	12 kg	14 kg	19 kg	21 kg	24 kg	31 kg	35 kg	40 kg	-	-
		1.5 m	8 kg	10 kg	13 kg	15 kg	20 kg	23 kg	25 kg	33 kg	38 kg	-	-	-
		2.4 m	7 kg	9 kg	12 kg	14 kg	18 kg	21 kg	23 kg	30 kg	35 kg	39 kg	-	-
		3 m	6 kg	9 kg	11 kg	13 kg	17 kg	19 kg	22 kg	28 kg	32 kg	37 kg	-	-
 Rigid fastener		1.5 m	8 kg	11 kg	13 kg	16 kg	21 kg	24 kg	27 kg	34 kg	40 kg	-	-	-
		2.4 m	8 kg	10 kg	13 kg	15 kg	20 kg	23 kg	26 kg	33 kg	38 kg	-	-	-
		3 m	7 kg	9 kg	12 kg	14 kg	18 kg	21 kg	23 kg	30 kg	35 kg	39 kg	-	-
		1.5 m	7 kg	10 kg	12 kg	15 kg	20 kg	22 kg	25 kg	32 kg	37 kg	-	-	-
		2.4 m	7 kg	9 kg	12 kg	14 kg	19 kg	21 kg	24 kg	31 kg	35 kg	40 kg	-	-
		3 m	6 kg	8 kg	11 kg	13 kg	17 kg	19 kg	21 kg	27 kg	32 kg	36 kg	-	-
 V.A.S. or V.A.R. lock		1.5 m	6 kg	8 kg	11 kg	13 kg	17 kg	19 kg	21 kg	27 kg	32 kg	36 kg	-	-
		2.4 m	6 kg	8 kg	10 kg	11 kg	15 kg	17 kg	19 kg	25 kg	29 kg	32 kg	38 kg	-
		3 m	5 kg	7 kg	9 kg	10 kg	14 kg	15 kg	17 kg	22 kg	26 kg	29 kg	34 kg	-
		1.5 m	6 kg	8 kg	10 kg	12 kg	16 kg	18 kg	20 kg	25 kg	29 kg	33 kg	39 kg	-
		2.4 m	5 kg	7 kg	9 kg	11 kg	14 kg	16 kg	18 kg	23 kg	26 kg	30 kg	35 kg	-
		3 m	5 kg	6 kg	8 kg	9 kg	12 kg	14 kg	16 kg	20 kg	23 kg	26 kg	31 kg	39 kg
 Easylink lock		1.5 m	7 kg	9 kg	11 kg	13 kg	18 kg	20 kg	22 kg	29 kg	33 kg	-	-	-
		2.4 m	6 kg	8 kg	10 kg	12 kg	16 kg	18 kg	20 kg	26 kg	30 kg	34 kg	-	-
		3 m	5 kg	7 kg	9 kg	11 kg	14 kg	16 kg	18 kg	23 kg	27 kg	31 kg	-	-
		1.5 m	6 kg	8 kg	10 kg	12 kg	16 kg	18 kg	21 kg	27 kg	31 kg	35 kg	-	-
		2.4 m	6 kg	7 kg	9 kg	11 kg	15 kg	17 kg	19 kg	24 kg	28 kg	31 kg	-	-
		3 m	5 kg	7 kg	8 kg	10 kg	13 kg	15 kg	17 kg	21 kg	25 kg	28 kg	33 kg	-

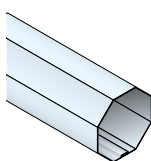
### Nota

Spring and rigid fasteners: system compatible with all **Ø40mm** and **Ø50mm** motors **excepted with T3.5 AUTO®+ - T3.5 EBHz - T5 AUTO® - T5 EBHz - T5 AUTO®+SHORT - T5 AUTO®SHORT Hz - and T5 AUTO®SHORT BHz motors.**

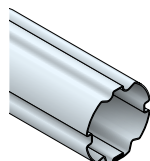




## ROLLER SHUTTER WITH OCTA 60 & ZF 64 TUBE



OCTA 60



ZF 64

⚠ Maximum fabric weight: **60 kg**

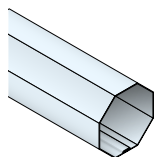
The following charts give the fabric liftable weight (in kg), according to the roller shutter characteristics and the motor torque:

Type of link	Size of lath	Shutter height	Motor torque													
			3 Nm	4 Nm	5 Nm	6 Nm	8 Nm	9 Nm	10 Nm	13 Nm	15 Nm	17 Nm	20 Nm	25 Nm	30 Nm	35 Nm
 Spring fastener		1.5 m	8 kg	10 kg	13 kg	15 kg	20 kg	23 kg	25 kg	33 kg	38 kg	43 kg	50 kg	-	-	-
		2.4 m	7 kg	10 kg	12 kg	14 kg	19 kg	22 kg	24 kg	31 kg	36 kg	41 kg	48 kg	60 kg	-	-
		3 m	7 kg	9 kg	12 kg	14 kg	18 kg	21 kg	23 kg	30 kg	35 kg	39 kg	46 kg	58 kg	-	-
		1.5 m	8 kg	10 kg	13 kg	15 kg	20 kg	23 kg	25 kg	33 kg	38 kg	43 kg	50 kg	-	-	-
		2.4 m	7 kg	10 kg	12 kg	14 kg	19 kg	22 kg	24 kg	31 kg	36 kg	41 kg	48 kg	60 kg	-	-
		3 m	7 kg	9 kg	12 kg	14 kg	18 kg	21 kg	23 kg	30 kg	35 kg	39 kg	46 kg	58 kg	-	-
 Rigid fastener		1.5 m	6 kg	9 kg	11 kg	13 kg	17 kg	19 kg	22 kg	28 kg	32 kg	37 kg	-	-	-	-
		2.4 m	6 kg	8 kg	10 kg	12 kg	16 kg	18 kg	20 kg	25 kg	29 kg	33 kg	39 kg	-	-	-
		3 m	5 kg	7 kg	9 kg	10 kg	14 kg	15 kg	17 kg	22 kg	26 kg	29 kg	34 kg	-	-	-
		1.5 m	6 kg	8 kg	10 kg	11 kg	15 kg	17 kg	19 kg	25 kg	29 kg	32 kg	38 kg	-	-	-
		2.4 m	5 kg	7 kg	9 kg	10 kg	14 kg	15 kg	17 kg	22 kg	26 kg	29 kg	34 kg	-	-	-
		3 m	4 kg	6 kg	7 kg	9 kg	12 kg	13 kg	15 kg	19 kg	22 kg	25 kg	29 kg	36 kg	-	-
 V.A.S. or V.A.R. lock		1.5 m	6 kg	8 kg	10 kg	12 kg	16 kg	18 kg	20 kg	26 kg	30 kg	34 kg	40 kg	50 kg	60 kg	-
		2.4 m	5 kg	7 kg	9 kg	11 kg	14 kg	16 kg	18 kg	23 kg	27 kg	31 kg	36 kg	45 kg	54 kg	-
		3 m	5 kg	6 kg	8 kg	10 kg	13 kg	14 kg	16 kg	21 kg	24 kg	27 kg	32 kg	40 kg	48 kg	56 kg
		1.5 m	6 kg	8 kg	10 kg	12 kg	16 kg	18 kg	20 kg	25 kg	29 kg	33 kg	39 kg	49 kg	59 kg	-
		2.4 m	5 kg	7 kg	9 kg	10 kg	14 kg	15 kg	17 kg	22 kg	26 kg	29 kg	34 kg	43 kg	51 kg	60 kg
		3 m	5 kg	6 kg	8 kg	9 kg	12 kg	14 kg	16 kg	20 kg	23 kg	26 kg	31 kg	39 kg	47 kg	54 kg
 OctoEasy Easylink lock		1.5 m	-	-	9 kg	11 kg	13 kg	18 kg	20 kg	22 kg	29 kg	33 kg	-	-	-	-
		2.4 m	-	-	8 kg	10 kg	12 kg	16 kg	18 kg	20 kg	26 kg	30 kg	34 kg	-	-	-
		3 m	-	-	7 kg	9 kg	11 kg	14 kg	16 kg	18 kg	23 kg	27 kg	31 kg	-	-	-
		1.5 m	-	-	8 kg	10 kg	11 kg	15 kg	17 kg	19 kg	25 kg	29 kg	32 kg	-	-	-
		2.4 m	-	-	7 kg	9 kg	10 kg	14 kg	15 kg	17 kg	22 kg	26 kg	29 kg	34 kg	-	-
		3 m	-	-	6 kg	8 kg	9 kg	12 kg	14 kg	15 kg	20 kg	23 kg	26 kg	30 kg	-	-

### Nota

Spring and rigid fasteners: system compatible with all **Ø40mm** and **Ø50mm** motors **excepted with T3.5 AUTO®+ - T3.5 EBHz - T5 AUTO® - T5 EBHz - T5 AUTO®+SHORT - T5 AUTO®SHORT Hz and T5 AUTO®SHORT BHz motors.**

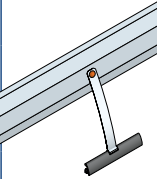
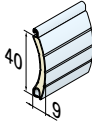
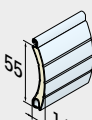
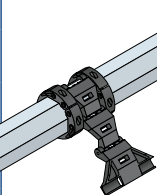
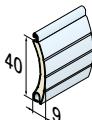
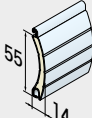
## ROLLER SHUTTER WITH OCTA 70 TUBE



OCTA 70

Maximum fabric weight: **100 kg**

The following charts give the fabric liftable weight (in kg), according to the roller shutter characteristics and the motor torque:

Type of link	Size of lath	Shutter height	Motor torque													
			8 Nm	10 Nm	15 Nm	20 Nm	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm	55 Nm	60 Nm	70 Nm	80 Nm	
 Spring fastener		1.5 m	18 kg	23 kg	35 kg	46 kg	58 kg	69 kg	-	-	-	-	-	-	-	
		2.4 m	16 kg	20 kg	30 kg	40 kg	50 kg	60 kg	70 kg	-	-	-	-	-	-	
		3 m	14 kg	18 kg	27 kg	36 kg	45 kg	54 kg	63 kg	-	-	-	-	-	-	
		1.5 m	15 kg	19 kg	28 kg	37 kg	46 kg	56 kg	65 kg	74 kg	93 kg	-	-	-	-	
		2.4 m	12 kg	15 kg	23 kg	30 kg	38 kg	45 kg	53 kg	60 kg	75 kg	83 kg	90 kg	-	-	
		3 m	11 kg	14 kg	20 kg	27 kg	34 kg	41 kg	47 kg	54 kg	68 kg	74 kg	81 kg	95 kg	-	
 V.A.S. or V.A.R. lock		1.5 m	15 kg	19 kg	28 kg	37 kg	46 kg	56 kg	65 kg	-	-	-	-	-	-	
		2.4 m	12 kg	15 kg	23 kg	30 kg	38 kg	45 kg	53 kg	60 kg	-	-	-	-	-	
		3 m	11 kg	14 kg	20 kg	27 kg	34 kg	41 kg	47 kg	54 kg	68 kg	-	-	-	-	
		1.5 m	12 kg	16 kg	23 kg	31 kg	39 kg	47 kg	54 kg	62 kg	78 kg	85 kg	93 kg	-	-	
		2.4 m	10 kg	12 kg	18 kg	24 kg	30 kg	36 kg	42 kg	48 kg	60 kg	66 kg	72 kg	84 kg	96 kg	
		3 m	8 kg	11 kg	16 kg	21 kg	26 kg	32 kg	37 kg	42 kg	53 kg	58 kg	63 kg	74 kg	84 kg	

### Nota

Spring fastener: system compatible with all **Ø50mm** and **Ø60mm** motors **excepted with T5 AUTO® - T5 EBHz - T5 AUTO®+SHORT - T5 AUTO®SHORT Hz and T5 AUTO®SHORT BHz motors.**



If needed, SIMU can provides personalised motor selection charts according to a selected motor range, the lath dimensions and weight, the typology of the roller tube and the selected fasteners.

**Fill out the following form  
and return it by email to:  
service@simu.com**



## Personalised selection charts request form to fill out and return it by email to: [service@simu.com](mailto:service@simu.com)

DATE: ..... CUSTOMER ACCOUNT N°: ..... CONTACT: .....

COMPANY NAME: .....

ADDRESS: .....

POSTCODE : ..... CITY: .....

### TYPE OF PRODUCT

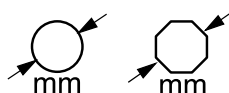
REF OF THE REQUEST: .....

TYPE: TRADITIONAL ☐ – RENOVATION ☐ – TUNNEL ☐ – COMBINED WINDOW SYSTEM ☐

### TUBE

TUBE MODEL\*: .....

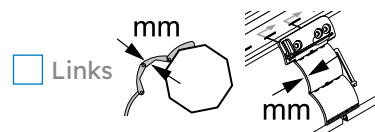
EXTERNAL DIAMETER (mm): .....



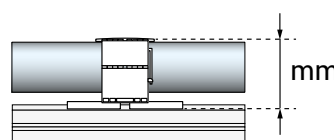
### RIGID LINKS

WITH RINGS: YES ☐ NO ☐

THICKNESS OF LINKS OR RINGS (mm)\*: ..... HEIGHT OF LINKS (mm)\*: .....



OR



### SHUTTER

WEIGHT OF LATH (Kg/ml)\*: ..... WEIGHT OF SHUTTER (Kg/m²)\*: .....

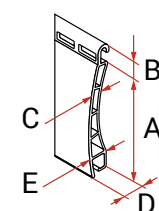
TYPE OF LATH: STANDARD ☐ STRAIGHT LATH ☐ ROUNDED LATH ☐

LATH DIMENSIONS (mm): Module (A) in mm\*: .....

Nominal thickness (B) in mm: .....

Thickness mini (C) in mm: .....

Lath thickness (D) in mm\*: .....



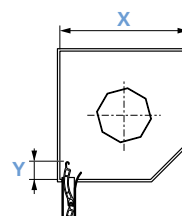
Standard lath

BOTTOM LATH\*: HEIGHT (mm): ..... WEIGHT (Kg/ml)\*: .....

AXIS POSITIONING: depending on the top of the roller guides (optional)

E (in mm): .....

H (in mm): .....



### MOTOR

Desired motor range(s)\*: .....

ex : T3.5 - T5Hz - DMI - DMIHz - ZSP - AUTO - etc

### CHOICE OF ABACUS

Nominal torque (default): ☐

max torque : ☐

### EXPORT FILE FORMAT

PDF ☐

EXCEL ☐

CSV ☐




\*Mandatory fields



## Range tables wired and radio motors


### Wired motor range

		40 mm		50 mm		60 mm
		1224V CC	230V CA	1224V CC	230V CA	230V CA
 WIRED	PROGRESSIVE	X	X	X	X	X
	PROGRESSIVE DMI				X	X
	AUTO®				X	
	AUTO®+		X		X	
	AUTO®+SHORT (short motor)				X	
	E				X	

#### Including

- o PROGRESSIVE: manual progressive limit switch settings with an adjustment tool.
- o PROGRESSIVE DMI: equipped with a manual override built into the motor head.
- o AUTO®: automatic electronic limit switch settings. The shutter must be equipped with high and low stop points.
- o AUTO®+: automatic electronic limit switch setting. The shutter must be equipped with high and low stop points. Unstressing function at the TOP and BOTTOM of the electronic limit switches to avoid damage to the units and forcing the apron.
- o AUTO®+SHORT: short motor version for narrow shutter.
- o E (Electronic): 4 electronic limit switch setting modes possible, with a specific setting switch.

### RADIO MOTOR RANGE

			40 mm		50 mm		60 mm
			1224V CC	230V CA	230V CA	230V CA	230V CA
 RADIO	Hz	PROGRESSIVE DMI Hz.01			X	X	
		RADIO Hz.02		X	X	X	
		AUTO®SHORT Hz (short motor)			X		
		EHZ	X		X		
	BHz*	AUTO®SHORT BHz (short motor)			X		
		EBHz		X	X		
		AUTO® BHz			X		

#### Including

- o PROGRESSIVE DMI Hz.01: manual progressive limit switch settings with an adjustment tool. Equipped with a manual override.
- o RADIO Hz.02: manual electronic limit switch settings from a radio transmitter.
- o AUTO®SHORT Hz and BHz\*: automatic electronic limit switch setting. The shutter must be equipped with high and low stop points. Short motor version for narrow shutter.
- o E Hz and E BHz\* (Electronic): 4 electronic limit switch setting modes possible from the transmitter.

#### \* WHAT IS SIMU-BHz?

This is the new radio range with information feedback developed by SIMU.

Thanks to the box and app TaHoma by Somfy, I can see the position of my motorised shutters in BHz, from my smartphone, at home or on the move. I can also choose to set the opening of my shutter to the position I want!





## Motor functions & specific features

WIRED	LIMIT SWITCH SETTING		FUNCTIONS & SPECIFIC FEATURES
E motor		4 setting modes	
AUTO® motor		Automatic setting	
AUTO®+ motor		Automatic setting	
AUTO®+SHORT motor		Automatic setting	
Progressive		Manual progressive setting	
Progressive DMI		Manual progressive setting	

RADIO	LIMIT SWITCH SETTING		FUNCTIONS & SPECIFIC FEATURES	OPTIONS
E motor		4 setting modes		
AUTO®SHORT motor		Automatic setting		
RADIO Hz.02 motor		Manual setting from a transmitter		
Progressive DMI		Manual progressive setting		



4 electronic limit switch setting modes possible:  
AUTOMATIC - SEMI AUTOMATIC HIGH - SEMI AUTOMATIC LOW - MANUAL



Automatic electronic limit switch setting.  
The shutter must be equipped with high and low stop points.



STOP ON OBSTACLE



FROST DETECTION



Manual electronic limit switch setting from a radio transmitter.



Manual progressive limit switch setting with an adjustment tool.



INTERMEDIATE POSITION



SHORT TUBE



UNSTRESSING



BHZ INFORMATION FEEDBACK \*



DMI with manual override built into the motor head.










SIMU-HZ RADIO



# MOTOR RANGE





## summary table

		DIRECT CURRENT										
		Ø40		Ø50			Ø40					
		 RADIO	 RADIO	WIRED	WIRED	 RADIO	 RADIO	WIRED			 RADIO	
		T3.5 E BHz DC	T3.5 E Hz DC	T3.5 DC	T5 DC	T3.5 E BHz	T3.5 Hz02	T3.5 E	T3.5 AUTO+	T3.5	T5S E BHz	T5S AUTOSHORT BHz
POWER SUPPLY	230V~ - 50Hz					x	x	x	x	x	x	x
	120V~ - 60Hz						x			x		
	12 VDC	x	x	x	x							
	24 VDC			x	x							
SPECIFICATION	Range of torque (Nm)	3 to 10	3 to 10	3 to 10	15 to 35	4 to 13	3 to 13	4 to 13	4 to 13	3 to 13	8 to 50	6
	Minimum Ø inside the tube (mm)		37	37	47	37	37	37	37	37	47	47
	Overall dimensions of the motor with adaptor mini/max (mm)	474	471	373	621	475/510	475/510		475/510	414/485	621/695	387
	Built-in manual override DMI											
	Parallel wiring					x	x		x**		x	x
END-LIMIT SETTING	from a transmitter		x								x	
	from a specific setting switch					x		x				
	AUTOMATIC								x			x
	PROGRESSIVE with an adjustment tool			x	x					x		
SETTING MODES	MANUAL	x	x			x		x			x	
	AUTOMATIC	x	x			x		x			x	
	SEMI-AUTOMATIC UP	x	x	x		x	x	x	x	x	x	x
	SEMI-AUTOMATIC DOWN	x	x	x		x	x	x	x	x	x	x
FUNCTIONS	Intermediate position	x	x			x	x				x	x
	UNSTRESSING function	x							x			
	Protection against frost	x	x			x			x		x	x
	Obstacle detection	x	x			x			x		x	x
	Transmitters BHz	x				x					x	x
	Transmitters SIMU-Hz		x				x					
	TSA+ (sequential)		x*				x*					

x\*: cannot be used for end-limit setting

x\*\*: 3 motors maximum in parallel per switch



ALTERNATIVE CURRENT												
Ø50									Ø60			
 RADIO			 RADIO with built-in manual override	WIRED				WIRED with built-in manual override	 RADIO	 RADIO with built-in manual override	WIRED	WIRED with built-in manual override
T5S E Hz	T5S Hz.02	T5S AUTOSHORT Hz	DMI 5 Hz.01	T5S E	T5S AUTO+SHORT	T5S AUTO	T5	DMI 5	T6 Hz.02	DMI 6 Hz.01	T6	DMI 6
x	x	x	x	x	x	x	x	x	x	x	x	x
	x		x				x	x	x	x	x	x
8 to 50	8 to 50	6	10 to 50	8 to 50	6	6 to 35	8 to 50	8 to 50	60 to 120	80 to 120	40 to 120	40 to 120
47	47	47	47	47	47	47	47	47	60	60	60	60
621/695	621/695	387	757/797	621/695	387	521/695	521/621	617	758	878	718	704
			x					x		x		x
x	x	x	x	x**	x**	x**			x	x		
x												
				x								
		x			x	x						
			x				x	x		x	x	x
x				x								
x				x								
x	x	x	x	x	x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x	x	x	x	x	x
x	x	x							x			
					x							
x		x		x	x	x						
x		x		x	x	x						
x	x	x	x						x	x		
x*	x*	x*	x*						x*	x*		



# Solar motorisation

## AUTOSUN 2 BHz



Motor  
Solar panel  
Battery



SIMU has been a recognised specialist in solar solutions for roller shutters since 2006. All our solar motors are made in France and comply with the Act For Green eco-design requirements.

AUTOSUN is the SIMU solar solution to motorise your roller shutter with a complete system including a motor, a battery, a solar panel and of complete choice of accessories.



### Zoom on the solar system

The solar solution 100% AUTONOMOUS, without work

- **Autonomous motorisation system** for roof and facade roller shutters, operating with solar energy, a free, clean and renewable energy.
- **BHz protocol:** thanks to the box and the TaHoma application, the motor sends information on its position to your smartphone.
- **No wiring:** AUTOSUN 2 BHz does not need to be connected neither to the electrical network nor to control points (SIMU-BHz radio technology), which means no degradation of interior walls.
- **Optimised outputs:** AUTOSUN 2 BHz has been designed to run in most geographical area.
- **Autonomy of the system:** 45 days without sun, 2 cycles per day.
- **Battery stick in alu cover:** for IP44 protection which makes it more resistant to shocks and liquid penetration.

An innovative solution that adapts to all types of roller shutters whatever your installation (renovation or new, roof or facade shutter).



Renovation



Traditional



Tunnel



CWS



Labeled Act for Green,  
AUTOSUN is a sustainable and responsible solution, developed according to ecodesign principles.

Motor



Solar panel



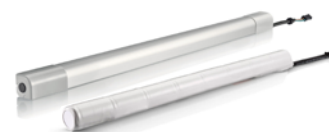
Battery



T3.5 EBHZ DC motor:  
torque: 3, 6 or 10 Nm

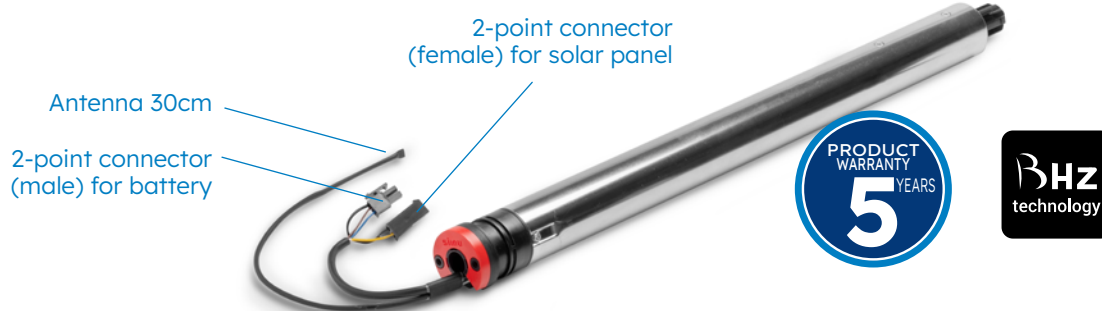


Solar panel:  
with adhesives  
or with holes



Battery:  
naked battery  
or battery stick in alu cover

## T3.5 EBHZ DC motorisation 100% radio



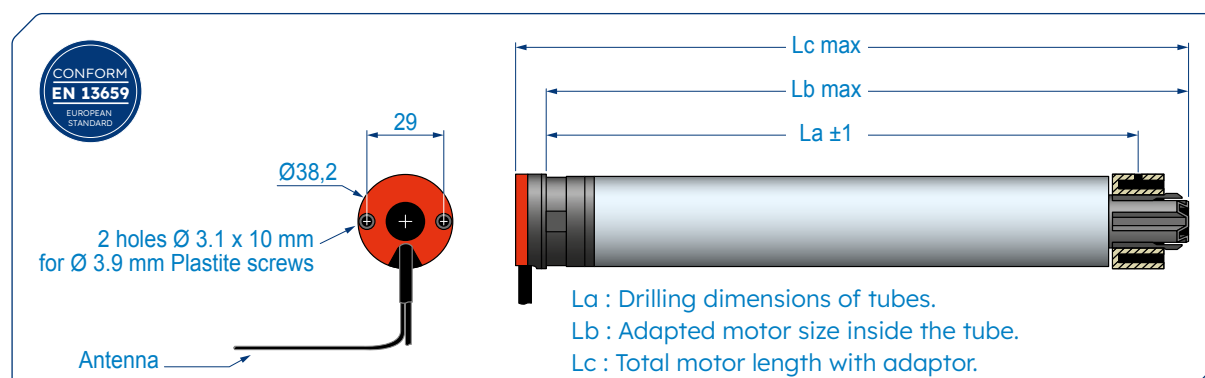
- **BHZ radio technology** (868-870 MHz).
- **4 end-limit settings:** full automatic, semi-automatic UP, semi-automatic DOWN and manual.
- **Adjustment of the end limit with reduced speed** in manual end-limit adjustment to ease the setting.
- **Motor cable:** with a 20 cm black PVC cable, with 2 connectors 2 points and with mistakeproofing and a 30 cm antenna. Reduced size of the connectors to ease the integration inside the side frame.
- **Functions:**
  - Stop on obstacle: the motor will stop during the closing if it meets an obstacle.
  - Frost detection: the motor will stop during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.
  - Intermediary position: which can be adjusted to the user's need. Push "STOP" button of the transmitter to move the roller shutter to the favorite position.
  - Soft start & Soft stop: the motor will start in reduced speed during the opening and will stop in reduced speed during the opening and closing of the roller shutter.
- **Compatible with all SIMU-BHz transmitters and automatic devices, such as TaHoma box.**

## References

### 12 VDC POWER SUPPLY

Description	Torque	Speed	Power	Current	DIMENSIONS (mm)			Weight	References		
					La	Lb	Lc		x 1	x 10	x 100
T3.5 EBHZ DC - 3/23	3 Nm	23 rpm	17 W	1.4 A	437	459	474	0.77 kg	2009551	2009554	2009557
T3.5 EBHZ DC - 6/18	6 Nm	18 rpm	26 W	2.2 A	437	459	474	0.8 kg	2009552	2009555	2009558
T3.5 EBHZ DC - 10/12	10 Nm	12 rpm	30 W	2.4 A	437	459	474	0.8 kg	2009553	2009556	2009559

## Technical characteristics



POWER SUPPLY	12 Volts
END-LIMIT	Electronic system with operating limited to 3 min.
PROTECTION INDEX	IP 44
POWER CABLE	Long. 0.2 meters, 3x0.75 mm <sup>2</sup> wires, Ø5 mm PVC black with two connectors.
SIMU-HZ RADIO FREQUENCY	Tri-band radio frequency 868-870 MHz with possibility to edit 8 times the order.
SECURE COMMUNICATION	Encrypted control orders + Rolling code with 16 million possible combinations.
RANGE	BHZ wall transmitter: ~150 m in free field and ~15 m through 2 reinforced concrete walls. Box TaHoma + BHZ mobile remote control: ~200 m in free field and ~20m through 2 reinforced concrete walls.
MOTOR HEAD THICKNESS	15 mm.
END-LIMIT ADJUSTMENT	Every 60 cycles during 4 cycles.
STANDARDS	CE NF

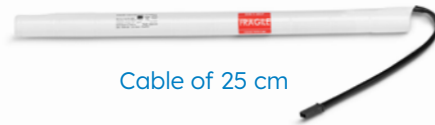




## Battery naked or stick in alu cover



### NAKED BATTERY



Cable of 25 cm

### BATTERY STICK IN ALU COVER

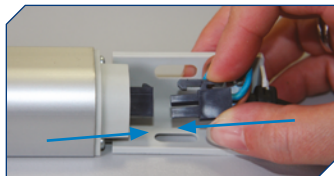


Cable 60 cm

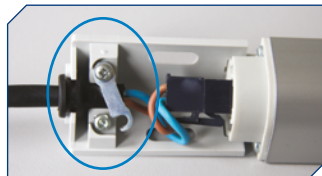
Cable 30 cm

### Wide range of batteries to suit at best all installation.

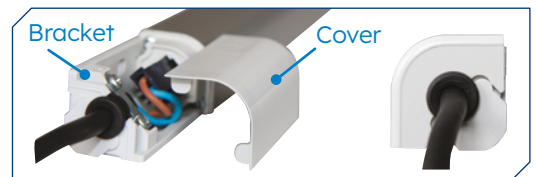
- 1 battery stick in alu cover and its cable of 30cm.
- 1 battery stick in alu cover and its cable of 60cm.
- 1 naked battery, without alu cover and its cable of 25cm. Mounting by pop rivet of the specific brackets and elastics to guarantee the fixing inside the roller shutter box.
- Reduced size of the connector to ease the integration inside the side frame.
- Battery in alu cover: possibility to connect and disconnect the battery cable easily without opening the roller shutter box. Indeed, once the plastic cover of the stick is removed you can unplug/plug the battery cable.



Extension cable with connectors for a quick disconnect



Fixing on the support to hold the cable in place



Installation	Avantages	Recommended batteries
<b>Battery outside the roller shutter box:</b> <ul style="list-style-type: none"> <li>- between the guide rail and the wall</li> <li>- behind the Roller Shutter box</li> </ul>	Easy access to the battery for resetting the system or replacement of the battery.	<ul style="list-style-type: none"> <li>- Battery in alu cover and its cable of 30cm.</li> <li>- Battery in alu cover and its cable of 60cm. (Fixing with adhesive or brackets.)</li> </ul>
<b>Battery inside the roller shutter box.</b>	Full integration in factory, nothing to do on site, the roller shutter is ready for use/installation on site.	<ul style="list-style-type: none"> <li>- Battery in alu cover and its cable of 30cm. (Fixing with adhesive or brackets.)</li> <li>- Naked battery and its cable of 25cm. (Fixing with specific brackets &amp; elastics.)</li> </ul> <b>Only for RENOVATION roller shutter boxes.</b>

## Technical characteristics

BATTERY	Ni-MH
NOMINAL VOLTAGE	12 Volts
CAPACITY	2.2 Ah
AMBIENT TEMPERATURE OF USE	from -20°C to +70°C
PROTECTION INDEX	IP X4
LIFETIME	± 8 years
WEIGHT & DIMENSIONS	Naked battery: 430 x 23,5 mm - 520 gr Battery stick in alu cover: 570 x 27 x 27 mm with 0.3 m cable (2-point connector) - 730 gr 570 x 27 x 27 mm with 0.6 m cable (2-point connector) - 760 gr

## References

Description	References		
	x 1	x 10	x 20
Naked battery	2020808	-	9020628
Battery stick cable 30 cm	9020634	9021212	-
Battery stick cable 60 cm	9020635	9021213	-

Blocks



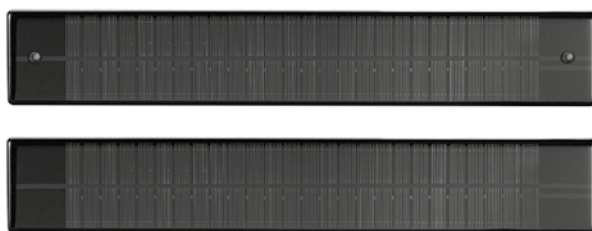
Bracket with elastic



Description	References
SOLAR KIT EXTERIOR C0.3M: BATTERY WITH CABLE OF 30CM (9020634) + SOLAR PANEL WITH FIXING HOLES (9019032)	9021214
SOLAR KIT EXTERIOR C0.6M: BATTERY WITH CABLE OF 60CM (9020635) + SOLAR PANEL WITH FIXING HOLES (9019032)	9021215

Description	References		
	x 1	x 40	x 200
Set of 20 adhesives batt stick (length x width = 550 x 15 mm)	9021216	-	-
Set of 2 wedges battery stick (dimension: 23 x 19 mm)	9020637	-	-
Bracket with elastic to fix naked battery	-	9020630	9020629

## Solar panel with holes or adhesives



New solar panel with adhesive to stick it directly on the roller shutter box without making holes.

- Solar panel in resin.
- Aesthetic design.
- 2 possible fixing:
  - Directly on the roller shutter box by pop rivets or with adhesive.
  - On the inclined brackets, on the roller shutter box or on the wall to capture more sun.
- All solar panels have a cable length of 20cm.

### Technical characteristics

MATERIAL	Resin panel
TYPE OF PANEL	Photovoltaics monocristalin
PROTECTION INDEX	IP X4
DELIVERED VOLTAGE	195.8 mA maxi.
POWER	3.2 W
TYPE DE CÂBLE	Cable of 200 mm with 2-point connector - type Molex plug (male) and rubber cable-gland for impermeability.
TYPE OF CABLE	470 x 60 x 6 mm
WEIGHT	230 g

### References

Description	References		
	x 1	x 10	x 20
Solar panel with holes	9019032	-	9019031
Solar panel with adhesive	9020627	9020626	-

Description	References
	x 1
SOLAR KIT EXTERIOR C0.3M: Solar panel with fixing holes (9019032) + battery with cable of 30c m (9020634)	9021214
SOLAR KIT EXTERIOR C0.6M: Solar panel with fixing holes (9019032) + battery with cable of 60 cm (9020635)	9021215

Description	References
	x 1
Solar panel bracket	9019683
Extension cable for solar panel (5 m)	9019722
Extension cable for solar panel (1 m)	9028176



Solar panel bracket



Extension cable



## Compatibilities controls & automatic devices

### TO PILOT A ROLLER SHUTTER DIRECTLY



BHZ radio  
remote control  
1 channel



BHZ radio  
wall transmitter  
1 channel

### TO PROGRAM, AUTOMATE AND CENTRALISE THE SHUTTERS



BHZ radio  
remote control  
5 channels

### 100% CONNECTED OFFER

#### Make your life easy with TaHoma® switch!

With TaHoma®, you can control and connect your home equipment to all SIMU solutions (gate door opener, garage doors...) and enrich your customer connected experience!



#### ...WITH TAHOMA® SWITCH

By connecting your roller shutter, enrich your home experience. TaHoma® switch centralise and connect all your roller shutters in the house.

#### ...THE BHZ TRANSMITTER RANGE

1 or 5 channel transmitter without feedback.





## References for installers

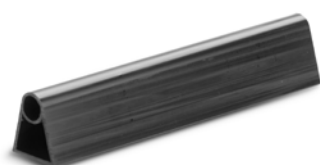
### References

The kit is made up of one motor, one solar panel and battery in alu cover (cable 60cm), and is delivered in a single packaging, to meet at best installer needs or for one renovation.

Description	References x 1
T3.5 EBHZ 3/23 12V + KIT SOL EXT: T3.5 EBHz DC 3/23 motor + battery with cable of 60 cm + solar panel	2009560
T3.5 EBHZ 6/18 12V + KIT SOL EXT: T3.5 EBHz DC 6/18 motor + battery with cable of 60 cm + solar panel	2009561
T3.5 EBHZ 10/12 12V + KIT SOL EXT: T3.5 EBHz DC 10/12 motor + battery with cable of 60 cm + solar panel	2009562



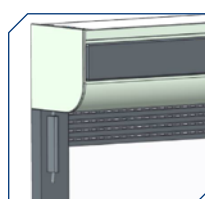
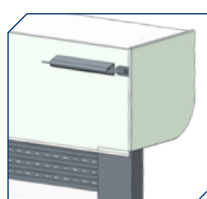
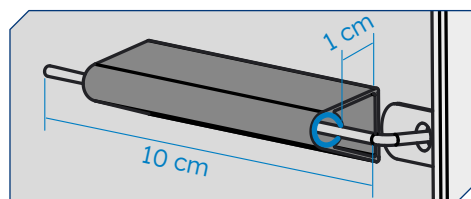
## Accessory bracket for antenna



To guarantee radio performances, it is mandatory to place the antenna outside the roller shutter box. This bracket enables to place 10cm of the antenna cable outside the roller shutterbox and 1cm away from a metallic part.

### References

DESCRIPTION	REFERENCES	
	x 1	x 100
Antenna bracket	9027175	9027174



## Accessory battery charger

New



A single charger for all NimH batteries for roller shutters and screen solar offers.

### Technical characteristics

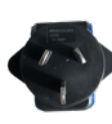
CLASS INSULATION	II
PROTECTION INDEX	IP30
MINIMUM VOLTAGE	8.4 V
MAXIMUM VOLTAGE	16.8 V
CABLE	1.80 m
DIMENSIONS	L 109 x l 49 x H 29 mm



Delivered with 2 cable extension to guarantee the compatibility with all solar offers.

### References

Description	References x 1
Nimh Battery charger	9028028



Type A

Type G

Type I

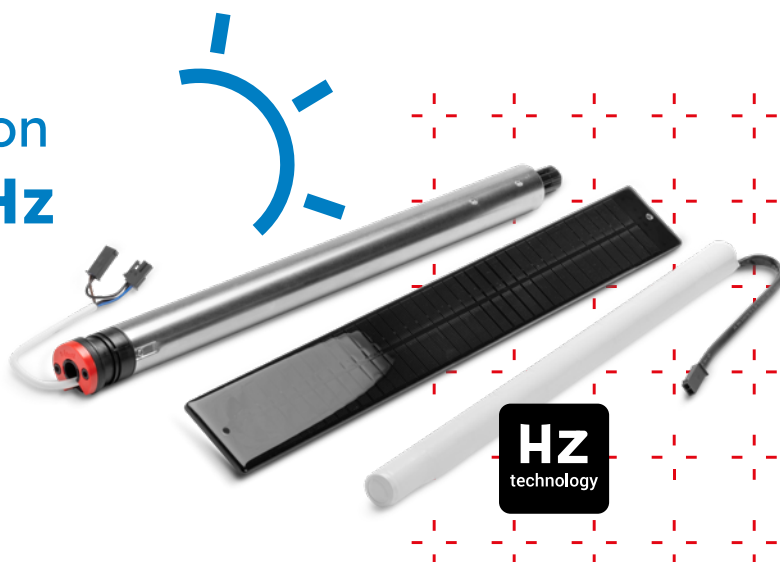
International outputs to guarantee compatibility in different countries.

Description	References x 1
Adapt type A charger/1	9028029
Adapt type G charger/1	9028030
Adapt type I charger/1	9028031



# Solar motorisation AUTOSUN 2 Hz

Motor  
Solar panel  
Battery



SIMU has been a recognised specialist in solar solutions for roller shutters since 2006. All our solar motors are made in France and comply with the Act For Green eco-design requirements.

AUTOSUN is the SIMU solar solution to motorise your roller shutter with a complete system including a motor, a battery, a solar panel and of complete choice of accessories.



## Zoom on the solar system

### La solution SOLAIRE 100% AUTONOME, sans travaux

- **Autonomous motorisation system** for roof and facade roller shutters, operating with solar energy, a free, clean and renewable energy.
- **No wiring:** AUTOSUN 2 HZ does not need to be connected neither to the electrical network nor to control points (SIMU-Hz radio technology), which means no degradation of interior walls.
- **Optimized outputs:** AUTOSUN 2 HZ has been designed to run in most geographical area.
- **Autonomy of the system:** 45 days without sun, 2 cycles per day.
- **Battery stick in alu cover:** for IP44 protection which makes it more resistant to shocks and liquid penetration.

An innovative solution that adapts to all types of roller shutters whatever your installation (renovation or new, roof or facade shutter).



Renovation



Traditional



Tunnel



CWS



Labeled Act for Green,  
AUTOSUN is a sustainable and responsible solution, developed according to ecodesign principles.

Motor



Solar panel



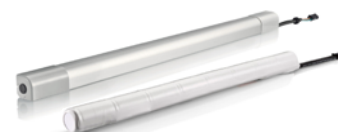
Battery



T3.5 EHZ DC motor:  
torques: 3, 6 or 10 Nm



Solar panel:  
with adhesives or with holes



Battery:  
naked battery or  
battery stick in alu cover



## T3.5 EHZ DC motorisation 100% radio

connecteur  
2 points (femelle)  
pour panneau solaire

connecteur 2 points  
(mâle) pour batterie



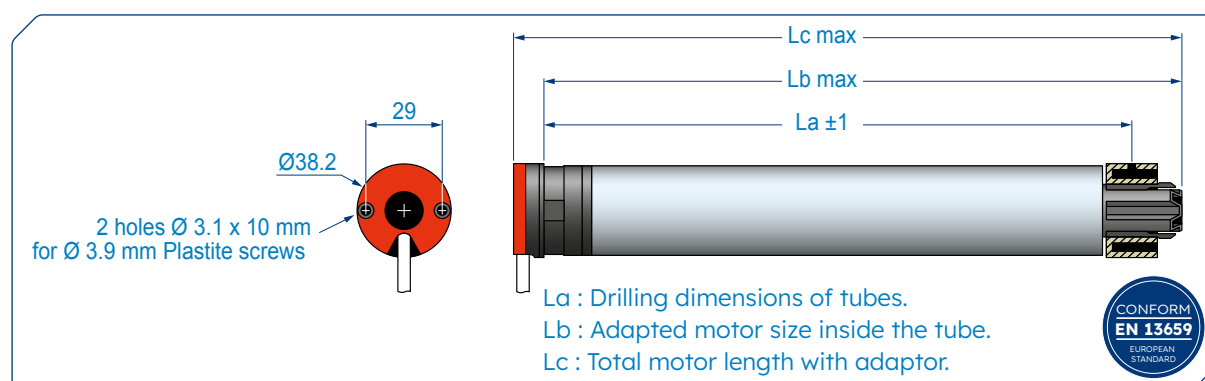
- **HZ radio technology** (433,42 MHz).
- **4 end-limit settings:** full automatic, manual, semi-automatic UP and semi-automatic DOWN.
- **Adjustment of the end limit with reduced speed** in manual end-limit adjustment to ease the setting.
- **Motor cable:** with 2 connectors 2 points and with mistakeproofing. Reduced size of the connectors to ease the integration inside the side frame.
- **Functions:**
  - **Stop on obstacle:** the motor will stop during the closing if it meets an obstacle.
  - **Frost detection:** the motor will stop during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.
  - **Intermediary position:** which can be adjusted to the user's need. Push "STOP" button of the transmitter to move the roller shutter to the favorite position.
  - **Soft start & Soft stop:** the motor will start in reduced speed during the opening and will stop in reduced speed during the opening and closing of the roller shutter.
  - **Motor Sleeping and Waking up modes are directly done from the transmitter,** no need to have access to the battery. The consumption is thus reduced to the minimum for storage or transportation of the roller shutter and the battery charge is then preserved. The motor will be woken up on site directly from the transmitter as well.
- **Compatible with all SIMU-Hz transmitters and automatic devices, such as TaHoma box.**

### References

#### 12 VDC POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References		
					La	Lb	Lc		x 1	x 10	x 100
T3.5 EHZ DC - 3/23	3 Nm	23 rpm	17 W	1.4 A	437	459	474	0.77 kg	2009080	2009083	2009086
T3.5 EHZ DC - 6/18	6 Nm	18 rpm	26 W	2.2 A	437	459	474	0.8 kg	2009081	2009084	2009087
T3.5 EHZ DC - 10/12	10 Nm	12 rpm	30 W	2.4 A	437	459	474	0.8 kg	2009082	2009085	2009088

### Technical characteristics



POWER SUPPLY	12 Volts
END-LIMIT	Electronic system with operating limited to 3 min.
PROTECTION INDEX	IP 44
POWER CABLE	Long. 0.2 meters, 3x0.75 mm <sup>2</sup> wires, white VVF with two connectors.
SIMU-HZ RADIO FREQUENCY	433.42 MHz
SECURE COMMUNICATION RANGE	Encrypted control orders + Rolling code with 16 million possible combinations. HZ wall transmitter: ~150 m in free field and ~15 m through 2 reinforced concrete walls. HZ mobile remote control: ~200m in free field and ~20m through 2 reinforced concrete walls.
MOTOR HEAD THICKNESS	14 mm.
END-LIMIT ADJUSTMENT	Every 60 cycles during 4 cycles.
STANDARDS	



## Battery naked or stick in alu cover



### NAKED BATTERY



Cable of 25 cm

### BATTERY STICK IN ALU COVER

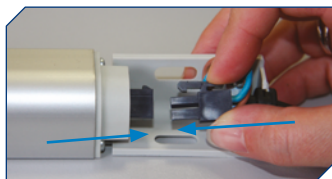


Cable 30 cm

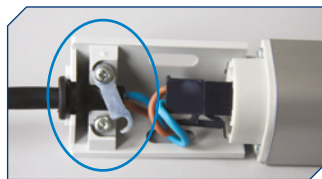
Cable 60 cm

### Wide range of batteries to suit at best all installation:

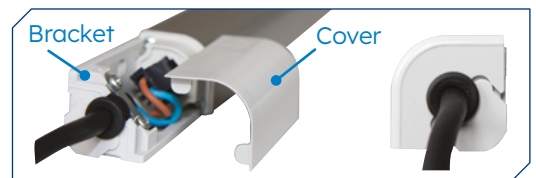
- 1 battery stick in alu cover and its cable of 30cm.
- 1 battery stick in alu cover and its cable of 60cm.
- 1 naked battery, without alu cover and its cable of 25cm. Mounting by pop rivet of the specific brackets and elastics to guarantee the fixing inside the roller shutter box.
- Reduced size of the connector to ease the integration inside the side frame.
- Battery in alu cover: possibility to connect and disconnect the battery cable easily without opening the roller shutter box. Indeed, once the plastic cover of the stick is removed you can unplug/plug the battery cable.



Extension cable with connectors for a quick disconnect



Fixing on the support to hold the cable in place



INSTALLATION	ADVANTAGES	RECOMMENDED BATTERIES
<b>Battery outside</b> the roller shutter box: - between the guide rail and the wall - behind the Roller Shutter box	Easy access to the battery for resetting the system or replacement of the battery.	- Battery in alu cover and its cable of 30cm. - Battery in alu cover and its cable of 60cm (fixing with adhesive or brackets).
<b>Battery inside</b> the roller shutter box.	Full integration in factory, nothing to do on site, the roller shutter is ready for use/installation on site.	- Battery in alu cover and its cable of 30cm (Fixing with adhesive or brackets). - Naked battery and its cable of 25cm (Fixing with specific brackets & elastics). <b>Only for RENOVATION roller shutter boxes.</b>

## Technical characteristics

BATTERY	Ni-MH
NOMINAL VOLTAGE	12 Volts
CAPACITY	2.2 Ah
AMBIENT TEMPERATURE OF USE	from -20°C to +70°C
PROTECTION INDEX	IP X4
LIFETIME	± 8 years
WEIGHT & DIMENSIONS	Naked battery: 430 x 23.5 mm - 520 gr Battery stick in alu cover: 570 x 27 x 27 mm with 0.3 m cable (2-point connector) - 730 gr 570 x 27 x 27 mm with 0.6 m cable (2-point connector) - 760 gr

## References

Description	References		
	x 1	x 10	x 20
Naked battery	2020808	-	9020628
Battery stick cable 30cm	9020634	9021212	-
Battery stick cable 60cm	9020635	9021213	-

Blocks



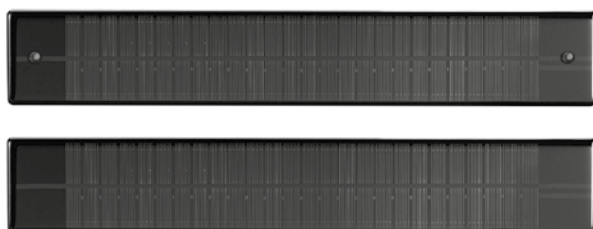
Bracket with elastic



Description	References
SOLAR KIT EXTERIOR C0.3M: BATTERY WITH CABLE OF 30CM (9020634) + SOLAR PANEL WITH FIXING HOLES (9019032)	9021214
SOLAR KIT EXTERIOR C0.6M: BATTERY WITH CABLE OF 60CM (9020635) + SOLAR PANEL WITH FIXING HOLES (9019032)	9021215

Description	References		
	x 1	x 40	x 200
Set of 20 adhesives batt stick (lenght x width = 550 x 15 mm)	9021216	-	-
Set of 2 wedges battery stick (dimension: 23 x 19 mm)	9020637	-	-
Bracket with elastic to fix naked battery	-	9020630	9020629

## Solar panel with holes or adhesive



New solar panel with adhesive to stick it directly on the roller shutter box without making holes.

- Solar panel in resin.
- Aesthetic design.
- 2 possible fixing:
  - Directly on the roller shutter box by pop rivets or with adhesive.
  - On the inclined brackets, on the roller shutter box or on the wall to capture more sun.
- All solar panels have a cable length of 20 cm.

### Technical characteristics

MATERIAL	Resin panel
TYPE OF PANEL	Photovoltaics monocristalin
PROTECTION INDEX	IP X4
DELIVERED VOLTAGE	195.8 mA maxi.
POWER	3.2 W
TYPE DE CÂBLE	Cable of 200 mm with 2-point connector - type Molex plug (male) and rubber cable-gland for impermeability.
TYPE OF CABLE	470 x 60 x 6 mm
WEIGHT	230 g

### References

Description	References		
	x 1	x 10	x 20
Solar panel with holes	9019032	-	9019031
Solar panel with adhesive	9020627	9020626	-

Description	References
	x 1
SOLAR KIT EXTERIOR C0.3M: Solar panel with fixing holes (9019032) + battery with cable of 30 cm (9020634)	9021214
SOLAR KIT EXTERIOR C0.6M: Solar panel with fixing holes (9019032) + battery with cable of 60 cm (9020635)	9021215

Description	References
	x 1
Solar panel bracket	9019683
Extension cable for solar panel (5 m)	9019722
Extension cable for solar panel (1 m)	9028176



Solar panel bracket

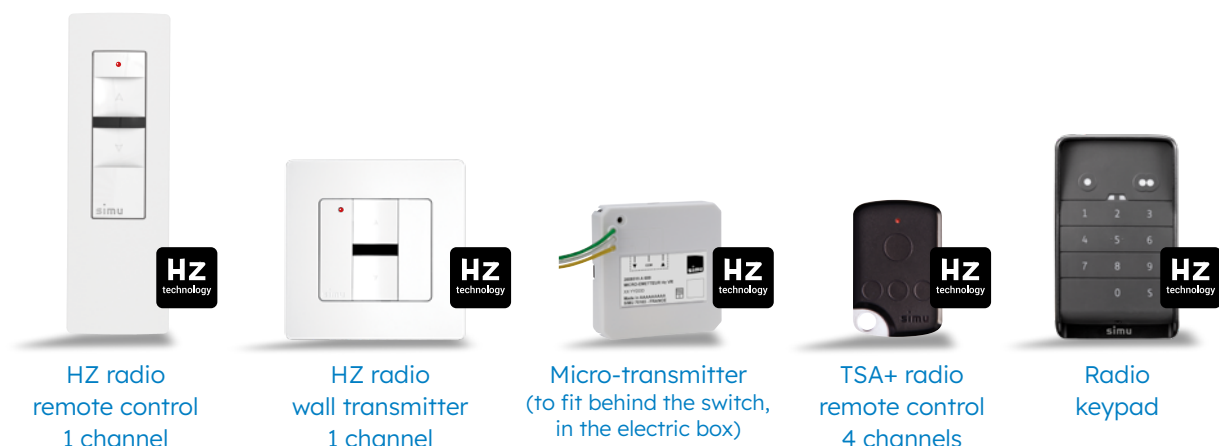


Extension cable



## Compatibilities controls & automatic devices

### TO PILOT A ROLLER SHUTTER DIRECTLY



### TO PROGRAM, AUTOMATE AND CENTRALISE THE SHUTTERS




### 100% CONNECTED OFFER

#### Make your life easy with TaHoma® switch!

With TaHoma®, you can control and connect your home equipment to all SIMU solutions (gate door opener, garage doors...) and enrich your customer connected experience!



