



T-MODE PRICE LIST

Automation for shutters and awnings

Valid from 01/2014

FAAC
Simply automatic.



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The FAAC logo is rendered in a white, bold, sans-serif typeface. The letters 'F' and 'A' are connected, as are 'A' and 'C'. A thin white horizontal line is positioned directly beneath the logo.

FAAC

Kit for swing and
rolling shutters

T-Mode ONE kit

The universal kit: one for all

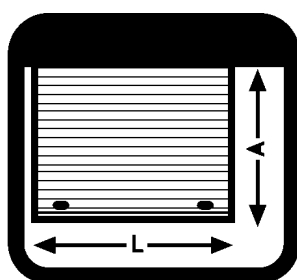
The T-Mode kits are available in two models, TMK 28 ONE and TMK 56 ONE to select in relation to the weight of the rolling shutters.

Both are available in two models with button control (TMK 28 ONE and TMK 56 ONE) and with remote control with radio code (TMK 28R ONE kit RADIO and TMK 56R ONE kit RADIO).



Guide to product selection

Limit of application



SHUTTER WIDTH

70 cm ÷ 170 cm

74 cm ÷ 174 cm (Mod. RADIO)

SHUTTER WIDTH WITH EXTENSION (optional)

171 cm ÷ 245 cm

175 cm ÷ 249 cm (Mod. RADIO)

MAX ROLLING SHUTTER WEIGHT

TMK 28 ONE: max Kg 28

TMK 56 ONE: max Kg 56

Rolling shutter dimensions

ROLLING SHUTTERS IN WOOD, STEEL, EXTRUDED ALUMINIUM (Max weight 10 Kg/m²)

← L →	70-90 cm	90-110 cm	110-130 cm	130-150 cm	150-174 cm
↑ A ↓					
270 cm					
250 cm					
230 cm					
210 cm					
190 cm					
170 cm					
150 cm					

TMK56^{ONE}

TMK28^{ONE}

ROLLING SHUTTERS IN PLASTIC, ALUMINIUM (Max weight 7.5 Kg/m²)

← L →	70-90 cm	90-110 cm	110-130 cm	130-150 cm	150-174 cm
↑ A ↓					
270 cm					
250 cm					
230 cm					
210 cm					
190 cm					
170 cm					
150 cm					

TMK56^{ONE}

TMK28^{ONE}

TMK 28 ONE kit - TMK 56 ONE kit

Universal automation for rolling shutters with button control



TECHNICAL SPECIFICATIONS

	TMK 28 ONE kit	TMK 56 ONE kit
Power supply	230V~ (+6% - 10%) 50 (60) Hz	
Motor type	Asynchronous tubular	
Power	180 W	250 W
Nominal torque	15 Nm	30 Nm
Opening time (window height 1.2 m)	About 20 sec.	
Limit switch	Mechanical	
Motor wire	4x1 mm ² length 2.7 m (provided)	
Max lifting capacity	28 Kg	56 Kg
Speed (rpm)	17 rpm	
Limit of application rolling shutter width	L min 700 mm - L max 1700 mm	

TMK 28 ONE kit - TMK 56 ONE kit

Items included in kit

Motorised telescopic tube (consisting of three parts)
open/close button for wall applications
Lateral rolling tube mounting brackets
Accessories to attach rolling shutter to rolling tube
Nuts and bolts
Limit switch adjustment key
Instruction manual



Model	Item code	Price (Euro)
TMK 28 ONE kit	132015	170.00
TMK 56 ONE kit	132016	185.00

T-Mode ONE kit

TMK 28R ONE kit RADIO - TMK 56R ONE kit RADIO

Universal automation for rolling shutters with radio code



TECHNICAL SPECIFICATIONS

	TMK 28R ONE kit RADIO	TMK 56R ONE kit RADIO
Power supply	230V~ (+6% - 10%) 50 (60) Hz	
Motor type	Asynchronous tubular	
Power	180 W	250 W
Nominal torque	15 Nm	30 Nm
Opening time (window height 1.2 m)	About 20 sec.	
Limit switch	Mechanical	
Motor wire	4x1 mm ² length 2.7 m (provided)	
Max lifting capacity	28 Kg	56 Kg
Speed (rpm)	17 rpm	
Limit of application rolling shutter width	L min 740 mm - L max 1740 mm	

TMK 28R ONE kit RADIO TMK 56R ONE kit RADIO

Items included in kit

Motorised telescopic tube (consisting of three parts) with integrated receiver
transmitter (with support for wall application)
Lateral rolling tube mounting brackets
Accessories to attach roller shutter to rolling tube
Nuts and bolts
Limit switch adjustment key
Instruction manual



Model	Item code	Price (Euro)
TMK 28R ONE kit RADIO	132017	
TMK 56R ONE kit RADIO	132018	

SPECIFIC ACCESSORIES TMK 28 ONE kit - TMK 56 ONE kit



TM X2M Wire centralisation board
Allows to create centralised wire systems

Item code	132400
Price (Euro)	0

SPECIFIC ACCESSORIES TMK 28R ONE kit - TMK 56R ONE kit



TM XT1 433
433 MHz transmitter - 1 channel

Item code	132108
Price (Euro)	



TM XT6 433
433 MHz transmitter - 6 channels

Item code	132109
Price (Euro)	



TMXR1 433 MHz external receiver

Item code	132130
Price (Euro)	

COMMON ACCESSORIES



Rolling tube extension L = 1500 mm

Item code	132218
Price (Euro)	

Night ONE Day kit

Universal automation for shutters

Night ONE Day, a single actuator for 16 different shutter configurations



Night ONE Day kit - Universal KIT for all types of 1 and 2 leaf applications.

Model		Item code	Price
Night ONE Day kit-WHITE (9010)		105741	.00
Night ONE Day kit-BROWN (8017)		105742	0

Night ONE Day RADIO kit - Universal KIT for all types of 1 and 2 leaf applications. Integrated radio receiver.

Model		Item code	Price
Night ONE Day RADIO kit-WHITE (9010)		105743	00
Night ONE Day RADIO kit-BROWN (8017)		105744	0.00

Night ONE Day AUTO kit - Universal KIT for all types of 1 and 2 leaf applications. Automatic stop on limits.

Model		Item code	Price
Night ONE Day AUTO kit-WHITE (9010)		105745	.00
Night ONE Day AUTO kit-BROWN (8017)		105746	.00

Night ONE Day RADIO AUTO kit - Universal