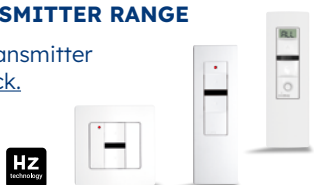


#### ...WITH TAHOMA® SWITCH

By connecting your roller shutter, enrich your home experience. TaHoma® switch centralise and connect all your roller shutters in the house.

#### ...THE HZ TRANSMITTER RANGE

1 or 5 channel transmitter without feedback.





## References for installers

### References

The kit is made up of one motor, one solar panel and battery in alu cover (cable 60cm), and is delivered in a single packaging, to meet at best installer needs or for one renovation.

Description	References
	x 1
T3.5 EHz 3/23 12V + SOL KIT EXT : T3.5 EHz DC 3/23 motor + battery with cable of 60 cm + solar panel	2009398
T3.5 EHz 6/18 12V + SOL KIT EXT : T3.5 EHz DC 6/18 motor + battery with cable of 60 cm + solar panel	2009399
T3.5 EHz 10/12 12V + SOL KIT EXT : T3.5 EHz DC 10/12 motor + battery with cable of 60 cm + solar panel	2009400



## Accessory battery charger

New



A single charger for all NimH batteries for roller shutters and screen solar offers.

### Technical characteristics

CLASS INSULATION	II
PROTECTION INDEX	IP30
MINIMUM VOLTAGE	8.4 V
MAXIMUM VOLTAGE	16.8 V
CABLE	1.80 m
DIMENSIONS	L 109 x l 49 x H 29 mm



Delivered with 2 cable extension to guarantee the compatibility with all solar offers.

### References

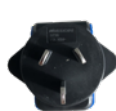
Description	References
	x 1
Nimh Battery charger	9028028



Type A



Type G



Type I

International outputs to guarantee compatibility in different countries.

Description	References
	x 1
Adapt type A charger/1	9028029
Adapt type G charger/1	9028030
Adapt type I charger/1	9028031



## After sales references



Motor cable



Battery cable

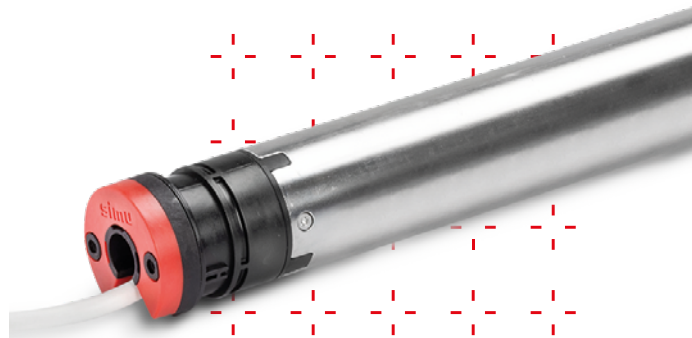
Description	References
	x 1
MOTOR CABLE: enable to keep the battery and the solar panel AUTOSUN 1 with one motor AUTOSUN 2	9020481
BATTERY CABLE: enable to keep the motor and the solar panel AUTOSUN 1 with one battery AUTOSUN 2	9020639



# T3.5 EBHZ motor

## electronic radio, Ø 40mm

MOTOR WITH BUILT-IN BIDIRECTIONAL  
RADIO SIMU-BHZ



### MOTOR WITH BUILT-IN BIDIRECTIONAL RADIO SIMU-BHZ

...a real time follow-up of your installation directly on smartphone.

The motor gives its position on your smartphone.

### ELECTRONIC END-LIMITS SYSTEM

...4 possible setting modes: automatic mode, down semi-automatic mode, up semi-automatic mode, manual mode.

### STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

### FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

### INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

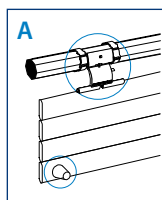
### CLASSE II MOTOR

...no earth connexion required.

### SIMPLE PROGRAMMING

...SIMU-Hz/SIMU-BHz continuity: your installation and programming habits remain the same as those of SIMU-Hz technology.

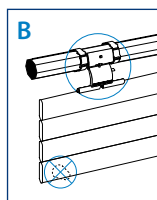
## 4 possible setting modes



### AUTOMATIC MODE

Shutters **WITH** locks  
and **WITH** stoppers

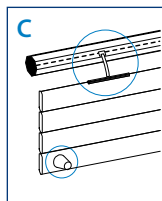
- automatic setting of the up limit position
- automatic setting of the down limit position from the specific setting switch.



### B SEMI-AUTOMATIC DOWN MODE

Shutters **WITH** locks  
and **WITHOUT** stoppers

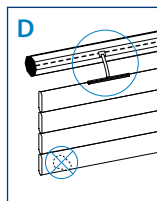
- automatic setting of the down limit position
- manual setting of the up limit position from the specific setting switch.



### C SEMI-AUTOMATIC UP MODE

Shutters **WITHOUT** locks  
and **WITH** stoppers

- automatic setting of the up limit position
- manual setting of the down limit position from the specific setting switch.



### D MANUAL MODE

Shutters **WITHOUT** locks  
and **WITHOUT** stoppers

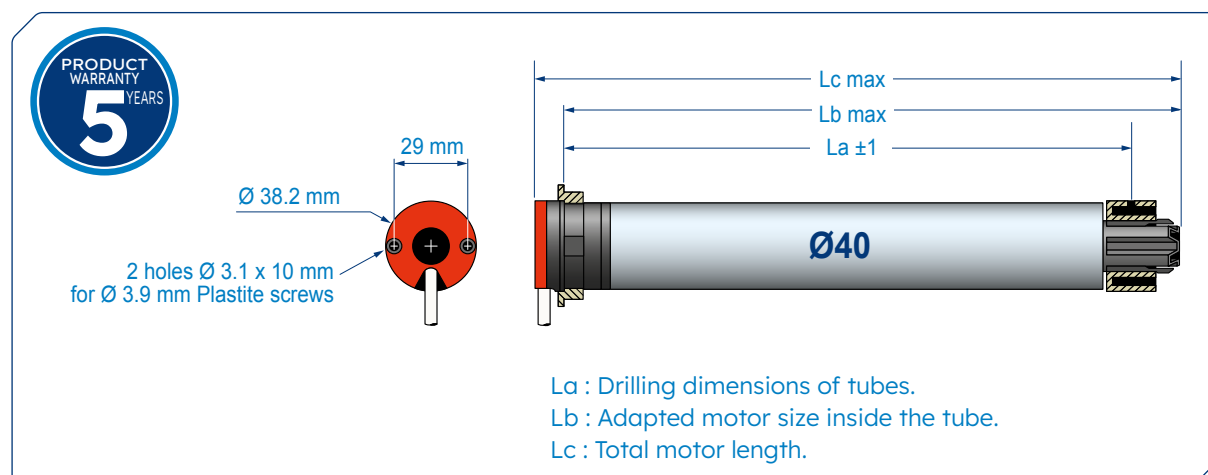
- manual setting of the up limit position from the specific setting switch.
- manual setting of the down limit position from the specific setting switch.

## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					L <sub>a</sub>	L <sub>b</sub>	L <sub>c</sub>		x 1	x10
T3.5 EBHZ	4 Nm	16 rpm	80 W	0.39 A	437	460	475	1.08 kg	2009220	2009217
T3.5 EBHZ	9 Nm	16 rpm	110 W	0.52 A	472	495	510	1.15 kg	2009221	2009218
T3.5 EBHZ	13 Nm	16 rpm	110 W	0.52 A	472	495	510	1.15 kg	2009222	2009219

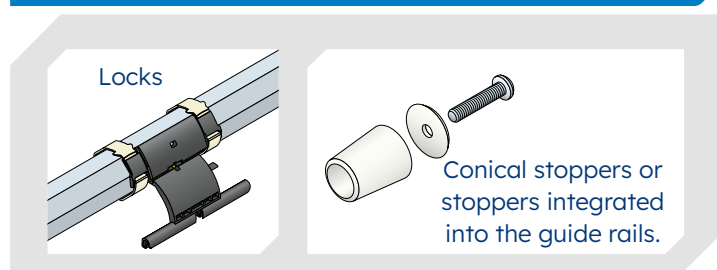
## Dimensions



## Technical characteristics

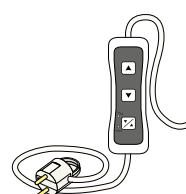
POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMITS	Electronic system with operating.
END-LIMIT READJUSTMENT	Every 56 cycles during 4 cycles.
PROTECTION INDEX	IP 44
POWER CABLE	3 meters (2x0.75 mm <sup>2</sup> wires, white H05 VV-F).
RADIO FREQUENCY BHZ	Tri-band radio frequency 868-870 MHz with possibility to edit 8 times the order.
RADIO RANGE	BHZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls. BHZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls. The range may vary depending on the environment and on the radio pollution.
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class II motor
COMPLIANCE	European standards (EN) + IEC standards (international standards)
CERTIFICATIONS	

## Recommended equipments



for automatic or semi-automatic mode, up or down.

## Specific setting switch



### References

Description	References
	x 1
Universal setting switch	9025462





# T5S EBHZ motor

## electronic radio, Ø 50mm

MOTOR WITH BUILT-IN BIDIRECTIONAL  
RADIO SIMU-BHZ



### MOTOR WITH BUILT-IN BIDIRECTIONAL RADIO SIMU-BHZ

...a real time follow-up of your installation directly on smartphone.  
The motor gives its position on your smartphone.

### ELECTRONIC END-LIMITS SYSTEM

...4 possible setting modes: automatic mode, down semi-automatic mode, up semi-automatic mode, manual mode.

### STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

### FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

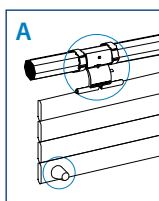
### INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

### SIMPLE PROGRAMMING

...SIMU-Hz/SIMU-BHz continuity: your installation and programming habits remain the same as those of SIMU-Hz technology.

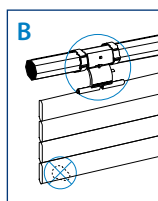
## 4 possible setting modes



### AUTOMATIC MODE

Shutters **WITH** locks  
and **WITH** stoppers

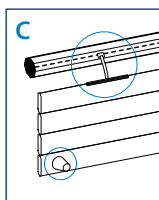
- automatic setting of the up limit position
- automatic setting of the down limit position from the specific setting switch.



### SEMI-AUTOMATIC DOWN MODE

Shutters **WITH** locks  
and **WITHOUT** stoppers

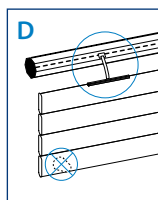
- automatic setting of the down limit position
- manual setting of the up limit position from the specific setting switch.



### SEMI-AUTOMATIC UP MODE

Shutters **WITHOUT** locks  
and **WITH** stoppers

- automatic setting of the up limit position
- manual setting of the down limit position from the specific setting switch.



### MANUAL MODE

Shutters **WITHOUT** locks  
and **WITHOUT** stoppers

- manual setting of the up limit position from the specific setting switch.
- manual setting of the down limit position from the specific setting switch.

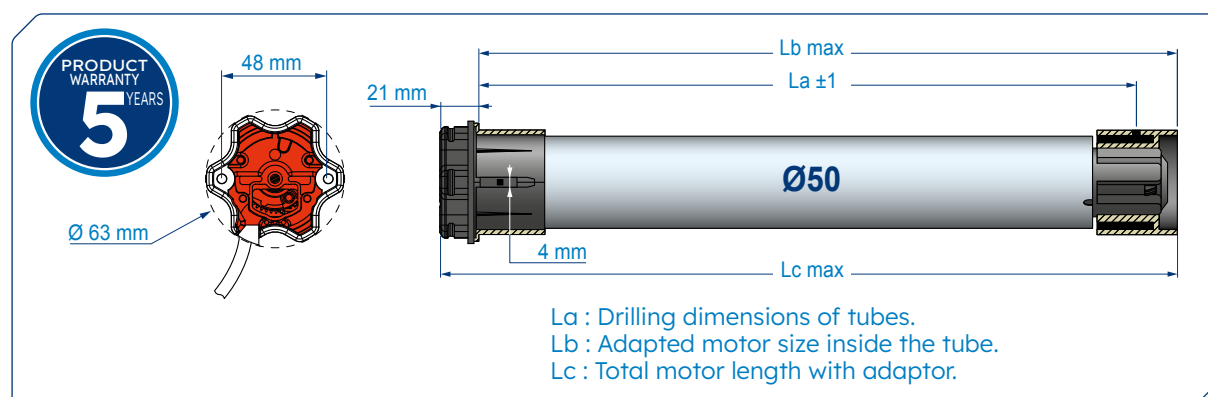
## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x10
T5S EBHZ - 8/17	8 Nm	17 rpm	100 W	0.45 A	583	596	617	1.96 kg	2009790	-
T5S EBHZ - 10/17	10 Nm	17 rpm	120 W	0.5 A	583	596	617	2.01 kg	2009791	-
T5S EBHZ - 15/17	15 Nm	17 rpm	140 W	0.65 A	583	596	617	2.27 kg	2009792	2010033
T5S EBHZ - 20/17	20 Nm	17 rpm	160 W	0.75 A	657	670	691	2.39 kg	2009793	2010034
T5S EBHZ - 25/17	25 Nm	17 rpm	170 W	0.8 A	657	670	691	2.48 kg	2009794	-
T5S EBHZ - 35/17	35 Nm	17 rpm	240 W	1.1 A	657	670	691	2.67 kg	2009795	2010035
T5S EBHZ - 50/12	50 Nm	12 rpm	240 W	1.1 A	657	670	691	2.7 kg	2009796	2010036

Available with adaptor sets - Contact us.

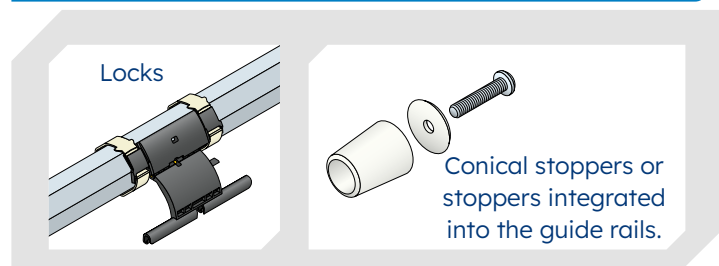
## Dimensions



## Technical characteristics

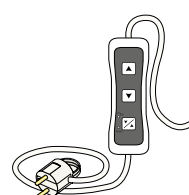
POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMIT	Electronic system with operating limited to 3 minutes.
END-LIMIT READJUSTMENT	Every 60 cycles during 4 cycles.
PROTECTION INDEX	IP 44
POWER CABLE	2.5 meters (3x0.75 mm <sup>2</sup> wires, white H05 VV-F) pluggable.
RADIO FREQUENCY BHZ	Tri-band radio frequency 868-870 MHz with possibility to edit 8 times the order.
RADIO RANGE	BHZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls. BHZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls. The range may vary depending on the environment and on the radio pollution.
MOTOR HEAD THICKNESS	21 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) + IEC standards (international standards)
CERTIFICATIONS	
STANDARD	

## Recommended equipments



for automatic or semi-automatic mode, up or down.

## Specific setting switch



### References

Description	References
Universal setting switch	x 1 9025462



# T5S AUTO<sup>®</sup>SHORT BHZ motor

## short electronic radio, Ø50mm

MOTOR WITH BUILT-IN BIDIRECTIONAL  
RADIO SIMU-BHz



MOTOR SUITABLE FOR SHORT WIDTH ROLLER SHUTTER  
...thanks to its length of only 383mm, including the adaptor set.

STOP ON OBSTACLE FUNCTION  
...the motor stops during the closing in case of an obstacle.

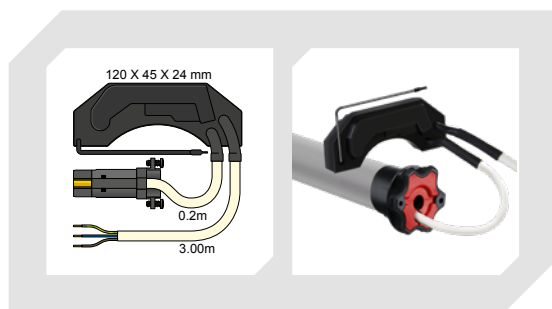
FROST DETECTION FUNCTION  
...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

INTERMEDIATE POSITION FUNCTION  
...it is possible to record a user's favorite position.

AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS  
...the roller shutter must be equipped with up and down stoppers.

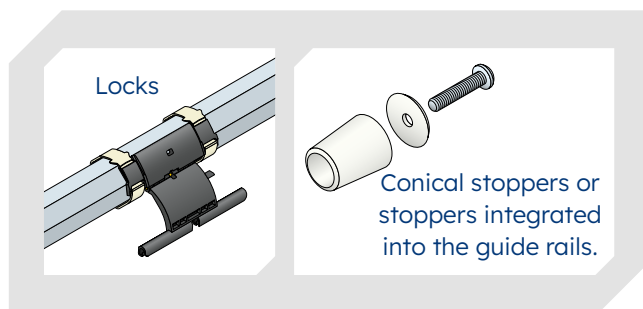
SIMPLE PROGRAMMING  
...SIMU-Hz/SIMU-BHz continuity: your installation and programming habits remain the same as those of SIMU-Hz technology.

### Accessories



DEPORTED ELECTRONIC PLATE  
WITH ANTENNA

### Required equipments



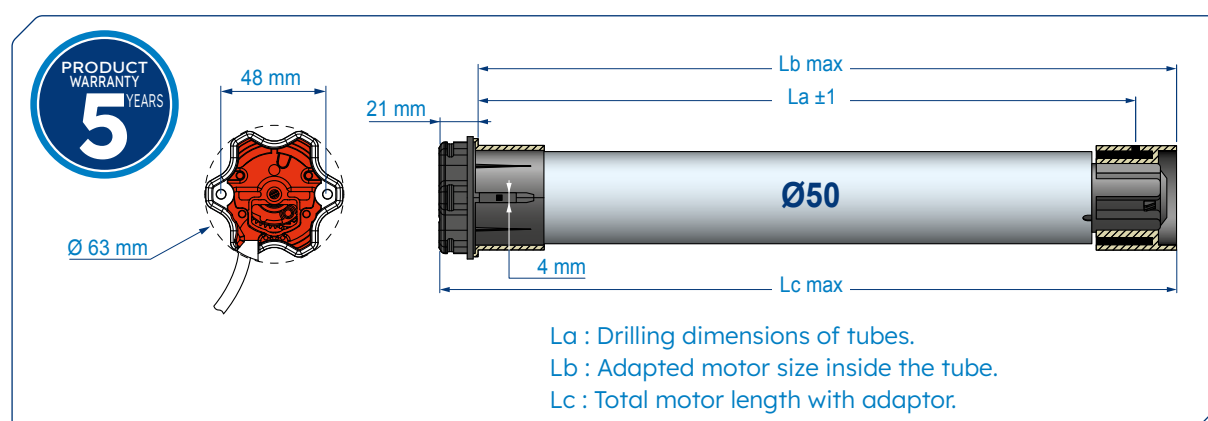
## References

ALIMENTATION 230V / 50 HZ




Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 10
T5S AUTO®SHORT BHZ	6 Nm	17 rpm	90 W	0.4 A	349	362	383	1.63 kg	2009798	2010309

Available with adaptor sets - Contact us.

## Dimensions



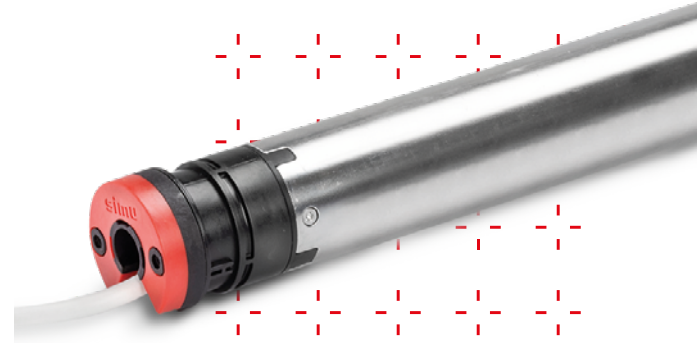
## Technical characteristics

POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMIT	Electronic system integrated is the deported plate with operating limited to 3 minutes. The readjustment is automatic and permanent.
PROTECTION INDEX	IP 44
POWER CABLE	3 meters (3x0.75 mm <sup>2</sup> wires, H05 VV-F white) pluggable.
BHZ RADIO FREQUENCY	Tri-band radio frequency 868-870 MHz with possibility to edit 8 times the order.
DIAMETER OF THE CROWN	For Ø50 x 1.5 mm round tube
MOTOR HEAD THICKNESS	21 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Classe I
COMPLIANCE	European standards (EN) - IEC standards (international standards)
CERTIFICATIONS	 
STANDARD	



## T3.5 Hz02 motor

radio electronic, Ø 40mm



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

ELECTRONIC END-LIMIT SYSTEM

REMOTE SETTING OF THE UP AND DOWN END-LIMITS

...from a SIMU-Hz transmitter.

INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

CLASS II MOTOR

...no earth connection required.

COMPATIBILITY

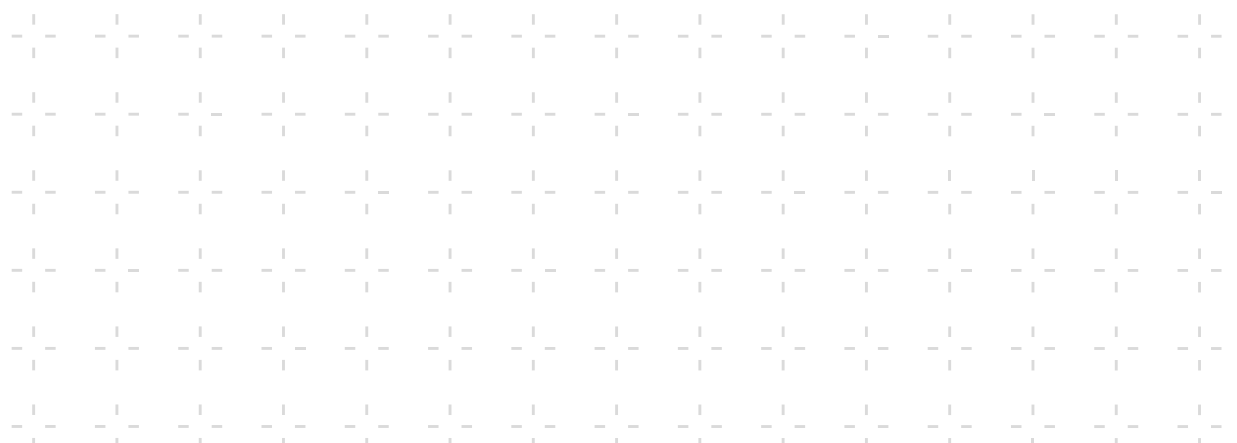
...with all control points and wind/sun sensors from the SIMU-Hz range.

MULTIPURPOSE

...can be adapted to any type of application: roller shutters, screens, valances, lateral arm awnings.

MOTOR PROTECTION

...if the crown does not turn, the motor stops itself.

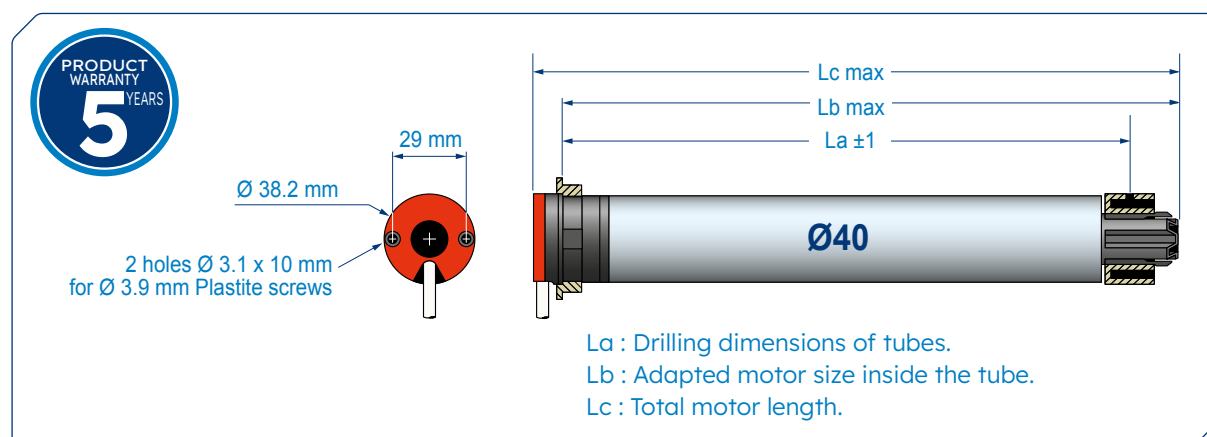


## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References		
					La	Lb	Lc		x 1	x 10	x100
T3.5 HZ02	3 Nm	30 rpm	90 W	0.42 A	472	495	510	1.17 kg	2008657	2008658	-
T3.5 HZ02	4 Nm	16 rpm	80 W	0.35 A	437	460	475	1.11 kg	2008659	2008660	-
T3.5 HZ02	9 Nm	16 rpm	110 W	0.5 A	472	495	510	1.28 kg	2008661	2008662	2008667
T3.5 HZ02	13 Nm	10 rpm	110 W	0.5 A	472	495	510	1.28 kg	2008663	2008664	-

## Dimensions



## Technical characteristics

POWER SUPPLY 230 Volt - 50 Hz

THERMAL CUT-OUT 4 minutes

END-LIMITS Electronic system with operating limited to 3 min.

PROTECTION INDEX IP 44

POWER CABLE Cable white 3 meters (2x0.75 mm<sup>2</sup> wires, white H05 VV-F). But also version with lack or white in 3, 5 and 10 meters for some torques. Consult us.

RADIO FREQUENCY 433.42 MHz

SECURE COMMUNICATION Encrypted control orders + Rolling code with 16 million possible combinations.

RADIO RANGE HZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls.  
HZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls.  
The range may vary depending on the environment and on the radio pollution.

4 CYCLES PER DAY Non consecutive

INSULATION CLASS Class II motor

COMPLIANCE European standards (EN) + IEC standards (international standards)

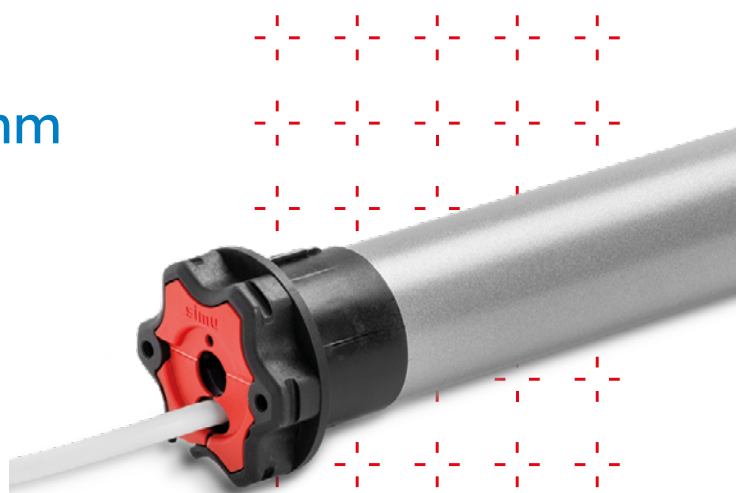
CERTIFICATIONS

STANDARD



# T5S EHZ motor

## electronic radio, Ø 50mm



MOTOR WITH BUILT-IN SIMU-Hz RADIO RECEIVER

ELECTRONIC END-LIMITS SYSTEM

...4 possible setting modes: automatic mode, down semi-automatic mode, up semi-automatic mode, manual mode.

STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

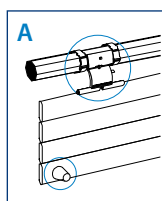
FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

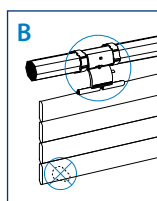
### 4 possible setting modes



#### AUTOMATIC MODE

Shutters **WITH** locks  
and **WITH** stoppers

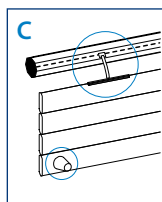
- automatic setting of the up limit position
- automatic setting of the down limit position from the specific setting switch.



#### SEMI-AUTOMATIC DOWN MODE

Shutters **WITH** locks  
and **WITHOUT** stoppers

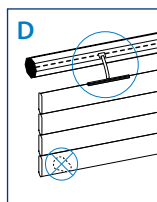
- automatic setting of the down limit position
- manual setting of the up limit position from the specific setting switch.



#### SEMI-AUTOMATIC UP MODE

Shutters **WITHOUT** locks  
and **WITH** stoppers

- automatic setting of the up limit position
- manual setting of the down limit position from the specific setting switch.



#### MANUAL MODE

Shutters **WITHOUT** locks  
and **WITHOUT** stoppers

- manual setting of the up limit position from the specific setting switch.
- manual setting of the down limit position from the specific setting switch.

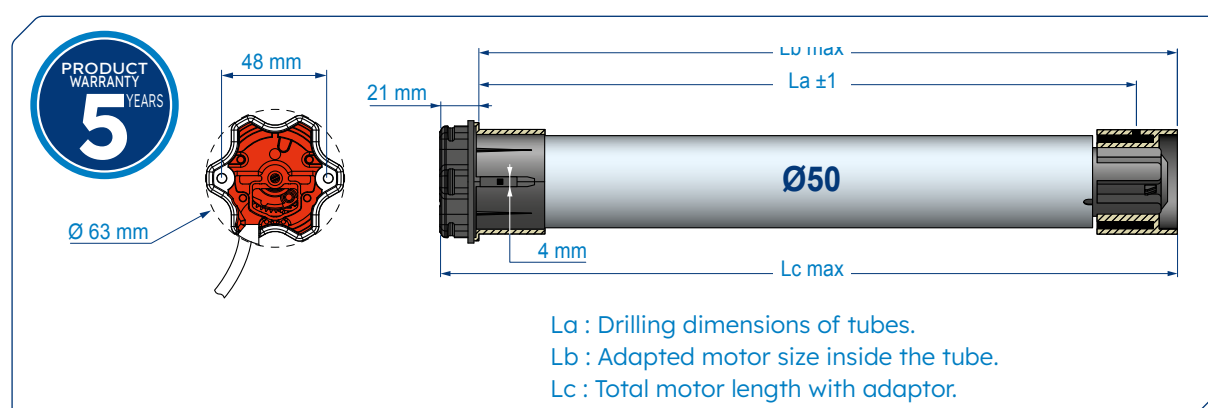


## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References				
					La	Lb	Lc		x 1		x10		x100
									2.5m cable	5m cable	2.5m cable	5m cable	2.5m cable
T5S EHZ - 8/17	8 Nm	17 rpm	100 W	0.45 A	583	596	617	1.96 kg	2010367	2010381	2010374	2010388	2010395
T5S EHZ - 10/17	10 Nm	17 rpm	120 W	0.5 A	583	596	617	2.01 kg	2010368	2010382	2010375	2010389	2010396
T5S EHZ - 15/17	15 Nm	17 rpm	140 W	0.65 A	583	596	617	2.27 kg	2010369	2010383	2010376	2010390	-
T5S EHZ - 20/17	20 Nm	17 rpm	160 W	0.75 A	657	670	691	2.39 kg	2010370	2010384	2010377	2010391	-
T5S EHZ - 25/17	25 Nm	17 rpm	170 W	0.8 A	657	670	691	2.48 kg	2010371	2010385	2010378	2010392	-
T5S EHZ - 35/17	35 Nm	17 rpm	240 W	1.1 A	657	670	691	2.67 kg	2010372	2010386	2010379	2010393	-
T5S EHZ - 50/12	50 Nm	12 rpm	240 W	1.1 A	657	670	691	2.7 kg	2010373	2010387	2010380	2010394	-

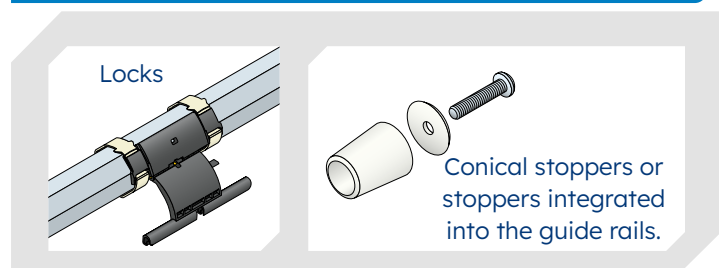
## Dimensions



## Technical characteristics

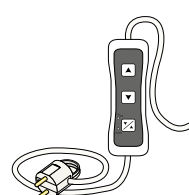
POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMITS	Electronic system with operating limited to 3 minutes.
END-LIMIT READJUSTMENT	Every 60 cycles during 4 cycles.
PROTECTION INDEX	IP 44
POWER CABLE	2.5 or 5 meters (3x0.75 mm <sup>2</sup> wires, white H05 VV-F) pluggable.
RADIO RANGE	HZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls. HZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls. The range may vary depending on the environment and on the radio pollution.
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Classe I
COMPLIANCE	European standards (EN) + IEC standards (international standards)
CERTIFICATIONS	
STANDARD	

## Recommended equipments



for automatic or semi-automatic mode, up or down.

## Specific setting switch



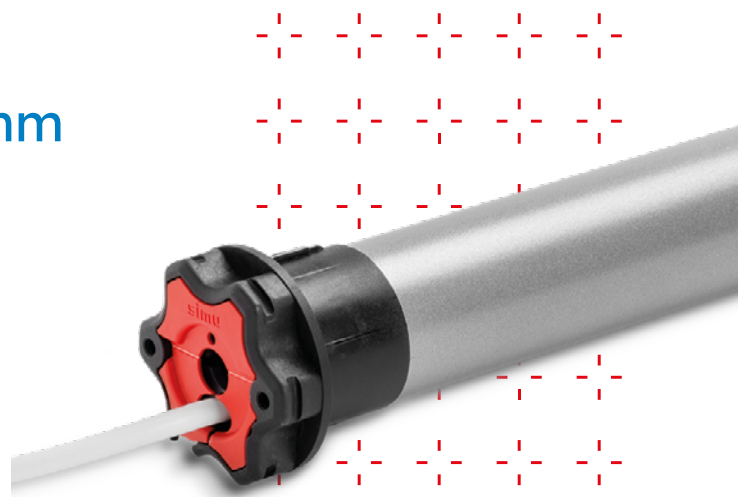
### References

Description	References
	x 1
Universal setting switch	9025462



## T5S HZ02 motor

electronic radio, Ø 50mm

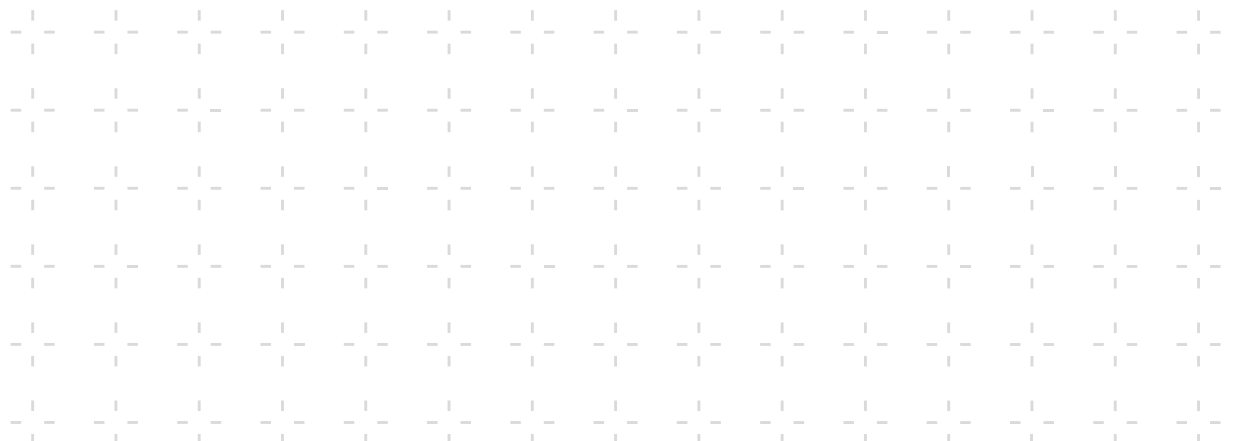


MOTOR WITH BUILT-IN SIMU-Hz RADIO RECEIVER

ELECTRONIC END-LIMITS SYSTEM

REMOTE SETTING OF THE UP AND DOWN END-LIMITS  
...from a SIMU-Hz transmitter.

INTERMEDIATE POSITION FUNCTION  
...it is possible to record a user's favorite position.



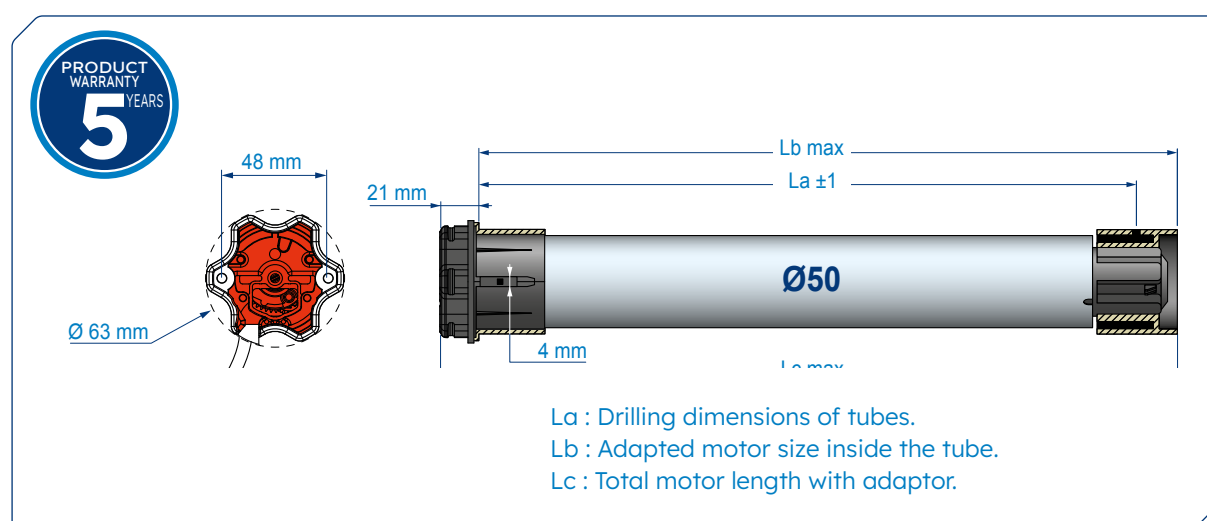
## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References x 1
					La	Lb	Lc		
T5S HZ02 - 8/17	8 Nm	17 rpm	100 W	0.45 A	583	596	617	1.96 kg	2010316
T5S HZ02 - 10/17	10 Nm	17 rpm	120 W	0.5 A	583	596	617	2.01 kg	2010319
T5S HZ02 - 20/17	20 Nm	17 rpm	160 W	0.75 A	657	670	691	2.39 kg	2010322
T5S HZ02 - 35/17	35 Nm	17 rpm	240 W	1.1 A	657	670	691	2.67 kg	2010325
T5S HZ02 - 50/12	50 Nm	12 rpm	240 W	1.1 A	657	670	691	2.7 kg	2010328

Available with adaptor sets - Contact us.

## Dimensions



## Technical characteristics

POWER SUPPLY 230 Volts - 50 Hz

THERMAL CUT-OUT 4 minutes (230V)

END-LIMITS Electronic system with operating limited to 3 min.

PROTECTION INDEX IP 44

230V POWER CABLE 2.5 meters (3x0.75 mm<sup>2</sup> wires, white H05 VV-F), pluggable.

HZ RADIO FREQUENCY 433.42 MHz radio

SECURE COMMUNICATION Encrypted control orders + Rolling code with 16 million possible combinations.

RADIO RANGE HZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls.  
HZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls.  
The range may vary depending on the environment and on the radio pollution.

4 CYCLES PER DAY Non consecutive

INSULATION CLASS Class I motor

COMPLIANCE European standards (EN) + IEC standards (international standards)

CERTIFICATIONS

STANDARD



# T5S AUTO<sup>®</sup>SHORT HZ motor

short electronic radio, Ø 50mm



**MOTOR SUITABLE FOR SHORT WIDTH ROLLER SHUTTER**  
...thanks to its length of only 383mm, including the adaptor set.

**STOP ON OBSTACLE FUNCTION**  
...the motor stops during the closing in case of an obstacle.

**FROST DETECTION FUNCTION**  
...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

**INTERMEDIATE POSITION FUNCTION**  
...it is possible to record a user's favorite position.

**AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS**  
...the roller shutter must be equipped with up and down stoppers.

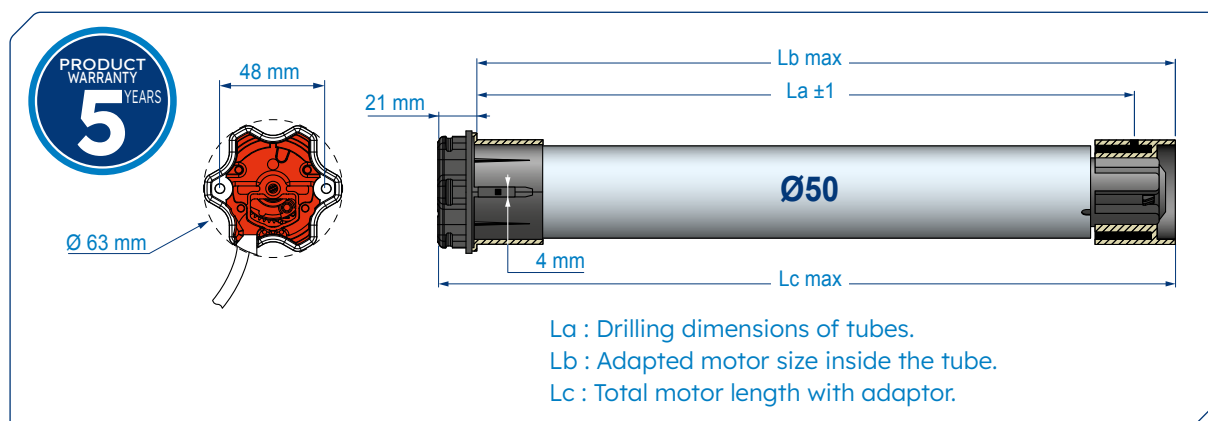
**SIMPLE PROGRAMMING**  
...SIMU-Hz/SIMU-BHz continuity: your installation and programming habits remain the same as those of SIMU-Hz technology.






230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References		
					La	Lb	Lc		x 1	x 10	x 100
T5S AUTO®SHORT HZ	6 Nm	17 rpm	90 W	0.4 A	349	362	383	1.63 kg	2010334	2010335	2010336

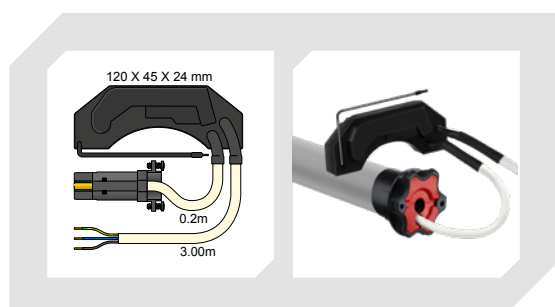
## Dimensions



## Technical characteristics

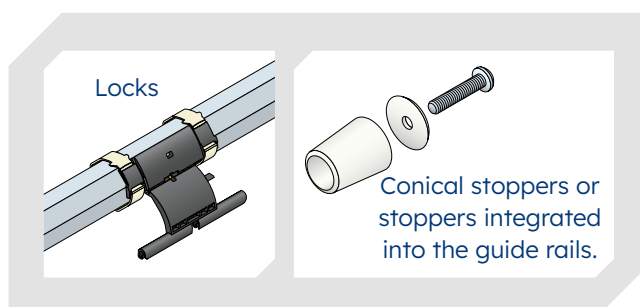
POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMIT	Electronic system integrated is the deported plate with operating limited to 3 minutes. The readjustment is automatic and permanent.
PROTECTION INDEX	IP 44
POWER CABLE	3 meters (3x0.75 mm <sup>2</sup> wires, H05 VV-F white) pluggable.
HZ RADIO FREQUENCY	433.42 MHz radio
DIAMETER OF THE CROWN	For Ø50 x 1.5 mm round tube
MOTOR HEAD THICKNESS	21 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Classe I
COMPLIANCE	European standards (EN) – IEC standards (international standards)
CERTIFICATIONS	 
STANDARD	

## Accessories



## DEPORTED ELECTRONIC PLATE WITH ANTENNA

## Required equipments

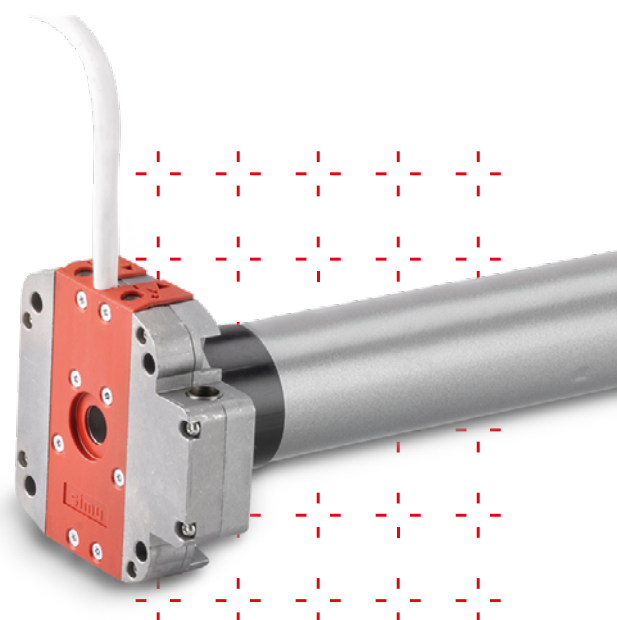






# DMI5 Hz01 motor radio, Ø 50mm

RADIO MOTOR  
WITH BUILT-IN MANUAL OVERRIDE



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

PROGRESSIVE END-LIMITS SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD  
...on either sides of the head.

COMPACT MOTOR HEAD  
...only 24mm thickness.

## References

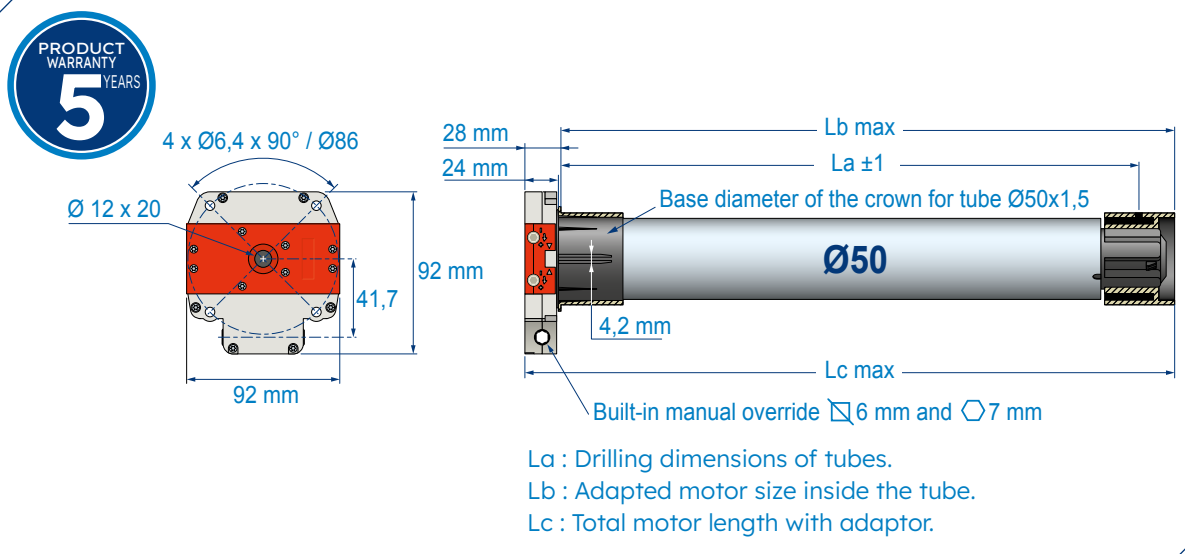
230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
DMI5 HZ01 - 10/17	10 Nm	17 rpm	120 W	0.5 A	716	729	757	2.85 kg	2004667
DMI5 HZ01 - 25/17	25 Nm	17 rpm	170 W	0.8 A	716	729	757	3.27 kg	2004668
DMI5 HZ01 - 35/17	35 Nm	17 rpm	240 W	1.1 A	756	769	797	3.44 kg	2004669
DMI5 HZ01 - 50/12	50 Nm	12 rpm	260 W	1.1 A	756	769	797	3.46 kg	2004670

120V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
DMI5 HZ01 - 15/18	15 Nm	18 rpm	145 W	1.3 A	716	729	757	3.91 kg	2004671
DMI5 HZ01 - 25/18	25 Nm	18 rpm	180 W	1.6 A	756	769	797	4.15 kg	2004672
DMI5 HZ01 - 30/12	30 Nm	12 rpm	170 W	1.5 A	756	769	797	4.2 kg	2004673
DMI5 HZ01 - 35/18	35 Nm	18 rpm	250 W	2.1 A	756	769	797	4.3 kg	2004674
DMI5 HZ01 - 50/12	50 Nm	12 rpm	250 W	2.1 A	756	769	797	4.4 kg	2004675

## Dimensions



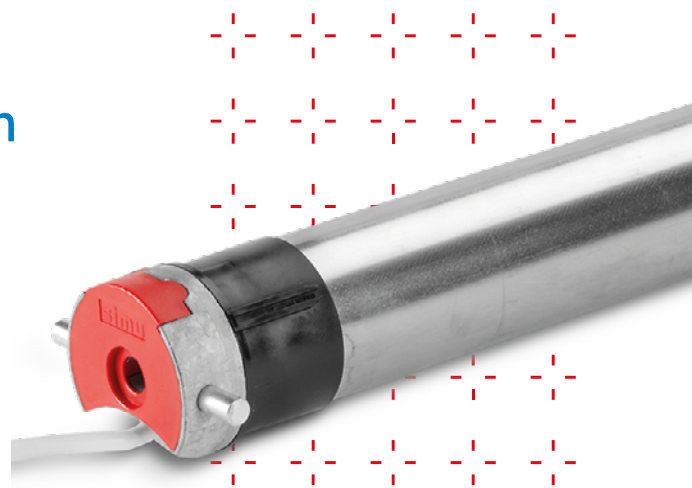
## Technical characteristics

POWER SUPPLY	230 Volt - 50 Hz or 120 Volts - 60Hz (US range)
THERMAL CUT-OUT	4 minutes (230V) or 5 minutes (120V)
PROGRESSIVE END-LIMITS	with a capacity of 28 rounds
REDUCING RATIO	of the manual override: 27/1
PROTECTION INDEX	IP 44
230V POWER CABLE	2.5 meters (3x0.75 mm <sup>2</sup> wires, white H05 VV-F)
120V POWER CABLE	6 meters (3xAWG19 wires, white 05 VV-F) + NEMA plug.
HZ RADIO FREQUENCY	433.42 MHz radio
SECURE COMMUNICATION	Encrypted control orders + Rolling code with 16 million possible combinations.
RADIO RANGE	HZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls. HZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls. The range may vary depending on the environment and on the radio pollution.
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) + IEC standards (international standards)
CERTIFICATIONS	
STANDARD	



## T6 Hz02 motor

electronic radio, Ø 60mm

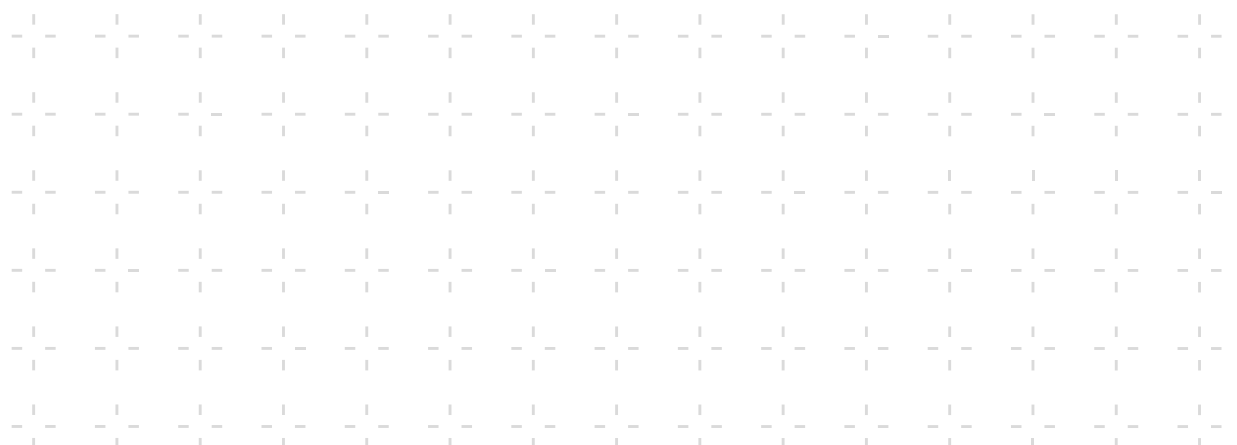


MOTOR WITH BUILT-IN SIMU-Hz RADIO RECEIVER

ELECTRONIC END-LIMITS SYSTEM

REMOTE SETTING OF THE UP AND DOWN END-LIMITS  
...from a SIMU-Hz transmitter.

INTERMEDIATE POSITION FUNCTION  
...it is possible to record a user's favorite position.



## References

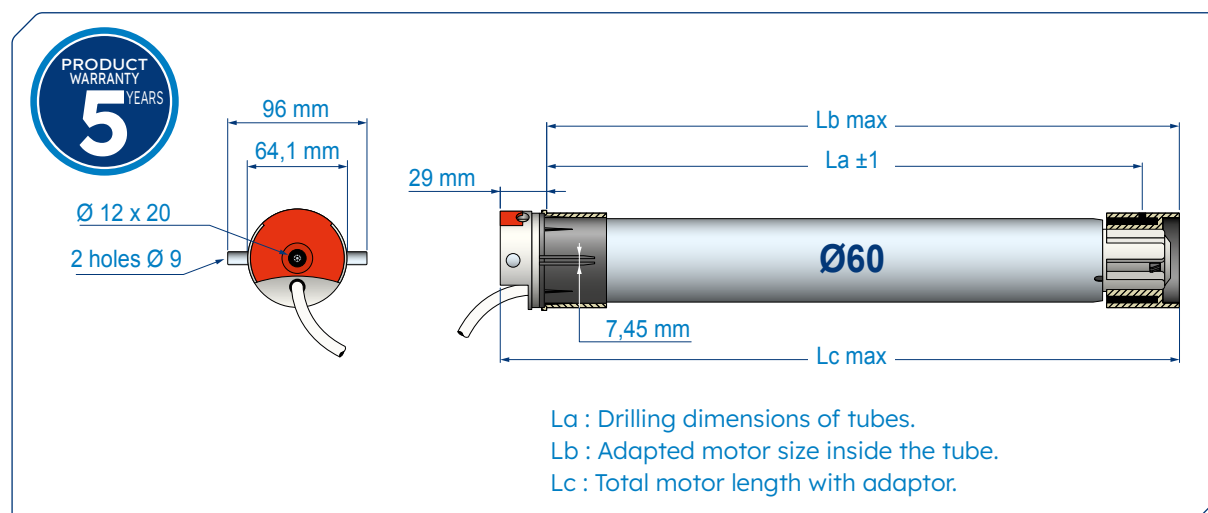
### 230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References x 1
					La	Lb	Lc		
T6 HZ02 - 60/12	60 Nm	12 rpm	240 W	1.05 A	716	729	758	4.7 kg	2006372
T6 HZ02 - 80/12	80 Nm	12 rpm	290 W	1.25 A	716	729	758	5 kg	2006373
T6 HZ02 - 100/12	100 Nm	12 rpm	350 W	1.5 A	716	729	758	5.3 kg	2006374
T6 HZ02 - 120/12	120 Nm	12 rpm	400 W	1.8 A	716	729	758	5.5 kg	2006375

### 120V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References x 1
					La	Lb	Lc		
T6 HZ02 - 60/14	60 Nm	14 rpm	285 W	2.5 A	716	729	758	5 kg	2006060
T6 HZ02 - 80/14	80 Nm	14 rpm	390 W	3.4 A	716	729	758	5.4 kg	2006061
T6 HZ02 - 100/14	100 Nm	14 rpm	430 W	3.8 A	716	729	758	5.6 kg	2006062

## Dimensions



## Technical characteristics

POWER SUPPLY 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)

THERMAL CUT-OUT 4 minutes (230V) or 5 minutes (120V)

END-LIMITS Electronic system with operating limited to 3 min.

PROTECTION INDEX IP 44

230V POWER CABLE 2.5 meters (3x0.75 mm<sup>2</sup> wires, white H05 VV-F).

120V POWER CABLE 2.5 meters (3xAWG19 wires, white 05 VV-F),

HZ RADIO FREQUENCY 433.42 MHz radio

SECURE COMMUNICATION Encrypted control orders + Rolling code with 16 million possible combinations.

RADIO RANGE HZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls.  
HZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls.  
The range may vary depending on the environment and on the radio pollution.

4 CYCLES PER DAY Non consecutive

INSULATION CLASS Class I motor

COMPLIANCE European standards (EN) + IEC standards (international standards)

CERTIFICATIONS

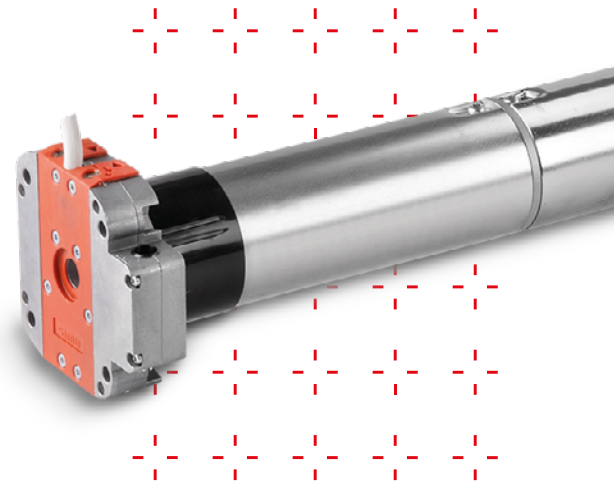
STANDARD



# DMI6 Hz01 motor

## radio, Ø 60mm

**RADIO MOTOR  
WITH BUILT-IN MANUAL OVERRIDE**

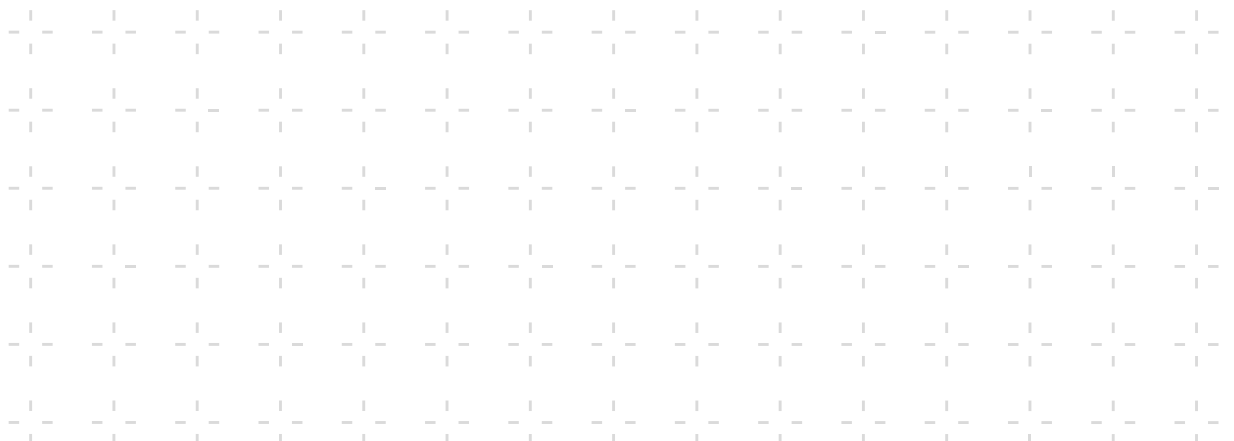


MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

PROGRESSIVE END-LIMITS SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD  
...on either sides of the head.

COMPACT MOTOR HEAD  
...only 24mm thickness.





## References

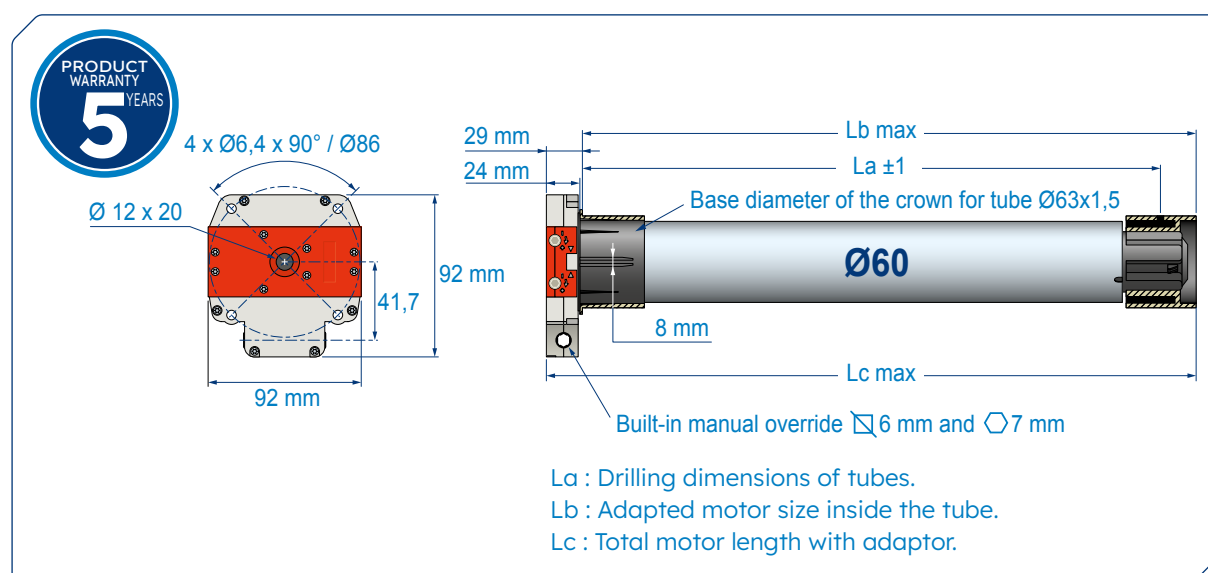
### 230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References x 1
					La	Lb	Lc		
DMI6 HZ01 - 100/12	100 Nm	12 rpm	350 W	1.5 A	836	849	878	6 kg	2006378
DMI6 HZ01 - 120/12	120 Nm	12 rpm	400 W	1.8 A	836	849	878	6.2 kg	2006379

### 120V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References x 1
					La	Lb	Lc		
DMI6 HZ01 - 80/14	80 Nm	14 rpm	390 W	3.4 A	836	849	878	6.1 kg	2007146
DMI6 HZ01 - 100/14	100 Nm	14 rpm	430 W	3.8 A	836	849	878	6.4 kg	2007156

## Dimensions



## Technical characteristics

**POWER SUPPLY** 230 Volt - 50 Hz or 120 Volts - 60 Hz (US range)

**THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)

**PROGRESSIVE END-LIMITS** with a capacity of 28 rounds

**REDUCING RATIO** of the manual override: 55/1

**PROTECTION INDEX** IP 44

**230V POWER CABLE** 2.5 meters (3x0.75 mm<sup>2</sup> wires, white H05 VV-F)

**120V POWER CABLE** 6 meters (3xAWG19 wires, white 05 VV-F) + NEMA plug.

**HZ RADIO FREQUENCY** 433.42 MHz radio

**SECURE COMMUNICATION** Encrypted control orders + Rolling code with 16 million possible combinations.

**RADIO RANGE** HZ wall remote control: ~150 m in open field and ~15m through 2 reinforced concrete walls.  
HZ mobile transmitter: ~200 m in open field and ~20m through 2 reinforced concrete walls.  
The range may vary depending on the environment and on the radio pollution.

**4 CYCLES PER DAY** Non consecutive

**INSULATION CLASS** Class I motor

**COMPLIANCE** European standards (EN) + IEC standards (international standards)

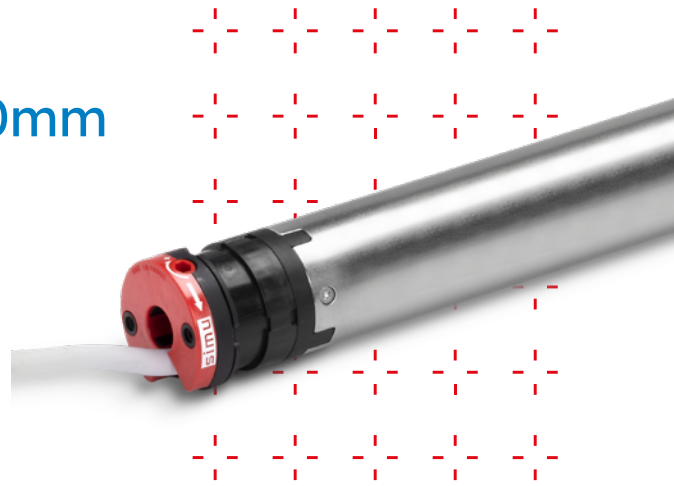
**CERTIFICATIONS**

**STANDARD**



## T3.5 DC motor

direct current wired, Ø 40mm



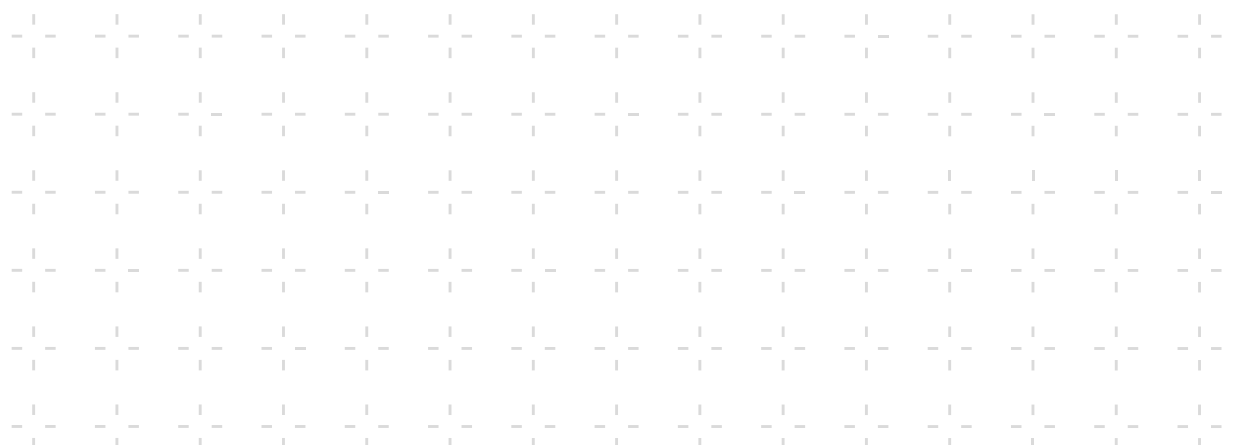
SELV LOW VOLTAGE POWER SUPPLIED BY BATTERY OR NETWORK + TRANSFORMER  
...for wet areas or if there is no of power supply.

PROGRESSIVE END-LIMITS SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

EASY WIRING

...no earth connection required.



## References

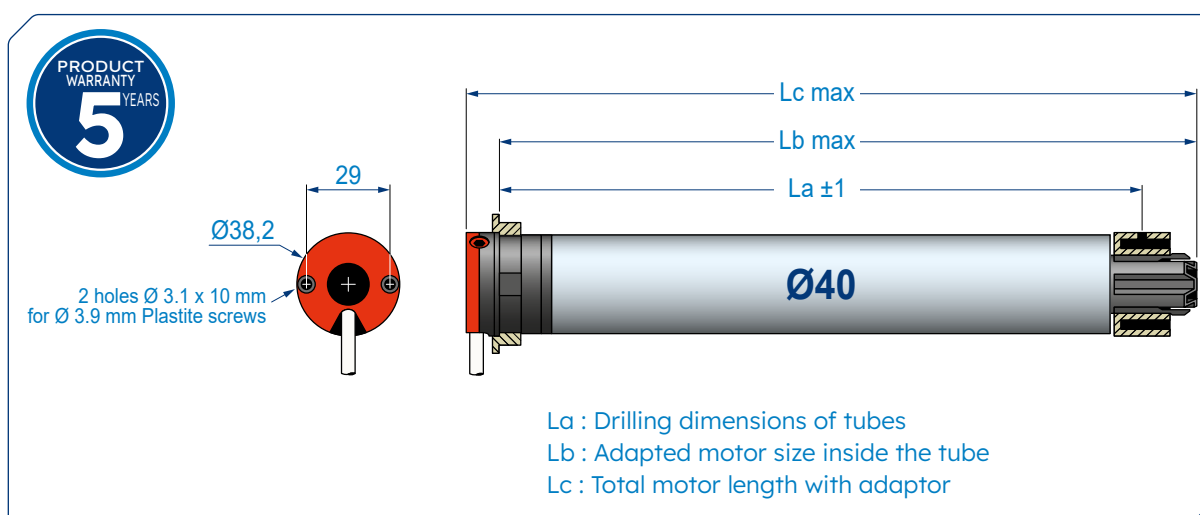
POWER SUPPLY 12 VDC, CABLE 2.5 METERS

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x10
T3.5 CC - 3/23	3 Nm	23 rpm	17 W	1.4 A	335 mm	359 mm	373 mm	0.82 kg	2006973	2006979
T3.5 CC - 6/18	6 Nm	18 rpm	26 W	2.2 A	335 mm	359 mm	373 mm	0.85 kg	2006975	2006981
T3.5 CC - 10/12	10 Nm	12 rpm	30 W	2.4 A	335 mm	359 mm	373 mm	0.85 kg	2006977	2006983

POWER SUPPLY 24 VDC, CABLE 2.5 METERS

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x10
T3.5 CC - 3/28	3 Nm	28 rpm	22 W	0.9 A	335 mm	359 mm	373 mm	0.82 kg	2006974	2006980
T3.5 CC - 6/18	6 Nm	18 rpm	26 W	1.05 A	335 mm	359 mm	373 mm	0.85 kg	2006976	2006982
T3.5 CC - 10/12	10 Nm	12 rpm	29 W	1.2 A	335 mm	359 mm	373 mm	0.85 kg	2006978	2006984

## Dimensions



## Technical characteristics

POWER SUPPLY 12 VDC ±3V or 24 VDC ±6V

PROGRESSIVE END-LIMITS With a capacity of 40 rounds

PROTECTION INDEX IP 44

POWER CABLE 2.5 meters (2x0.75 mm<sup>2</sup> wires, white H05 VVF)

TEMPS DE FONCTIONNEMENT DU MOTEUR limited to 5 min./hour

MOTOR HEAD THICKNESS 14 mm

4 CYCLES PER DAY Non consecutive

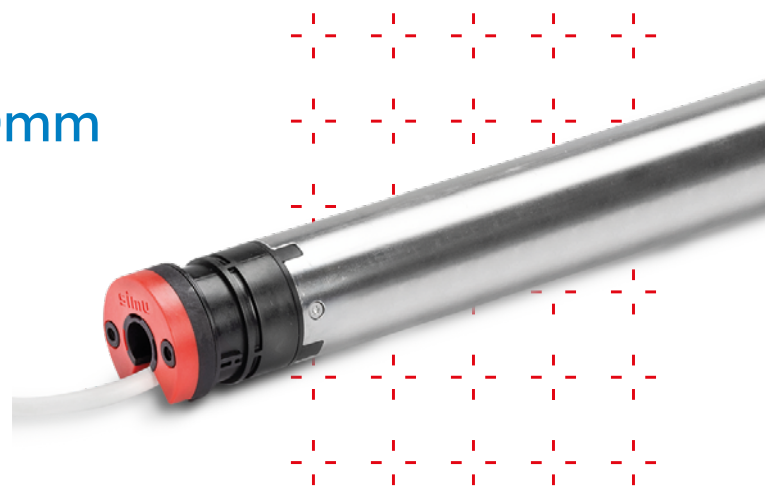
COMPLIANCE European standards (EN) + IEC standards (international standards)

STANDARD



## T3.5 E motor

wired electronic, Ø 40mm



### ELECTRONIC END-LIMITS SYSTEM

...4 possible setting modes of the end-limits.

### STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

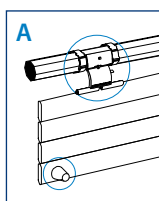
### FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

### CLASS II MOTOR

...no earth connection required.

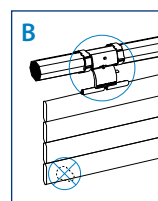
## 4 possible setting modes



### AUTOMATIC MODE

Shutters **WITH** locks  
and **WITH** stoppers

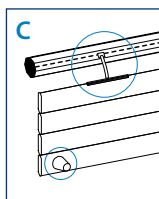
- automatic setting of the up limit position
- automatic setting of the down limit position from the specific setting switch.



### SEMI-AUTOMATIC DOWN MODE

Shutters **WITH** locks  
and **WITHOUT** stoppers

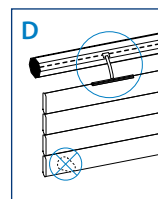
- automatic setting of the down limit position
- manual setting of the up limit position from the specific setting switch.



### SEMI-AUTOMATIC UP MODE

Shutters **WITHOUT** locks  
and **WITH** stoppers

- automatic setting of the up limit position
- manual setting of the down limit position from the specific setting switch.



### MANUAL MODE

Shutters **WITHOUT** locks  
and **WITHOUT** stoppers

- manual setting of the up limit position from the specific setting switch.
- manual setting of the down limit position from the specific setting switch.

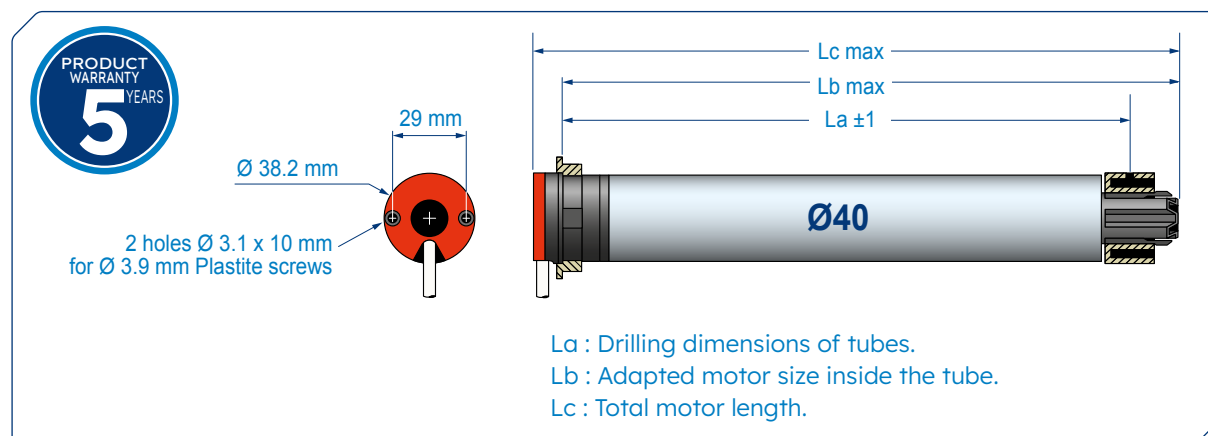
## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x10
T3.5E 4/16	4 Nm	16 rpm	100 W	0.46 A	450	473	488	1.03 kg	2009422	2009419
T3.5E 9/16	9 Nm	16 rpm	110 W	0.52 A	472	495	510	1.20 kg	2009423	2009420
T3.5E 13/10	13 Nm	10 rpm	110 W	0.52 A	472	495	510	1.23 kg	2009424	2009421

Available with adaptor sets - Contact us.

## Dimensions



## Technical characteristics

POWER SUPPLY 230 Volt - 50 Hz

THERMAL CUT-OUT 4 minutes

END-LIMITS Electronic system with operating limited to 3 minutes.  
The readjustment is automatic and permanent.

PROTECTION INDEX IP 44

POWER CABLE 2.5 meters (3 x 0.75 mm<sup>2</sup> wires, H05 VV-F white).

MOTOR HEAD THICKNESS 14 mm

4 CYCLES PER DAY Non consecutive

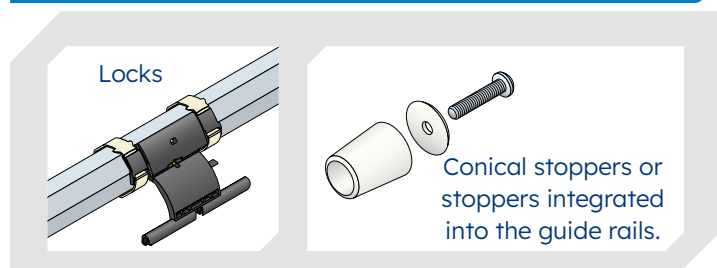
INSULATION CLASS Class II motor

COMPLIANCE European standards (EN) - IEC standards (international standards)

CERTIFICATIONS

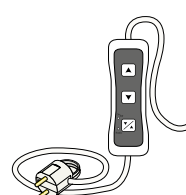
STANDARD

## Recommended equipments



for automatic or semi-automatic mode, up or down.

## Specific setting switch

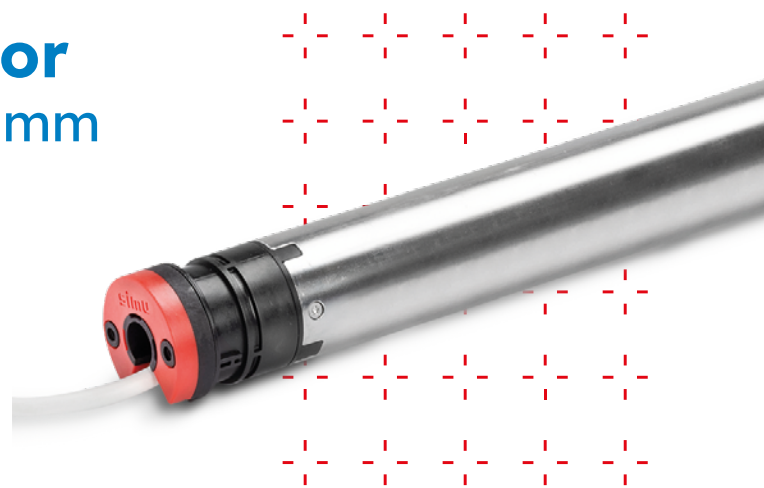


### References

Description	References
	x 1
Universal setting switch	9025462



## T3.5 AUTO<sup>®</sup>+ motor wired electronic, Ø 40mm



### AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

### AN AUTO-ADAPTIVE DISTRESSING FUNCTION AT END-LIMITS UP AND DOWN

...to suit at all end-products. **PATENTED SYSTEM.**

### STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

### FROST DETECTION FUNCTION

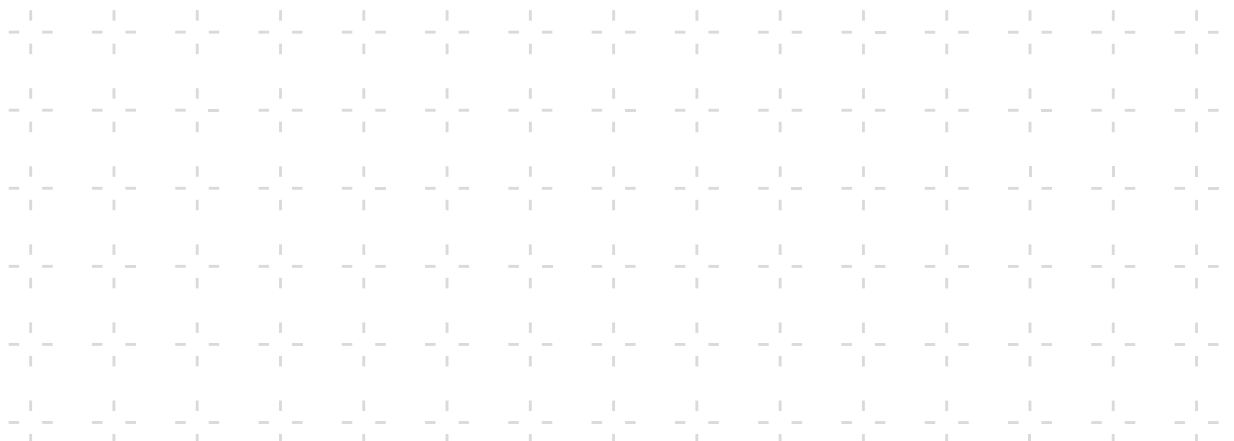
...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

### PERMANENT READJUSTMENT OF END-LIMITS

...thanks to the constant auto-learning and revision of the up and down end-limit positions. It adapts thus to the variation in length of the shutter curtain over time.

### CLASS II MOTOR

...no earth connection required.





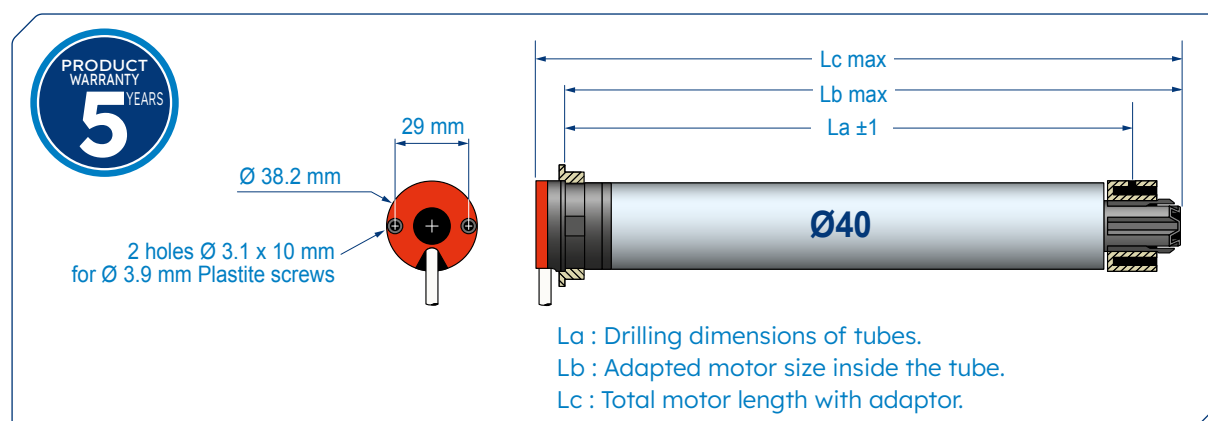
## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 10
T3.5 AUTO®+ - 4/16	4 Nm	16 rpm	100 W	0.39 A	450	473	488	1.03 kg	2009383	2009380
T3.5 AUTO®+ - 9/16	9 Nm	16 rpm	110 W	0.52 A	472	495	510	1.20 kg	2009384	2009381
T3.5 AUTO®+ - 13/10	13 Nm	10 rpm	110 W	0.52 A	472	495	510	1.23 kg	2009385	2009382

Available with adaptor sets - Contact us.

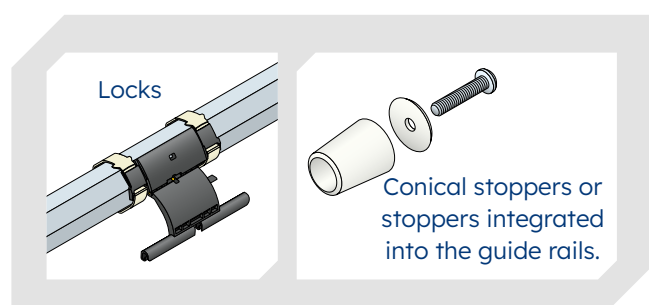
## Dimensions



## Technical characteristics

POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMITS	Electronic system with operating limited to 3 minutes. The readjustment is automatic and permanent.
PROTECTION INDEX	IP 44
POWER CABLE	2.5 meters (3 x 0,75 mm <sup>2</sup> wires, H05 VV-F white).
MOTOR HEAD THICKNESS	14 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class II motor <input type="checkbox"/>
COMPLIANCE	European standards (EN) – IEC standards (international standards)
CERTIFICATIONS	
STANDARD	

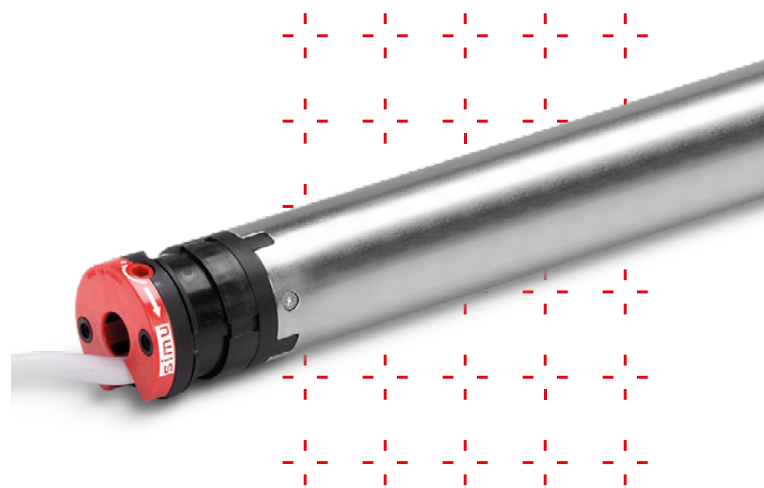
## Required equipments





## T3.5 motor

wired, Ø 40 mm

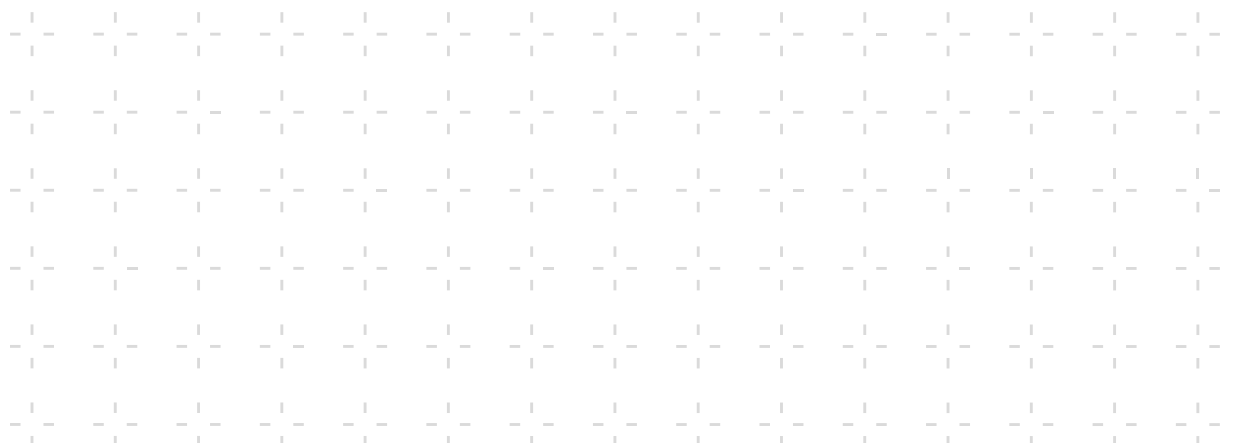


PROGRESSIVE END-LIMITS SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS DIRECTLY ON THE MOTOR HEAD

CLASS II MOTOR

...no earth connection required.



## References

### 230V / 50 HZ POWER SUPPLY

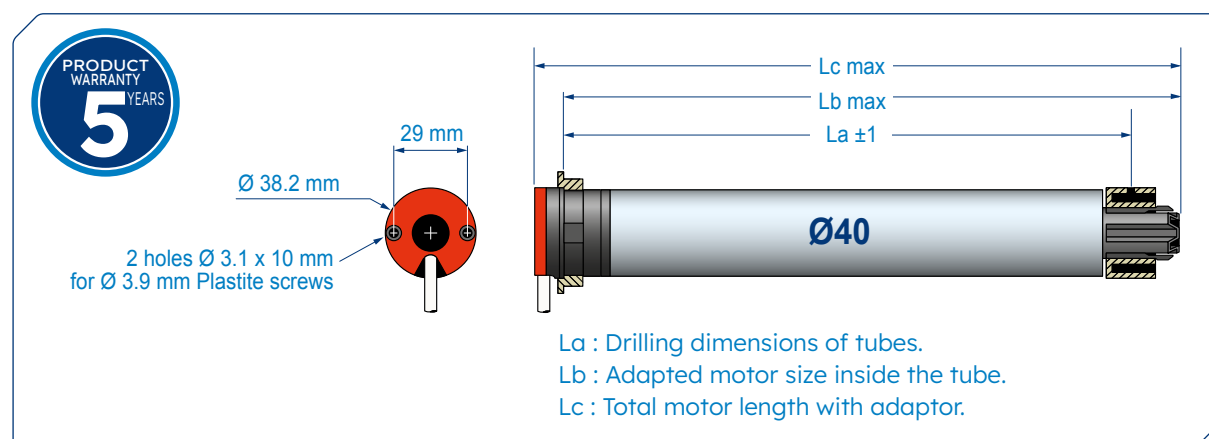
Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 10
T3.5 - 3/30	3 Nm	30 rpm	90 W	0.42 A	448	471	485	0.42 kg	2008671	2008689
T3.5 - 4/16	4 Nm	16 rpm	80 W	0.39 A	377	400	414	0.85 kg	2008672	2008690
T3.5 - 9/16	9 Nm	16 rpm	110 W	0.52 A	448	471	485	1.05 kg	2008674	2008692
T3.5 - 13/10	13 Nm	10 rpm	110 W	0.52 A	448	471	485	1.05 kg	2008675	2008693

Available with adaptor sets - Contact us.

### 120V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	
T3.5 - 4/36	4 Nm	36 rpm	110 W	0.90 A	448	471	485	1.05 kg	2008682	
T3.5 - 9/18	9 Nm	18 rpm	130 W	1.05 A	448	471	485	1.05 kg	2008684	

## Dimensions



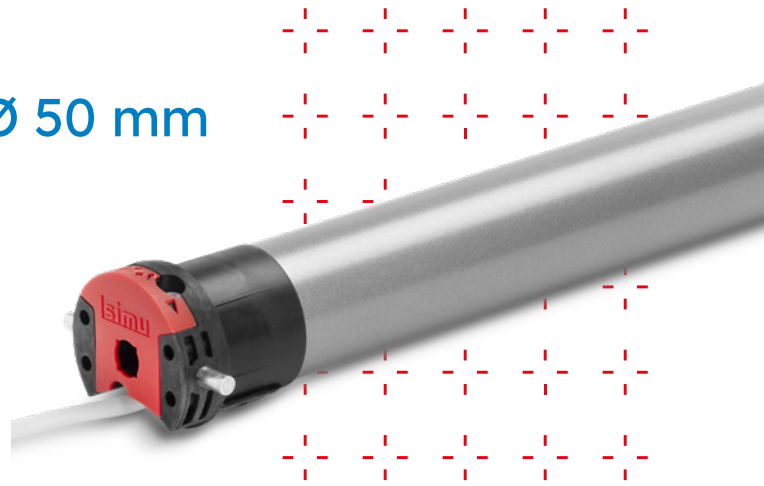
## Technical characteristics

POWER SUPPLY	230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
THERMAL CUT-OUT	4 minutes (230V) or 5 minutes (120V)
END-LIMITS	with a capacity of 40 rounds (excepted for the 4/16 = capacity of 20 rounds)
PROTECTION INDEX	IP 44
POWER CABLE 230V	2.5 meters (3x0.75mm <sup>2</sup> wires, white H05 VV-F). But also
POWER CABLE 120V	2.5 meters (3xAWG19 wires, white 05 VV-F)
MOTOR HEAD THICKNESS	14 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class II motor
COMPLIANCE	European standards (EN) - IEC standards (international standards)
CERTIFICATIONS	
STANDARD	



## T5 DC motor

direct current wired, Ø 50 mm

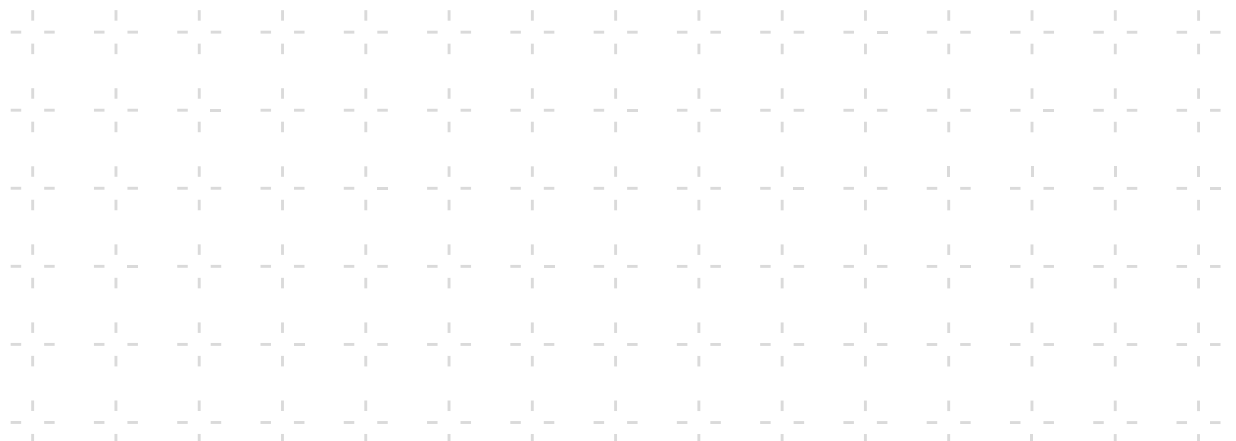


**MOTOR WHERE A VERY LOW VOLTAGE IS REQUIRED**  
...for damp locations or if there is no electricity supply.

**LOW CONSUMPTION**  
...the consumption of its direct current motor has been reduced as much as possible to optimise their performance.

**PRACTICAL**  
...in the event of a power cut, the motors can operate on batteries or on the mains via a transformer.

**EASY TO WIRE**  
...no earth connection, just 1 cable with 2 wires is needed to power 12/24 volt motors.



## References

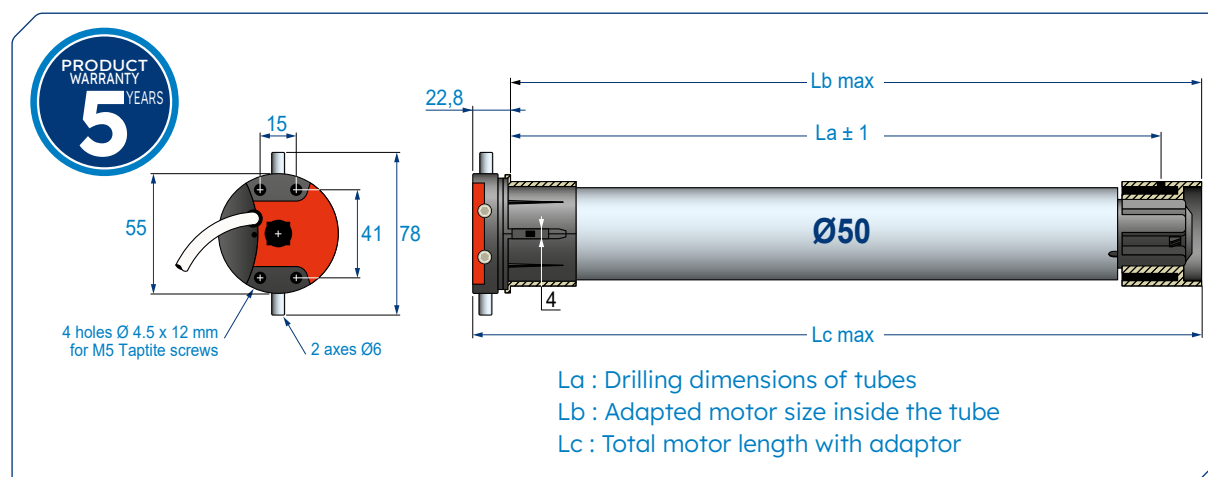
POWER SUPPLY 12 VDC, CABLE 2.5 METERS

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 10
T5 - 15/17	15 Nm	17 rpm	61 W	5 A	585 mm	598 mm	621 mm	1.8 kg	2004492	2008905
T5 - 20/12	20 Nm	12 rpm	59 W	4.6 A	585 mm	598 mm	621 mm	1.81 kg	2004493	2008906
T5 - 35/07	35 Nm	7 rpm	58 W	4.3 A	585 mm	598 mm	621 mm	1.84 kg	2004494	2008907

POWER SUPPLY 24 VDC, CABLE 2.5 METERS

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 10
T5 - 15/17	15 Nm	17 rpm	62 W	2.3 A	585 mm	598 mm	621 mm	1.8 kg	2004495	
T5 - 20/12	20 Nm	12 rpm	62 W	2.2 A	585 mm	598 mm	621 mm	1.81 kg	2004496	
T5 - 35/07	35 Nm	7 rpm	55 W	2.1 A	585 mm	598 mm	621 mm	1.84 kg	2004497	

## Dimensions



## Technical characteristics

POWER SUPPLY 12 VDC ±3V or 24 VDC ±6V

PROGRESSIVE END-LIMITS With a capacity of 28 rounds

PROTECTION INDEX IP 44

POWER CABLE 2.5 meters (2x0.75 mm<sup>2</sup> wires, white H05 VVF)

BASE DIAMETER OF THE CROWN for Ø50 x 1.5 mm round tube

MOTOR HEAD THICKNESS 22.8 mm

4 CYCLES PER DAY Non consecutive

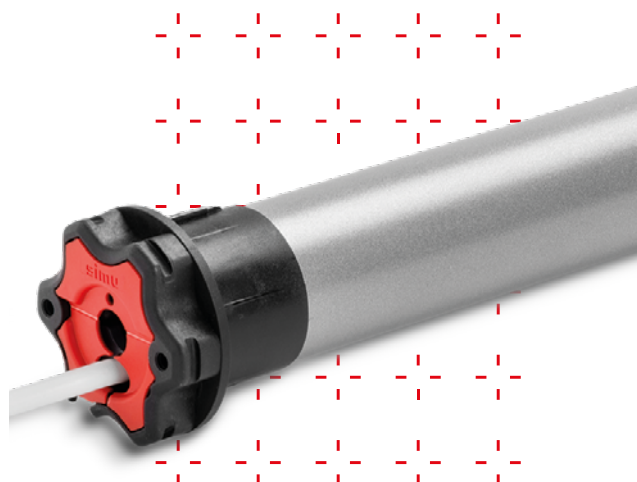
COMPLIANCE European standards (EN) – IEC standards (international standards)

STANDARD



# T5S E motor

## wired electronic, Ø 50 mm



### ELECTRONIC END-LIMITS SYSTEM

...4 possible setting modes of the end-limits.

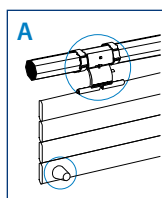
### STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

### FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

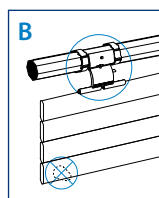
## 4 possible setting modes



### AUTOMATIC MODE

Shutters **WITH** locks  
and **WITH** stoppers

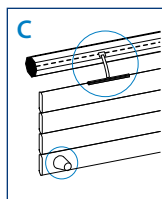
- automatic setting of the up limit position
- automatic setting of the down limit position from the specific setting switch.



### SEMI-AUTOMATIC DOWN MODE

Shutters **WITH** locks  
and **WITHOUT** stoppers

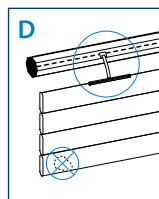
- automatic setting of the down limit position
- manual setting of the up limit position from the specific setting switch.



### SEMI-AUTOMATIC UP MODE

Shutters **WITHOUT** locks  
and **WITH** stoppers

- automatic setting of the up limit position
- manual setting of the down limit position from the specific setting switch.

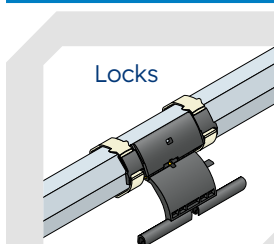


### MANUAL MODE

Shutters **WITHOUT** locks  
and **WITHOUT** stoppers

- manual setting of the up limit position from the specific setting switch.
- manual setting of the down limit position from the specific setting switch.

## Recommended equipments



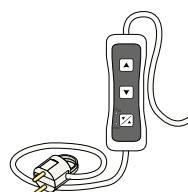
Locks



Conical stoppers or stoppers integrated into the guide rails.

for automatic or semi-automatic mode, up or down.

## Specific setting switch



### References

Description	References
	x 1
Universal setting switch	9025462



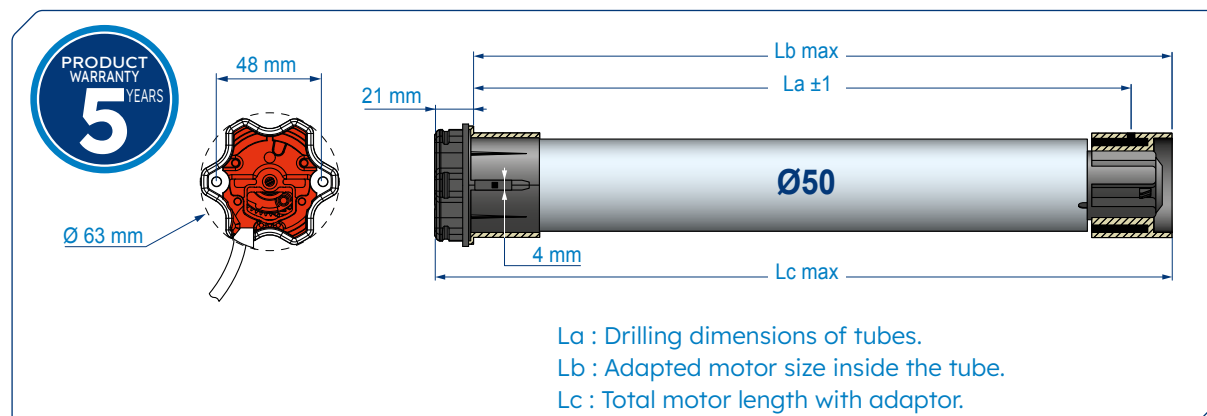
## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References x 1
					La	Lb	Lc		
T5S E - 8/17	8 Nm	17 rpm	100 W	0.45 A	583	596	619	1.96 kg	2009818
T5S E - 10/17	10 Nm	17 rpm	120 W	0.5 A	583	596	619	2.01 kg	2009819
T5S E - 15/17	15 Nm	17 rpm	140 W	0.65 A	503	516	537	2.27 kg	2009820
T5S E - 20/17	20 Nm	17 rpm	160 W	0.75 A	657	670	693	2.39 kg	2009821
T5S E - 25/17	25 Nm	17 rpm	170 W	0.8 A	657	670	693	2.48 kg	2009822
T5S E - 35/17	35 Nm	17 rpm	240 W	1.1 A	657	670	693	2.67 kg	2009823
T5S E - 50/12	50 Nm	12 rpm	240 W	1.1 A	657	670	693	2.7 kg	2009824

Available with adaptor sets - Contact us.

## Dimensions



## Technical characteristics

POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMITS	Electronic system with operating limited to 3 minutes.
END-LIMIT READJUSTMENT	Every 60 cycles during 4 cycles.
PROTECTION INDEX	IP 44
POWER CABLE	2.5 meters (4 x 0,75 mm <sup>2</sup> wires, H05 VV-F white) pluggable.
BASE DIAMETER OF THE CROWN	For Ø50 x 1.5mm round tube
MOTOR HEAD THICKNESS	21 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) – IEC standards (international standards)
CERTIFICATIONS	
STANDARD	



## T5S AUTO®+SHORT motor

short wired motorisation, Ø50mm



### MOTOR SUITABLE FOR SHORT WIDTH ROLLER SHUTTER

...thanks to its length of only 383mm, including the adaptor set.

### AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

### AN AUTO-ADAPTIVE DISTRESSING FUNCTION AT END-LIMITS UP AND DOWN

...to suit at all end-products. **PATENTED SYSTEM.**

### STOP ON OBSTACLE FUNCTION

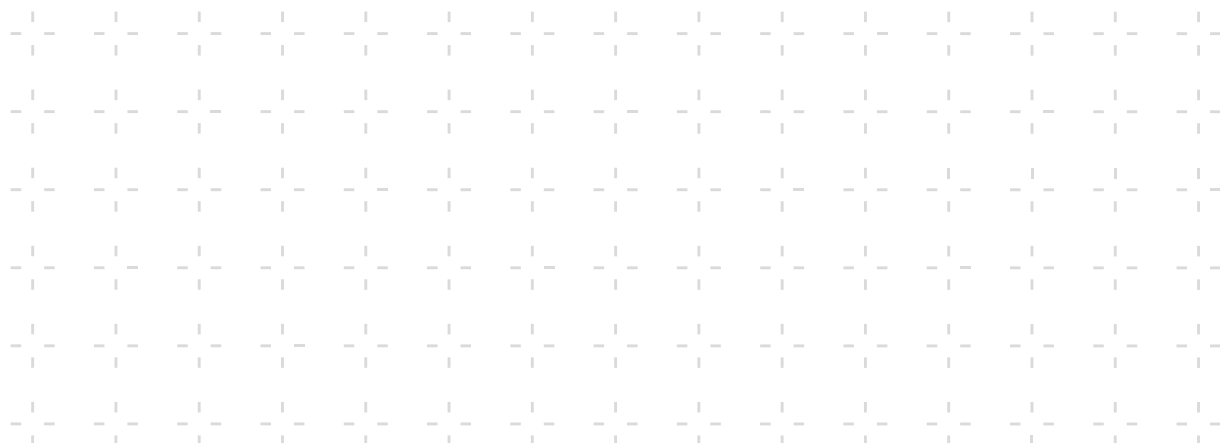
...the motor stops during the closing in case of an obstacle.

### FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

### PERMANENT READJUSTMENT OF END-LIMITS

...thanks to the constant auto-learning and revision of the up and down end-limit positions. It adapts thus to the variation in length of the shutter curtain over time.





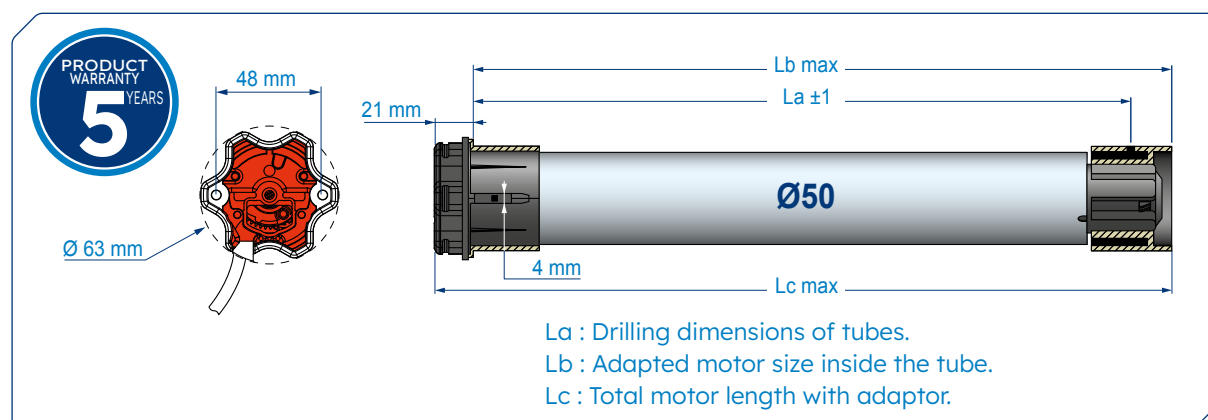
## References

230V / 50 HZ POWER SUPPLY




Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 10
T5S AUTO®+SHORT	6 Nm	17 rpm	90 W	0.4 A	349	362	383	1.63 kg	2009826	2010310

Available with adaptor set OCT60 mounted on the motor. Consult us.

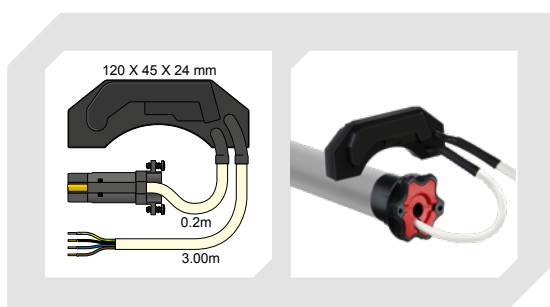
## Dimensions



## Technical characteristics

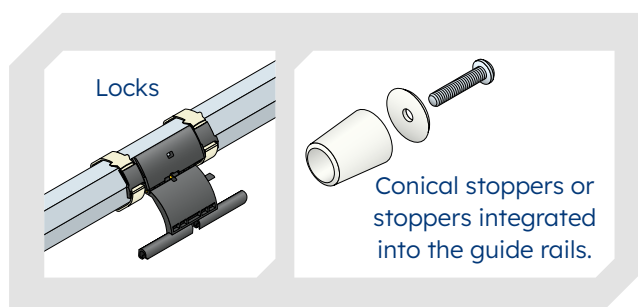
POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMITS	Electronic system integrated is the deported plate with operating limited to 3 minutes. The readjustment is automatic and permanent.
PROTECTION INDEX	IP 44
POWER CABLE	3 meters (4 x 0,75 mm <sup>2</sup> wires, H05 VV-F white) pluggable.
BASE DIAMETER OF THE CROWN	For Ø50 x 1.5mm round tube
MOTOR HEAD THICKNESS	21 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) - IEC standards (international standards)
CERTIFICATIONS	 
STANDARD	

## Accessories



DEPORTED ELECTRONIC PLATE

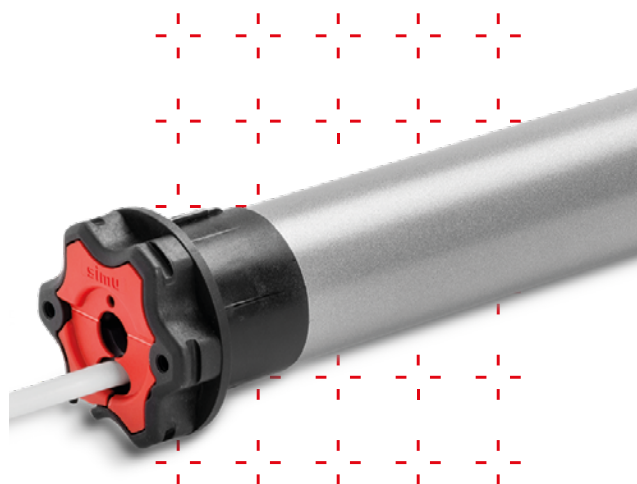
## Required equipment





# T5S AUTO® motor

## Wired electronic, Ø50mm



### AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

### STOP ON OBSTACLE FUNCTION

...the motor stops during the closing in case of an obstacle.

### FROST DETECTION FUNCTION

...the motor stops during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

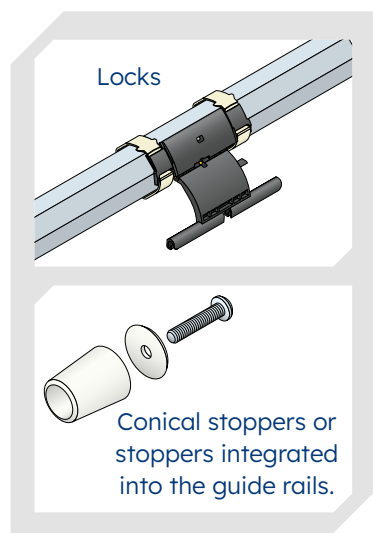
### PERMANENT READJUSTMENT OF END-LIMITS

...thanks to of the constant auto-learning and revision of the up and down end-limits positions. It adapts thus to the variation in length of the shutter curtain over time.

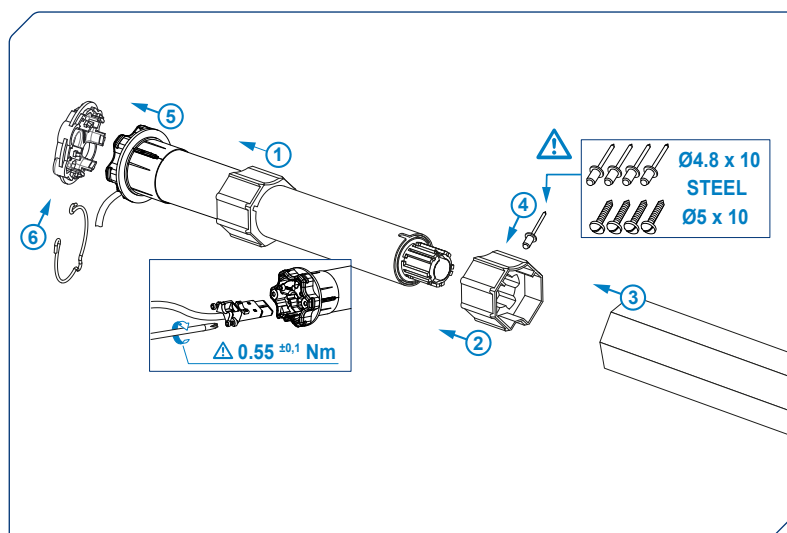
### TIME SAVING

...on request, the T5S AUTO® motors are directly adapted with the wheels and crowns accessories, you will save time during the assembly.

## Accessories and adaptor set



REQUIRED EQUIPMENTS



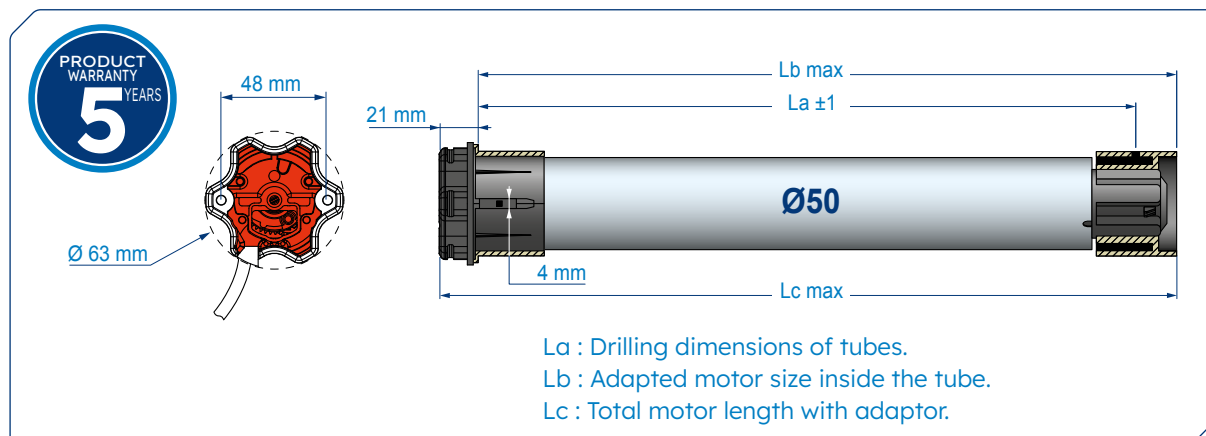
ADAPTOR SET

230V / 50 HZ POWER SUPPLY


Description	Torque	Speed	Power	Current	Dimensions (mm)			Câble	Weight	References		
					La	Lb	Lc			x 1	x 10	x100
T5S AUTO®	6 Nm	17 rpm	90 W	0.4 A	483	496	517	VV-F 2.5 m	1.76 kg	2009855	2009858	2009861
T5S AUTO®	10 Nm	17 rpm	120 W	0.5 A	483	496	517	VV-F 2.5 m	1.83 kg	2009856	2009859	2009862
T5S AUTO®	15 Nm	17 rpm	140 W	0.65 A	503	516	537	VV-F 2.5 m	1.98 kg	2009857	2009860	2009863
T5S AUTO®	20 Nm	17 rpm	160 W	0.75 A	657	670	691	VV-F 2.5 m	2.38 kg	2010226	2010227	2010040
T5S AUTO®	25 Nm	17 rpm	170 W	0.8 A	657	670	691	VV-F 2.5 m	2.48 kg	2010042	2010043	-
T5S AUTO®	35 Nm	17 rpm	240 W	1.1 A	657	670	691	VV-F 2.5 m	2.58 kg	2010044	2010045	-
T5S AUTO®	6 Nm	17 rpm	90 W	0.4 A	483	496	517	VV-F 5 m	1.76 kg	2009867	2009870	-
T5S AUTO®	10 Nm	17 rpm	120 W	0.5 A	483	496	517	VV-F 5 m	1.83 kg	2009868	2009871	-
T5S AUTO®	15 Nm	17 rpm	140 W	0.65 A	503	516	537	VV-F 5 m	1.98 kg	2009869	2009872	-
T5S AUTO®	20 Nm	17 rpm	160 W	0.75 A	657	670	691	VV-F 5 m	2.38 kg	2010046	2010047	-
T5S AUTO®	25 Nm	17 rpm	170 W	0.8 A	657	670	691	VV-F 5 m	2.48 kg	2010048	-	-
T5S AUTO®	35 Nm	17 rpm	240 W	1.1 A	657	670	691	VV-F 5 m	2.58 kg	2010049	-	-

Available with adaptor sets - Contact us.

## Dimensions



## Technical characteristics

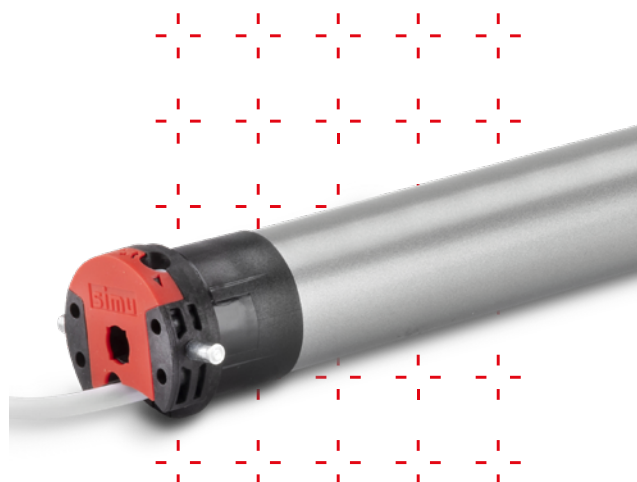
POWER SUPPLY	230 Volt - 50 Hz
THERMAL CUT-OUT	4 minutes
END-LIMITS	Electronic system with operating limited to 3 minutes. The readjustment is automatic and permanent.
PROTECTION INDEX	IP 44
POWER CABLE	2.5 or 5 meters (4 x 0,75 mm <sup>2</sup> wires, H05 VV-F white), pluggable.
BASE DIAMETER OF THE CROWN	For Ø50 x 1.5mm round tube
MOTOR HEAD THICKNESS	21 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) – IEC standards (international standards)
CERTIFICATIONS	  
STANDARD	



# T5 motor

## Wired, Ø50mm

Star head  
available in 2024



### PROGRESSIVE END-LIMITS SYSTEM

### SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

## References

POWER SUPPLY 230V - 50 HZ, CABLE 2.5 METERS

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
T5 - 8/17	8 Nm	17 rpm	100 W	0.45 A	483 mm	496 mm	519 mm	1.75 kg	2000242
T5 - 10/17	10 Nm	17 rpm	120 W	0.5 A	483 mm	496 mm	519 mm	1.78 kg	2000268
T5 - 15/17	15 Nm	17 rpm	140 W	0.65 A	483 mm	496 mm	519 mm	1.93 kg	2000295
T5 - 20/17	20 Nm	17 rpm	160 W	0.75 A	583 mm	596 mm	619 mm	2.2 kg	2000322
T5 - 25/17	25 Nm	17 rpm	170 W	0.8 A	583 mm	596 mm	619 mm	2.3 kg	2000348
T5 - 30/17	30 Nm	17 rpm	240 W	1.1 A	583 mm	596 mm	619 mm	2.47 kg	2000371
T5 - 35/17	35 Nm	17 rpm	240 W	1.1 A	583 mm	596 mm	619 mm	2.47 kg	2000392
T5 - 40/12	40 Nm	12 rpm	240 W	1.1 A	583 mm	596 mm	619 mm	2.5 kg	2000412
T5 - 50/12	50 Nm	12 rpm	240 W	1.1 A	583 mm	596 mm	619 mm	2.55 kg	2000432

Other references are available in the list of references at the end of the catalog p.207

POWER SUPPLY 120V - 60 HZ, CABLE 2.5 METERS

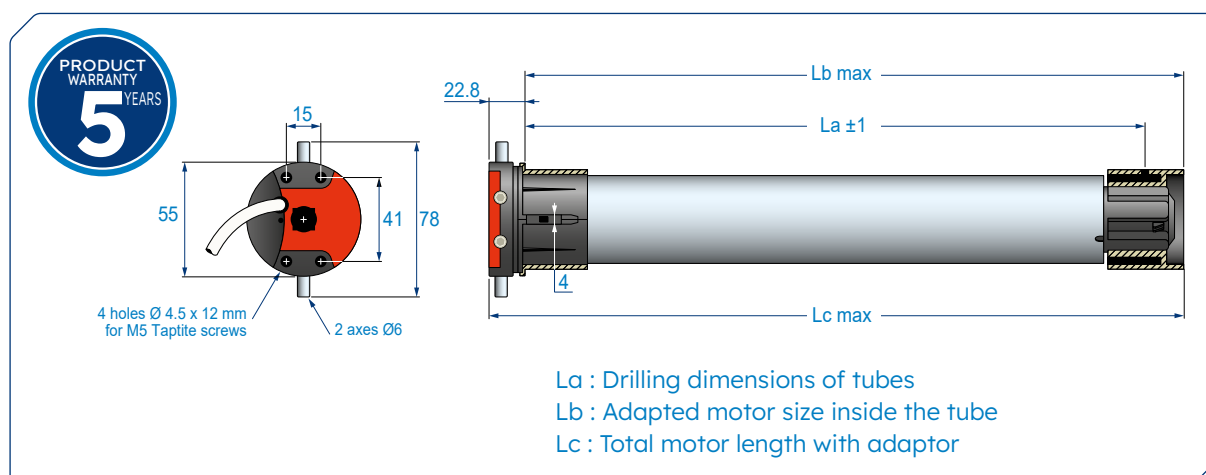
Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
T5 - 10/12	10 Nm	12 rpm	80 W	0.7 A	483 mm	496 mm	519 mm	2.04 kg	2000649
T5 - 15/18	15 Nm	18 rpm	145 W	1.1 A	505 mm	518 mm	541 mm	2.25 kg	2000646
T5 - 20/12	20 Nm	12 rpm	130 W	1.1 A	505 mm	518 mm	541 mm	2.28 kg	2000650
T5 - 25/18	25 Nm	18 rpm	180 W	1.6 A	583 mm	596 mm	619 mm	2.28 kg	2000647
T5 - 30/12	30 Nm	12 rpm	170 W	1.5 A	583 mm	596 mm	619 mm	2.5 kg	2000651
T5 - 35/18	35 Nm	18 rpm	250 W	2.1 A	583 mm	596 mm	619 mm	2.77 kg	2000648
T5 - 40/12	40 Nm	12 rpm	210 W	1.8 A	583 mm	596 mm	619 mm	2.76 kg	2000652
T5 - 50/12	50 Nm	12 rpm	250 W	2.1 A	583 mm	596 mm	619 mm	2.48 kg	2000653

POWER SUPPLY 220V - 60 HZ, CABLE 2.5 METERS

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
T5 - 14/20	14 Nm	20 rpm	140 W	0.65 A	505 mm	518 mm	541 mm	2.10 kg	2006158
T5 - 28/14	28 Nm	14 rpm	175 W	0.85 A	583 mm	596 mm	619 mm	2.36 kg	2006160
T5 - 38/14	38 Nm	14 rpm	210 W	1 A	583 mm	596 mm	619 mm	2.61 kg	2006161



## Dimensions



## Technical characteristics

POWER SUPPLY 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)

THERMAL CUT-OUT 4 minutes (230V) or 5 minutes (120V)

END-LIMITS with a capacity of 28 rounds

PROTECTION INDEX IP 44

230 V POWER CABLE 2.5 meters (4x0.75 mm<sup>2</sup> wires, white H05 VVF)  
or 0.7 meter (4x0.75 mm<sup>2</sup> wires, black H05 RRF)  
Other cable lengths exist for certain torque in white H05 VVF or black H05 RRF.  
Consult us.

120 V POWER CABLE 2.5 meters (4xAWG19 wires, white 05 VVF)

220 V POWER CABLE 2.5 meters (4x0.75 mm<sup>2</sup> wires, white H05 VVF)

BASE DIAMETER OF THE CROWN for Ø50 x 1.5 mm round tube

MOTOR HEAD THICKNESS 22.8 mm

4 CYCLES PER DAY Non consecutive

INSULATION CLASS Classe I

COMPLIANCE European standards (EN) - IEC standards (international standards)

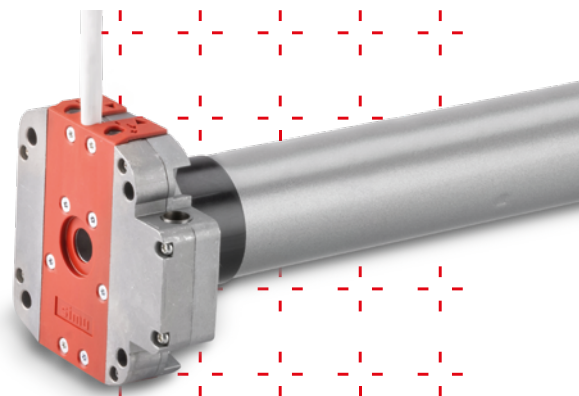
CERTIFICATIONS   

STANDARD 



# DMI5 motor wired, Ø50mm

**MOTOR WITH BUILT-IN MANUAL  
OVERRIDE**



**PROGRESSIVE END-LIMITS SYSTEM**

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD  
...on either sides of the head.

COMPACT MOTOR HEAD  
...only 24mm thickness.

## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	x 4
DMI5 - 8/17	8 Nm	17 rpm	100 W	0.45 A	576	589	617	2.51 kg	2000711	2008560
DMI5 - 10/17	10 Nm	17 rpm	120 W	0.5 A	576	589	617	2.59 kg	2000717	2008561
DMI5 - 15/17	15 Nm	17 rpm	140 W	0.65 A	576	589	617	2.71 kg	2000723	2008562
DMI5 - 20/17	20 Nm	17 rpm	160 W	0.75 A	576	589	617	2.84 kg	2000730	2008563
DMI5 - 25/17	25 Nm	17 rpm	170 W	0.8 A	576	589	617	3 kg	2000737	2008564
DMI5 - 30/17	30 Nm	17 rpm	240 W	1.1 A	576	589	617	3.1 kg	2000743	2008565
DMI5 - 35/17	35 Nm	17 rpm	240 W	1.1 A	576	589	617	3.12 kg	2000750	2008566
DMI5 - 40/12	40 Nm	12 rpm	240 W	1.1 A	576	589	617	3.12 kg	2000756	2008567
DMI5 - 50/12	50 Nm	12 rpm	240 W	1.1 A	576	589	617	3.14 kg	2000763	2008568

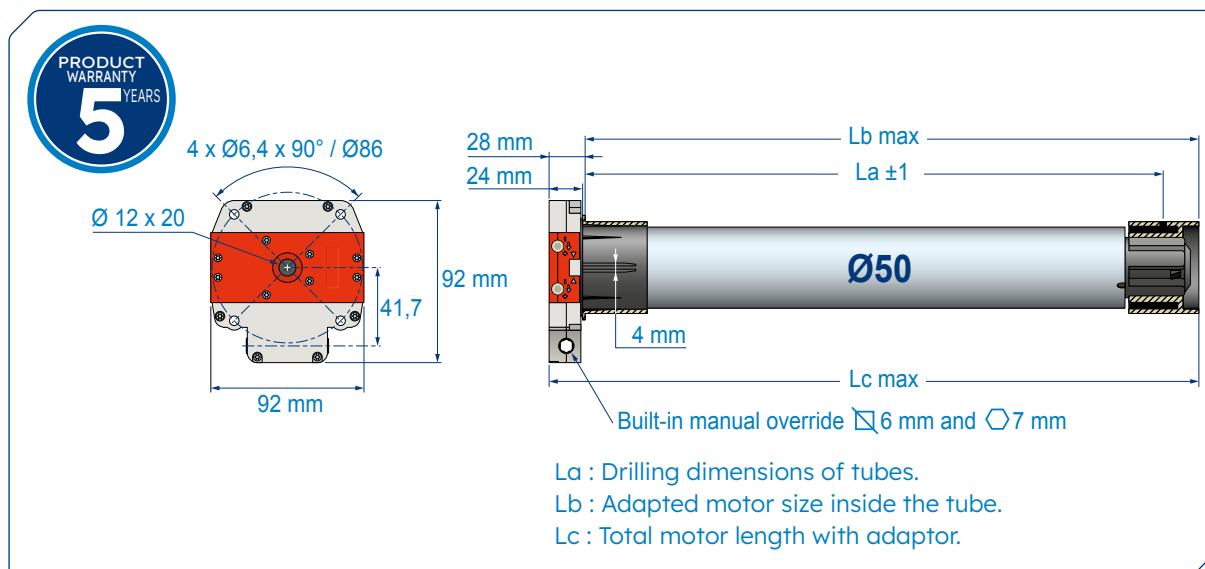
120V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	
DMI5 - 10/12	10 Nm	12 rpm	80 W	0.8 A	576	589	617	2.59 kg	2000772	
DMI5 - 15/18	15 Nm	18 rpm	145 W	1.3 A	576	589	617	2.77 kg	2000769	
DMI5 - 20/12	20 Nm	12 rpm	130 W	1.1 A	576	589	617	2.8 kg	2000773	
DMI5 - 25/18	25 Nm	18 rpm	180 W	1.6 A	576	589	617	3.07 kg	2000770	
DMI5 - 30/12	30 Nm	12 rpm	170 W	1.5 A	576	589	617	3.01 kg	2000774	
DMI5 - 35/18	35 Nm	18 rpm	250 W	2.1 A	646	659	687	3.28 kg	2000771	
DMI5 - 40/12	40 Nm	12 rpm	210 W	1.8 A	646	659	687	3.28 kg	2000775	
DMI5 - 50/12	50 Nm	12 rpm	250 W	2.1 A	646	659	687	3.3 kg	2000776	

220V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References	
					La	Lb	Lc		x 1	
DMI5 - 18/20	18 Nm	20 rpm	170 W	0.8 A	576	589	617	2.83 kg	2006162	
DMI5 - 28/14	28 Nm	14 rpm	175 W	0.85 A	576	589	617	2.92 kg	2006163	
DMI5 - 38/14	38 Nm	14 rpm	210 W	1 A	576	589	617	3.10 kg	2006164	

## Dimensions



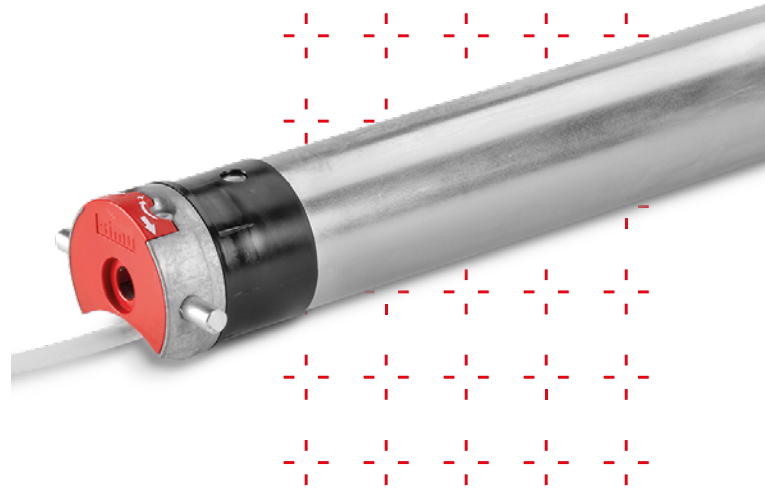
## Technical characteristics

POWER SUPPLY	230 Volt - 50 Hz or 120 Volts - 60Hz (US range)
THERMAL CUT-OUT	4 minutes (230V) or 5 minutes (120V)
PROGRESSIVE END-LIMITS	with a capacity of 28 rounds
REDUCING RATIO	of the manual override: 27/1
PROTECTION INDEX	IP 44
230V POWER CABLE	2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VV-F)
	0.7 meters (4x0,75 mm <sup>2</sup> wires, black H05 RRF)
120V POWER CABLE	2.5 meters (4xAWG19 wires, white 05 VV-F)
220V POWER CABLE	2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VV-F)
MOTOR HEAD THICKNESS	24 mm
4 CYCLES PER DAY	Non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) + IEC standards (international standards).
CERTIFICATIONS	
STANDARD	



# T6 motor

## wired, Ø60mm



### PROGRESSIVE END-LIMITS SYSTEM

### SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

## References

#### 230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
T6 - 40/17	40 Nm	17 rpm	260 W	1.05 A	676	689	718	4.43 kg	<a href="#">2000892</a>
T6 - 55/17	55 Nm	17 rpm	290 W	1.25 A	676	689	718	6.64 kg	<a href="#">2000898</a>
T6 - 70/17	70 Nm	17 rpm	350 W	1.5 A	676	689	718	4.97 kg	<a href="#">2000904</a>
T6 - 85/17	85 Nm	17 rpm	450 W	1.8 A	676	689	718	5.17 kg	<a href="#">2000910</a>
T6 - 60/12	60 Nm	12 rpm	240 W	1.05 A	676	689	718	4.43 kg	<a href="#">2000916</a>
T6 - 80/12	80 Nm	12 rpm	290 W	1.25 A	676	689	718	6.64 kg	<a href="#">2000922</a>
T6 - 100/12	100 Nm	12 rpm	350 W	1.5 A	676	689	718	4.97 kg	<a href="#">2000928</a>
T6 - 120/12	120 Nm	12 rpm	400 W	1.8 A	676	689	718	5.17 kg	<a href="#">2000934</a>

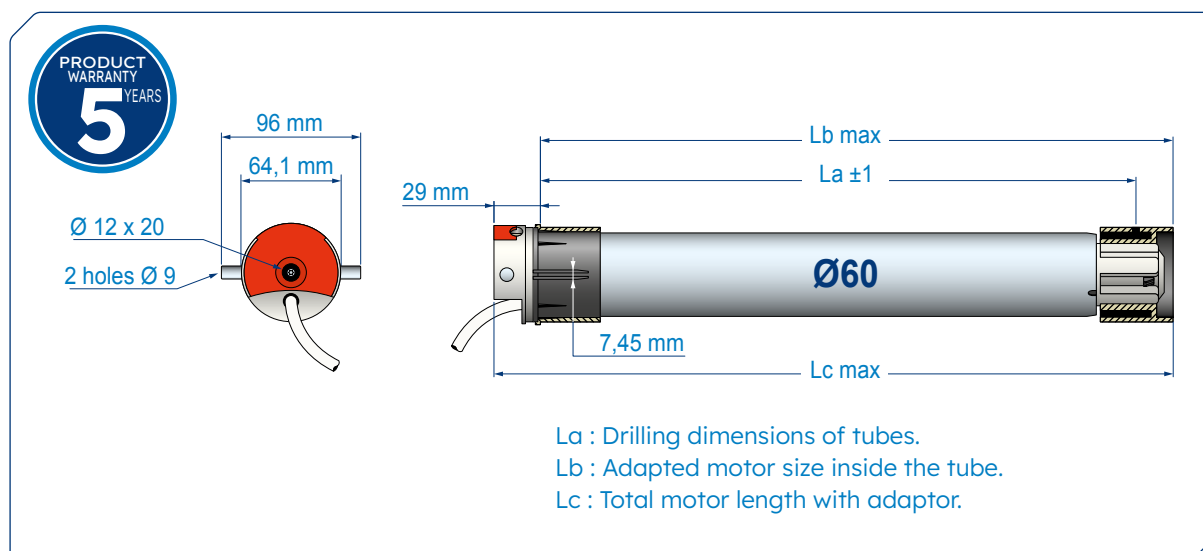
#### 120V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
T6 - 60/14	60 Nm	14 rpm	285 W	2.5 A	676	689	718	4.66 kg	<a href="#">2000985</a>
T6 - 80/14	80 Nm	14 rpm	390 W	3.4 A	676	689	718	4.97 kg	<a href="#">2000986</a>
T6 - 100/14	100 Nm	14 rpm	430 W	3.8 A	676	689	718	5.31 kg	<a href="#">2000987</a>

#### 220V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
T6 - 60/14	60 Nm	14 rpm	270 W	1.2 A	676	689	718	4.82 kg	<a href="#">2006165</a>

## Dimensions



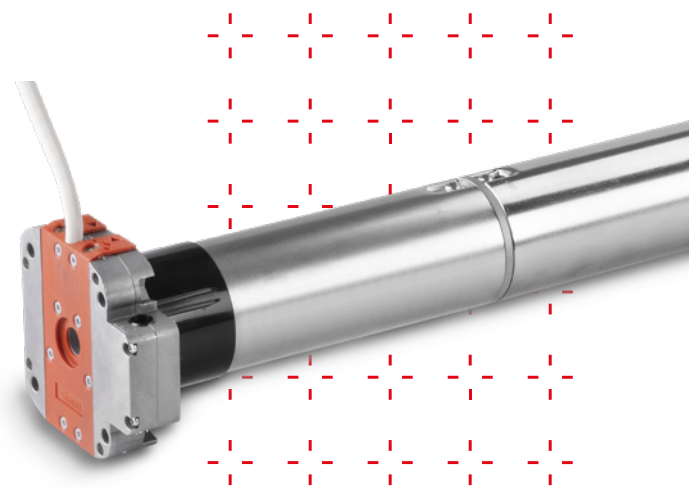
## Technical characteristics

POWER SUPPLY	230 Volt - 50 Hz or 120 Volts - 60Hz (US range)
THERMAL CUT-OUT	4 minutes (230V) or 5 minutes (120V)
PROGRESSIVE END-LIMITS	with a capacity of 23 rounds
PROTECTION INDEX	IP 44
230V POWER CABLE	2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VV-F) 0.7 meters (4x0,75 mm <sup>2</sup> wires, black H05 RRF)
120V POWER CABLE	2.5 meters (4xAWG19 wires, white 05 VV-F)
220V POWER CABLE	2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VV-F)
MOTOR HEAD THICKNESS	29 mm
4 CYCLES PER DAY	non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) + IEC standards (international standards).
CERTIFICATIONS	
STANDARD	



# DMI6 motor wired, Ø60mm

**MOTOR WITH BUILT-IN MANUAL  
OVERRIDE**



PROGRESSIVE END-LIMITS SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD  
...on either sides of the head.

COMPACT MOTOR HEAD  
...only 24mm thickness.

## References

230V / 50 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
DMI6 - 40/17	40 Nm	17 rpm	240 W	1.05 A	662	675	704	4.6 kg	<a href="#">2000991</a>
DMI6 - 55/17	55 Nm	17 rpm	290 W	1.25 A	662	675	704	4.85 kg	<a href="#">2000994</a>
DMI6 - 70/17	70 Nm	17 rpm	350 W	1.5 A	662	675	704	5.17 kg	<a href="#">2000997</a>
DMI6 - 85/17	85 Nm	17 rpm	450 W	1.8 A	662	675	704	5.38 kg	<a href="#">2001000</a>
DMI6 - 60/12	60 Nm	12 rpm	240 W	1.05 A	662	675	704	4.63 kg	<a href="#">2001003</a>
DMI6 - 80/12	80 Nm	12 rpm	290 W	1.25 A	662	675	704	4.85 kg	<a href="#">2001007</a>
DMI6 - 100/12	100 Nm	12 rpm	350 W	1.5 A	662	675	704	5.17 kg	<a href="#">2001010</a>
DMI6 - 120/12	120 Nm	12 rpm	400 W	1.8 A	662	675	704	5.38 kg	<a href="#">2001013</a>

Available with adaptor sets mounted - Contact us.

120V / 60 HZ POWER SUPPLY

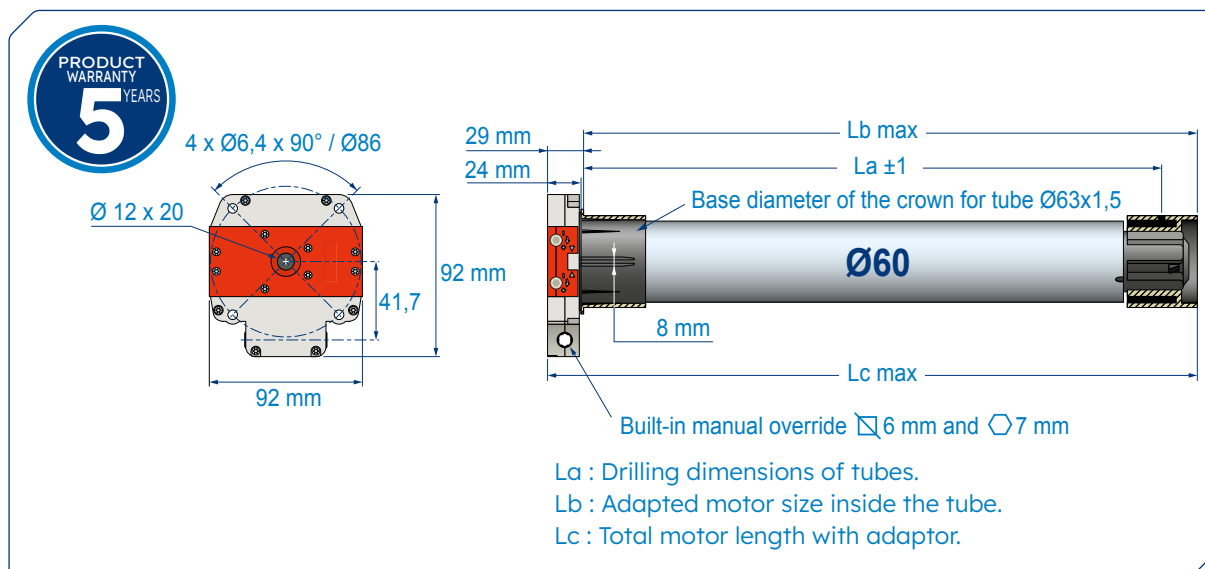
Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
DMI6 - 80/14	80 Nm	14 rpm	390 W	3.4 A	662	675	704	5.18 kg	<a href="#">2001042</a>
DMI6 - 100/14	100 Nm	14 rpm	430 W	3.8 A	662	675	704	5.54 kg	<a href="#">2001044</a>

220V / 60 HZ POWER SUPPLY

Description	Torque	Speed	Power	Current	Dimensions (mm)			Weight	References
					La	Lb	Lc		x 1
DMI6 - 80/14	80 Nm	14 rpm	350 W	1.6 A	662	675	704	2.92 kg	<a href="#">2006167</a>
DMI6 - 100/14	100 Nm	14 rpm	400 W	1.8 A	662	675	704	3.10 kg	<a href="#">2006168</a>



## Dimensions



## Technical characteristics

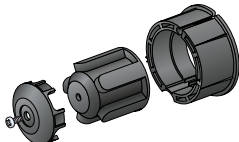
POWER SUPPLY	230 Volt - 50 Hz or 120 Volts - 60Hz (US range)
THERMAL CUT-OUT	4 minutes (230V) or 5 minutes (120V)
PROGRESSIVE END-LIMITS	with a capacity of 28 rounds
REDUCING RATIO	of the manual override: 55/1
PROTECTION INDEX	IP 44
230V POWER CABLE	2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VV-F)
	0.7 meters (4x0,75 mm <sup>2</sup> wires, black H05 RRF)
120V POWER CABLE	2.5 meters (4xAWG19 wires, white 05 VV-F)
220V POWER CABLE	2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VV-F)
MOTOR HEAD THICKNESS	24 mm
4 CYCLES PER DAY	non consecutive
INSULATION CLASS	Class I motor
COMPLIANCE	European standards (EN) + IEC standards (international standards).
CERTIFICATIONS	
STANDARD	



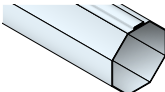

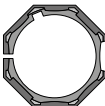
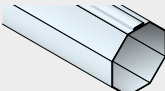

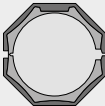
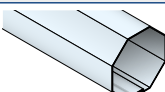


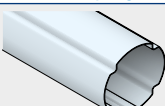

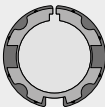
# ADAPTOR SETS

## for Ø40mm, Ø50mm, Ø60mm motors

### INTERFACE ADAPTOR

INTERFACE SET	DESCRIPTION	REFERENCE
	Adaptor interface for Ø40 motor enabling to use adaptors made for Ø50 motors	9001529

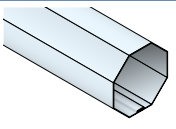

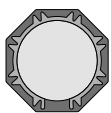
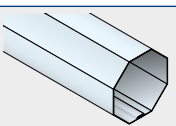
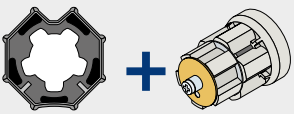
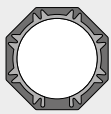
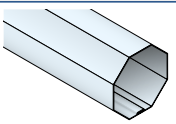
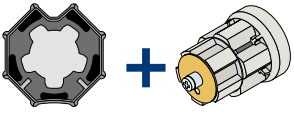
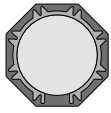
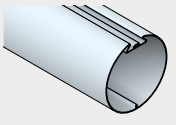

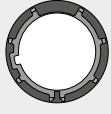
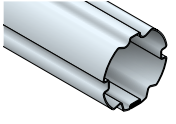

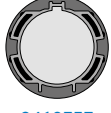


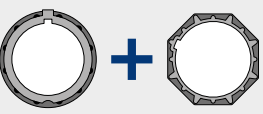
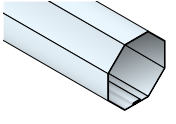


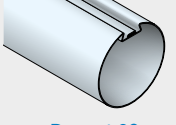


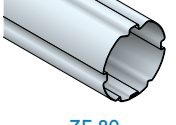








### Ø40 MOTORS

TUBE	DRIVE HUB	CROWN	DESCRIPTION	REFERENCE
 Deprat 40 External clamping	 9500344	 9132145	Adaptor for Deprat octa 40 tube, external clamping	9001496
 Octa 40 Gaviota/ Simbac External clamping	 9147545	 9147327	Adaptor for Gaviota/Simbac octa 40 tube external clamping	9001481
 Octa 40 Internal clamping	 9016084	 9016085	Off centered adaptor for octa 40 tube internal clamping	9016635
 ZF 45	 9500444	 9500455	Adaptor for ZF 45 tube	9001498

### Ø50 MOTORS

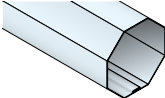


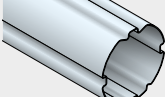


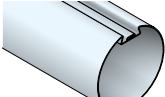


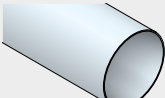


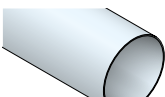


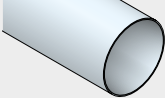


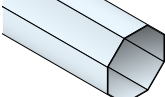


TUBE	DRIVE HUB	CROWN	DESCRIPTION	REFERENCE
 Octa 50 Selve/ Gaviota/Simbac	 9705344	 9705345	Adaptor for Selve/Gaviota/Simbac octa 50 tube	9521054
 ZF 54	 9410423	 9001165	Adaptor for ZF 54 tube	9011000
 Deprat 53	 +  Adaptor set only		Adaptor for Deprat 53 tube	9013091



 Octa 60 Gaviota/ Simbac	 9751001	 9707025	Adaptor for Gaviota/Simbac octa 60 tube	9521031
 Octa 60	 9751001 + 9706004	 9707025	Adaptor for octa 60 tube with ABS drive hub - Right	9521039
 Octa 60	 9751001 + 9706003	 9707025	Adaptor for octa 60 tube with ABS drive hub - Left	9521040
 Deprat 62	 9410302	 9410300	Adaptor for Deprat 62 tube	9521014
 ZF 64	 9410356	 9410357	Adaptor for ZF 64 tube	9521032
 Octa 70 Gaviota/Simbac 1.2 mm thickness	 9606133 + 9910004	 9521046	Adaptor for Gaviota/Simbac octa 70 tube 1.2 mm thickness with drive hub stop	9521022
 Octa 70 Dohner	 9761002	 9521046	Adaptor for Dohner octa 70 tube	9521021
 Deprat 89	 9420301	 9707026 + 9420341	Adaptor for Deprat 89 tube	9521015
 ZF 80	 9420302	 9011792	Adaptor for ZF 80 tube	9521033
 Round 102 x 2 mm	 9420304	 9707026 + 9420370	Adaptor for 102 x 2 mm tube	9521056
 Round 102 x 2 mm	 9420304 + 9910004	 9707026 + 9420370	Adaptor for 102 x 2 mm tube with drive hub stop	9521057



## Ø60 MOTORS

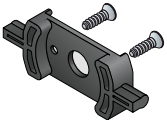
TUBE	DRIVE HUB	CROWN	DESCRIPTION	REFERENCE
 Octa 70 Gaviota/ Simbac 1.2 mm thickness	 9606133 + 9910062	 9705340	Adaptor for Gaviota/Simbac octa 70 tube 1.2 mm thickness with drive hub stop	9530117
 ZF 80	 9420302	 9128890	Adaptor for ZF 80 tube	9530114
 Deprat 89	 9420301	 9420341	Adaptor for Deprat 89 tube	9530110
 Round 101.6 x 1.6 mm	 9420304 + 9910062	 9420370	Adaptor for 101.6 x 1.6 mm tube with drive hub stop	9000985
 Round 101.6 x 3.6 mm	 9420309 + 9910062	 9420371	Adaptor for 101.6 x 3.6 mm tube with drive hub stop	9000986
 Round 101.6 x 3.6 mm	 9420309	 9420371	Adaptor for 101.6 x 3.6 mm tube	9530124
 Octa 102 Alulux	 9761013	 9762013	Adaptor for Alulux octa 102 tube	9530131



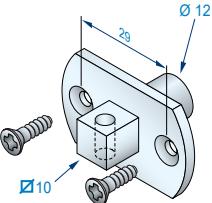
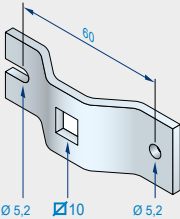
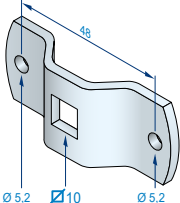
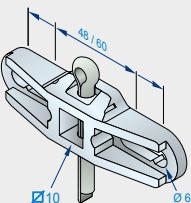

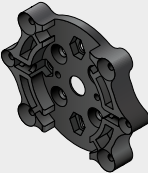
# BRACKETS

for motor side Ø40mm, Ø50mm, Ø60mm  
and DMI motors

## Ø40 MOTORS

INTERFACE SET	Maxi torque	DESCRIPTION	REFERENCE
	13 Nm	Interface set for use with T3.5 motor with a T5 bracket with 2 Plastite screws 3.8x12	9016981

## Ø40 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	20 Nm	Joining with 10 mm square with 2 plastite screws 3.8 x 12 mm	9001527
	WALL INTEGRATED SYSTEM	25 Nm	Bracket with 10 mm square 2 x Ø5 mm holes 60 mm inter-axle	9510101
	WALL INTEGRATED SYSTEM	25 Nm	Bracket with 10 mm square 2 x Ø5 mm holes 48 mm inter-axle	9701240
	WALL INTEGRATED SYSTEM	25 Nm	Bracket with 10 mm square 2 x Ø6 mm oblongs from 48 to 60 mm inter-axle	9137029
 Packaged by 1	COMBINED WINDOW SHUTTER RENOVATION	35 Nm	Universal bracket: Deceuninck Storbox, Alphacan Lucoroll, etc...	9013761 (x1)
 Packaged by 20	COMBINED WINDOW SHUTTER RENOVATION	35 Nm	Universal bracket Deceuninck Storbox, Alphacan Lucoroll, etc...	9012978 (x20)



## Ø40 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	COMBINED WINDOW SHUTTER	20 Nm	Thyssen bracket	2003200
	COMBINED WINDOW SHUTTER	20 Nm	S.K.S. bracket	2003206
<p>Packaged by 1</p>	RENOVATION	20 Nm	Butterfly bracket, cuttable from 137 to 205 mm (Gaviota Simbac Mini 45° side frame)	9001108 (x1)
<p>Packaged by 100</p>	RENOVATION	20 Nm	Butterfly bracket, cuttable from 137 to 205 mm (Gaviota Simbac Mini 45° side frame)	9015860 (x100)
	RENOVATION	13 Nm	Bracket for side frame with Ø 12 mm pivot with 2 plastite screws 3.8x12	9500815
	RENOVATION	20 Nm	Bracket for side frame ZF ALURENO (125/205)	2008418

## Ø50 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	20 Nm	Joining with 10 mm square, with 2 plastite screws 5 x 12 for <b>T5</b> and <b>T5 DC</b>	9013923



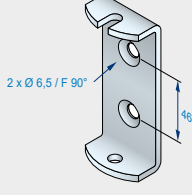
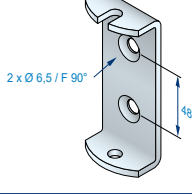
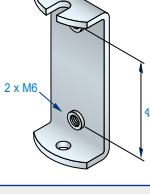
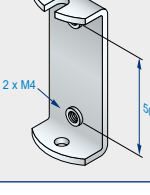
## Ø50 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	25 Nm	Joining with 10 mm square with 2 plastite screws 5 x 16 mm for <b>T5 AUTO®, AUTO®SHORT, AUTO®SHORT Hz, T5 E, E Hz, E Hz DC</b> and <b>T5 Hz.02</b>	9910013
	WALL INTEGRATED SYSTEM	25 Nm	Joining with 10 mm square with 2 plastite screws 5 x 16 mm for <b>T5 AUTO®, AUTO®SHORT, AUTO®SHORT Hz, T5 E, E Hz, E Hz DC</b> and <b>T5 Hz.02</b>	9910014
	WALL INTEGRATED SYSTEM	25 Nm	Bracket with 10 mm square 2 x Ø5 mm holes 60 mm inter-axe	9510101
	WALL INTEGRATED SYSTEM	25 Nm	Bracket with 10 mm square 2 x Ø5 mm holes 48 mm inter-axe	9701240
	WALL INTEGRATED SYSTEM	25 Nm	Bracket with 10 mm square 2xØ6 mm oblongs from 48 to 60 mm inter-axe	9137029
	WALL INTEGRATED SYSTEM	50 Nm	Clamp with 10 mm square with 16 mm square	9016077
	WALL INTEGRATED SYSTEM	30 Nm	Bracket with 16 mm square	9017188
	WALL INTEGRATED SYSTEM	30 Nm	T5 clamp Ø6.5 mm F 90° holes 30 mm inter-axe	9520076





## Ø50 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	30 Nm	T5 clamp Ø6.5 mm F 90° holes 35 mm inter-axle	9520054
	WALL INTEGRATED SYSTEM	40 Nm	T5 clamp Ø6.5 mm F 90° holes 40 mm inter-axle	9520048
	WALL INTEGRATED SYSTEM	40 Nm	T5 clamp Ø6.5 mm F 90° holes 44 mm inter-axle	9520064
	WALL INTEGRATED SYSTEM	40 Nm	T5 clamp Ø6.5 mm F 90° holes 46 mm inter-axle	9520062
	WALL INTEGRATED SYSTEM	50 Nm	T5 clamp Ø6.5 mm F 90° holes 48 mm inter-axle	9520104
	WALL INTEGRATED SYSTEM	50 Nm	T5 clamp M6 holes 44 mm inter-axle	9257403
	WALL INTEGRATED SYSTEM	50 Nm	T5 clamp M6 holes 48 mm inter-axle	9520040
	WALL INTEGRATED SYSTEM	50 Nm	T5 clamp M4 holes 50 mm inter-axle	9520038



## Ø50 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	50 Nm	T5 clamp M6 holes 60 mm inter-axle	9520063
	WALL INTEGRATED SYSTEM	40 Nm	T5 clamp with oblongs Ø6.5 mm F 90° holes 44 mm inter-axle	9012467
 <b>Packaged by 1</b>	COMBINED WINDOW SHUTTER RENOVATION	35 Nm	Universal bracket: Gaviota/Simbac, Deceuninck Storbox, Alphacan Lucoroll, etc...	9013761 (x1)
 <b>Packaged by 20</b>	COMBINED WINDOW SHUTTER RENOVATION	35 Nm	Universal bracket Gaviota/Simbac, Deceuninck Storbox, Alphacan Lucoroll, etc...	9012978 (x20)
	COMBINED WINDOW SHUTTER	20 Nm	Plastic clamp for ZF bracket	9013073 (x200)
	COMBINED WINDOW SHUTTER	20 Nm	Fixing set for ZF bracket	9011860 (x200)
	COMBINED WINDOW SHUTTER	20 Nm	Thyssen bracket	2003200
	COMBINED WINDOW SHUTTER	20 Nm	S.K.S. bracket	2003206

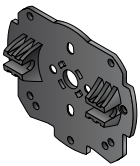
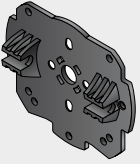
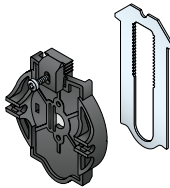
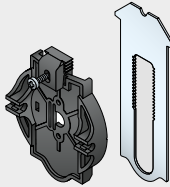
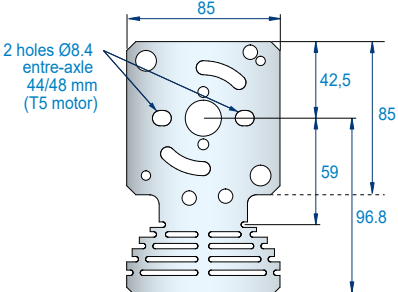
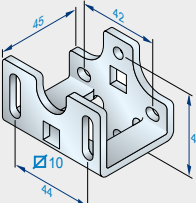


## Ø50 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	COMBINED WINDOW SHUTTER	50 Nm	VEKA bracket	9013217
 <p>Packaged by 1</p>	RENOVATION	20 Nm	Butterfly bracket, cuttable from 137 to 205 mm (Gaviota Simbac Mini 45° side frame)	9001108 (x1)
 <p>Packaged by 100</p>	RENOVATION	20 Nm	Butterfly bracket, cuttable from 137 to 205 mm (Gaviota Simbac Mini 45° side frame)	9015860 (x100)
	RENOVATION	50 Nm	Double clip clamp 80 x 80 mm	9520049
	RENOVATION	30 Nm	Euroko bracket from Deprat	9520098
	RENOVATION	50 Nm	Imbac plate 100 x 100 mm	9520187

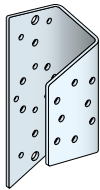
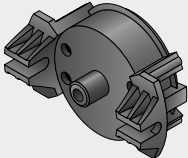
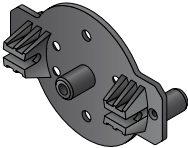
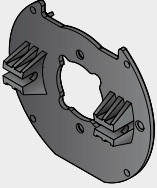



## Ø50 MOTORS

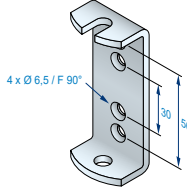
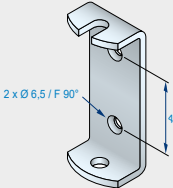
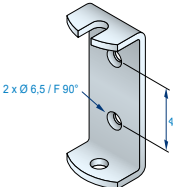
BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
 <p>Packaged by 1</p>	RENOVATION	20 Nm	ZF Alu Reno Bracket	9016065 (x1)
 <p>Packaged by 10</p>	RENOVATION	20 Nm	ZF Alu Reno Bracket	9016067 (x10)
	RENOVATION	30 Nm	Telescopic bracket 125 - 165 mm end plate	9017536
	RENOVATION	30 Nm	Telescopic bracket 180 - 205 mm end plate	9017537
	RENOVATION	20 Nm	Bracket for side frame ZF ALURENO (125/205)	2008418
	TUNNEL	Off-set bracket ZF 45 mm		9001735
		40 Nm	Use with clamp ref. <b>9520064</b>	
		25 Nm	Use with joining ref. <b>9910013</b> with 10 mm square	
		20 Nm	Use with joining ref. <b>9013923</b> with 10 mm square	



## Ø50 MOTORS

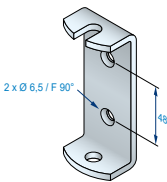
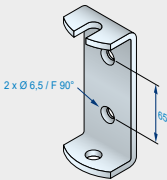
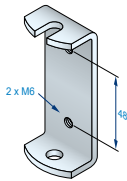
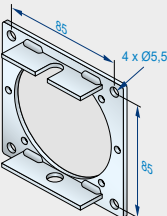
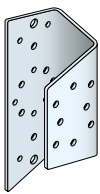
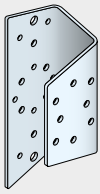
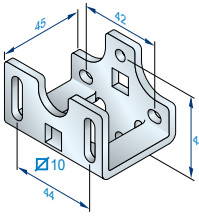

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	TUNNEL	30 Nm	Off-set bracket in U Use with clamp ref. <a href="#">9520076</a> holes with 30 mm inter-axle	<a href="#">9520202</a>
	TUNNEL	30 Nm	Bracket for tunnel end plate Coffrelite ZF	<a href="#">9011606</a>
	TUNNEL	30 Nm	Bracket for tunnel end plate Edilcass ZF	<a href="#">9017534</a>
	COMBINED WINDOW SHUTTER	10 Nm	Bracket for coffre Eclipse	<a href="#">9018286</a>
	All our brackets for Ø50 motors are supplied with the accessory bag <a href="#">4005684</a> (fixing clips, pin rings and M6 screws)			<a href="#">4005684</a>

## Ø60 MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	40 Nm - 30 mm inter-axle	T6 clamp Ø6.5 mm F 90° holes	<a href="#">9530051</a>
		60 Nm - 56 mm inter-axle		
	WALL INTEGRATED SYSTEM	45 Nm	T6 clamp Ø6.5 mm F 90° holes 44 mm inter-axle	<a href="#">9530043</a>
	WALL INTEGRATED SYSTEM	45 Nm	T6 clamp Ø6.5 mm F 90° holes 46 mm inter-axle	<a href="#">9530017</a>

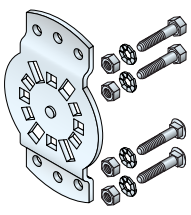
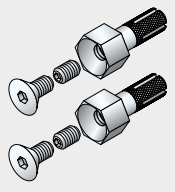
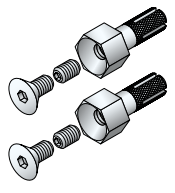
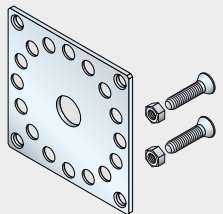
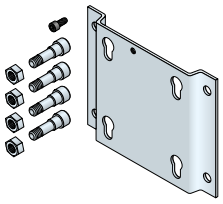


## Ø60 MOTORS


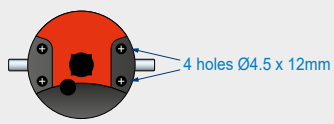
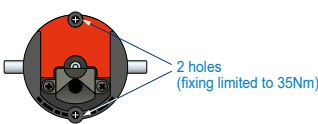
BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM	45 Nm	T6 clamp Ø6.5 mm F 90° holes 48 mm inter-axle	9530104
	WALL INTEGRATED SYSTEM	80 Nm	T6 clamp Ø6.5 mm F 90° holes 65 mm inter-axle	9530040
	WALL INTEGRATED SYSTEM	45 Nm	T6 clamp 2 X M6 holes 48 mm inter-axle	9530042
	RENOVATION	120 Nm	Plate 100x100 - T6	9530018
	TUNNEL	40 Nm	Off-set bracket in U Use with clamp ref. 9530051 holes with 30 mm inter-axle	9520202
	TUNNEL	60 Nm	Off-set bracket in U Use with clamp ref. 9530051 holes with 56 mm inter-axle	9520202
	TUNNEL	45 Nm	Off-set bracket ZF 45 mm Use with clamp ref. 9530043 holes with 44 mm inter-axle	9001735
	All our brackets for Ø60 motors are supplied with the accessory bag (fixing clips, pin rings and M6 screws)			9856000



## DMI MOTORS

BRACKET	APPLICATION	Maxi torque	DESCRIPTION	REFERENCE
	WALL INTEGRATED SYSTEM TUNNEL	85 Nm	Orientable DMI bracket - 30° inter-axle holes: 40 and 48 mm with 6 mm screws	9420654
	COMBINED WINDOW SHUTTER	20 Nm	Expandable inserts with screws for Modulo d'Imbac, Lucoroll Storbox - Deceuninck, SPPF, etc  Direct assembly on the draw	9410699
	RENOVATION	20 Nm	Expandable clowels with screws for Mini and Domino Imbac boxes  Direct assembly on the plate of the side frame	9410790
	RENOVATION	120 Nm	Plate 100 x 100 mm with 2 M6 x 25 mm bolts	9706034
	RENOVATION	120 Nm	Quick bracket for DMI motor 4 positioning screws + 1 security screw	9017950



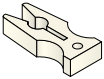
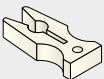
## SCREWS FOR FIXING MOTOR HEADS

TYPE		FOR MOTORS	REFERENCE
	PLASTITE SCREWS	<b>BAG OF 200 SCREWS</b>  T3.5 Hz.02 - T3.5 E Hz DC - T3.5 AUTO® - T3.5 and T3.5 DC	5005970
	FZ M5 TAPTITE SCREWS	<b>BAG OF 200 SCREWS</b>  T5 and T5 DC	855002
	5 PLASTITE SCREWS	<b>BAG OF 200 SCREWS</b>  T5 Hz02 - T5 E Hz - T5 AUTO®SHORT Hz - T5 ESP Hz T5 AUTO® - T5 AUTO®SHORT - T5 E - T5 ESP	5010255





## SCREWS FOR FIXING ONTO CLAMP

ACCESSOIRE	DESCRIPTION	REFERENCE x 200
	Pin ring for Ø50 motor (bag 200)	9850312
	Pin ring for Ø60 motor (bag 200)	9850313
	Fixing clip for Ø50 motor (bag 200)	850316
	Fixing clip for Ø60 motor (bag 200)	850317

## ACCESSORIES FOR MOTOR SETTING

ACCESSORIES	DESCRIPTION	REFERENCE
	Universal setting switch for wired and radio motors setting (with or without electronics)	9025462
	Flexible setting screwdriver (length 214 mm)	9011781 (x 20)
	Rigid setting screwdriver (length 125 mm)	9000987 (x 20)
	All our brackets for <b>Ø50 motors</b> are supplied with the accessory bag (fixing clips, pin rings and M6 screws)	4005684
	All our brackets for <b>Ø60 motors</b> are supplied with the accessory bag (fixing clips, pin rings and M6 screws)	9856000



## End caps for tube for opposite side

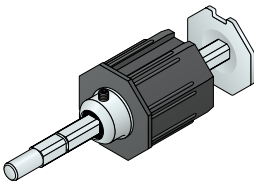
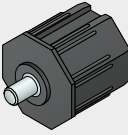
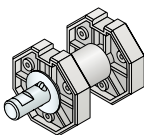

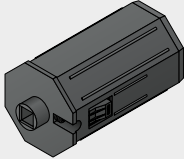
### OCTA 40MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	End cap length 78 mm for Ø28 mm bearing	2003527
	End cap length 80 mm, with clips + screws, with female 10 mm square	2003106
	Adjustable end cap, octa 40 for Ø28 mm bearing	2007508
	End cap length 71.5 mm, octa 40 for Ø10 mm bearing	2003542

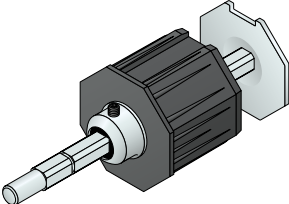
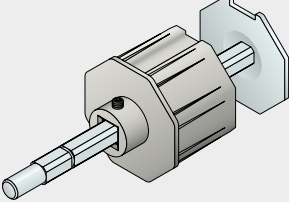
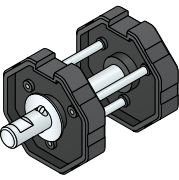

### OCTA 60MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	End cap length 98 mm with clips for Ø28 mm bearing	2003528
	End cap length 150 mm for Ø28 mm bearing	2003539
	End cap length 150 mm for Ø42 mm bearing	2003540



END CAP	DESCRIPTION	REFERENCE
	Plastic telescopic end cap length 200 mm with 12 mm pivot	2003389
	End cap length 57 mm with 12 mm pivot	2003535
	Bobbin for SIMU bracket  ref. 2003617	2003565
	End cap length 115 mm with clips with 10 mm female square for 18 mm bearing with bore	2008496 (x1)
		2008498 (x100)

## OCTA 70MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	Plastic telescopic end cap length 200 mm with 12 mm pivot	2003390
	Aluminium telescopic end cap length 200 mm with 12 mm pivot	2003471
	Bobbin Bichro	2003560
	Bobbin	2003564
	Bobbin for SIMU bracket  réf. 2003617	



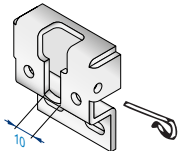
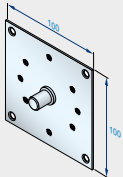
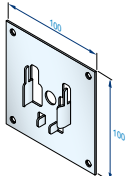
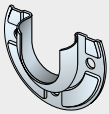
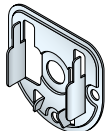

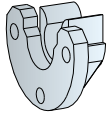
## Bearings for opposite side

BEARING	DESCRIPTION	REFERENCE
	Ø28 mm steel bearing 12 mm bore	2003454
	Ø28 mm nylon bearing 12 mm bore	2003455
	Ø42 mm steel bearing 12 mm bore	2003447
	Ø42 mm nylon bearing 12 mm bore	2003448
 Ø54 3 x Ø4 mm à 120°	Ø54 mm bearing for Ø12 mm shaft	2003598
 Ø29 mm	Ø10 mm bearing bracket	2003600 (x1)
	Roulement support Ø 10	2006409 (x50)
 +  réf. 2003443    réf. 2003448	Bracket for Ø42 mm bearing + Ø42 mm nylon bearing - 12 mm bore	2003601
	Bracket for bearing with Ø12 mm bore	2003607




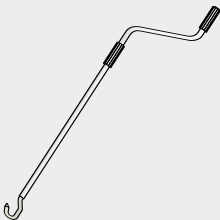
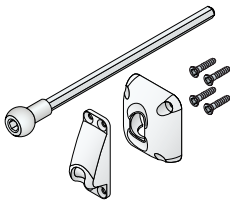

# Brackets

## for opposite side

BRACKET	DESCRIPTION	REFERENCE
	Bracket for bobbin ref. <b>2003565</b> / ref. <b>2003560</b> / ref. <b>2003564</b> Delivered with pin	2003617
	Plate 100 x 100 mm with 12 mm spring	2002645
	Plate 100 x 100 mm for Ø42 mm bearing ref. <b>2003447</b> or ref. <b>2003448</b>	2002644
	Bracket for Ø42 mm bearing ref. <b>2003447</b> or ref. <b>2003448</b>	2003442
	Bracket for Ø42 mm bearing ref. <b>2003447</b> or ref. <b>2003448</b>	2003443
	Bracket (x100) for Ø28 mm bearing ref. <b>2003455</b> or ref. <b>2003454</b>	2003446 (x100)
	Bearing for opposite side Ø 11.2 - Nylon	2003599 (x1)
		2006408 (x100)



## Accessories for manual override for DMI motors

PRODUCT	DESCRIPTION	REFERENCE	
		X1	x10
	DMI ring, length 63 mm, 7 mm hexa rod	9016332	-
	DMI ring, length 165 mm, 7 mm hexa rod	9685136	-
	DMI ring, length 325 mm, 7 mm hexa rod	9000848	-
	Crank hook - Ø14 mm, length 1200 mm	2006527	2006528
	Invisible joint, white	9685142	-
	Crank for invisible joint - Ø12 mm, white	2006637	2006638

# Accessories

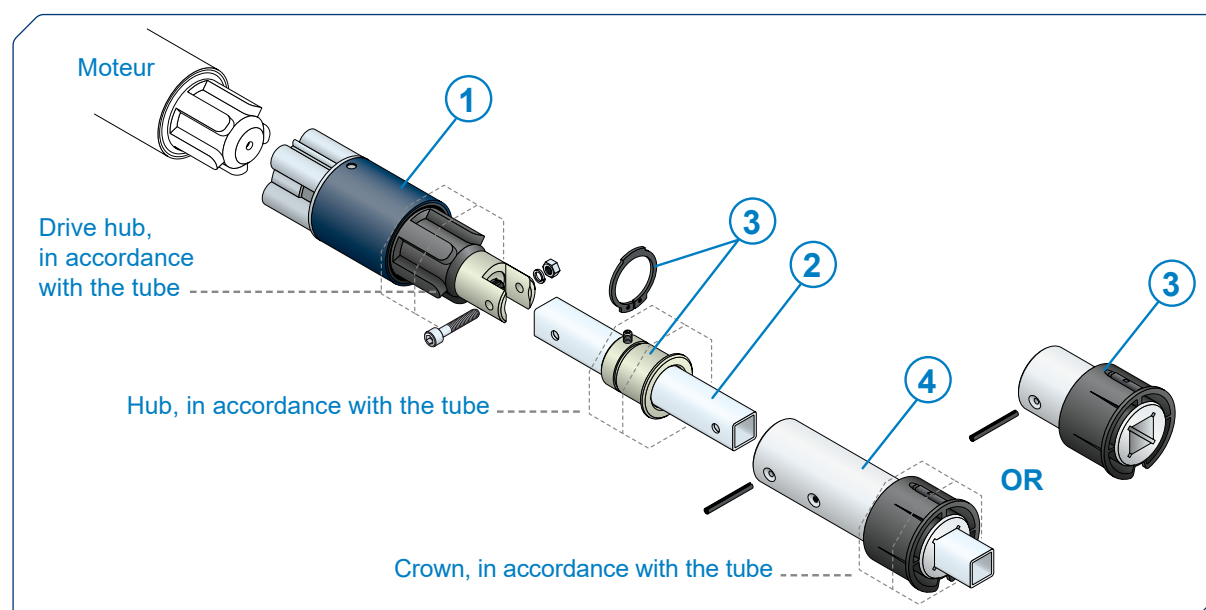
## for manual override with differential and gear on the opposite side

### THE MANUAL OVERRIDE WITH DIFFERENTIAL AND GEAR ON THE OPPOSITE SIDE

...enables manual operation of the roller shutter thanks to a gear in case of power cut.

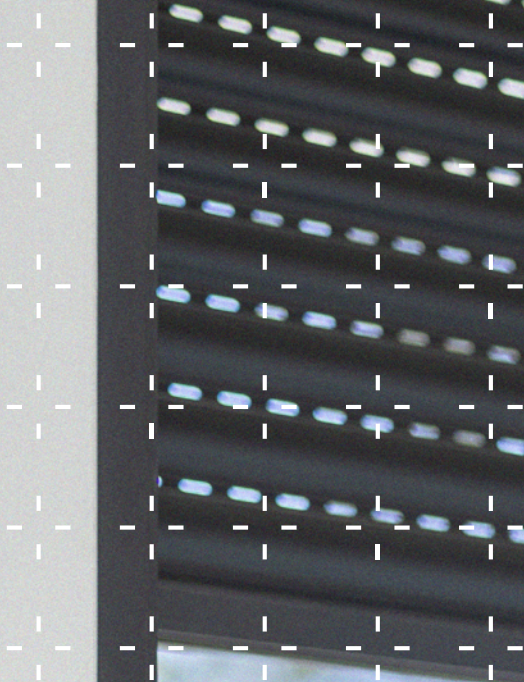
Two types of end caps, fixed or telescopic, enable the size to be modified.

This system is not compatible with motors with electronic end-limits system.

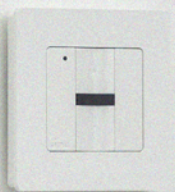


N°	PRODUCT	DESCRIPTION	REFERENCE
①		Differential, maxi motor torque 40 Nm	9257410
②		Square link, 16 mm square Sold by 6m (3 bars of 2m)	9232000
③		Short fixed end cap and intermediate bearing	9410730
④		Telescopic end cap and intermediate bearing	9410731
		Gear 1424, without end-limits Input 7 mm hexa and output 16 mm square Reduction ratio 5/1	2002143
		Gear 1424, without end-limits Input 7 mm hexa and output 16 mm square Reduction ratio 8/1	2002145





## 02. Controls & automation







## 02. Controls & automation

SIMU-BHZ CONTROLS & AUTOMATION p.104

SIMU-HZ CONTROLS & AUTOMATION p.108

WIRED CONTROLS AND AUTOMATION p.130

CONTROLS  
AND AUTOMATION





## Radio range

**A COMPLETE RANGE  
OF SIMU-HZ RADIO CONTROLS  
AND AUTOMATIC DEVICES  
TO HELP YOU GET EXACTLY  
WHAT YOU NEED FROM YOUR HOME.**

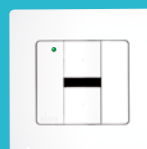


**with information  
feedback**

### CONTROL...



SIMU-BHz wall  
transmitter  
1 channel



To open  
and close,  
with ease

SIMU-BHz  
remote control  
1 channel



### PROGRAM...



SIMU-BHz  
remote control  
5 channels



To manage several shutters  
from a central point

### UPGRADE...



**REMOTE CONTROL PLUG  
WITH INFORMATION  
FEEDBACK**

...to control lighting and  
electrical appliance up to 1800W.

BHz ON/  
OFF PLUG  
E-type



BHz ON/  
OFF PLUG  
F-type



By associating the plug BHz with the TaHoma solution,  
it is possible to control its light far from home, and to  
know continuously whether it is on or off.  
It also becomes possible to program it so as to make it  
turn on and off automatically at the desired times.



SIMU BECOMES  
COMPATIBLE WITH  
THE TAHOMA SWITCH  
CONNECTED SOLUTION



**without** information  
feedback

## CONTROL...

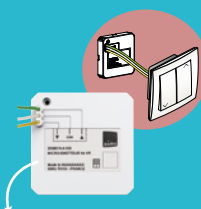
SIMU-Hz remote control  
1 channel

SIMU-Hz wall transmitter  
1 channel



To open  
and close,  
with ease

Hz micro transmitter



To convert any wire-connected  
switch on the market into a  
SIMU-Hz wireless command



## PROGRAM...

SIMU-Hz remote  
control  
5 channels

To manage  
several  
shutters  
from a  
central  
point



Remote control:  
COLOR MULTI



To control all your  
equipments

Programmable  
remote control:  
TIMER MULTI



Programmable  
remote control:  
TIMER EASY



To plan when  
your shutters  
should open  
and close

## UPGRADE...

Micro-receiver Hz  
for roller shutters



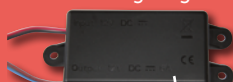
To control  
a wired  
motorisation  
roller shutter  
by remote.

To centralise several  
wired motorisation roller  
shutters, to programme their  
movements or control them  
from a smartphone.

Micro-receiver Hz  
for lighting



LED DC Hz  
receiver  
for lighting



To control lighting by remote.  
To programme lighting or control it  
from a smartphone.  
To add new wireless switches  
to an existing lighting system.



ON/OFF  
remote control  
plug

To control lighting or  
electrical appliance  
by remote.  
To programme it or  
to control it from a  
smartphone.



# Find out more about the new SIMU-BHz radio range



## Compatibility

### 100% CONNECTED OFFER



#### Make your life easy with TaHoma® switch!

With TaHoma®, you can control and connect your home equipment to all SIMU solutions (gate door opener, garage doors...) and enrich your customer connected experience!

#### ...WITH TAHOMA® SWITCH



By connecting your roller shutter, enrich your home experience. TaHoma® switch centralise and connect all your roller shutters in the house.

#### ...THE BHz TRANSMITTER RANGE

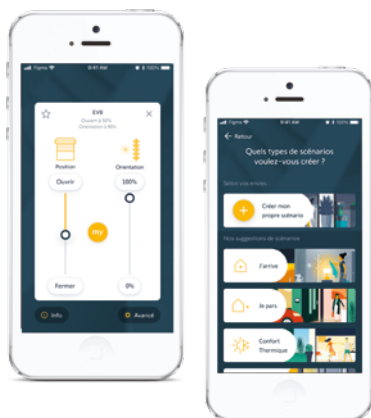
1 or 5 channel transmitter without feedback.



## What is BHz?

This is the new radio range with information feedback developed by SIMU, a range based on a reliable and secure technology.

- 868 MHz radio frequency.
- With 3 possible frequency bands (automatic selection of the best one).
- Radio installation secured by a unique 128-bit encryption key.
- Effective range of 20 metres in a concrete structure.



#### INFORMATION FEEDBACK

I can see the status and positions of my BHz shutters from the equipment menu in real time.

#### MORE PRECISION

I can select the opening setting for my shutter to the preferred position from the control menu.



## HOW TO DISTINGUISH A BHZ TRANSMITTER FROM HZ?



## UNDERSTANDING BHZ LOGOS



Transmission to a receiver/motor, without information feedback.



Dialogue between the transmitter and the receiver/motor, which confirms the reception of the order sent.

## The range in brief



### CONNECTED SOLUTION

The connected solution promises to fulfil the information feedback function made possible by this new BHZ offer.

Enhanced with a complementary offer including a sun sensor and a scenario transmitter enabling you to take even greater advantage of the ease and peace of mind that this control system offers.



### LOCAL CONTROLS

The simple BHZ control points, whether mobile or wall-mounted, make it possible to control devices directly with the added benefit of maintaining the design of your installation.



### NEW BHz MOTORS

SIMU's range of BHz motorisations.

## Satellites



### OUTDOOR SUN SENSOR

to perform scenario, according to the sunshine on the facade of the house.



# Radio automation outdoor sun sensor



## OUTDOOR SUN SENSOR

to perform scenario that are set in the TaHoma app, according to the sunshine on the facade of the house.

Description	REFERENCE
OUTDOOR BHz SUN SENSOR	2009338

Delivered with 2 type AA (LR6) batteries, plugs and screws.

## Product benefits

### MORE THERMAL COMFORT THROUGHOUT THE YEAR... ENERGY SAVINGS IN PERSPECTIVE.

Associated with the TaHoma control solution, the BHz outdoor sun sensor allows in winter to manage the automatic opening of the shutters to enjoy the sunshine, while in summer, it automatically closes the shutters / screens to preserve the coolness inside the house.

**100% COMPATIBLE WITH SIMU RADIO:** through TaHoma, it can control both Hz and BHz equipment.

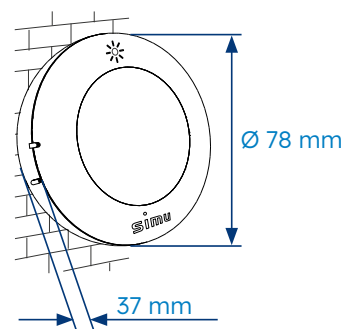
**CONVENIENT:** wireless radio sensor powered by 2 batteries, it can be located on an exterior wall of the house and it measures the sunlight from dawn to dusk. From the TaHoma application, you can check the battery level.

**SIMPLE AND FAST PROGRAMMING:** first associate the sun sensor with the TaHoma application, then easily create the conditions for opening or closing the equipment of the installation.

**FLEXIBLE:** these opening or closing conditions can be deactivated at any time from the TaHoma application.

## Technical characteristics

POWER SUPPLY	LR6 / AA - 1.5 V
RADIO RANGE	250 m in open field
OPERATING TEMPERATURE	from - 20°C to + 55° C
PROTECTION INDEX	IP 34
SIZE	Ø78 mm x 37 mm
MESURES	50 Lux to 100 k Lux
WEIGHT	150 g
ANGLE OF DETECTION	120°
RADIO FREQUENCY	868-870 MHz
COMPATIBILITY	Through the connected solution TaHoma compatible with motors and receivers SIMU-Hz and SIMU-BHz
STANDARD	CE





# Radio receiver BHz ON/OFF plug



BHz ON/OFF PLUG  
E-type



E-TYPE

BHz ON/OFF PLUG  
F-type



F-TYPE



## REMOTE CONTROL PLUG WITH INFORMATION FEEDBACK

...to control lighting and electrical appliance up  
to 1800W.

### USE

- Allows to turn on and off a device with SIMU-BHz radio: hand held transmitter and smartphone.

Description	REFERENCE
PLUG BHz ON/OFF_ E-type	2009373
PLUG BHz ON/OFF_ F-type	2009374

## Product benefits

### EASY AND QUICK TO INSTALL

The Plug BHz ON/OFF exists in 2 versions (E-type and F-type) and may therefore be inserted into any power outlet and paired very simply to transmitters through its front programming button.

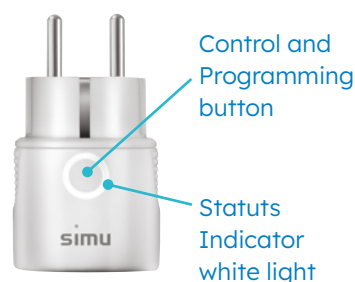
### DESIGN AND ET PERFORMANT

Thanks to its compact size and discreet design, the plug BHz blends into the home's decor while the performance of its radio range allows to install plugs in any room of the house while enjoying a centralisation command.

### THE POSSIBILITY OF SMARTPHONE CONTROL WITH INFORMATION FEEDBACK

By associating the plug BHz with the TaHoma control solution, it is possible to control its light far from home, and to know continuously whether it is on or off. It also becomes possible to program it so as to make it turn on and off automatically at the desired times (for example, in its absence to simulate a presence).

## Technical characteristics



POWER SUPPLY	230 V AC, 50 Hz, 8 A max
PROTECTION INDEX	IP20 (inside use, in a dry room)
CONTROL OUTPUT	Resistive load 1800 W Fluorescent 200 W LED 150 W
RADIO RANGE	200m in open field 8m through 2 reinforced concrete walls
TRANSMITTER COMPATIBILITY	Transmitters SIMU-BHz (10 max)
RADIO FREQUENCY	868-870 MHz
SIZE	Ø : 45 mm - L : 73 mm
STANDARD	CE



# Radio control

## BHz radio transmitters



### BHZ TRANSMITTERS RANGE

Range of transmitters for local control of the new SIMU-BHz radio motor range.

Description		REFERENCE
WALL TRANSMITTER bhz 1c	x1	2009078
WALL TRANSMITTER BHz 1C	x100	2009079
MOBILE TRANSMITTER BHz 1C	x1	2009072
MOBILE TRANSMITTER BHz 5C	x1	2009202
WALL BHZ TRANSMITTER 1C PERSO	x100	2009542

Delivered with battery.

Mobile version delivered with wall bracket (wall fixing screws not included in both cases).

## Product benefits

### RANGE OF TRANSMITTERS FOR LOCAL CONTROL OF THE NEW SIMU-BHz RADIO MOTOR RANGE

**A TRANSMITTER FOR EVERY USE:** choose either a wall version that can be placed where you want or a remote version that's always within easy reach.

**THE MOBILE TRANSMITTER:** compact, ergonomic and practical, it fits easily in the hand and can also be hung up on the wall thanks to its magnetic bracket.

**A TOUCH OF COMFORT:** record a favourite position on your roller shutter or awning and activate it by simply pressing the stop button.

**A 5 CHANNEL TRANSMITTER TO MANAGE MULTIPLE SHUTTERS:** control from the same transmitter up to 5 shutters or group of shutters.

## Technical characteristics

POWER SUPPLY	<b>Wall version:</b> 3V type CR 2430 <b>Mobile version:</b> 3V type CR 2032
OPERATING TEMPERATURE	0°C to +45°C
RADIO RANGE	<b>Wall version:</b> 150 meters in open field and 15 meters through 2 reinforced concrete walls <b>Mobile version:</b> 200 meters in open field and 20 meters through 2 reinforced concrete walls
COMPATIBILITY	with BHz motors and receivers
RADIO FREQUENCY	868-870 MHz
PROTECTION INDEX	IP30
PRODUCT CLASS	III
SIZE	<b>Wall version:</b> 80x80x10 mm <b>Mobile version:</b> 125x40x15 mm
STANDARD	CE



# NOTES



# Radio control

## 1 channel transmitter



### WALL AND MOBILE TRANSMITTER 1 CHANNEL

#### USE

- o Individual control.
- o It can also be used to centralize the system.

Description	REFERENCE		
	x1	x10	x100
1 C wall HZ transmitter	2008369	2008370	2008495
1 C mobile HZ remote control	2008799	-	-

Delivered with battery. Mobile version supplied with wall bracket (wall fixing screws not included in both cases)

### Product benefits

#### RANGE OF WIRELESS TRANSMITTERS TO EASILY CONTROL A ROLLER SHUTTER, AN AWNING OR LIGHTING

**A TRANSMITTER FOR EVERY USE:** choose either a wall version that can be placed where you want or a remote version that's always within easy reach!

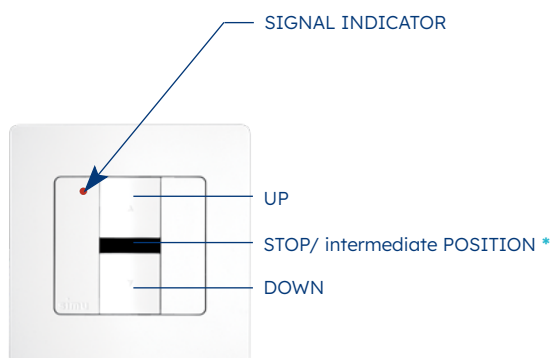
**THE REMOTE CONTROL:** compact, ergonomic and practical, it fits easily in the hand and can also be hung up on the wall thanks to its magnetic bracket.

**ELEGANT, BOTH UNDERSTATED AND MODERN,** this transmitter easily blends into any kind of decor.

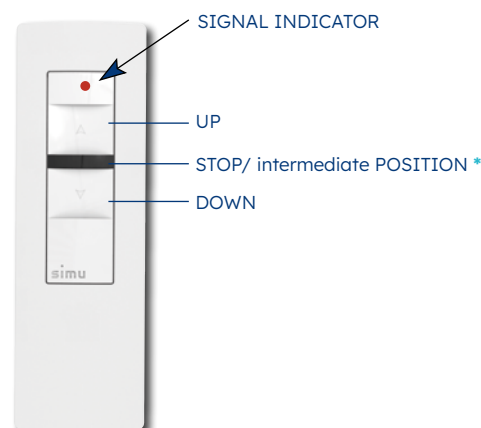
**A TOUCH OF COMFORT:** record a favourite position on your roller shutter or awning and activate it by simply pressing the stop button.

## Technical characteristics

### WALL VERSION

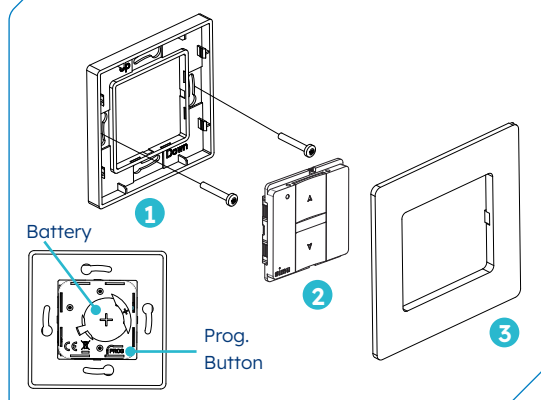


### MOBILE VERSION



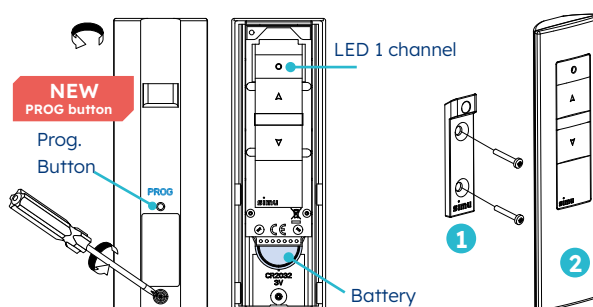
\* If the motor is equipped with this function.

### WALL VERSION



- 1 Mount the bracket on the wall
- 2 Clip on the Hz control module
- 3 Clip on the frame

### MOBILE VERSION



- 1 Mount the bracket on the wall
- 2 Put the Hz remote control in its wall bracket

POWER SUPPLY Pile lithium 3V type CR 2032

RADIO RANGE **Wall version:** 150 meters in open field and 15 meters through 2 reinforced concrete walls  
**Mobile version:** 200 meters in open field and 20 meters through 2 reinforced concrete walls

SIZE **Wall version:** 80x80x10 mm  
**Mobile version:** 125x40x15 mm

OPERATING TEMPERATURE 0°C / +45°C

RADIO FREQUENCY 433.42 MHz

PROTECTION INDEX IP30

PRODUCT CLASS III

COMPATIBILITY SIMU-Hz motors and receivers

STANDARD



# Radio control dry contact Hz transmitter



## DRY CONTACT HZ TRANSMITTER

### USE

- Enables one or several radio motors to be controlled with a secure key box (sold separately).
- Indoor use.



Description	REFERENCE
DRY CONTACT Hz TRANSMITTER	2006020

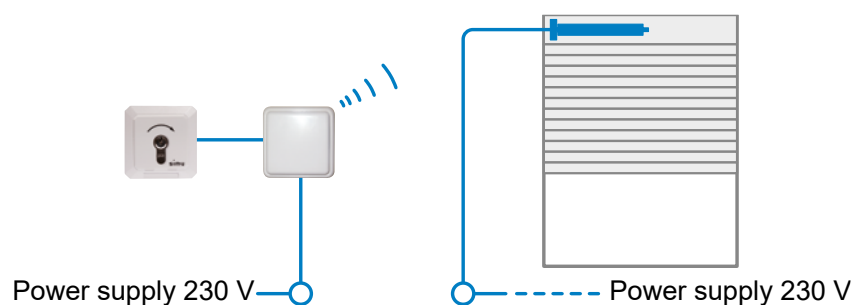
Description	REFERENCE
Surface mounting box	9154122

## Technical characteristics

PRODUCT CLASS	Class III
POWER SUPPLY	220-230 V~ // 50-60 Hz
OPERATING TEMPERATURE	from +5°C to +40°C
PROTECTION INDEX	IP 20 indoor use only
RANGE	~ 200 m in free field ~ 20 m through 2 reinforced concrete walls (depends of the environment and of the pollution)
RADIO FREQUENCY	433.42 MHz
COMPATIBILITY	Hz Motors and external Hz receivers
ASSEMBLY	Flush mounting or surface mouting (with the box ref. <b>9154122</b> )
SIZE	80 x 80 x 45 mm
STANDARD	CE

## Operating principle

The key box is connected to the dry contact transmitter which transmits the control orders to the radio motor.





# NOTES



# Radio control micro-transmitter Hz



## FLUSH MOUNTED TRANSMITTER

... to control a SIMU-Hz Equipment from any switch

### 2 VERSIONS FOR 2 USES

- o **RS version:** to control a radio motor from a switch.
- o **SEQ version:** to control from a switch, in a sequential mode (ex. lighting).
- o Cannot be used for end-limit setting.

Description	REFERENCE
Micro-Transmitter Hz for roller shutter RS	<a href="#">2008519</a>
Micro-Transmitter Hz for lighting SEQ	<a href="#">2008518</a>

Delivered with battery and 3 connection wires.

## Functions and product benefits

**PRACTICAL**, the micro-transmitter allows to transform any switch into a wireless control point. In this way, the user is free to choose the same brand and design of switch as the other electrical equipments of the house.

**ULTRA COMPACT**, it easily fits behind the switch, in the electrical box.

**UNIVERSAL**, it is compatible with any switch of the market (stable or unstable) and it keeps their operating mode.

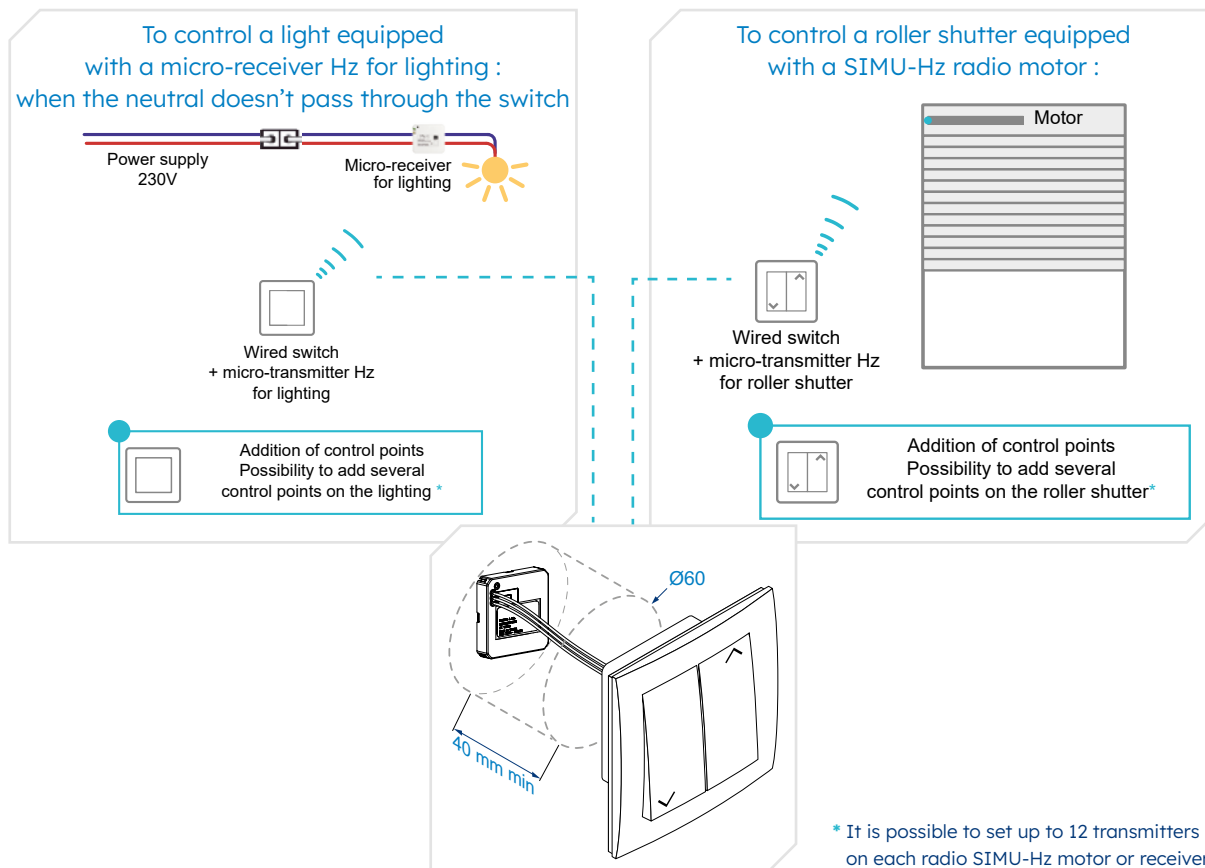
**LOW-VOLTAGE INSTALLATION**, supplied with a 3V battery and directly connected to the switch.

**NO WIRING REQUIRED**, it is possible and easy to add one or several control points without making any hole or wireway, avoiding in this way any deterioration of inside walls.

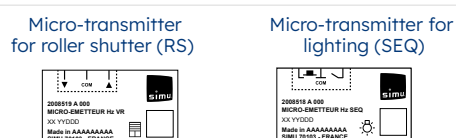
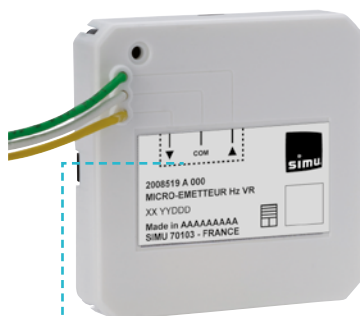
**BUILT-IN SIMU-HZ RADIO** : the micro-transmitter is compatible with motors and receivers of the SIMU-Hz range.



## Installation and operating principle



## Technical characteristics



Delivered with 3 connection wires to the switch.

PRODUCT CLASS III

POWER SUPPLY Lithium type 3V CR2430

AMBIENT TEMPERATURE OF USE 0°C to +45°C

PRODUCT DIMENSIONS 45 x 45 x 9 mm

PROTECTION INDEX IP 30

RADIO FREQUENCY 433.42 MHz - radio SIMU-Hz

RADIO RANGE 20 m through 2 reinforced concrete walls, depends on the environment and on the radio pollution

### RS VERSION:

RADIO COMPATIBILITY Compatible with the entire range of SIMU-Hz receivers and motors

SWITCH COMPATIBILITY Stable switch (Up / Down / Stop)  
Unstable switch (Up / Down / Stop)

### SEQ VERSION:

RADIO COMPATIBILITY Compatible with the micro-receiver for lighting and with SIMU-Hz receivers and motors

SWITCH COMPATIBILITY Switch (ON/OFF)  
Push button (ON/OFF)

STANDARD



# Remote control TSA+ 4 channels



## ELEGANT DESIGN, VISIBLE QUALITY!

- **A MULTI-PURPOSE REMOTE CONTROL:** associated with motors and control boxes of the SIMU range, the TSA+ remote control enables you to control store shutters and doors of industrial buildings.
- **AN UNDERSTATED DESIGN AND HIGH-QUALITY FINISH:** SIMU wanted to create an understated and elegant remote control with timeless features. Its metal ring with a chrome finish endows it with quality and robustness.
- **HIGHLY PRACTICAL, IT COMES WITH ITS OWN ATTACHMENT HOLDER:** as standard, TSA+ is delivered with a holder made from a material that is both flexible and unbreakable which means it can be clipped onto a car's sun visor or attached to a wall.
- **NO MORE ACCIDENTALLY PRESSING BUTTONS!** The shape and sensitivity of the touch buttons have been designed to avoid accidentally being pressed when the remote control is in your pocket.



Description	References	
	x 1	x 16
TSA+	2007846	2008038

## Recommended combinations

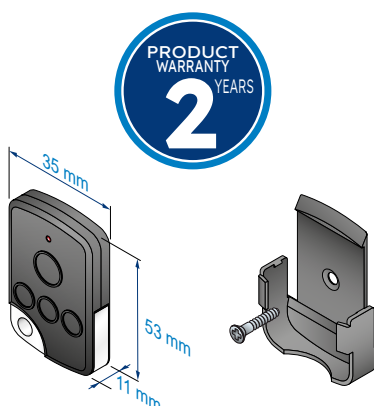
...for store shutters and doors of industrial buildings:



...for buildings equipped with three-phase SD510:



## Technical characteristics



POWER SUPPLY	3V lithium battery – type CR2430
RADIO FREQUENCY	433.42 MHz
NUMBER OF CHANNELS	4
RADIO RANGE	30 meters
PROTECTION RATING	IP54
FUSE	class III
OPERATING TEMPERATURE	-20°C / +70°C
SECURE COMMUNICATION	Encrypted control orders + Rolling code; with 16 million possible combinations
DIMENSIONS	35 x 53 x 11 mm
WEIGHT	38 g

# Radio control Keypad HZ 2C



**TO CONTROL 2 DEVICES  
WITH EASE**

## ○ A DISCREET, MODERN DESIGN

- An anthracite look and compact size to blend in anywhere.

## ○ SIMPLE, SECURE USAGE

- Two channels to control two devices.
- One main code to open all the channels and change the settings, and a secondary code to restrict control to a single channel.
- Protection against unauthorised entry thanks to automatic locking of the keypad after several unsuccessful attempts.

## ○ EASY TO INSTALL AND PROGRAM

- Two pre-mounted elements to assemble which are attached using a captive screw.
- Just three steps to configure the code using the set and reset buttons.

## ○ COMPATIBILITY

- SD100 Hz control box and the GM range of garage door motors.
- SD510 control box combined with standard Hz receiver.



Description	Reference
	x 1
KEYPAD HZ 2C	2009771

Rain hood to protect against bad weather

**2 CONTROL BUTTONS:**  
two channels to control two devices.

**INDICATOR LIGHTS:** notify success or failed keyboard entry.

**ALPHANUMERIC KEYS:**  
keys from 0 to 9 for entering a code (main or secondary).

**S-KEY:**  
for programming

## Technical characteristics

POWER SUPPLY	CR 2450 battery
RADIO FREQUENCY	433.42 MHz
NUMBER OF CHANNELS	2
RADIO RANGE	30 meters
PROTECTION INDEX	IP55
PRODUCT CLASS	III
COMPATIBILITY	SD100 HZ, GM range and HZ standard receiver
DIMENSIONS	120 x 70 x 30 mm
WEIGHT	123 gr
APPROVALS	



# Radio control

## 5 channels transmitter



### MOBILE TRANSMITTER 5 CHANNELS

...to control up to 5 shutters or groups of shutters

#### USE

- Individual control
- Control by areas : by room, by floor
- Centralisation

Description	REFERENCE
5 C mobile HZ remote control	2008798

Delivered with battery.

Mobile version supplied with wall bracket (wall fixing screws not included in both cases)

### Product benefits

**THE NEW COLLECTION OF WIRELESS TRANSMITTERS FOR CENTRALISED CONTROL OF SEVERAL ROLLER SHUTTERS.**

**ONE TRANSMITTER MANAGES SEVERAL ROLLER SHUTTERS:** control up to 5 roller shutters or groups of roller shutters from the same transmitter, you can also organise zones and centralisation in your house.

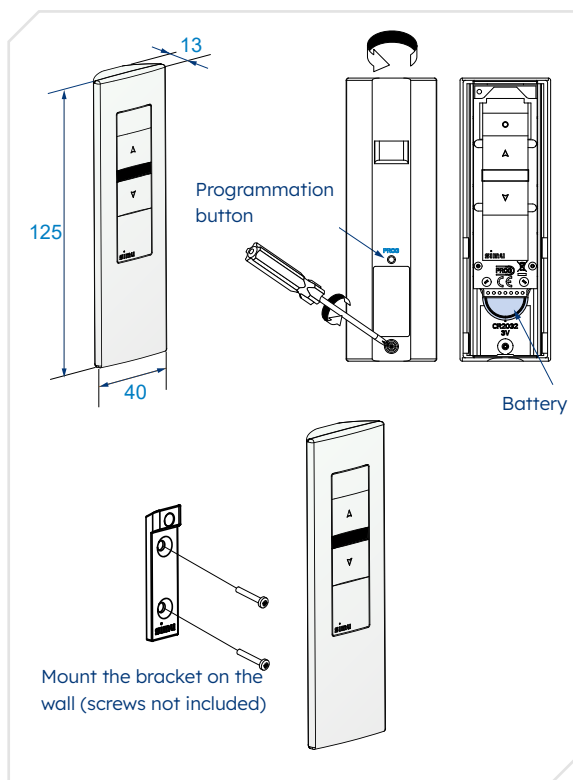
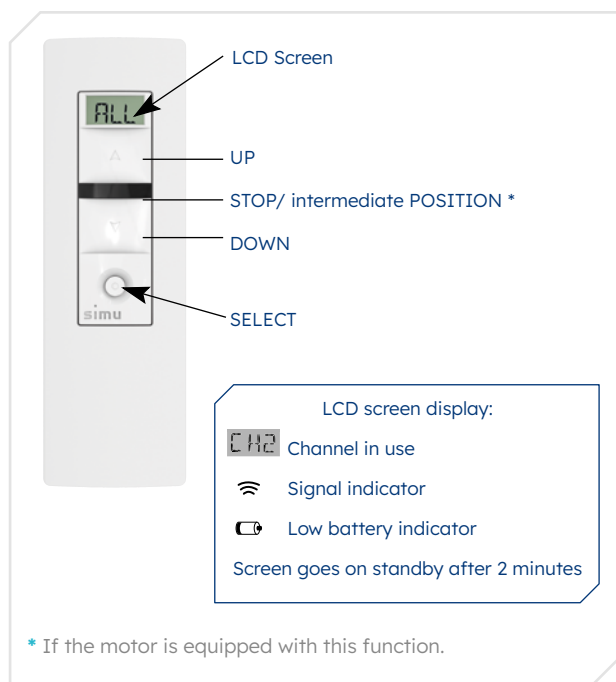
**CLEVER:** the pre-programmed «ALL» channel centralises the 5 recorded channels.

**PRACTICAL:** the LCD screen lets you customise each control channel with 2 characters. In addition, a signal appears when the battery level is low.

**THE REMOTE CONTROL:** compact, ergonomic and practical, it fits easily in the hand and can also be hung up on the wall thanks to its magnetic bracket.

**ELEGANT, BOTH UNDERSTATED AND MODERN,** this new transmitter easily blends into any kind of decor.

## Technical characteristics



POWER SUPPLY 3V type CR 2032

RADIO RANGE 200 meters in open field and  
20 meters through 2 reinforced concrete walls

SIZE 125 x 40 x 15 mm

OPERATING TEMPERATURE 0°C to +45°C

RADIO FREQUENCY 433.42 MHz

PROTECTION INDEX IP30

PRODUCT CLASS III

COMPATIBILITY SIMU-Hz motors and receivers



# Radio control

## COLOR MULTI remote control



### 16 CHANNELS REMOTE CONTROL

... enabling up to 16 shutters or groups of shutters to be controlled.

#### USE

- o Individual control.
- o Control by area: by room, by floor, etc.
- o Centralisation.

Description	Colour	REFERENCE
COLOR MULTI remote control	White	2007348

Delivered with battery and wall bracket (screws not included).

### Product benefits

**MULTI CHANNEL REMOTE CONTROL:** thanks to its 16 programming channels and its LCD screen, COLOR MULTI gives the opportunity to organise and manage, in individual or group controls, all the roller shutters and awnings of the house, being roller shutters of the living room, the bedrooms, the bathroom or even the awning on the terrace.

It is no longer necessary to move around, COLOR MULTI is a remote control! It is no longer necessary to multiply the remote control either, COLOR MULTI can control everything!

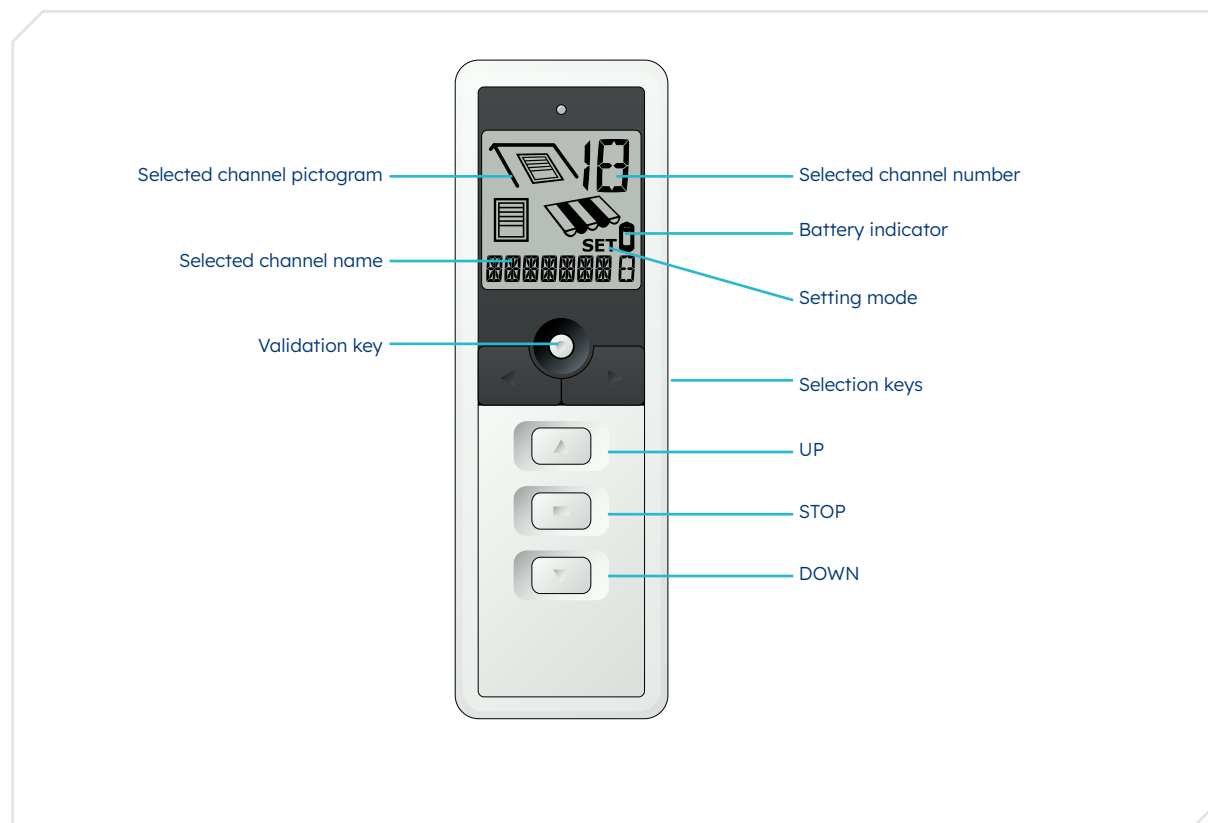
**THE LCD SCREEN SERVING SIMPLICITY:** thanks to the information on this screen, you always know everything about the product working or in programming.

**CREATE MADE-TO-MEASURE CONTROLS:** the naming function combined to the numerous possibilities of controls give the opportunity to personalise COLOR MULTI for each user, with the name he has chosen per control (for example: bedroom1, living, terrace...)

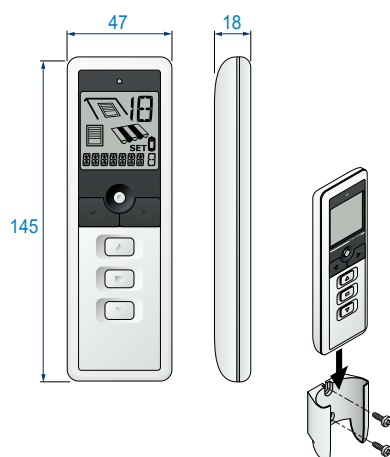
## Operating principle

**ADVANCED HOME MANAGEMENT:** each one of the 16 channels can be used for individual, area or centralised control.

**LCD SCREEN ENABLING EACH CONTROL/CHANNEL TO BE CUSTOMISED:** naming (7 letters + 1 figure) + channel number (from 1 to 16) + selected channel pictogram (facade or roof shutter or awning).



## Technical characteristics



**PRODUCT CLASS** Class II

**POWER SUPPLY** 2x1.5V batteries - LR03 AAA type

**OPERATING TEMPERATURE** from 0°C to +45°C

**PROTECTION INDEX** IP 20

**RANGE** ~ 200 m in free field  
~ 20 m through 2 reinforced concrete walls  
(depends of the environment and of the pollution)

**RADIO FREQUENCY** 433.42 MHz

**COMPATIBILITY** Hz Motors and external Hz

**STANDARD**



# Radio automation

## TIMER EASY remote control



### 1 CHANNEL PROGRAMMABLE REMOTE CONTROL

#### USE

- Centralisation and home automation.
- Use in manual or automatic mode.

Description	Colour	REFERENCE
TIMER EASY remote control	White	2008188

Delivered with battery and wall bracket (screws not included).

### Product benefits

**THE COMFORT OF AUTOMATIC CENTRAL CONTROL:** TIMER EASY enables 1 opening and 1 closing per day of all the house's roller shutters to be programmed.

**READY TO USE:** For easy and quick setting, it is delivered already programmed. Opens at 7.30 am and closes at 8.00 pm, and automatically changes for winter/summer time (Paris/Europe time zone).

**PROGRAMMING IS EASY TO CHANGE:** Thanks to the «memory» function, simply pressing the up or down button for 8 seconds saves the current time for the opening or closing of the roller shutters every day.

**CAN BE PERSONALISED:** TIMER EASY also enables a more specific programming to be set, to open and close the shutters at different times on work days and days at home.

**MORE SAFETY:** When you are away, the house will appear lived-in thanks to the occupant presence simulation which, when activated, randomly shifts the preset opening and closing times by 0 to +30 minutes.

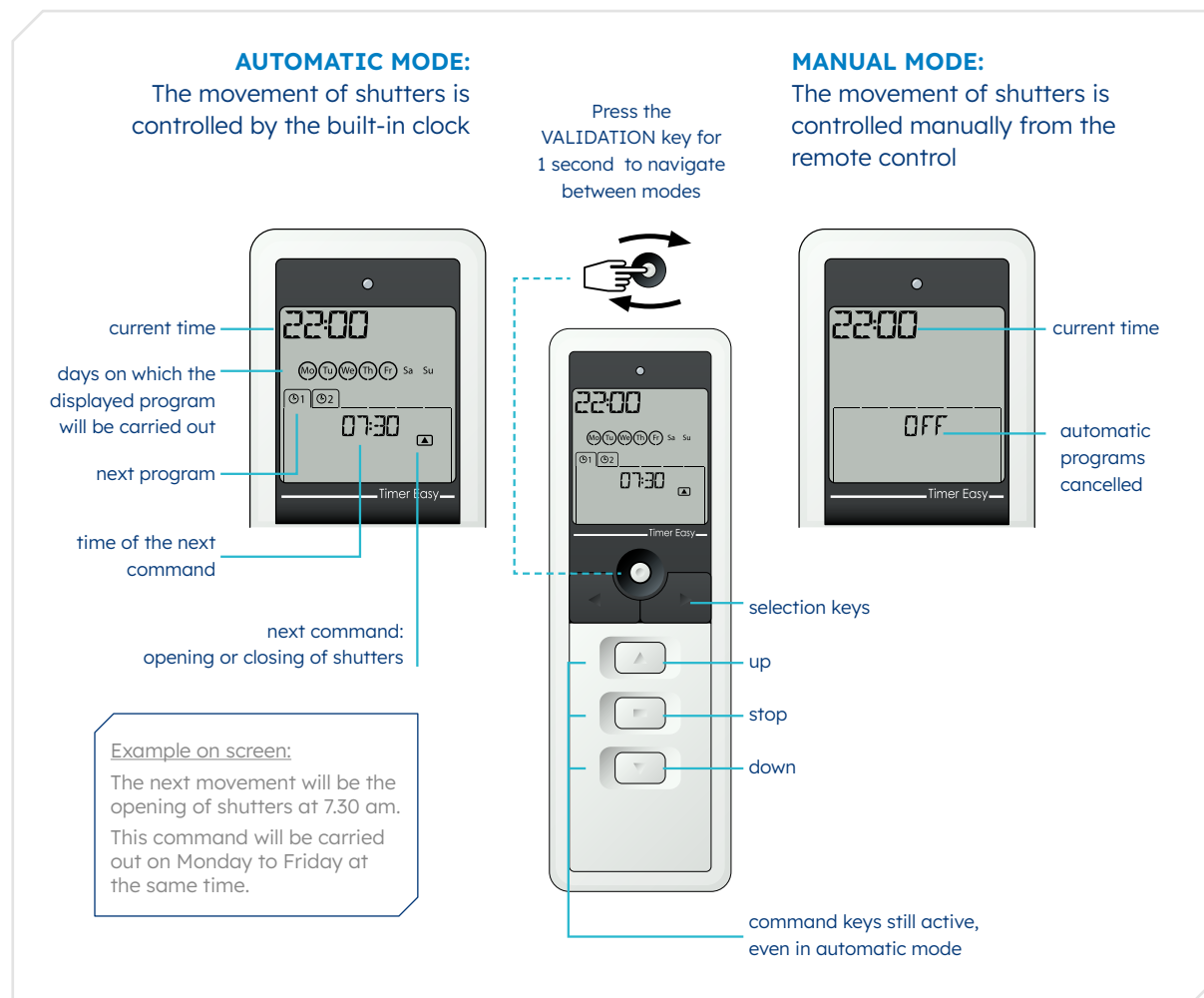
**FLEXIBLE USE:** TIMER EASY can easily be switched off at any time and used simply as a manual centralised system.



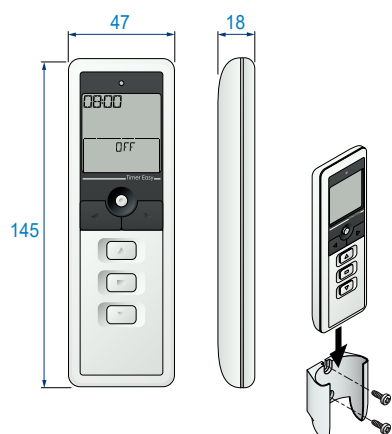
## Operating principle

### 2 POSSIBILITIES IN AUTOMATIC MODE:

- Daily mode: same program every day.
- Work/rest mode: one program on work days and another one on rest days.



## Technical characteristics



**PRODUCT CLASS** Class II

**POWER SUPPLY** 2x1.5V batteries - LR03 AAA type

**AMBIENT TEMPERATURE OF USE** from +0°C to +45°C

**PROTECTION INDEX** IP 20

**RANGE** ~ 200 m in free field  
~ 20 m between 2 reinforced concrete walls  
(depends of the environment and of the pollution)

**RADIO FREQUENCY** 433.42 MHz

**COMPATIBILITY** Hz Motors and external Hz receiver

**STANDARD**



# Radio automation

## TIMER MULTI remote control



### 6 CHANNEL PROGRAMMABLE REMOTE CONTROL

...enabling up to 6 shutters or groups of shutters to be controlled.

#### USE

- Automation and advanced home management.
- Use in manual or automatic mode.

Description	Colour	REFERENCE
TIMER MULTI remote control	White	2007830

Delivered with battery and wall bracket (screws not included).

### Product benefits

**CREATION OF CUSTOMISED SCENARIOS:** TIMER MULTI can register up to 6 programs per day. Each of these programs can control one or several of the six channels of the remote control. Every day the programs can be different.

**ENERGY SAVING:** thanks to the twilight function, the shutters can automatically close at sunset time, to better insulate the house from the outside cold in winter.

**MORE SAFETY:** When you are away, the house will appear lived-in thanks to the occupant presence simulation which, when activated, randomly shifts the preset opening and closing times by 0 to +30 minutes.

**SIMPLIFIED PROGRAMMING:** the “copy/paste” function allows the programming to be quickly duplicated, when they are the same for several days of the week.

**CUSTOMISABLE SCREEN:** The LCD screen allows a name to be stored for each channel (5 letters + 1 digit, from 1 to 6).

**FLEXIBLE USE:** TIMER MULTI can easily be switched off at any time and used only as a manual centralised system.

**OTHER:** Automatic switching summer/winter time (in Europe area).



#### NOTE

Find all the TIMER MULTI playlists on our YOUTUBE channel

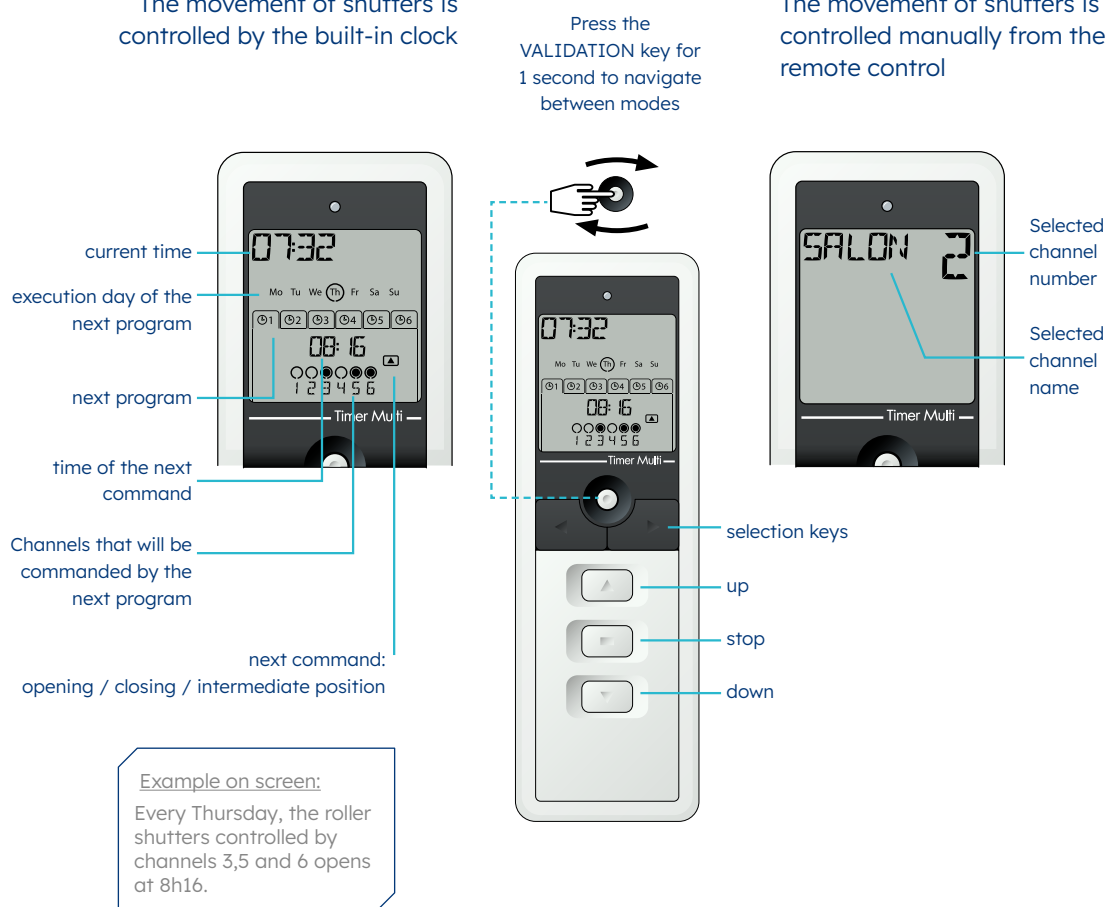
## Operating principle

### AUTOMATIC MODE:

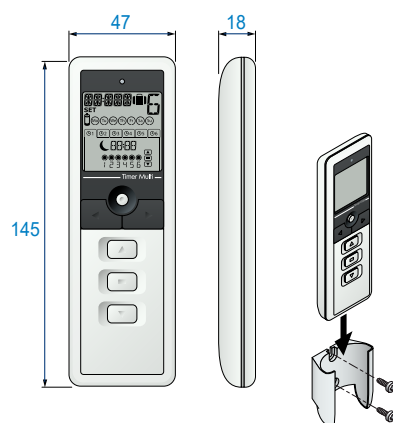
The movement of shutters is controlled by the built-in clock

### MANUAL MODE:

The movement of shutters is controlled manually from the remote control



## Technical characteristics



PRODUCT CLASS Class II

POWER SUPPLY 2x1.5V batteries - LR03 AAA type

AMBIENT TEMPERATURE OF USE from +0°C to +45°C

PROTECTION INDEX IP 20

RANGE ~ 200 m in free field  
- 20 m through 2 reinforced concrete walls  
(depends of the environment and of the pollution)

RADIO FREQUENCY 433.42 MHz

COMPATIBILITY Hz Motors and external Hz receivers

STANDARD



# NOTES

[illegible]

# Radio receiver ON/OFF remote control plug



## EXTERNAL RADIO RECEIVER

...for lighting and electrical appliance up to 3600W.

### USE

- o Allows to turn on and off a light or an electrical appliance with SIMU-Hz radio.

Description	REFERENCE
Plug Hz ON/OFF 3600W	2008973

## Functions and product benefits

### EASY AND QUICK TO INSTALL:

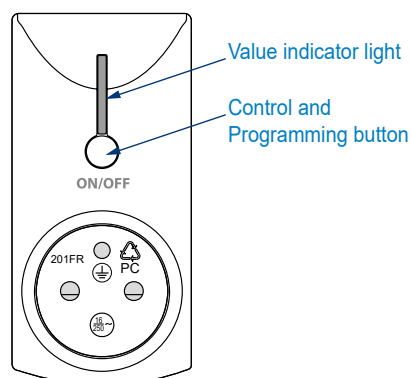
The ON/OFF remote control plug may be inserted into any mains socket and paired very simply to transmitters through its front programming button.

**COMPATIBLE** with all radio SIMU-Hz management solutions whose control from a smartphone

### USEFUL:

For remote control, programming on the week and even distant piloting the switching ON and OFF of lighting (lamppost, for example) or an electrical appliance (coffee maker, television, washing machine...).

## Technical characteristics



POWER SUPPLY	230 V - 50 Hz
PROTECTION INDEX	IP20 (inside use, in a dry room)
CONTROL OUTPUT	3600W / 16A max.
DIMENSIONS	53 x 110 x 77 mm
RANGE	30 meters in free field
RADIO COMPATIBILITY	Any SIMU-Hz transmitters (5 transmitters/ channels max.)
RADIO FREQUENCY	433.42 MHz
STANDARD	CE



# Radio receiver

## Micro-receiver Hz for roller shutters



### EXTERNAL RADIO RECEIVER

...for modernisation or new installation

#### USE

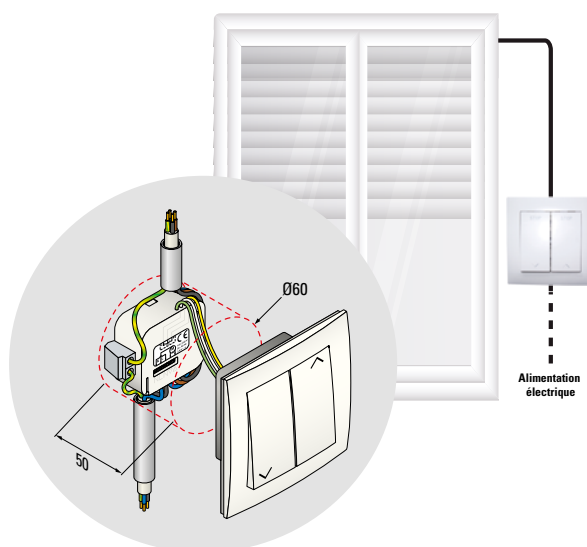
- It equips wired motors with the SIMU-Hz radio technology, **while retaining the original wired switch in individual control.**



Description	REFERENCE	
	x1	x10
Micro-receiver Hz for roller shutters	2008191	2008192

Delivered with 3 connection wires to the switch.

### Functions and product benefits



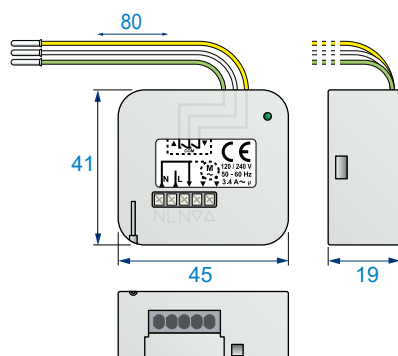
#### QUICK AND EASY TO INSTALL:

Thanks to its compact size and automatic terminal block, it fits behind the switch in the electrical wallbox (Recommended wallbox depth: 50 mm minimum).

#### IDEAL:

- To add a SIMU-Hz radio centralisation and automation in a wired installation.
- To maintain the aesthetics of switches, especially in the case of a new installation.

### Technical characteristics



PRODUCT CLASS Class II

POWER SUPPLY 230 volts 50/60Hz  
ou 120 Volts 50/60Hz

AMBIENT TEMPERATURE OF USE -20°C / +55°C

PROTECTION INDEX IP 20 (after installation)

MOTOR COMPATIBILITY All SIMU wired motors

MAX MOTOR POWER 3A/240V or 3.4A/120V

TRANSMITTER COMPATIBILITY The entire range of SIMU-Hz transmitters (maximum of 12 transmitters per receiver)

SWITCH COMPATIBILITY Stable and unstable

RADIO FREQUENCY 433.42 MHz

STANDARD

# Radio receiver

## Micro-receiver Hz for lighting



### EXTERNAL RADIO RECEIVER

...for lighting

#### USE

- o Allows the control of a light with SIMU-Hz radio technology, **while retaining the original wired switch in instable mode.**

Description	REFERENCE
Micro-receiver Hz for lighting	2008193

Delivered with 3 connection wires to the switch (Only 2 wires have to connect)



## Functions and product benefits

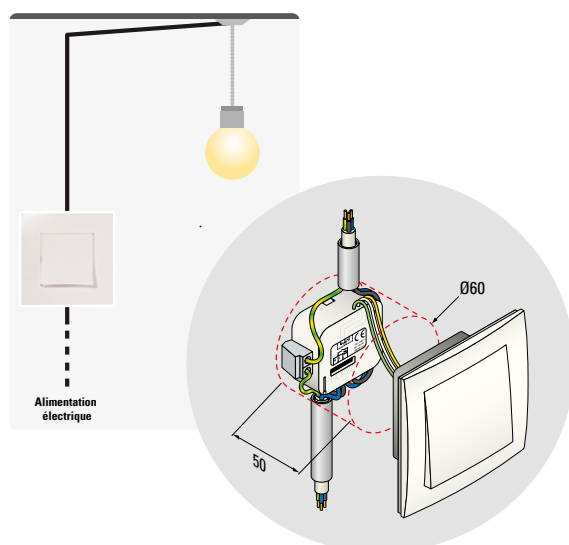
#### QUICK AND EASY TO INSTALL:

Thanks to its compact size and automatic terminal block, it fits behind the switch in the electrical wallbox (recommended wallbox depth: 50 mm minimum).

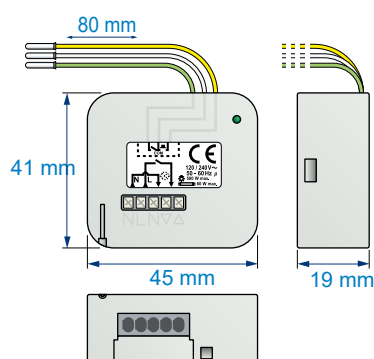
**COMPATIBLE** with all radio SIMU-Hz management solutions whose control from a smartphone

#### USEFUL:

For remote control of lighting, to program or to control from the same device the shutters and lights.



## Technical characteristics



PRODUCT CLASS Class III

POWER SUPPLY 230 volts 50/60Hz or 120 Volts 50/60Hz

AMBIENT TEMPERATURE OF USE -20°C / +55°C

PROTECTION INDEX IP 20 (after installation)

CONTROL OUTPUT **500 W** For halogen lamps

CONTROL OUTPUT **60 W** For CFL/LEDs

TRANSMITTER COMPATIBILITY The entire range of SIMU-Hz transmitters (maximum of 12 transmitters per receiver)

SWITCH COMPATIBILITY Stable and push button

RADIO FREQUENCY 433.42 MHz

STANDARD **CE**





# Radio receiver Hz receiver



The wired motors must have been previously equipped with a terminal block.

See accessories.

The receiver Hz motor is delivered with a wired connection box.



## EXTERNAL RADIO RECEIVER

...for a modernisation or new installation.

### USE

- It equips wired motors with the SIMU-Hz radio technology.

Description	REFERENCE	
	x1	x10
Hz receiver (for all wired motors)	2004873	2004872
Hz receiver (for T5 Auto and T5 E motors)	2004875	2004874

## RECEIVER HZ + TRANSMITTER KIT

Description	REFERENCE x10
Receiver Hz + wall transmitter 1C white (for all wired motors)	2008884
Receiver Hz + wall transmitter 1C white (for T5 Auto and T5 E motors)	2008885

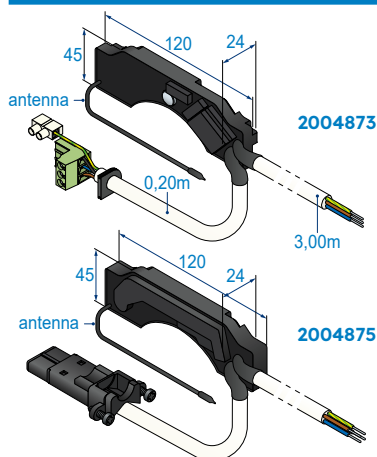
## Functions and product benefits

It fits directly into the roller shutter on a universal bracket from 150 mm.

**QUICK TO INSTALL:** the connection to the motor is quick and easy, thanks to the terminal block.

**COMPATIBLE** with all controls and automation of the SIMU-Hz range.

## Technical characteristics



POWER SUPPLY 230 V - 50 Hz

AMBIENT TEMPERATURE OF USE -30°C / +80°C

PROTECTION INDEX IP 44

RADIO FREQUENCY 433..2 MHz

MOOTER COMPATIBILITY With T3.5 / T5 / T6 / DMI5 or DMI6 motors (to be fitted with connection kit **9011670**) (ref. **2004873**) and T5E / T5 AUTO (ref. **2004875**)

TRANSMITTER COMPATIBILITY The entire range of SIMU-Hz transmitters (maximum of 12 transmitters per receiver)

STANDARD

## Accessories

Product	Description	REFERENCE x10
	Terminal block for T3.5 / T5 / T6 / DMI5 or DMI6 motors	9011670
	Box for terminal block - IP44	2005028
	Receiver clip (tunnel box mounting configuration)	9012820

# Radio receiver LED DC Hz receiver



## EXTERNAL RADIO RECEIVER

...for lighting



Power supply and lighting control cable included (length of wires = 42 cm)

### USE

- It is supplied in 12 VDC and allows to control a light from a SIMU-Hz remote control.

Description	REFERENCE
LED DC Hz receiver	2008405

## Functions and product benefits

### EASY AND QUICK TO INSTALL, INSIDE AND OUTSIDE

Easy installation thanks to its compact size, the integrated connection wires and the brackets for fixing. Moreover, as it is waterproof it is compatible for an indoor as well as a outdoor installation.

### BUILT-IN LIGHT DIMMER SWITCH

It allows to set the level of the light from a remote control.

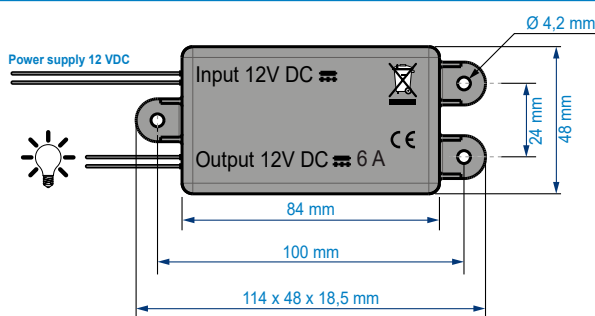
You can also set a intermediate light level and then reach it by simply pushing the stop button.

### CONVENIENT

Compatible with all the SIMU-Hz transmitters and automatic devices.

It is possible to control both shutters and lightings from a multichannel remote control.

## Technical characteristics



POWER SUPPLY 12 VDC (min.: 11V / max.:16V)

AMBIENT TEMPERATURE OF USE -20°C / +70°C

PROTECTION INDEX IP 55

CONTROL OUTPUT 72 W at 12 V for Led incandescent/halogen or bulbs.

RUNNING TIME 3 hours (before automatic cut off)

RADIO COMPATIBILITY Any SIMU-Hz transmitters (up to 12 transmitters per receiver)

RADIO FREQUENCY 433.42 MHz

STANDARD



## Wired range wired controls and automation - 230v

### TO CONTROL

#### INDIVIDUAL CONTROL



Switch  
PM3



Switch  
APEM

#### GROUPED CONTROL

\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.



Switch  
PM3

### AUTOMATION

#### INDIVIDUAL CONTROL

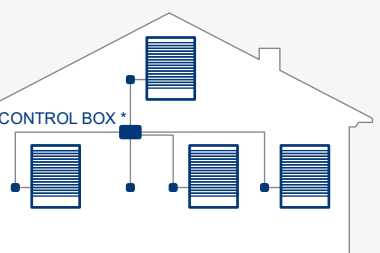


TIMER AC  
Programmable clock timer  
Daily / Weekly



MEMORY AC  
Wired switch  
with 24-hour cycle  
repetition function

## CONTROL BY CONTROL BOX



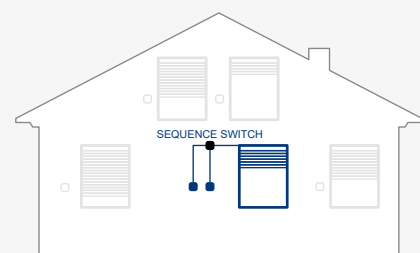
Switch  
APEM

### ACCESSORIES



Control box  
4 motors

## MULTIPOINT CONTROL BY PUSH BUTTON AND SEQUENCE SWITCH



Push button  
LEGRAND MOSAÏC



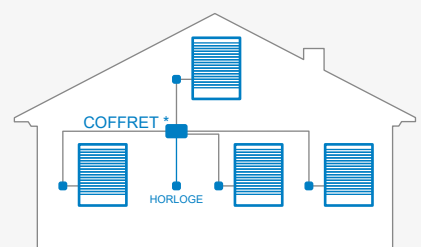
WATERPROOF  
Push button

### ACCESSORIES



Sequence switch

## GROUPED CONTROL BY CONTROL BOX



\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.



TIMER AC  
Programmable clock timer  
Daily / Weekly



MEMORY AC  
Wired switch with 24-hour  
cycle repetition function

### ACCESSORIES



Control box  
4 motors



# Wired automation

## TIMER AC



### PROGRAMMABLE CLOCK TIMER

...to programme the opening and closing of a roller shutter

#### USE

- Individual control.
- Grouped control, with control box
- Use in manual or automatic mode.

Description	REFERENCE
<b>TIMER AC</b>	<a href="#">2008420</a>
Sun / Twilight sensor	<a href="#">2008800</a>
Surface mounting box	<a href="#">2210076</a>

### Functions and product benefits

**FLEXIBLE:** wired clock with 2 programming modes, daily (the same programme for the whole week) and weekly (different programmes for each day of the week).

**EASILY RECORD PROGRAMMES THANKS TO ITS MEMORY FUNCTION:** simply press and hold the up or down button at the desired time to programme a command. This setting can also be done through the setting mode.

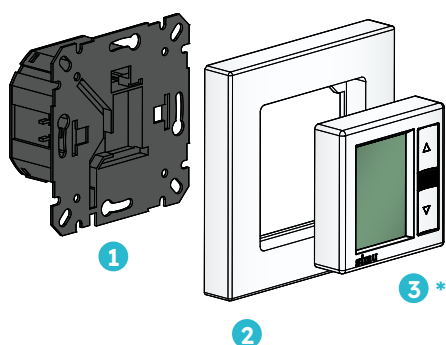
**SECURITY** when you are away thanks to its presence simulation function which varies the programmed schedules randomly.

**PROGRAMMING CAN BE DISABLED AT ANY TIME**, by pressing the stop button (black button) for 1 second.

**UNDERSTATED DESIGN:** TIMER AC fits in with any indoor style.

**SUN / TWILIGHT SENSOR OPTION:** when equipped with this sensor, the Timer AC can also automatically open and close the roller shutter according to the amount of sun and when night falls.

## Assembly



### EASY INSTALLATION IN 3 STEPS :

- 1 Connect then attach the power source to the recessed box (Screws included).
- 2 Clip on the frame.
- 3 Connect the wired control module \*

\* Module compatible with 50 x 50 mm electrical equipments on the market  
Surface mounting is also possible.  
See the surface mounted box in the “compatible accessories” section mentioned below.

### COMPATIBLE ACCESSORIES

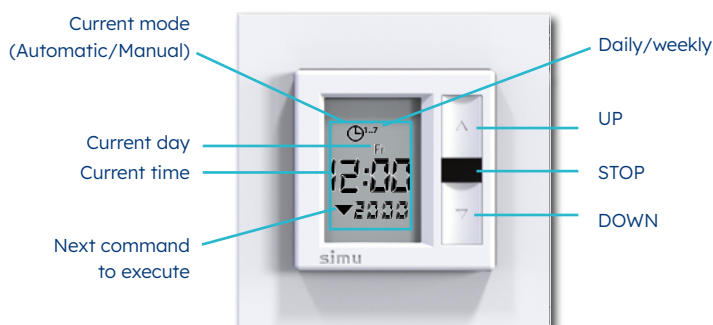


Surface mounting box  
Ref **2210076**



Sun / Twilight sensor  
(cable of 1.50 m)

## Technical characteristics



POWER SUPPLY 230 V CA /50 Hz (+/-10%)

MOTOR OUTPUT 3A max

DIMENSIONS 80 x 80 x 42 mm

OPERATING TEMPERATURE 0° / +60°C

RELAY OPERATING TIME 3 minutes

RESERVE POWER SUPPLY (IN CASE OF POWER OUTAGE) 5 hours

PROTECTION INDEX IP20

PRODUCT CLASS II



## Wired automation MEMORY AC



### SWITCH WITH 24-HOUR CYCLE REPETITION FUNCTION

...to programme the opening and closing of a roller shutter

#### USE

- Individual control.
- Grouped control, with control box.
- Use in manual or automatic mode.

Description	REFERENCE
<b>MEMORY AC</b>	<a href="#">2008419</a>
Surface mounting box	<a href="#">2210076</a>

### Functions and product benefits

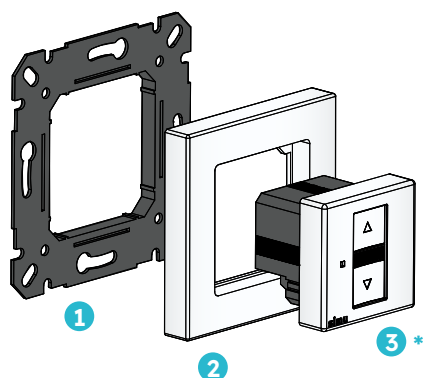
**COMFORT AND SECURITY:** no more concerns about the opening or closing the roller shutters. Thanks to the 24-hour cycle repetition function, it will automatically open and close each day at the same time.

**EASY TO USE,** simply press and hold the up or down button, at the desired time to record a command which will be repeated every 24 hours.

**AUTOMATIC MODE CAN BE DISABLED AT ANY TIME,** by pressing the stop button (black button) for 1 second. A light shows the activated function mode (Led OFF: manual mode / Led ON: automatic mode).

**UNDERSTATED DESIGN:** MEMORY AC fits in with any indoor style.

## Assembly



### EASY INSTALLATION IN 3 STEPS:

- 1 Fasten the grating to the recessed box (Screws included)
- 2 Clip on the frame
- 3 Connect then attach the wired control module \*

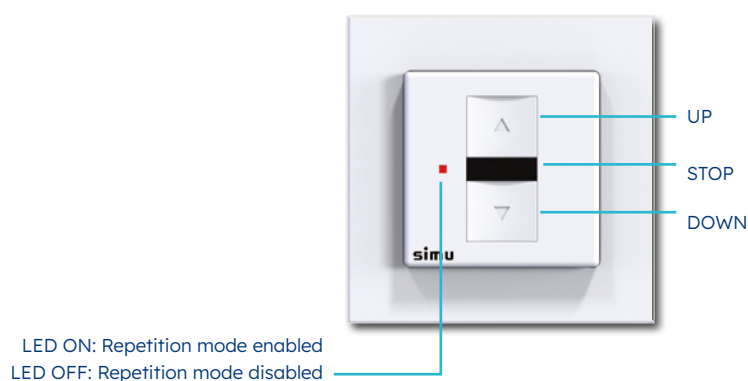
\* Module compatible with 50 x 50 mm electrical equipments on the market.  
Surface mounting is also possible.  
See the surface mounted box in the “compatible accessories” section mentioned below.

### COMPATIBLE ACCESSORIES



Surface mounting box  
Ref **2210076**

## Technical characteristics



POWER SUPPLY 230 V CA /50 Hz (+/-10%)

MOTOR OUTPUT 3A max

DIMENSIONS 80 x 80 x 42 mm

OPERATING TEMPERATURE 0° / +60°C

RELAY OPERATING TIME 3 minutes

RESERVE POWER SUPPLY (IN CASE OF POWER OUTAGE) 3 hours

PROTECTION INDEX IP20

PRODUCT CLASS II





# Wired controls

## PM3 switches – 230V

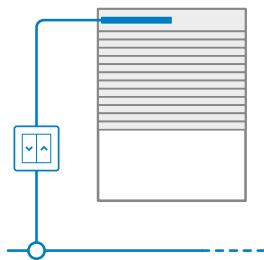
### NOTE

**STABLE SWITCH:** simply press down once to activate.

**UNSTABLE SWITCH:** the switch must be held down throughout the action.

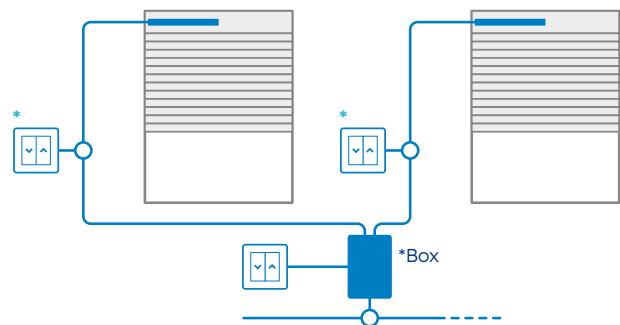
### USE

- o Individual control



### USE

- o Grouped control, with control box



\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.

## PM3 switch

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).



Dimensions: 86 x 86 mm

Description	Version	REFERENCE
PM3	stable	2007244
PM3	unstable	2007246

Product delivered complete (front plate + mechanism)



Accessories	REFERENCE x10
Surface mounting box	9015196





# Wired controls

## APEM switch – 230V

### NOTE

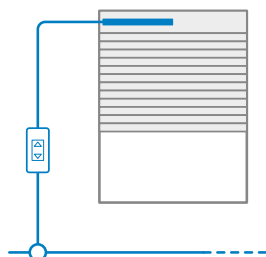
**STABLE SWITCH:** simply press down once to activate.

**UNSTABLE SWITCH:** the switch must be held down throughout the action.

## APEM UNIPOLAIRE

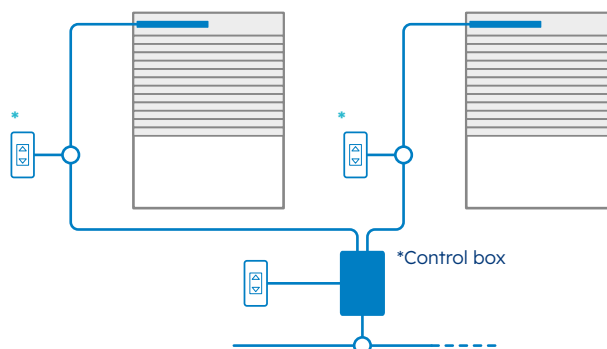
### USE

- Individual controls



### USE

- Grouped control, with control box



\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.



SINGLE UNIPOLAR  
MECHANISM

Description	VERSION	REFERENCE	
		x1	x10
UNIPOLAR APEM	stable	2001458	2001462
UNIPOLAR APEM	unstable	2001459	-



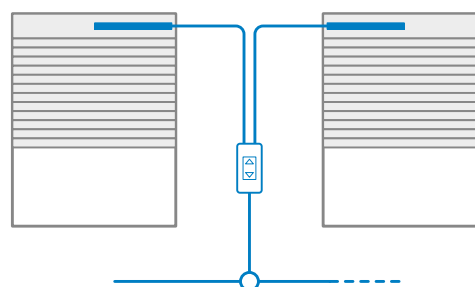
UNIPOLAR APEM  
INSIDE PM2 BOX  
DIMENSIONS: 43 X 80 MM

Description	Version	REFERENCE x1
UNIPOLAR APEM + PM2 BOX	stable	2001466
UNIPOLAR APEM + PM2 BOX	unstable	2001467

## Bipolar APEM

### USE

- Control of 2 motors



SINGLE BIPOLAR MECHANISM

Description	Version	REFERENCE
BIPOLAR APEM	stable	2001460
BIPOLAR APEM	unstable	2001461



BIPOLAR APEM  
INSIDE PM2 BOX  
DIMENSIONS: 43 X 80 MM

Description	Version	REFERENCE
BIPOLAR APEM + PM2 BOX	stable	2001468

## Accessories - 3 possible assemblies

	PM2 BOX	- SURFACE-MOUNTED ASSEMBLY - Single PM2 box	9600973
	LEGRAND MOSAÏC	- FLUSH MOUNTED ASSEMBLY - Legrand Mosaic front plate with an adaptor interface	9014880
		- SURFACE MOUNTED ASSEMBLY - Legrand Mosaic front plate with an adaptor interface + surface mounting box	9014881
	STANDARD FRONT PLATE	- FLUSH MOUNTED ASSEMBLY - Standard front plate	9137159



# Wired controls

## Push button – 230V

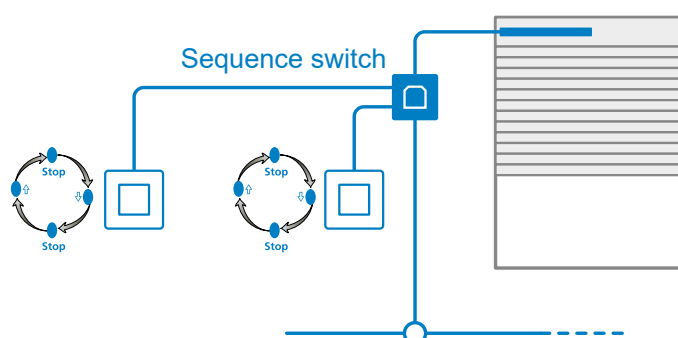
### NOTE

To make a multipoint control, it is necessary to connect the motor and the push buttons to a sequence switch.

### USE

#### o MULTIPOINT CONTROL

Control a motor with several control points: in sequential mode, a single key successively successively controls the Up/Stop/Down commands



## PUSH BUTTON

Waterproof plastic box (protection index IP 65) allowing an outdoor installation.

Description	REFERENCE
PUSH BUTTON SIMU	2006756

Dimensions: 74 x 74 x 62 mm



Dimensions: 80 x 80 mm

## PUSH BUTTON "LEGRAND MOSAÏC"

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).

### 2 MECHANISMS AVAILABLE

- Screw-mounted for both new and renovation markets.
- Cramp-mounted for the renovation market only.

Description	Version	REFERENCE
Screw-mounted mechanism LEGRAND MOSAÏC	Push Button	2006872
Cramp-mounted mechanism LEGRAND MOSAÏC	Push Button	2006875

Attention: Mechanism and front plate sold separately.

Accessories	REFERENCE
Mosaic front plate	014519
Surface mounting box	9014520



Dimensions : 44 x 44 x 23 mm

## SEQUENCE SWITCH FOR MULTIPOINT CONTROL

For motor up to 220W

Power supply: 230 Vac

Description	REFERENCE
Sequence switch	2001477

Delivered without wire



## Wired controls

### Other controls – 230V

#### NOTE

**STABLE SWITCH:** simply press down once to activate.

**UNSTABLE SWITCH:** the switch must be held down throughout the action.



Dimensions : 14 x 31 mm

### NARROW SWITCH FOR COMBINED WINDOW SHUTTER

#### USE

- o Individual control.

It is directly integrated inside the window frame during assembly. Thus only the motor has to be connected during the installation.

Description	REFERENCE	
	x1	x200
Stable narrow switch	2006226	1800066



FRONT PLATE  
FOR PUSH-BUTTON MODE  
Dimensions: 85 x 85 x 60 mm

### UNIVERSAL KEY BOX

#### USE

- o Individual control.
- o Grouped control, with control box.
- o Multipoint control by sequence switch: control a motor with several control points.

Description	REFERENCE
Universal key box	2004964

Delivered with 2 identical keys - type 455 and 1 front plate for sequential mode



FRONT PLATE  
FOR 3-POSITION MODE



Dimensions : 74 x 74 x 74 mm

## KEY SWITCH -3 POSITIONS

### USE

- o Individual control.
- o Grouped control, with control box.

Description	REFERENCE
Key switch	2006752

Delivered with 2 identical keys



Dimensions : 74 x 74 x 72 mm

## ROTARY SWITCH -3 POSITIONS

### USE

- o Individual control
- o Grouped control, with control box.

Description	REFERENCE
Stable	2006753
Unstable	2006754
Mixed	2006755

- o 2 normally open contacts.
- o Surface mounted assembly.
- o Waterproof plastic box (protection index IP 65) enabling outdoor installation.





# Wired controls

## Control box – 230V



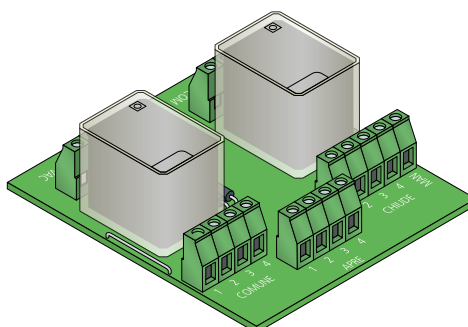
### GROUPED CONTROL BOX - 4 MOTORS

Description	REFERENCE
Grouped control box - 4 motors	2006436

WITHOUT DELAY TIME  
Dimensions: 150 x 110 x 75 mm

INDIVIDUAL CONTROLS WITH STABLE SWITCHES ARE POSSIBLE BUT THE GROUP CONTROL IS PRIORITIZED.  
POSSIBILITY TO ASSEMBLE SEVERAL CONTROL BOXES IN PARALLEL.

## Technical characteristics



BOX WITHOUT DELAY TIME

CLASS II

POWER SUPPLY 230 VAC - 50/60 Hz

MAX SWITCHABLE POWER 4 motors of 280W  
or 2 motors of 450W

PROTECTION INDEX IP44

AMBIANT TEMPERATURE OF STORAGE - 20°C / + 70°C

AMBIANT TEMPERATURE OF USE - 10°C / + 50°C

STANDARD

# Wired controls for direct current motors – 12/24V

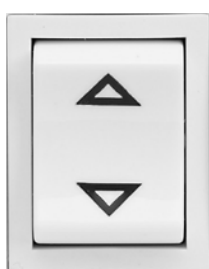
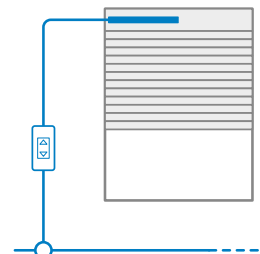
## NOTE

**STABLE SWITCH:** simply press down once to activate.

**UNSTABLE SWITCH:** the switch must be held down throughout the action.

## USE

- Individual control



## SWITCH WITHOUT TRANSFORMER

Description	Version	REFERENCE
UNIPOLAR APEM MECHANISM	stable	2001500
UNIPOLAR APEM MECHANISM	unstable	2001501

UNIPOLAR MECHANISM

## 3 possible assemblies

MONTAGE		COMPOSANT	DESCRIPTION	REFERENCE
 PM2 box	SURFACE-MOUNTED ASSEMBLY INSIDE THE PM2 BOX  Dimensions: 43 x 80 mm		PM2 BOX	9600973
 LEGRAND MOSAÏC	FLUSH MOUNTED ASSEMBLY WITH THE LEGRAND MOSAÏC FRONT PLATE + AN ADAPTOR INTERFACE  Dimensions: 80 x 80 mm		Legrand Mosaic front plate with an adaptor interface  Legrand Mosaic front plate with an adaptor interface + surface mounting box	9014880  9014881
 STANDARD FRONT PLATE	FLUSH MOUNTED ASSEMBLY OR SURFACE MOUNTED ASSEMBLY WITH THE CLASSICAL FRONT PLATE  Dimensions: 80 x 80 mm		Standard front plate	9137159



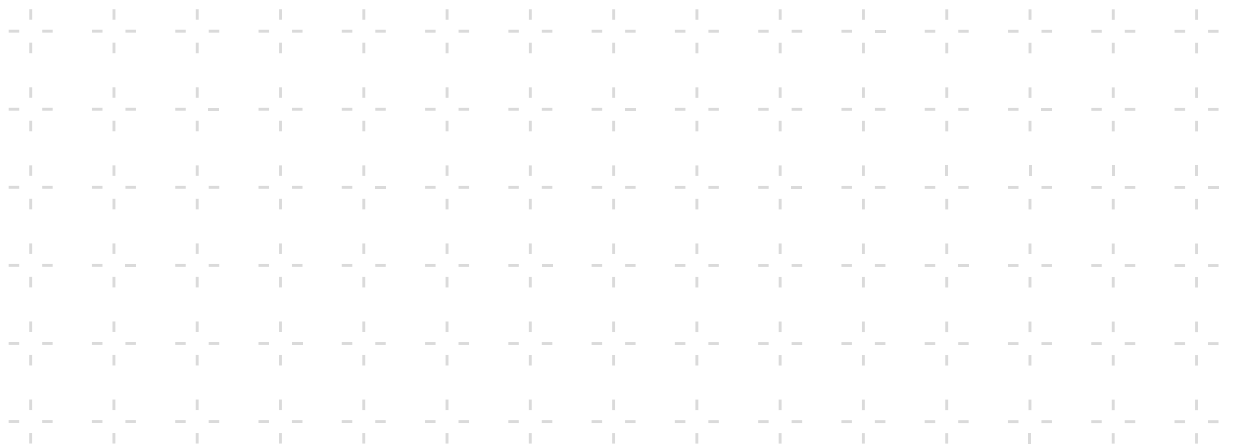
## Wired controls wall boxes



Description	REFERENCE
Wallbox for sealing	<a href="#">9604500</a>



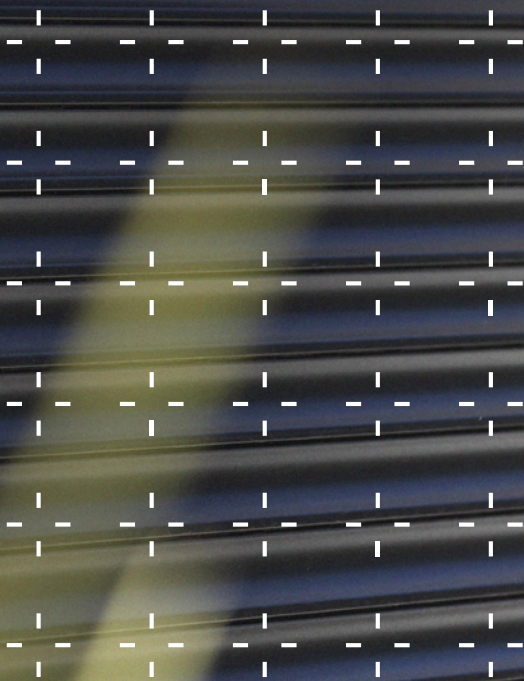
Description	REFERENCE
Wallbox for plaster board wall	<a href="#">9604512</a>





# NOTES





## 03. Manual mechanisms





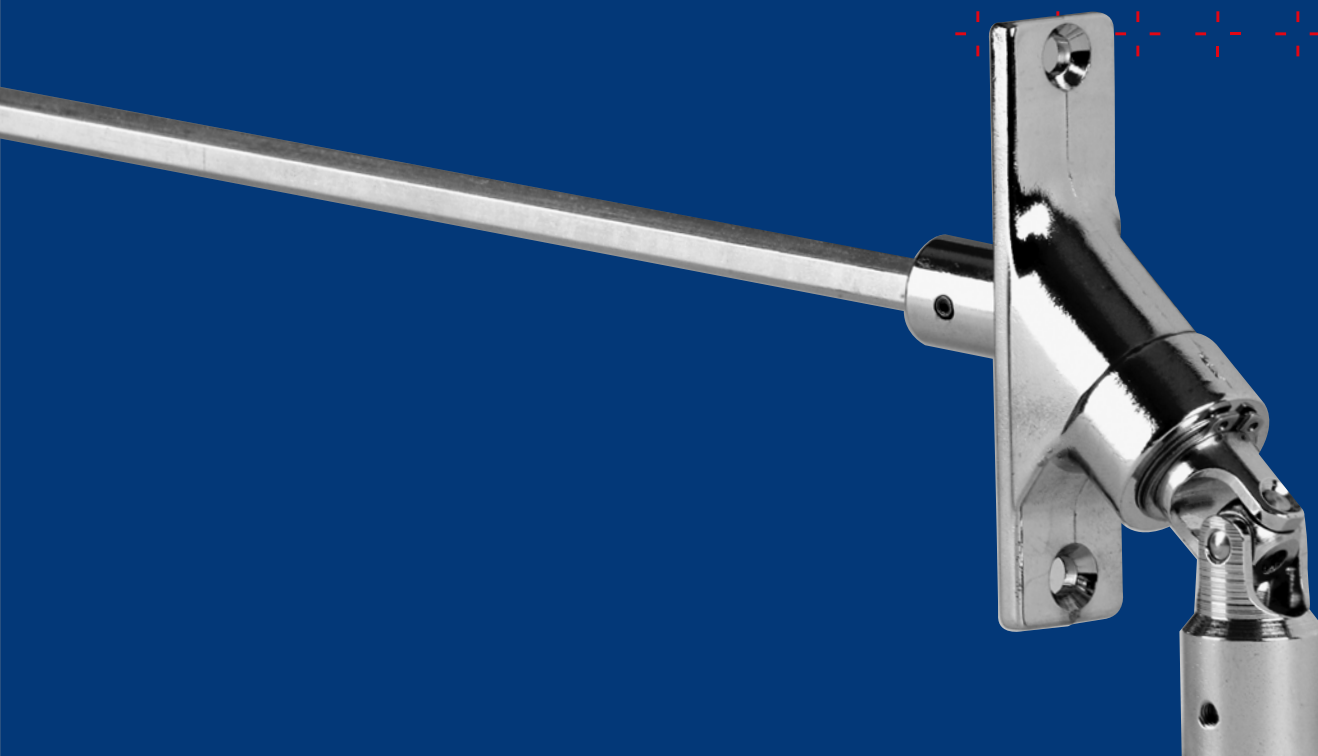
## 03. Manual mechanisms

OPERATION BY CRANK / GEAR p.150

OPERATION BY BELT / PULLEY p.164

OPERATION BY CORD / GEAR p.166

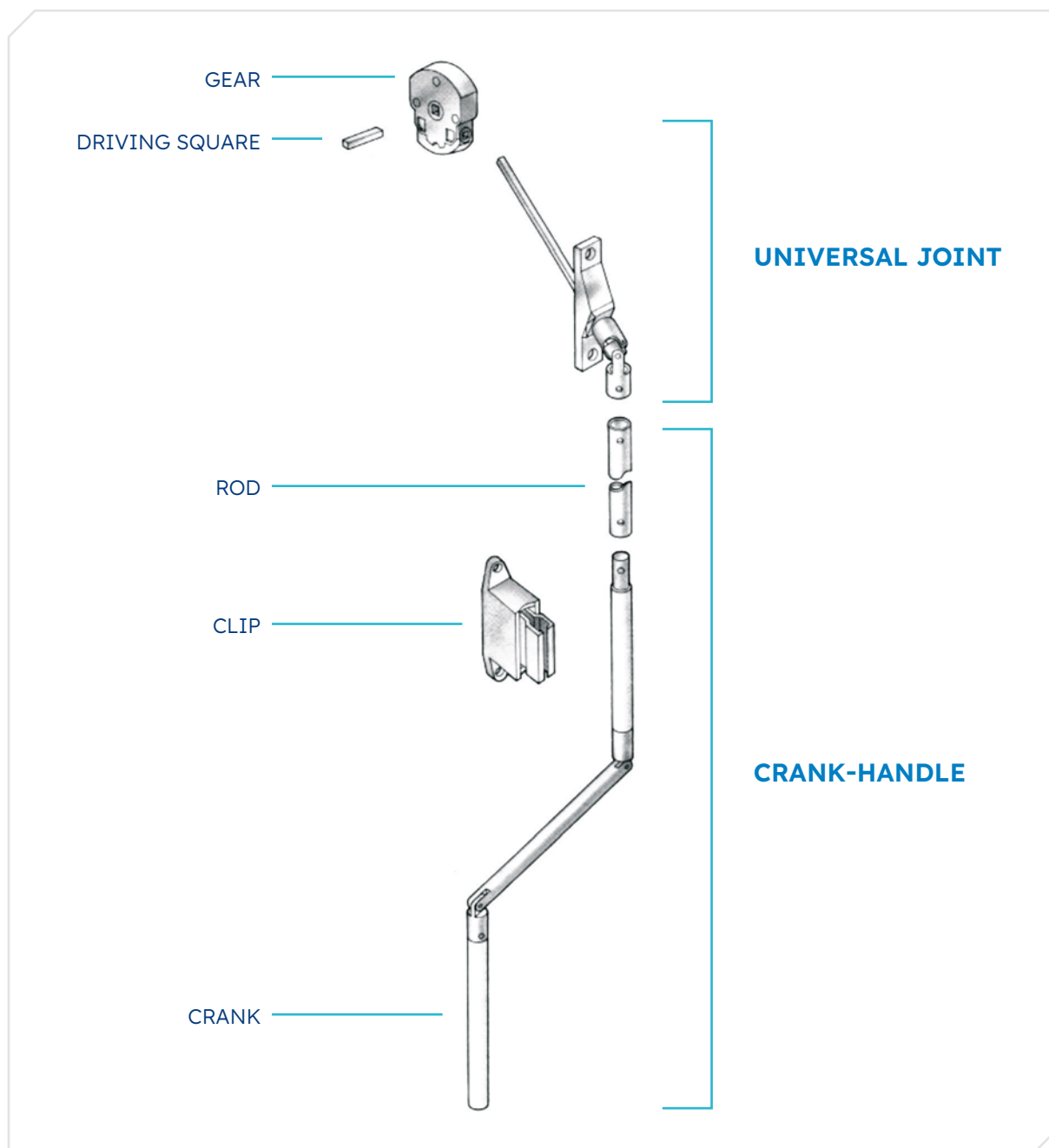
OPERATION BY DIRECT PULLING /  
BALANCING SPRING p.168



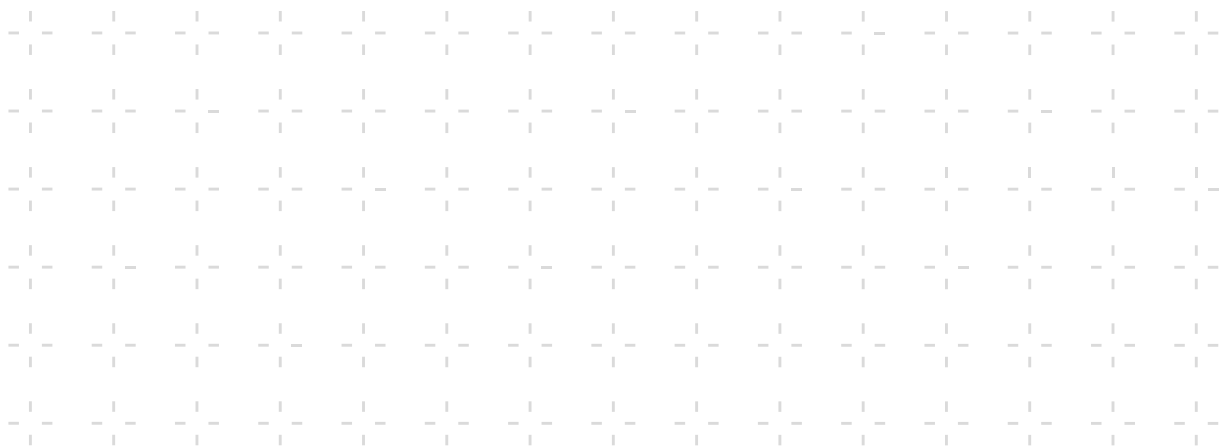
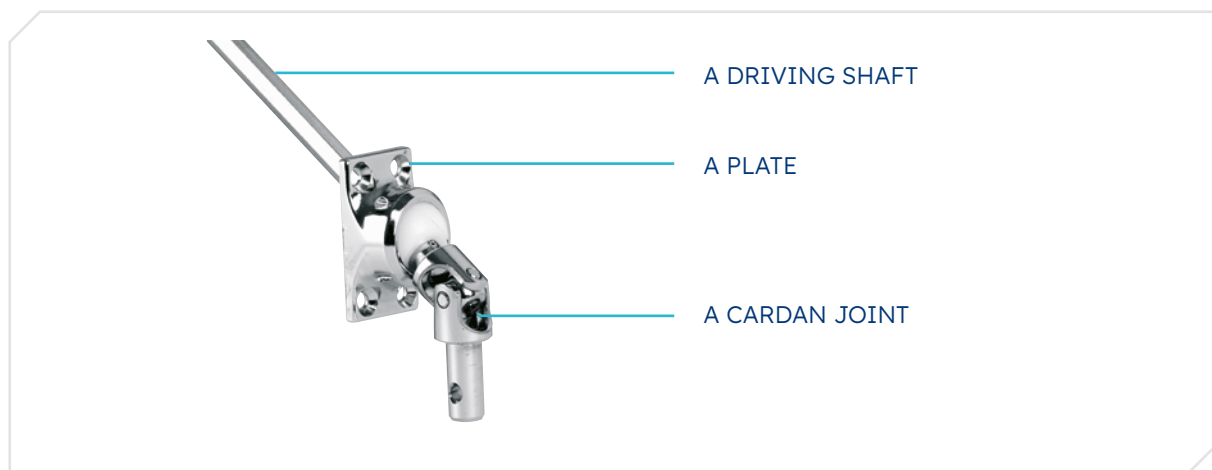


## Operation by crank / gear

All the operation devices presented in this catalogue are designed for an indoor use.



A universal joint consists of:





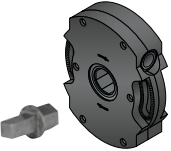




# Operation by crank / gear



## GEARS

GEAR	Ratio	Maxi torque	Input	Output	End-limits	REFERENCE
 1420B gear	1/5	10.6 Nm	Square 6	Square 10	yes	2002028
	1/5	10.6 Nm	Hexa 7	Square 10	yes	2002030
	1/7	14.2 Nm	Square 6	Square 10	yes	2002038
	1/7	14.2 Nm	Hexa 7	Square 10	yes	2002041
 1420 gear	1/5	10.6 Nm	Square 6	Square 7	yes	2002010
	1/5	10.6 Nm	Square 6	Square 10	yes	2002012
	1/5	10.6 Nm	Hexa 6	Square 7	yes	2002013
	1/5	10.6 Nm	Hexa 7	Square 7	yes	2002016
	1/5	10.6 Nm	Hexa 7	Square 10	yes	2002018
	1/7	14.2 Nm	Square 6	Square 10	yes	2002033
	1/7	14.2 Nm	Hexa 7	Square 10	yes	2002035
	1/7	14.2 Nm	Hexa 6	Square 7	no	2002037
	1/7	14.2 Nm	Square 6	Square 10	no	2002050
 1424 gear	1/5	8 Nm	Square 8	Square 10	yes	002107
	1/5	8 Nm	Square 8	Square 13	yes	002108
	1/5	8 Nm	Hexa 7	Square 10	yes	002139
	1/5	8 Nm	Hexa 7	Square 16	no	002143
	1/8	12 Nm	Hexa 7	Square 10	yes	002140
	1/8	12 Nm	Hexa 7	Square 16	no	002145
	1/8	12 Nm	Square 8	Square 10	yes	002112
	1/8	12 Nm	Square 8	Square 13	yes	002113
	1/8	12 Nm	Hexa 10	Square 10	yes	002115
	1/11.5	20.8 Nm	Square 8	Square 10	yes	002117
	1/11.5	20.8 Nm	Hexa 7	Square 10	yes	004051
	1/11.5	20.8 Nm	Square 8	Square 13	yes	002118
	1/11.5	20.8 Nm	Square 8	Square 16	yes	002119
	1/11.5	20.8 Nm	Hexa 7	Square 16	yes	002146
	1/11.5	20.8 Nm	Hexa 7	Square 16	no	002147
	Core : Male square 16 / hole 12 - gear side Male square 13 / Female square 7 - driving side The gear and the core are separately sold					2002392

## GEARS

GEAR	Ratio	Maxi torque	Input	Output	End-limits	REFERENCE
 «ACE Resin» gear 	1/5	8 Nm	Hexa 7	Male square 13	yes	2001676
	1/5	8 Nm	Square 8	Male square 13	yes	2001677
	1/8	12 Nm	Hexa 7	Male square 13	yes	2001678
	1/8	12 Nm	Square 8	Male square 13	yes	2001679
	1/11	18 Nm	Hexa 7	Male square 13	yes	2001680
	1/11	18 Nm	Square 8	Male square 13	yes	2001681
	1/5	8 Nm	Hexa 7	Female square 10	yes	2001682
	1/5	8 Nm	Square 8	Female square 10	yes	2001683
	1/8	12 Nm	Hexa 7	Female square 10	yes	2001685
	1/8	12 Nm	Square 8	Female square 10	yes	2001686
	Core : Square 10 / octa 15 The gear and the core are separately sold.					2003343

## DISENGAGEABLE GEARS

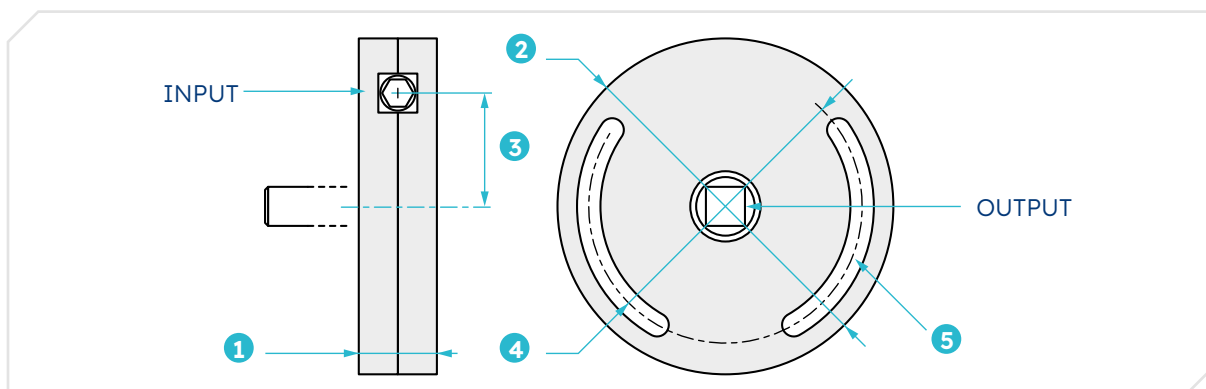
GEAR	Ratio	Maxi torque	Input	Output	End-limit	REFERENCE
 1/5.25 gear	1/5.25	12 Nm	Hexa 7	Square 10	yes	2008414
	1/5.25	12 Nm	Hexa 7	Square 10	no	2008415
 1/7 gear	1/7	18 Nm	Hexa 7	Square 10	yes	2008416
	1/7	18 Nm	Hexa 7	Square 10	no	2008417

### ATTENTION : THIS GEAR CANNOT BE USED WITH A BALACING SPRING

- o Built-in disengaging system during closing and forced operation limiter during opening.
- o Allows the use of locks to fasten the fabric on the rolling tube and locking systems on bottom or intermediate slat.



## Specification



Specification		1420 - 1420B	1424	ACE (Ratio 1/5)	ACE (Ratio 1/8)	ACE (Ratio 1/11)	Disengageable gears	
							1/5,25	1/7
Gear thickness	①	20 mm	24 mm	23 mm	23 mm	23 mm	22 mm	22 mm
Gear diameter	②	86 mm	120 mm	82 mm	90 mm	100 mm	99 mm	130 mm
Axle Distance output/input	③	29 mm	33 mm	25 mm	27 mm	32 mm	28.5 mm	40 mm
Inter-axe of the fixation screw	④	70 mm	90 mm	66 mm	66 mm	66 mm	56 mm	90 mm
Fixation screw Ø	⑤	5 mm	6 mm	6 mm	6 mm	6 mm	4 mm	4 mm
Maxi torque of input		3.5 Nm	4.5 Nm	3.5 Nm	3.5 Nm	3.5 Nm	4.5 Nm	4.5 Nm
Casing box material		Zamac	Resin	Resin	Resin	Resin	Glass fibre reinforced polyamide, black	
Drive hub material		Steel	Steel	Zamac	Zamac	Steel	Polyamide	POM
Screw material		Steel	Steel	Steel	Steel	Steel	Polyacetal	Treated steel
Brake		yes	Adjustable	yes	yes	yes	yes	yes
End-limits capacity		17 rounds	16 rounds	15 rounds	15 rounds	15 rounds	10 rounds	10 rounds

### THE MAXI. TORQUE AND LIMITS OF USE MENTIONED IN THIS CATALOGUE

...are given for information and vary according to each installation characteristic (in particular: type of slats, friction, conditions of installation, torque variations due to the kinematics and spring strength of each awning).

Neither the manufacturer nor the seller can be responsible for bodywork and material damage.

Recommendations for the use of tubes require careful attention as well (see profiler's charts). Each awning and roller shutter manufacturer will have to test the products in order to determine his own selection charts. Please ask us about any specific cases.



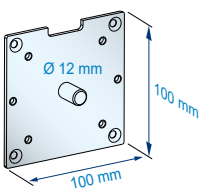
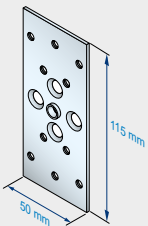
**The ACE GAVIOTA gears are designed for use with GAVIOTA SIMBAC universal joint. Any other branded universal joint must be tested as we do not guarantee compatibility.**

## Gear accessories


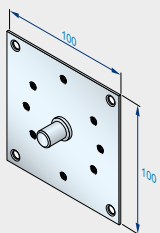
### 1420 GEAR BRACKET

BRACKET	DESCRIPTION	REFERENCE
	Bracket for SIMU TraditionnAl SYSTEM	2003603

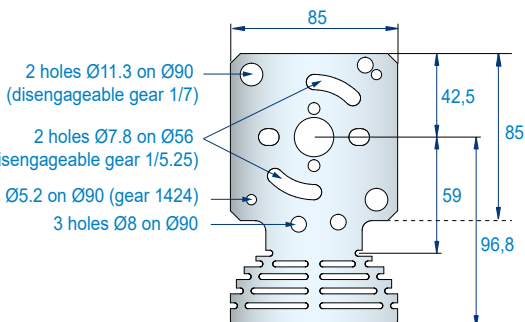
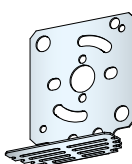
### 1424 GEAR BRACKETS

BRACKET	DESCRIPTION	REFERENCE
	Bracket for Hercol RENOVATION SIDE-FRAME	2003639
	Bracket for SIMU TraditionnAl SYSTEM	2003610

### ACE GEAR BRACKETS

BRACKET	DESCRIPTION	REFERENCE
	Bracket for domino (125 / 250) SIMBAC SIDE-FRAME - SIMBAC/GAVIOTA	2003003
	Bracket for standard SIDE-FRAME - SIMBAC/GAVIOTA	2002645

### DISENGAGEABLE GEAR BRACKETS

BRACKET	DESCRIPTION	REFERENCE
	 <p>Bracket for RENOVATION SIDE-FRAME ZF Aluréno (125 / 150)</p>	2008418



## DRIVING SQUARE

Product	Description	Length	Packaging	Reference
	Square 7	Length 40 mm	50	2002503
	Square 7	Length 35 mm	1	2002502
	Square 7	Length 35 mm	50	2006405

## ROD

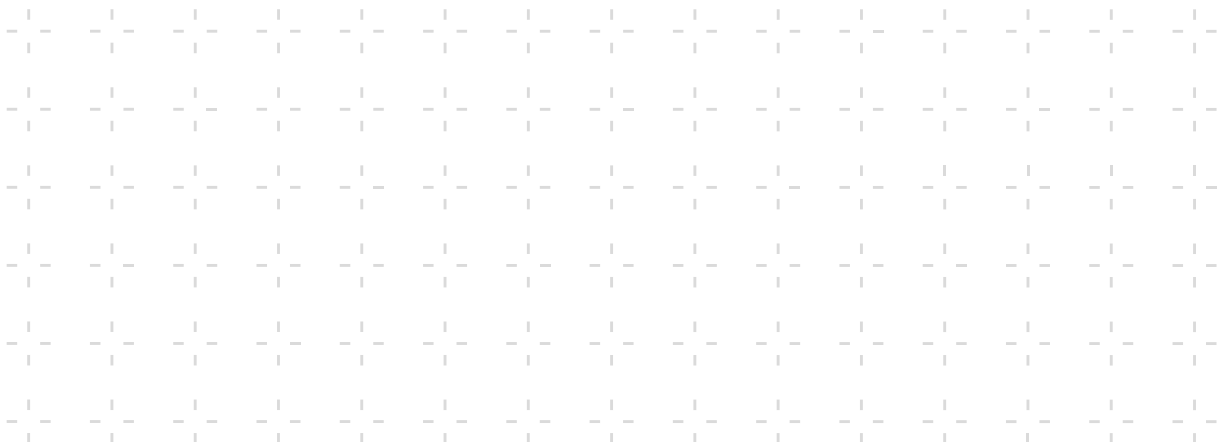
PRODUCT	DESCRIPTION	Length A	Length B	REFERENCE
	Square 6 / Round 10	50 mm	61 mm	2002508
	Round 10	50 mm	-	2002504

## RING SET

PRODUCT	DESCRIPTION	INPUT	REFERENCE
	Ring set for direct assembly onto gear	6 mm square gear input	2004486
		7 mm hexa gear input	2004487

## CROCHET

PRODUCT	DESCRIPTION	REFERENCE
	Hook for Ø 12 mm crank rod. To be assembled with a sleeve. Ref. <b>2008132</b> or <b>2008133</b>	2004482



## Universal joint & accessories for crank-handle

Ø12 mm

### 60° UNIVERSAL JOINT - FOR Ø12 MM CRANK HANDLE

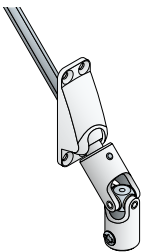
PRODUCT	DESCRIPTION	Colour	Rod	Length	REFERENCE
	60° universal joint for Ø 12 mm rod	White	hexa 7 rod	315 mm	2008071
	60° universal joint for Ø 12 mm rod	White	square 6 rod	315 mm	2008072
	60° universal joint for Ø 12 mm rod	White	square 8 rod	315 mm	2008073
	60° universal joint for Ø 12 mm rod	Grey	hexa 7 rod	315 mm	2008074
	60° universal joint for Ø 12 mm rod	Grey	square 6 rod	315 mm	2008075
	60° universal joint for Ø 12 mm rod	Grey	square 8 rod	315 mm	2008076

PLATE 22 x 62 mm

FIXATION 4 holes Ø 4,5 mm

INTER-AXLE 13 x 53 mm

DELIVERED with 4 screws 3.9 x 19 and 1 screw M5

### 90° UNIVERSAL JOINT - FOR Ø12 MM CRANK HANDLE

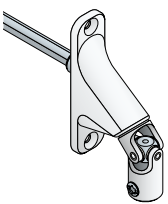
PRODUCT	DESCRIPTION	COULEUR	TIGE	Length	REFERENCE
	90° universal joint for Ø 12 mm rod	White	hexa 7 rod	355 mm	2008066
	90° universal joint for Ø 12 mm rod	White	square 6 rod	300 mm	2008070
	90° universal joint for Ø 12 mm rod	White	square 8 rod	350 mm	2008068
	90° universal joint for Ø 12 mm rod	Grey	hexa 7 rod	355 mm	2008065
	90° universal joint for Ø 12 mm rod	Grey	square 6 rod	300 mm	2008069
	90° universal joint for Ø 12 mm rod	Grey	square 8 rod	350 mm	2008067
	90° universal joint for Ø 12 mm rod	Nickelé	hexa 7 rod	355 mm	2008550

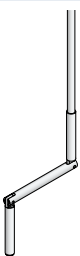
PLATE 22.5 x 86 mm

FIXATION 2 holes Ø 4 mm

INTER-AXLE 73 mm

DELIVERED with 1 screw M5

### DRIVING CRANK ROD - Ø 12 MM

PRODUCT	DESCRIPTION	Colour	Length	REFERENCE	
				x 1	x 10
	Crank handle and rod	White	1800 mm	2008124	2008125
	Crank handle and rod	White	1400 mm	2008126	2008127
	Crank handle and rod	White	1100 mm	2008128	2008129
	Crank handle and rod	Grey	1800 mm	2008118	2008119
	Crank handle and rod	Grey	1400 mm	2008120	2008121
	Crank handle and rod	Grey	1100 mm	2008122	2008123

ROD Ø 12 steel rod, 1 mm thickness

inside and outside phosphatized

exterior colour with coated polyester

CRANK HANDLE Lacquered aluminium crank, 180 mm length

Stainless steel joint axles, 320 mm unfolded length

#### NOTE

The length of the crank rod corresponds to the length of the single rod, without the crank handle.



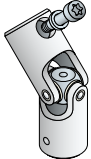
## CRANK Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	Single crank	Grey	<a href="#">2008077</a>
	Single crank	White	<a href="#">2008078</a>

## COUPLING TUNNEL FOR CRANK ROD Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	Zamak coupling tunnel + neckel-plated sleeve for Ø 12 mm rod	neckel-plated	<a href="#">2008079</a>

## CARDAN JOINT Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	Ø 10 mm / 12 mm cardan joint	White	<a href="#">2008080</a>
	Ø 10 mm / 12 mm cardan joint	Grey	<a href="#">2008179</a>

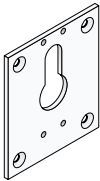
## CRANK CLIP Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	20 x 34 mm crank clip	White	<a href="#">2008081</a>
	0 x 34 mm crank clip	Grey	<a href="#">2008082</a>

## COVERING PLATE Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	40 x 85 mm plate for 90° universal joint	White	<a href="#">9017284</a>

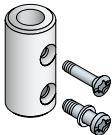
## COVERING PLATE Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	60 x 70 mm plate for 60° universal joint with M4x8 screws	White	9017287
		Grey	9017286

## HOOK Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	Hook for Ø 12 mm crank rod. To be assembled with a sleeve. Ref. <b>2008132</b> or <b>2008133</b>	-	2004482

## SLEEVE Ø 12 MM

PRODUCT	DESCRIPTION	Colour	REFERENCE
	Sleeve to link a hook with a Ø 12 mm crank rod	White	2008132
		Grey	2008133

## CARDAN JOINT SET Ø 12 MM - FOR DIRECT ASSEMBLY ON GEAR

PRODUCT	DESCRIPTION	Colour	Input	REFERENCE
	Cardan joint set	White	6 mm square gear input	2008130
	Cardan joint set	White	7 mm hexa gear input	2008131
	Cardan joint set	Grey	6 mm square gear input	2008180
	Cardan joint set	Grey	7 mm hexa gear input	2008181

## RING Ø 12 MM

PRODUCT	DESCRIPTION	REFERENCE
	Ring with tang 12 mm	2008551





## Universal joint & accessories for crank-handle

Ø14 mm

### 45° UNIVERSAL JOINT - FOR Ø14 MM CRANK HANDLE


PRODUCT	DESCRIPTION	Rod	Length	REFERENCE
	45° universal joint for Ø 14 mm rod	Square 8	250 mm	2004104

PLATE 24 x 52 mm

FIXATION 2 holes

PLATE MATERIAL Nickel-plated Zamac

CARDAN JOINT MATERIAL Nickel-plated Steel

### 45° UNIVERSAL JOINT - FOR Ø14 MM CRANK HANDLE


PRODUCT	DESCRIPTION	Rod	Length	REFERENCE
	45° universal joint for Ø 14 mm rod	Hexa 7	250 mm	2004105
	45° universal joint for Ø 14 mm rod	Square 8	250 mm	2004106

PLATE 28 x 46 mm

FIXATION 4 holes

PLATE MATERIAL Nickel-plated Zamac

CARDAN JOINT MATERIAL Nickel-plated Steel

### 90° UNIVERSAL JOINT - FOR Ø14 MM CRANK HANDLE


PRODUCT	DESCRIPTION	Rod	Length	REFERENCE
	90° universal joint for Ø 14 mm rod	Hexa 7	480 mm	2004118
	90° universal joint for Ø 14 mm rod	Square 8	480 mm	2004119
	90° universal joint for Ø 14 mm rod	Hexa 7	480 mm	2004120

PLATE 22 x 85 mm

FIXATION 2 holes

PLATE MATERIAL Nickel-plated Zamac

CARDAN JOINT MATERIAL Nickel-plated Steel (ref. **2004120** : Inox steel)

### 90° UNIVERSAL JOINT - FOR Ø14 MM CRANK HANDLE


PRODUCT	DESCRIPTION	Rod	Length	REFERENCE
	90° universal joint for Ø 14 mm rod	Hexa 7	480 mm	2004122
	90° universal joint for Ø 14 mm rod	Square 8	480 mm	2004123

PLATE 42 x 85 mm

FIXATION 4 holes

PLATE MATERIAL Nickel-plated Zamac

CARDAN JOINT MATERIAL Nickel-plated Steel

## 45° UNIVERSAL JOINT WITH RING

PRODUCT	DESCRIPTION	ROD	LENGTH	REFERENCE
	45° universal joint with ring	Hexa 7	250 mm	2004323

PLATE 42 x 85 mm  
 FIXATION 4 holes  
 PLATE MATERIAL Nickel-plated Zamac  
 CARDAN JOINT MATERIAL Nickel-plated Steel

## BEARING DOUBLE 90° UNIVERSAL JOINT WITH RING

PRODUCT	DESCRIPTION	ROD	LENGTH	REFERENCE
	Sortie de caisson 90° à palier avec anneau	Hexa 7	480 mm	2004324


PLATE 22 x 85 mm  
 FIXATION 2 holes  
 PLATE MATERIAL Nickel-plated Zamac  
 CARDAN JOINT MATERIAL Nickel-plated Steel

## CRANK HANDLE WITH HOOK Ø 14 MM

PRODUCT	DESCRIPTION	Colour	Quantity	Length	REFERENCE
	Crank handle	9010 white	1	1200 mm	2006527
	Crank handle	9010 white	10	1200 mm	2006528
	Crank handle	9010 white	10	1500 mm	2006532
	Crank handle	7035 grey	10	1500 mm	2006542
	Crank handle	galvanised grey	10	1200 mm	2006562
	Crank handle	galvanised grey	10	1400 mm	2006564
	Crank handle	galvanised grey	10	1500 mm	2006566
	Hook 90°	galvanised grey	10	1100 mm	2006576
	Hook 90°	galvanised grey	10	1400 mm	2006578

## LACQUERED ALUMINIUM ROD Ø 14 MM

External Ø	Internal Ø	Thickness	Colour	Length	REFERENCE
14 mm	11 mm	1.5 mm	9003 white	3000 mm	2004171

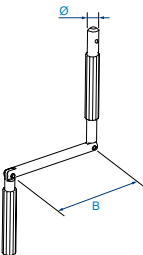


## ELASTIC PIN TO ASSEMBLE THE CRANK WITH Ø 14 MM ROD

PRODUCT	DIAMETER	Length	Material	REFERENCE
	Ø 4 mm	14 mm	inox steel	2003341

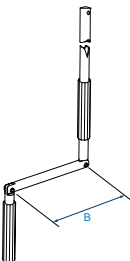


### PUSH CRANK WITH ROUND CRANK WEB - Ø 14 MM


PRODUCT	Ø	Crank web (length B)	Unfolded web length	Handle colour	Cardan joint material	REFERENCE
	11 mm male	180 mm	370 mm	White	Nickel-plated steel	

Assembly on rod by Ø 4 elastic pin, 14 mm length (ref. [2003341](#))

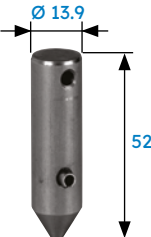
### ALUMINIUM ROD WITH PUSH CRANK - ROUND CRANK WEB - Ø 14 MM

PRODUCT	Crank web (length B)	Unfolded crank length	Rod and crank colour	REFERENCE
	140 mm	1460 mm	White	<a href="#">2004127</a>
	180 mm	1500 mm	White	<a href="#">2004131</a>
	180 mm	1800 mm	White	<a href="#">2004132</a>

### CUT OFF CARDAN JOINT - Ø 14 MM


PRODUCT	rod side (length B)	opposite side (length C)	cardan joint material	REFERENCE
	Ø 14 mm (M4 screw)	Ø 10.2 mm (pin)	nickel-plated steel	<a href="#">2004155</a>
	Ø 14 mm (M4 screw)	Hexa 7 (pin)	nickel-plated steel	<a href="#">2004184</a>
	Ø 14 mm (M4 screw)	Square 8 (pin)	nickel-plated steel	<a href="#">2004185</a>
	Ø 14 mm (M4 screw)	Ø 14 mm (M4 screw)	nickel-plated steel	<a href="#">2004186</a>
	Ø 10 mm (M4 screw)	Hexa 7	nickel-plated steel	<a href="#">2004403</a>

### BAYONET FOR Ø 14 MM CARDAN JOINT

PRODUIT	SIZE REQUIRED	MATERIAL	REFERENCE
	Ø 13.9 x 52 mm	inox steel	<a href="#">2001775</a>

Assembly with universal joint by a M4 screw (delivered with the universal joint)

## COUPLING FUNNEL FOR Ø 14 MM ROD

product	length	material	REFERENCE
	64 mm	Nickel-plated Zamac	2001776

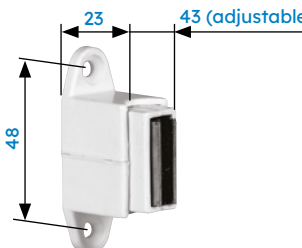
## SQUEEZING CRANK CLIP FOR Ø 14 MM ROD

PRODUCT	Inter-axle	Colour	Material	REFERENCE
	43 mm	White	PVC	2001946
	43 mm	Grey	PVC	2001947

## ADJUSTABLE SQUEEZING CRANK CLIP FOR Ø 14 MM ROD

PRODUCT	Inter-axle	Colour	Material	REFERENCE
	48 mm	White	PVC	2001949
	48 mm	Grey	PVC	2001950
				2006403 (x 50)

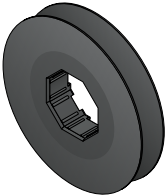
## ADJUSTABLE MAGNETIC CRANK CLIP FOR Ø 14 MM ROD

PRODUCT	Inter-axle	Colour	REFERENCE
	48 mm	White	2001953



## Operation by belt / pulley

### PULLEY (ONLY FOR 14 MM BELT)

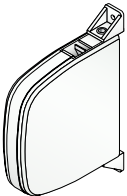
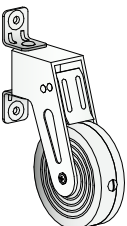
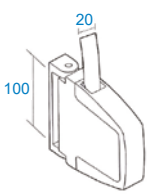
PRODUCT	diameter	DESCRIPTION	REFERENCE
	125 mm	Ø 125 mm pulley, for octa 40-60 end cap with clips	<a href="#">2001973</a>
	140 mm	Ø 140 mm pulley, for octa 40-60 end cap with clips	<a href="#">2001974</a>
	155 mm	Ø 155 mm pulley, for octa 40-60 end cap with clips	<a href="#">2001975</a>
	170 mm	Ø 170 mm pulley, for octa 40-60 end cap with clips	<a href="#">2001976</a>

Maxi. tractive force, 8 kg, (5 kg recommended)

### END CAP FOR PULLEY SIDE

End cap	TUBE	DESCRIPTION	REFERENCE
	Octa 40 mm	End cap for octa 40 tube, length 102, for Ø 28 mm bearing	<a href="#">2003531</a>
	Octa 60 mm	End cap for octa 60 tube, length 96, for Ø 28 mm bearing	<a href="#">2003529</a>
	-	Ø 28 mm bearing /12	<a href="#">2003455</a>

## TAPE COILER (ONLY FOR 14 MM BELT)

Tape coiler	DESCRIPTION	REFERENCE
	White tape coiler, with 14 mm belt, length 5m	2001661
	White tape coiler, without belt	2001663
	Tape coiler PIV STAR ABS without belt	2001637
	White tape coiler, with belt 20 mm, 5m length	2001638

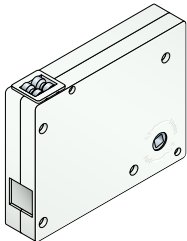
## ACCESSORIES

Accessories	DESCRIPTION	REFERENCE
	Grey belt, 14 mm width, 100 m roll	2001941
	Grey belt, 20 mm width, 100 m roll	2001943
	16 mm white guide for belt, recessed mounting, nylon wheel, brush	2001728
	Brushstrap guide - L16 - White	2001732
	Guide roll for belt with nylon wheel - 18 x 50 mm	2001734
	Guide roll for belt with nylon wheel - 27 x 65.5 mm	2001724




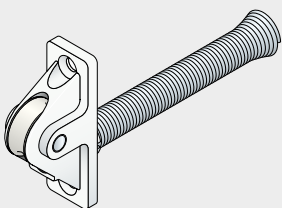



## Operation by cord / gear

### CORD GEAR

GEAR	DESCRIPTION	REFERENCE
	White cord gear, ratio 1/3, without cord (20 kg maxi.)	2001672

### ACCESSORIES

Accessories	DESCRIPTION	REFERENCE
	Handle, nickel plated steel, 140 mm arm	2001873
	White nylon cord, Ø 4.3 mm, 100 m roll	2001934
	White guide for cord, steel wheel	2001737
	White guide for cord, nylon wheel, 105 mm guiding	2001738
	White guide for CORD ROLL STEEL BRUSH 29 x 41 mm	2001744A

### ACCESSORIES

Accessories	DESCRIPTION	REFERENCE
	Spiral spring - Length 250 mm	2001613







# Operation by direct pulling and balancing spring

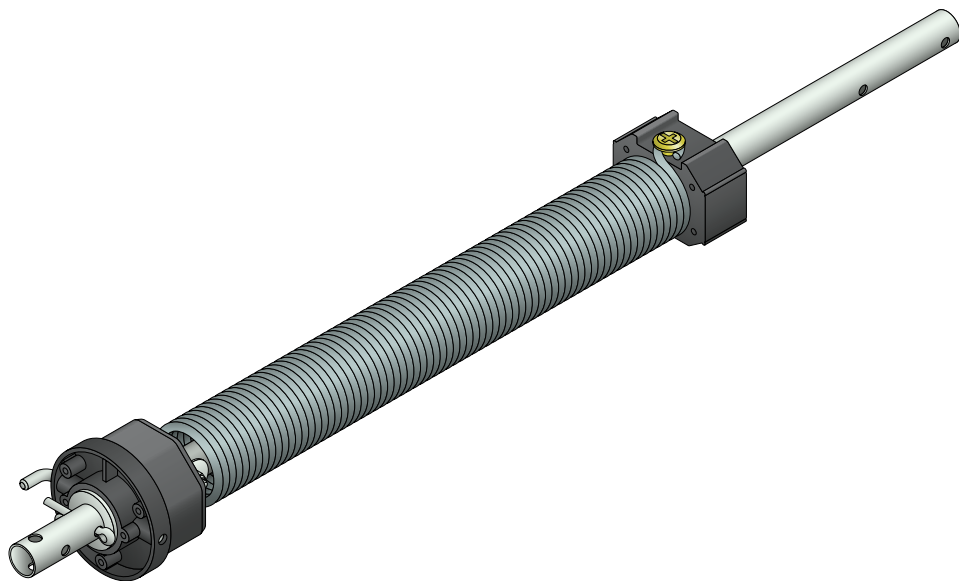
## Balancing springs

### THE BALANCING SPRINGS

...consist of a steel tube  $\varnothing 16 \times 1.5$  mm, a spring, polyamide end caps and fixing elements.

### FOR DIRECT PULLING

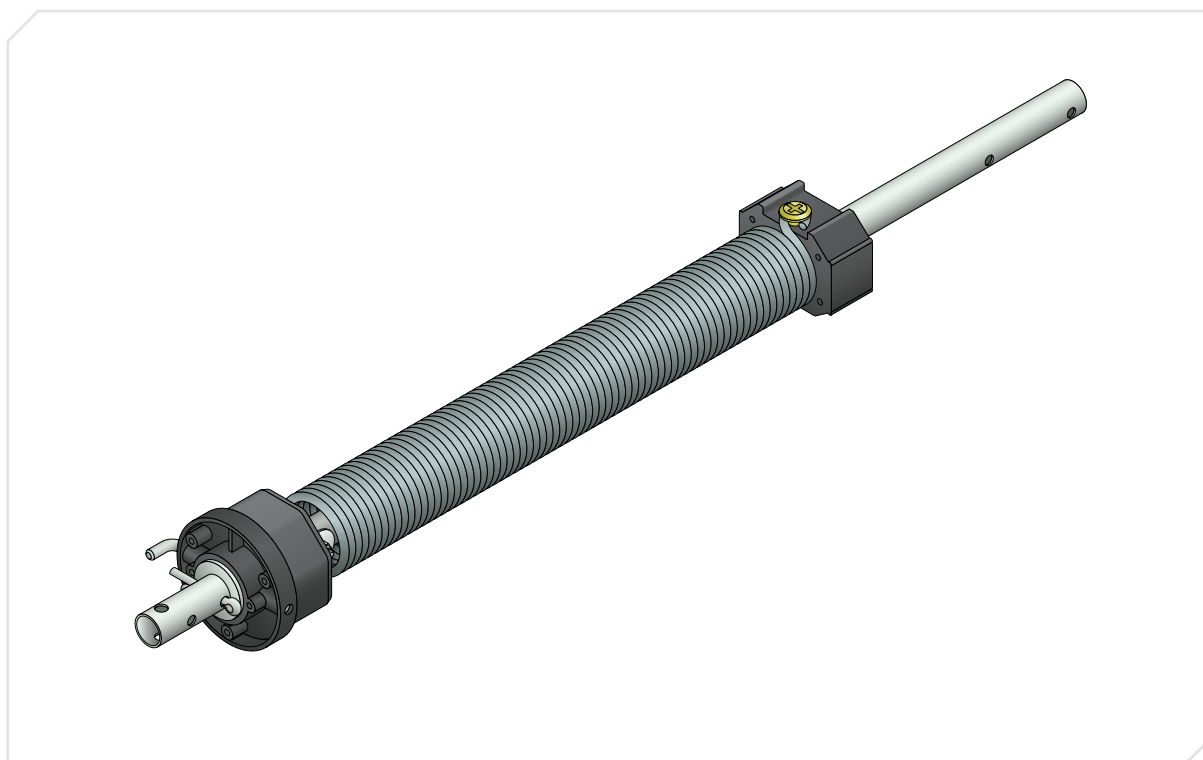
Always mounted on the left - rolling seen from inside. Maxi spring tension 18 rounds.



DESCRIPTION	REFERENCE
Balancing spring for direct pulling, maxi fabric 7 kg, octa 60 tube 24/10 x 400 spring, 625 mm overall length	2008086
Balancing spring for direct pulling, maxi fabric 12 kg, octa 60 tube 30/10 x 500 spring, 835 mm overall length	2008087

## FOR BALANCING

Always mounted on the left - rolling seen from inside. Zinc plated steel shaft.



DESCRIPTION	REFERENCE
Left balancing spring, maxi fabric 10 kg, octa 60 tube 34/10 x 350 spring, 625 mm overall length	2008083
Left balancing spring, maxi fabric 20 kg, octa 60 tube 44/10 x 600 spring, 835 mm overall length	2008084
Left balancing spring, maxi fabric 30 kg, octa 70 tube, 49/10 x 750 spring, 1045 mm overall length	2008085

	Bracket for 16 mm square or tube	9017188
	Bag including balancing accessories for octa 60 tube: It allows a left balancing spring to become a right one	9017304





## **04. Accessories & components for roller shutters**



## 04. Accessories & components for roller shutters

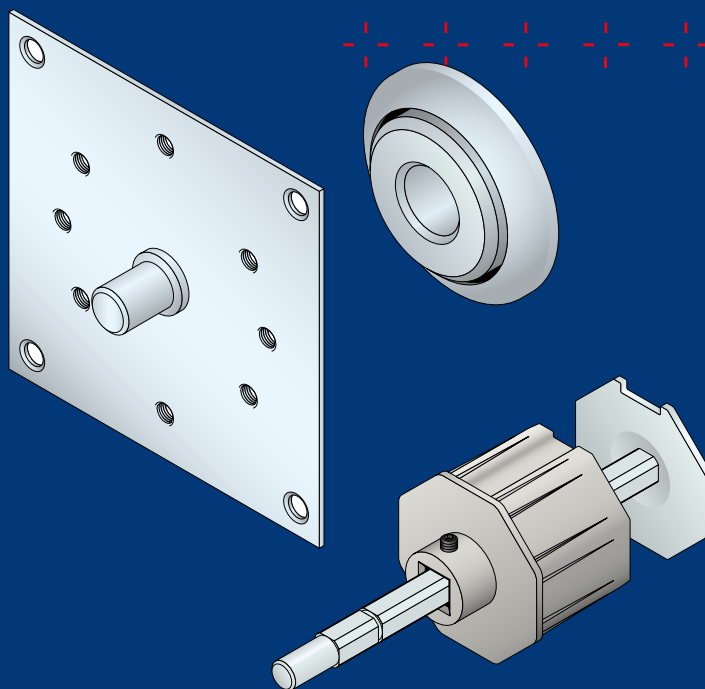
ACCESSORIES FOR TUBE AND FABRIC P.172

LOCKS AND LINKS P.174

END CAPS P.184

BEARINGS AND BRACKETS -  
FOR OPPOSITE SIDE P.188


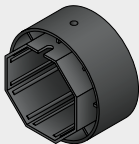
COMPONENTS FOR ROLLER SHUTTERS P.190



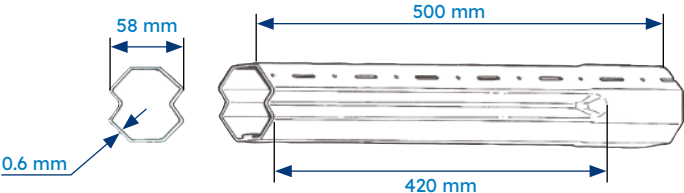


## Accessories for tube and fabric

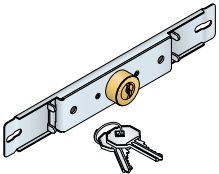
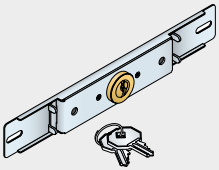
### ADAPTORS

ADAPTORS	DESCRIPTION	REFERENCE
	Ø 80 mm outside, octa 60 tube inside	2003500
	Ø 80 mm outside, octa 70 tube inside	2003501

### CONNECTING SHAFT

	DESCRIPTION	REFERENCE
	Connecting axle for octa 60 tube	2003425

### CYLINDER LOCKS

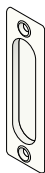

LOCK	DESCRIPTION	REFERENCE
	Lock for final lath with 2 keys	2003432
	Lock for intermediate lath with 2 keys	2003435



## GUIDE ROLL

GUIDE ROLL	DESCRIPTION	REFERENCE
	Guide roll - Ø 30 mm	2001826

## LIFTING GRIPS FOR 9 MM LATH

LIFTING GRIPS	DESCRIPTION	REFERENCE
	Plastic lifting grip, white	2001944
	Plastic lifting grip, brown	2001945

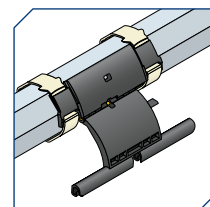
## CONICAL STOPPERS

CONICAL STOPPERS	DESCRIPTION	REFERENCE
	30 mm conical stopper, white, galvanized screw	2003482
	40 mm conical stopper, white, galvanized screw	2003485
	40 mm conical stopper, grey, galvanized screw	2003486
	40 mm conical stopper, brown, galvanized screw	2003487
	40 mm conical stopper, white, stainless steel screws	2003491
	40 mm conical stopper, grey, stainless steel screws	2003492



# EASYLINK LOCK

## for OCTA 40, 50 and 60 mm tubes



### THE EASYLINK LOCK IS COMPRISED OF:

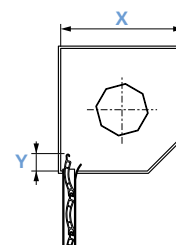
- o a ring set with a quick clippable fixing system, for octa 40, 50 and 60 mm.
- o a fixed element.
- o 1 or 2 articulated elements.

PRODUCT	TUBE	DESCRIPTION	REFERENCE				
			x 1	x 20	x 40	x 300	x 600
	OCTA 40 / 50 / 60	Single Easylink link, 1 element	-	2007024	-	2007022	-
	OCTA 40	Single Easylink link, 2 elements	-	2007147	-	-	-
	OCTA 50 / 60	Single Easylink link, 2 elements	-	2007025	-	2007023	-
	OCTA 40	Single Easylink ring	-	-	2007148	-	2007766
	OCTA 50	Single Easylink ring	-	-	2007030	-	-
	OCTA 60	Single Easylink ring	-	-	2007029	-	2007028
	OCTA 40	Easylink full set, 1 element	2007149	-	-	-	-
	OCTA 40	Easylink full set, 2 elements	2007150	-	-	-	-
	OCTA 50	Easylink full set, 1 element	2007033	-	-	-	-
	OCTA 50	Easylink full set, 2 elements	2007034	-	-	-	-
	OCTA 60	Easylink full set, 1 element	2007031	-	-	-	-
	OCTA 60	Easylink full set, 2 elements	2007032	-	-	-	-

## HOW TO CHOOSE AN EASYLINK LOCK

The choice depends on:

- the rolling tube.
- the housing side size (X).
- the distance between the top of the first lath and the entry guide (Y).



TUBE	LENGTH X	LENGTH MINI Y	LENGTH MAXI Y	NUMBER OF ELEMENT TO CHOOSE
OCTA 40	125 mm	30 mm	70 mm	1
OCTA 40	137 mm	35 mm	75 mm	1
OCTA 40	150 mm	40 mm	80 mm	1
OCTA 40	165 mm	45 mm	85 mm	1
OCTA 40	180 mm	25 mm	65 mm	2
OCTA 40	205 mm	30 mm	75 mm	2
OCTA 50	125 mm	25 mm	65 mm	1
OCTA 50	137 mm	30 mm	70 mm	1
OCTA 50	150 mm	35 mm	75 mm	1
OCTA 50	165 mm	40 mm	80 mm	1
OCTA 50	180 mm	20 mm	60 mm	2
OCTA 50	205 mm	60 mm	100 mm	2
OCTA 60	125 mm	20 mm	60 mm	1
OCTA 60	137 mm	30 mm	70 mm	1
OCTA 60	150 mm	40 mm	80 mm	1
OCTA 60	165 mm	45 mm	85 mm	1
OCTA 60	180 mm	20 mm	60 mm	2
OCTA 60	205 mm	60 mm	100 mm	2

## USING LIMITS

The data in the table below may vary depending on the type of lath used. Contact us.

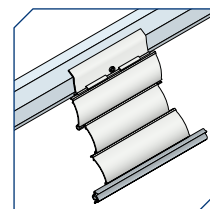
NUMBER OF EASYLINK TO CHOOSE	FABRIC LENGTH	FABRIC WEIGHT
<b>2 EASYLINK</b> 	$L \leq 1400$	max. 14 kg
<b>3 EASYLINK</b> 	$1401 \leq L < 2350$	max. 21 kg
<b>4 EASYLINK</b> 	$2351 \leq L < 3300$	max. 28 kg





# V.A.R. LOCK

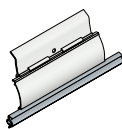
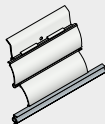
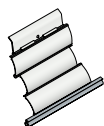

## Adjustable security lock



### THE V.A.R. LOCK IS COMPRISED OF:

...1, 2 or 3 elements and it is screwed directly onto an octa 40, 50 or 60 tube.

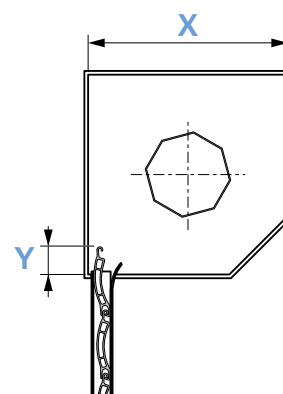
A block position system allows fine adjustment.

PRODUCT	TUBE	DESCRIPTION	REFERENCE	
			x 20	x 100
	OCTA 40 / 50 / 60	V.A.R. 2 screw elements	9013770	9014025
	OCTA 60	V.A.R. 3 screw elements	9011313	9014027
	OCTA 50 / 60	V.A.R. 4 screw elements	9011314	9014028
	Pack of 200 screws		2003337	

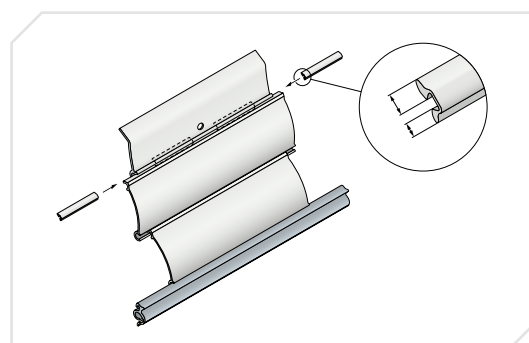
### HOW TO CHOOSE A V.A.R. LOCK

The choice depends on:

- o the rolling tube
- o the housing side size (X)
- o the distance between the top of the first lath and the entry guide (Y)



### HOW TO ADJUST THE BLOCK DELIVERED WITH V.A.R.

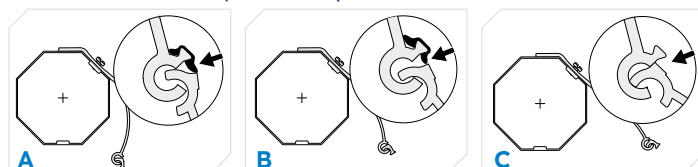


Based on these parameters, the table below gives the right combination to use:

o number of elements



o use of the block position system



TUBE	LENGTH Y	LENGTH X					
		125 mm	140 mm	150 mm	165 mm	180 mm	205 mm
OCTA 40	10 mm	A3	A3	B3	C3	A4	B4
OCTA 40	20 mm	A3	A3	B3	C3	A4	B4
OCTA 40	30 mm	C2	A3	A3	B3	C3	A4
OCTA 40	40 mm	C2	C2	A3	B3	C3	A4
OCTA 40	50 mm	C2	C2	A3	A3	B3	A4
OCTA 50	10 mm	A3	B3	B3	C3	A4	B4
OCTA 50	20 mm	C2	A3	B3	B3	C3	B4
OCTA 50	30 mm	C2	A3	B3	B3	C3	A4
OCTA 50	40 mm	C2	C2	A3	A3	B3	A4
OCTA 50	50 mm	C2	C2	A3	A3	B3	C3
OCTA 60	10 mm	C2	A3	B3	B3	C3	B4
OCTA 60	20 mm	C2	A3	A3	B3	C3	A4
OCTA 60	30 mm	C2	C2	A3	B3	B3	A4
OCTA 60	40 mm	C2	C2	C2	A3	B3	C3
OCTA 60	50 mm	C2	C2	C2	A3	B3	C3

## USING LIMITS

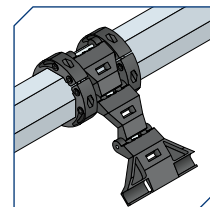
The data in the table below may vary depending on the type of lath used. Contact us if necessary.

NUMBER OF V.A.R. to choose	FABRIC LENGTH	FABRIC WEIGHT	MAXI MOTOR TORQUE		
			2 elements	3 elements	4 elements
2 V.A.R. 	$L \leq 1300$	max. 15 kg	11 Nm	10 Nm	9 Nm
3 V.A.R. 	$1301 \leq L < 2100$	max. 21 kg	15.5 Nm	14 Nm	12.5 Nm
4 V.A.R. 	$2101 \leq L < 2900$	max. 26 kg	20 Nm	18 Nm	16 Nm



# V.A.S. LOCK

## Security lock

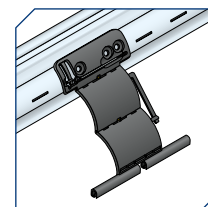


### THE SECURITY LOCK IS COMPRISED OF:

- o a ring set for octa 40, 60 and 70 tube.
- o a jointed hinge (it is comprised of 3 or 4 elements and can be hung on the laths 9 mm or 14 mm).

PRODUCT	TUBE	DESCRIPTION	REFERENCE		
			x 25	x 50	x 100
	OCTA 40	Single ring	-	9840219	-
	OCTA 60	Single ring	-	9840227	2006105
	OCTA 70	Single ring	-	2003596	2006104
	-	V.A.S. hinge, 2 elements, for lath of 9 mm	9840233	-	-
	-	V.A.S. hinge, 3 elements, for lath of 14 mm	9840225	-	-
	-	V.A.S. hinge, 4 elements, for lath of 9 mm	9840234	-	-
	-	V.A.S. hinge, 4 elements, for lath of 14 mm	9840226	-	-

# RIGID LINK II



## THE RIGID LINK II IS COMPRISED OF:

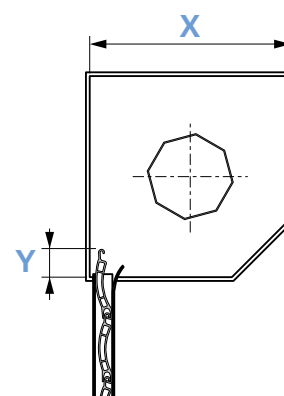
- 1 or 2 or 3 elements and is fixed by fastening wire onto the tubes ZF 54 and ZF 64.  
It is used with laths 8 mm.

PRODUCT	TUBE	DESCRIPTION	REFERENCE				
			x 15	x 20	x 200	x 300	x 400
	ZF 54 / ZF 64	Rigid link, 1 element, with fastening wire	-	2007793	-	-	2007794
	ZF 54 / ZF 64	Rigid link, 2 elements, with fastening wire	-	2007795	-	2007796	-
	ZF 54 / ZF 64	Rigid link, 3 elements, with fastening wire	2008145	-	2008146	-	-

## HOW TO CHOOSE A RIGID LINK II

The choice depends on:

- the housing side size (X)
- the distance between the top of the first lath and the entry guide (Y)






BOX X	MINI LENGTH Y	MAXI LENGTH Y	NUMBER OF ELEMENT TO CHOOSE
125 mm	20 mm	70 mm	1
137 mm	25 mm	65 mm	1
150 mm	35 mm	75 mm	1
165 mm	45 mm	90 mm	1
180 mm	15 mm	55 mm	2
205 mm	30 mm	75 mm	2
210 mm	15 mm	70 mm	3
250 mm	35 mm	105 mm	3
270 mm	50 mm	110 mm	3



USING LIMITS

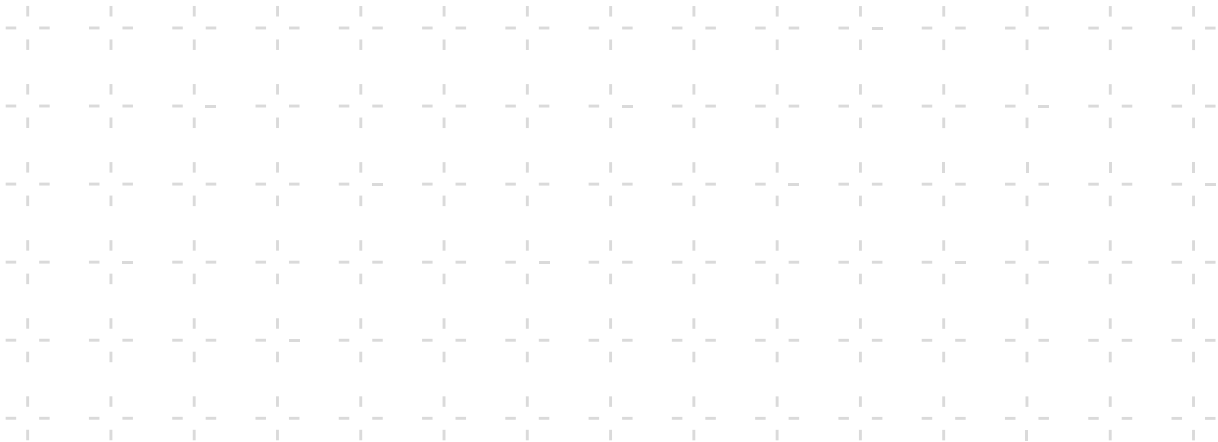
The data in the table below may vary depending on the type of lath used. Contact us if necessary.

NUMBER OF ELEMENT to choose	FABRIC LENGTH	FABRIC WEIGHT	MAXI MOTOR TORQUE
2 	$L \leq 1400$	max. 14 kg	10 Nm
3 	$1401 \leq L < 2350$	max. 21 kg	15 Nm
4 	$2351 \leq L < 3300$	max. 28 kg	20 Nm

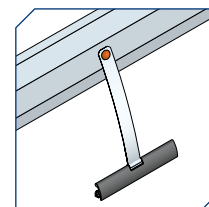
Not compatible with gears which are not equipped with end-limits system that is non-disengagable.

Maxi stopping torque 8 Nm.

It is recommended that you check the use of rigid links with tests on the end-product.



# SPRING FASTENER



## THE SPRING FASTENER IS COMPRISED OF:

- o a 130 mm, 170 mm or 190 mm stainless steel fastener.
- o a fixing plate that can be adapted onto 9 or 14 mm roller shutter laths.

## IMPORTANT

The choice of the length of the spring fastener (130 mm, 170 mm or 190 mm) depends on the size of the box.

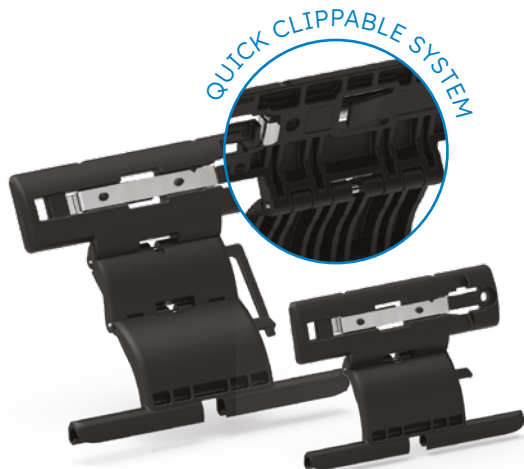
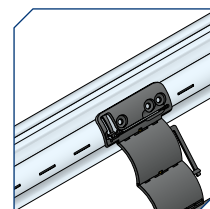
PRODUCT	DESCRIPTION	REFERENCE x 200
	Spring fastener, stainless steel, length 130 mm, for lath 9 mm	2003350
	Spring fastener, stainless steel, length 170 mm, for lath 9 mm	2003351

PRODUCT	DESCRIPTION	REFERENCE x 200
	Spring fastener, stainless steel, length 190 mm, for lath 14 mm	2003349

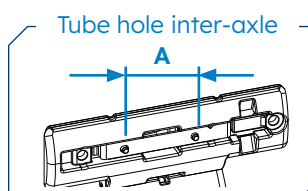
PRODUCT	DESCRIPTION	REFERENCE x 200
	Spring fastener, stainless steel, length 130 mm, for lath 9 mm	2003352
	Spring fastener, stainless steel, length 170 mm, for lath 9 mm	2003354
	Spring fastener, stainless steel, length 190 mm, for lath 14 mm	2003358



# OCTOEASY locks for OCTA 40, 50 and 60 mm tubes



- Fast & direct mounting on the tube: no screw, no rivet, no ring.
- For octa 40, 50 and 60 mm tubes.
- Compatible with slats with a thickness from 8 to 11 mm.
- Reduced winding diameter in comparison with the other locks of the market. It is similar to a winding diameter with stainless spring fasteners.
- Anti roll up function.
- Enable the automatic detection of the down end-limits position when installed with a motor with automatic settings.
- Available with reduced angle to avoid frictions against the wall or the box.



Tube with 60 and  
75 mm inter-axle

## OCTA 40 MM

	Inter-axle A	DESCRIPTION	REFERENCE		
			x 1	x 25	x 250
	60 mm	OCTOEASY, 1 link, 60 mm inter-axle	9020185	9020171	9019987
	60 mm	OCTOEASY, 2 links, 60 mm inter-axle	9020186	9020172	9019988
	60 mm	OCTOEASY, 2 links, with reduced angle, 60 mm inter-axle	9020187	9020173	9019989
	75 mm	OCTOEASY, 1 link, 75 mm inter-axle	9020188	9020174	9019990
	75 mm	OCTOEASY, 2 links, 75 mm inter-axle	9020189	9020175	9019991
	75 mm	OCTOEASY, 2 links, with reduced angle, 75 mm inter-axle	9010190	9020176	9019992

## OCTA 50 & 60 MM

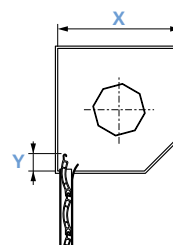
	Inter-axle A	DESCRIPTION	REFERENCE		
			x 1	x 25	x 250
	60 mm	OCTOEASY, 1 link, 60 mm inter-axle	9020177	9020163	9019978
	60 mm	OCTOEASY, 1 link, with reduced angle, 60 mm inter-axle	9020178	9020164	9019980
	60 mm	OCTOEASY, 2 links, 60 mm inter-axle	9020179	9020165	9019981
	60 mm	OCTOEASY, 2 links, with reduced angle, 60 mm inter-axle	9020180	9020166	9019982
	75 mm	OCTOEASY, 1 link, 75 mm inter-axle	9020181	9020167	9019983
	75 mm	OCTOEASY, 1 link, with reduced angle, 75 mm inter-axle	9020182	9020168	9019984
	75 mm	OCTOEASY, 2 links, 75 mm inter-axle	9020183	9020169	9019985
	75 mm	OCTOEASY, 2 links, with reduced angle, 75 mm inter-axle	9020184	9020170	9019986



## HOW TO CHOOSE AN OCTOEASY LOCK

The choice depends on:


- the rolling tube
- the housing side size (X)
- the distance between the top of the first lath and the entry guide (Y)



TUBE	LENGTH X	MINI LENGTH Y	MAXI LENGTH Y	NUMBER OF ELEMENT to choose
OCTA 40	125 mm	15 mm	70 mm	1
OCTA 40	137 mm	25 mm	80 mm	1
OCTA 40	150 mm	35 mm	80 mm	1
OCTA 40	165 mm	45 mm	80 mm	1
OCTA 40	180 mm	25 mm	60 mm	2
OCTA 40	205 mm	40 mm	100 mm	2
OCTA 50	125 mm	25 mm	65 mm	1
OCTA 50	137 mm	30 mm	70 mm	1
OCTA 50	150 mm	35 mm	75 mm	1
OCTA 50	165 mm	40 mm	80 mm	1
OCTA 50	180 mm	20 mm	60 mm	2
OCTA 50	205 mm	60 mm	100 mm	2
OCTA 60	125 mm	20 mm	60 mm	1
OCTA 60	137 mm	30 mm	70 mm	1
OCTA 60	150 mm	40 mm	80 mm	1
OCTA 60	165 mm	45 mm	85 mm	1
OCTA 60	180 mm	20 mm	60 mm	2
OCTA 60	205 mm	60 mm	100 mm	2

## USING LIMITS

The data in the table below may vary depending on the type of lath used. Contact us if necessary.

		FABRIC WEIGHT			
	L	Up to 14kg	From 14 to 21kg	From 21 to 28kg	From 28 to 35kg
Octa 40, 50, 60 tube with <b>PVC</b> fabric	From 1200 to 1700 mm	3	3	4	5
	From 1700 to 2200 mm	4	4	4	5
	From 450 to 1400 mm	2	3	4	5
Octa 40, 50, 60 tube with <b>Aluminium</b> fabric	From 1400 to 2350 mm	3	3	4	5
	From 2350 to 3300 mm	4	4	4	5
	De 2350 à 3300 mm	4	4	4	5
	> 3300 mm	1 lock every 80cm (important: <b>40Nm</b> and <b>7kg max.</b> per lock)			





## END CAPS for gear side

### OCTA 40 MM ROLLING TUBE

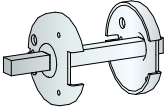
END CAP	DESCRIPTION	REFERENCE
	Aluminium end cap length 50 mm with female 13 mm square	2003466
	End cap length 80 mm, with clips + screws, with female 10 mm square	2003106
	Telescopic end cap, length 250 mm, with 10 mm square pivot	2003388
	End cap length 89 mm, with female 10 mm square	2003345
	End cap length 71 mm, with clips with female 13 mm square	2003524



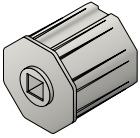
## OCTA 60 MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	Aluminium end cap length 51 mm, with female 13 mm square	2003467
	End cap length 53 mm, with female 13 mm square	2003534
	Bobbin with 10 mm square	2002338
	Telescopic end cap, length 250 mm, with 10 mm square pivot	2003394
	End cap length 115 mm with clips with 10 mm female square for 18 mm bearing with bore	2008496 (x1)
		2008498 (x100)
	End cap, length 82 mm, with 10 mm square pivot	2003537

## LP62 ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	Bobbin with 10 mm square	2002340

## OCTA 70 MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	Aluminium end cap length 51 mm, with female 13 mm square	2003468



## END CAPS FOR TUBE for opposite side

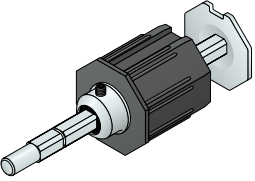
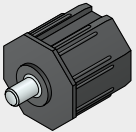
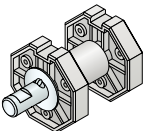

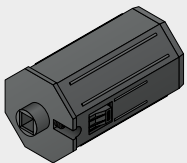
### OCTA 40 MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	End cap length 78 mm for Ø28 mm bearing	2003527
	End cap length 80 mm, with clips + screws, with female 10 mm square,	2003106
	Adjustable end cap, octa 40 for Ø28 mm bearing	2007508
	End cap length 71.5 mm, octa 40 for Ø10 mm bearing	2003542

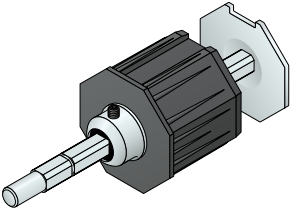
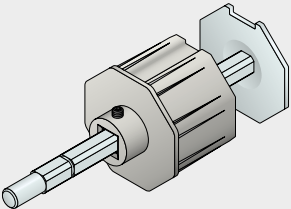

### OCTA 60 MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	End cap length 98 mm with clips for Ø28 mm bearing	2003528
	End cap length 150 mm for Ø28 mm bearing	2003539
	End cap length 150 mm for Ø42 mm bearing	2003540



END CAP	DESCRIPTION	REFERENCE
	Plastic telescopic end cap length 200 mm with 12 mm pivot	2003389
	End cap length 57 mm with 12 mm pivot	2003535
	Bobbin for SIMU bracket  ref. 2003617	2003565
	End cap length 115 mm with clips with 10 mm female square for 18 mm bearing with bore	2008496 (x1)
		2008498 (x100)

## OCTA 70 MM ROLLING TUBE

END CAP	DESCRIPTION	REFERENCE
	Plastic telescopic end cap length 200 mm with 12 mm pivot	2003390
	Aluminium telescopic end cap length 200 mm with 12 mm pivot	2003471
	Bobbin Bichro	2003560
	Bobbin for SIMU bracket  réf. 2003617	2003564



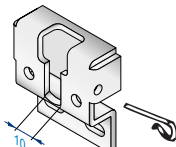
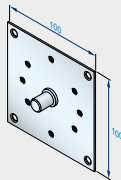
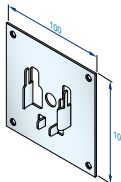

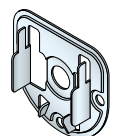

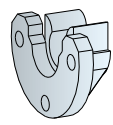
## Bearings for opposite side

Bearings	DESCRIPTION	REFERENCE
	Ø28 mm steel bearing 12 mm bore	2003454
	Ø28 mm nylon bearing 12 mm bore	2003455
	Ø42 mm steel bearing 12 mm bore	2003447
	Ø42 mm nylon bearing 12 mm bore	2003448
	Ø54 mm bearing for Ø12 mm shaft	2003598
	Ø10 mm bearing bracket	2003600 (x1)
	Ø10 mm bearing bracket	2006409 (x50)
 ref. 2003443 ref. 2003448	Bracket for Ø42 mm bearing + Ø42 mm nylon bearing - 12 mm bore	2003601
	Bracket for bearing with Ø12 mm bore	2003607



## BRACKETS

### for opposite side

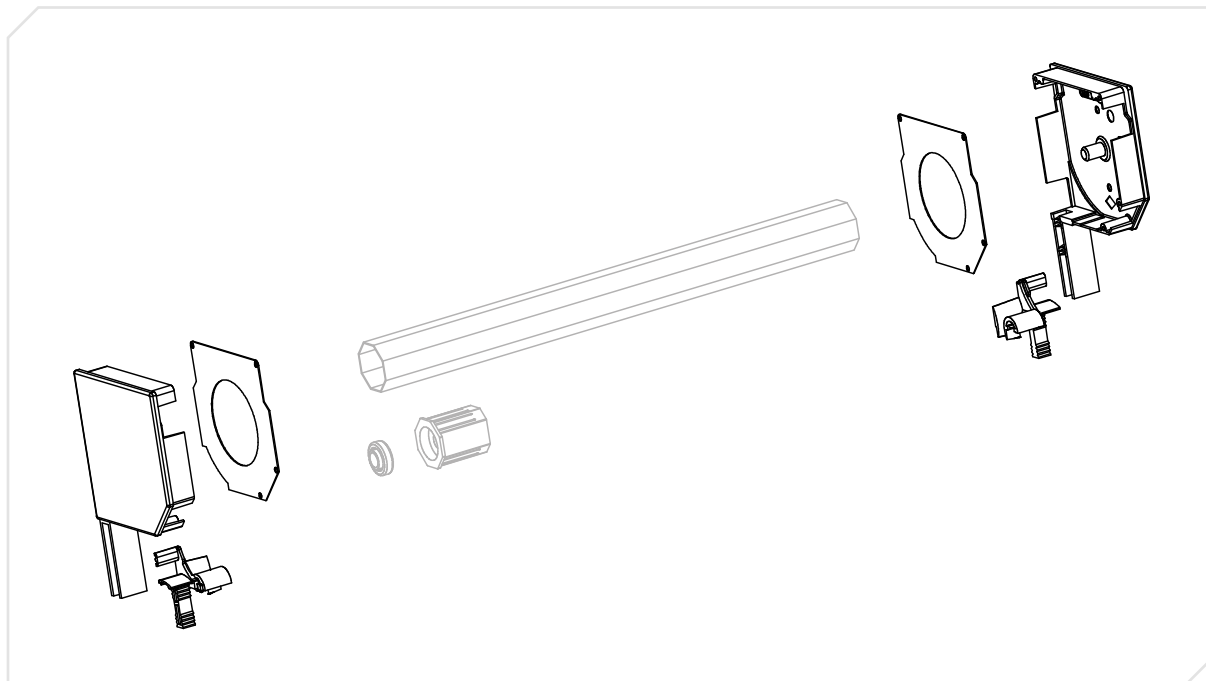
BRACKET	DESCRIPTION	REFERENCE
	Bracket for bobbin ref. <b>2003565</b> / ref. <b>2003560</b> / ref. <b>2003564</b> Delivered with pin	2003617
	Plate 100 x 100 mm with 12 mm spring	2002645
	Plate 100 x 100 mm for Ø42 mm bearing ref. <b>2003447</b> or ref. <b>2003448</b>	2002644
	Bracket for Ø42 mm bearing ref. <b>2003447</b> or ref. <b>2003448</b>	2003442
	Bracket for Ø42 mm bearing ref. <b>2003447</b> or ref. <b>2003448</b>	2003443
	Bracket (x100) for Ø28 mm bearing ref. <b>2003455</b> or ref. <b>2003454</b>	2003446 (x100)
	Bearing for opposite side Ø 11.2 - Nylon (x1)	2003599 (x1)
	Bearing for opposite side Ø 11.2 - Nylon (x100)	2006408 (x100)



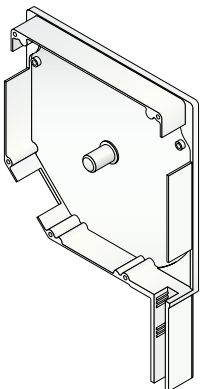
# COMPONENTS

## for roller shutters

### COMPONENTS FOR RENOVATION SYSTEM - GAVIOTA/SIMBAC



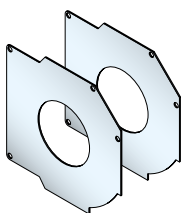
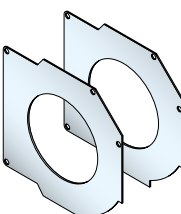
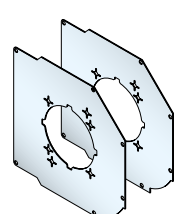
#### MINI45° RENOVATION SIDE FRAME

SIDE FRAME	TYPE	DESCRIPTION	REFERENCE x 25 pairs
	137	Mini 45° renovation side frame, white, 137 mm	<a href="#">2004751</a>
	150	Mini 45° renovation side frame, white, 150 mm	<a href="#">2004758</a>
	165	Mini 45° renovation side frame, white, 165 mm	<a href="#">2004765</a>
	180	Mini 45° renovation side frame, white, 180 mm	<a href="#">2004771</a>
	205	Mini 45° renovation side frame, white, 205 mm	<a href="#">2004777</a>
	150	Mini 45° renovation side frame, white 9010, 150 mm	<a href="#">2004762</a>
	165	Mini 45° renovation side frame, white 9010, 165 mm	<a href="#">2004768</a>
	180	Mini 45° renovation side frame, white 9010, 180 mm	<a href="#">2004783</a>
	205	Mini 45° renovation side frame, white 9010, 205 mm	<a href="#">2004781</a>

## ENTRY GUIDE FOR MINI 45° RENOVATION SIDE FRAME

ENTRY GUIDE	DESCRIPTION	REFERENCE x 200 pairs
	Entry guide for mini 45° side frame, white	2003148

## PLATES FOR MINI 45° RENOVATION SIDE FRAME

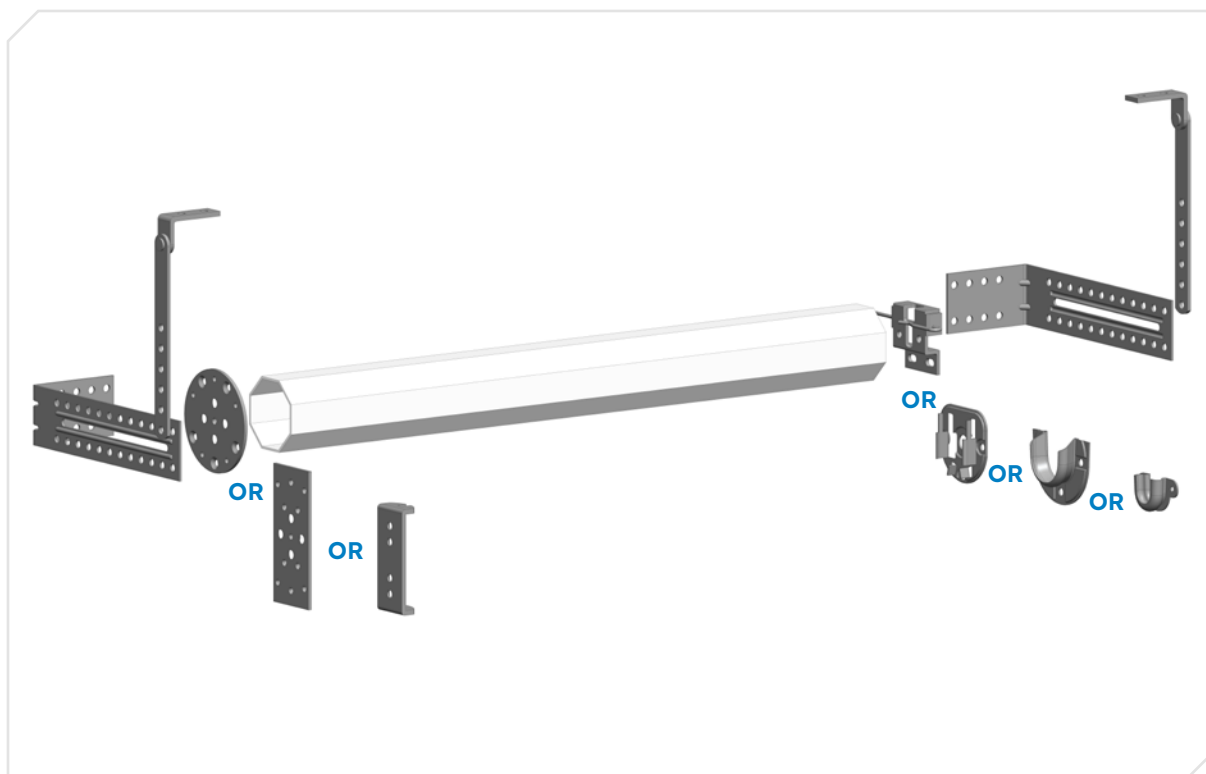
PLATES	TYPE	DESCRIPTION	REFERENCE		
			x 1 pair	x 40 pairs	x 50 pairs
	137	Plate with a 55 mm hole for 137 mm side frame	2005313	-	-
	150	Plate with a 55 mm hole for 150 mm side frame	-	-	2004738
	180	Plate with a 55 mm hole for 180 mm side frame	-	-	2004740
	205	Plate with a 55 mm hole for 205 mm side frame	-	2004741	-
	137	Plate with a 72 mm hole for 137 mm side frame	2005314	-	-
	150	Plate with a 72 mm hole for 150 mm side frame	-	-	2004742
	165	Plate with a 72 mm hole for 165 mm side frame	-	-	2004743
	180	Plate with a 72 mm hole for 180 mm side frame	-	-	2004744
	205	Plate with a 72 mm hole for 205 mm side frame	-	2004745	-
	150	Plate for 150 mm side frame, for DMI	-	-	2005294
	165	Plate for 165 mm side frame, for DMI	-	-	2005295
	180	Plate for 180 mm side frame, for DMI	-	-	2005296
	205	Plate for 205 mm side frame, for DMI	-	2005297	-



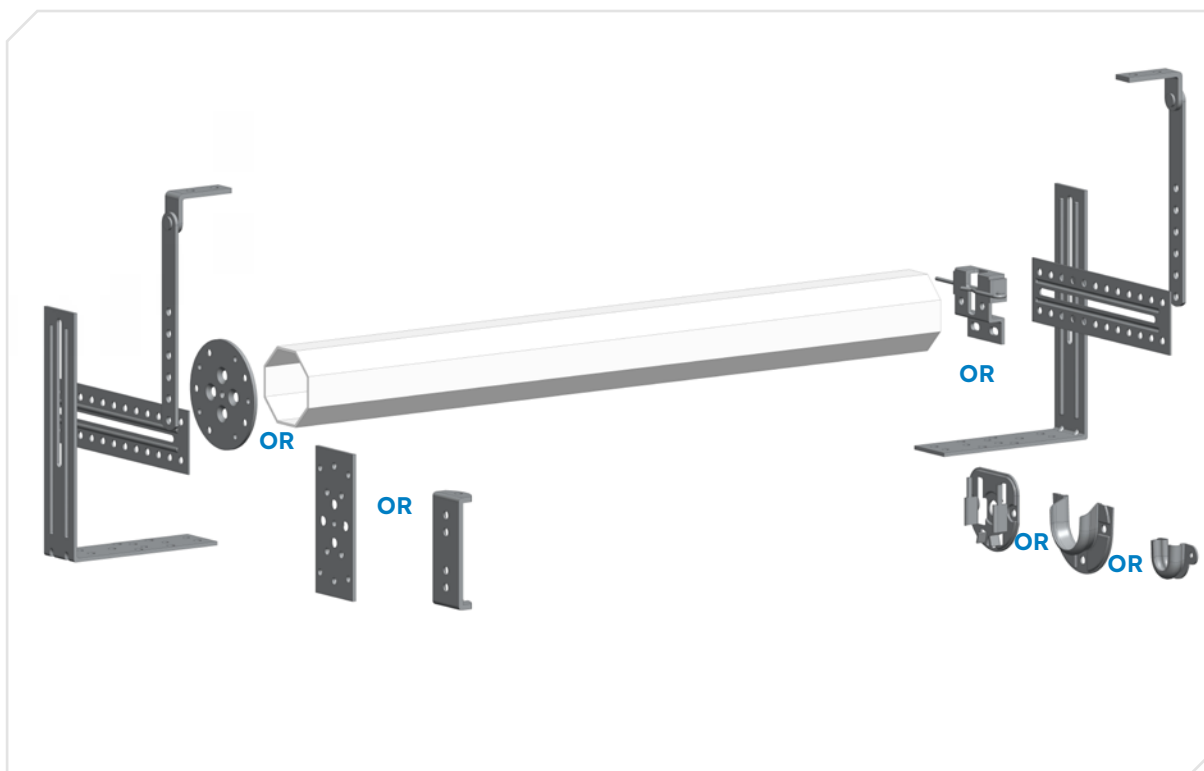


## COMPONENTS FOR WALL INTEGRATED SYSTEM - SIMU

### BUILT-IN BOX MOUNTING



### MOUNTING ON WINDOW FRAME

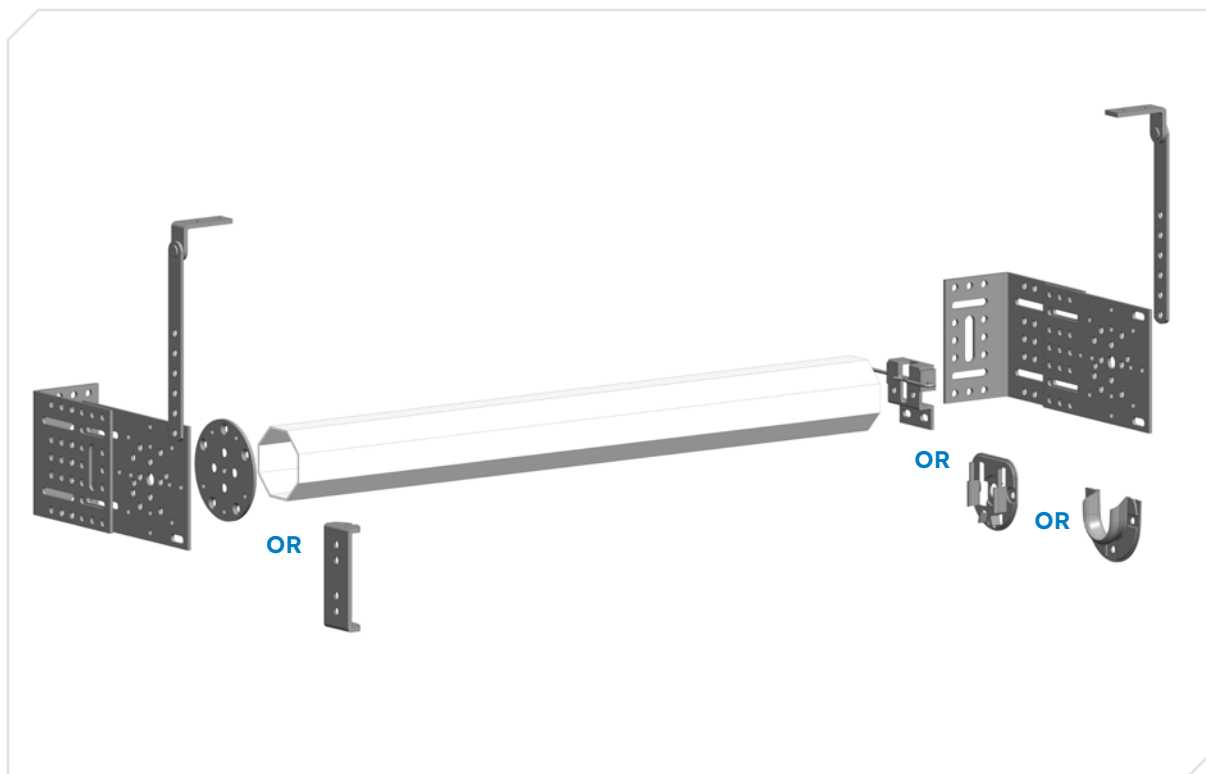


## SQUARE BRACKETS AND REINFORCING BRACKETS

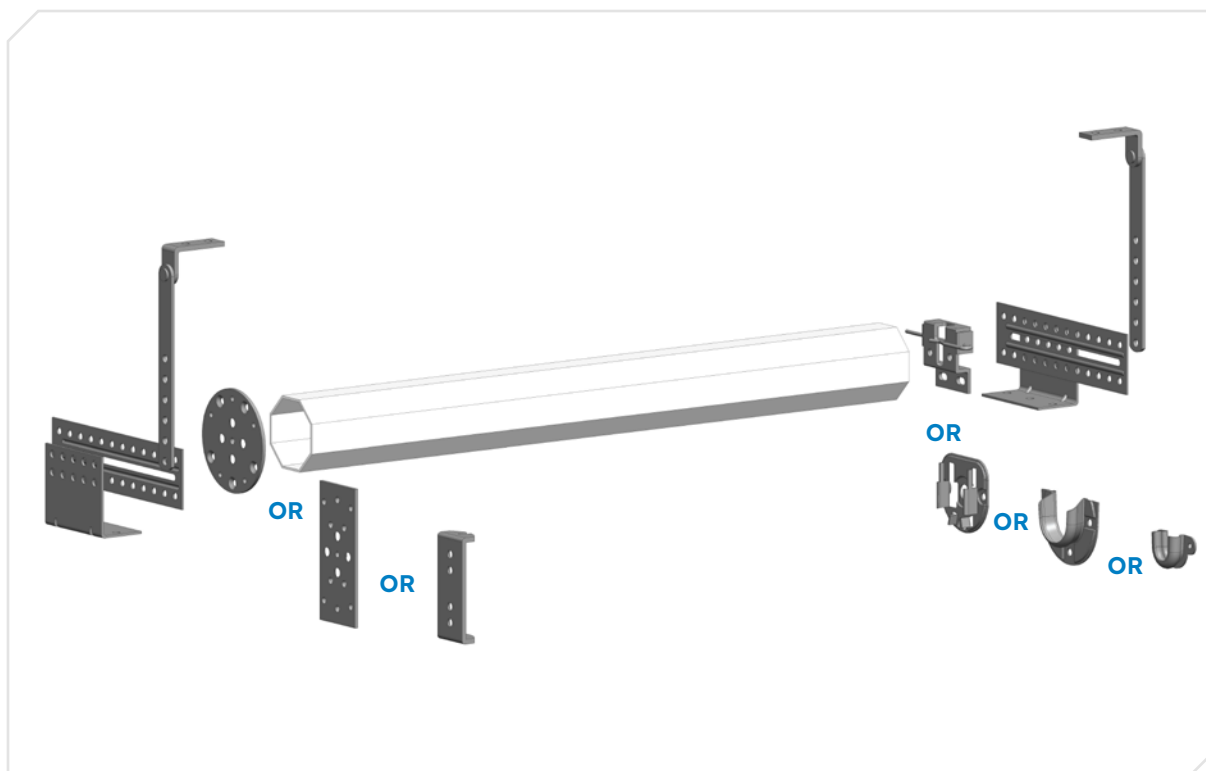
PRODUCT	DESCRIPTION	REFERENCE
	210 x 80 x 50 mm square bracket for window lintel, Ø 6.5 holes	2003620
	210 x 80 x 50 mm square bracket for window lintel, Ø 6.5 and M5 holes	2003621
	Bracket for window frame - Length 200 mm	2003615
	Plate for mounting on window frame - 185x50 mm	2003613
	180 x 115 mm strut	2003452
	170 x 55 mm strut	2003616



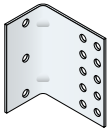
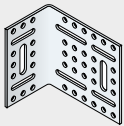
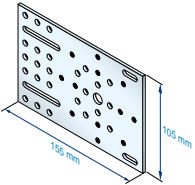
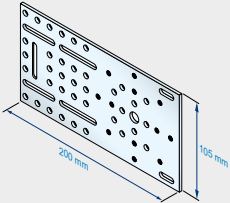
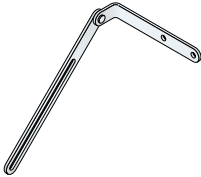
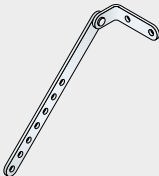
## BUILT-IN BOX MOUNTING



## MOUNTING ON WINDOW FRAME



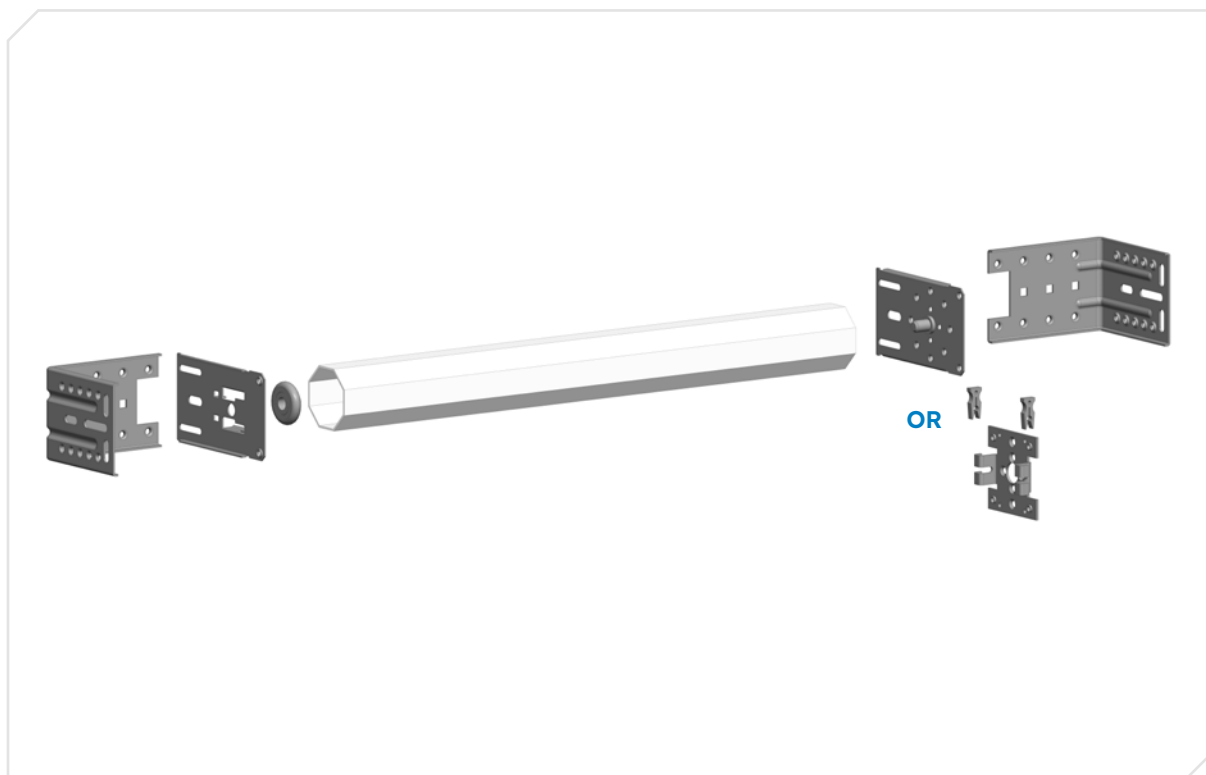
## SQUARE BRACKETS AND REINFORCING BRACKETS

PRODUCT	DESCRIPTION	REFERENCE
	Square bracket 110 x 130 x 84 - Hole M6	2003622
	Universal square bracket 50 x 130 x 84	2003623
	Bracket for Traditionnal SYSTEM Length 155 mm	2003611
	Bracket for Traditionnal SYSTEM Length 200 mm	2003612
	180 x 115 mm strut	2003452
	170 x 55 mm strut	2003616

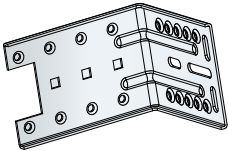
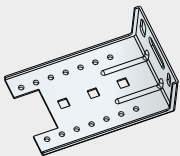
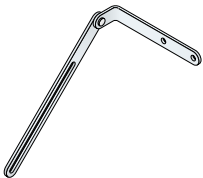
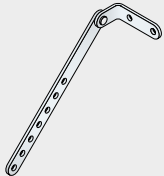
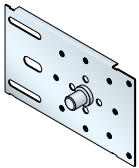
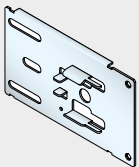


## COMPONENTS FOR WALL INTEGRATED SYSTEM - GAVIOTA/SIMBAC

### BUILT-IN BOX MOUNTING



## SQUARE BRACKETS AND REINFORCING BRACKETS

PRODUCT	DESCRIPTION	REFERENCE
	Square bracket - 110 x 130 x 84 mm - M6 hole	2003375
	Universal square bracket - 50 x 130 x 84 mm	2003377
	Strut - 180 x 115 mm	2003452
	Strut - 170 x 55 mm	2003616
	145 x 84 mm plate with Ø12 pivot	2005311
	145 x 84 mm plate for Ø12 bearing ref. 2003448	2003378



# NOTES

This image shows a full page of blank white paper with horizontal red lines. The lines are evenly spaced and run across the width of the page, providing a guide for writing. There are no margins, text, or other markings on the paper.



2024 edition

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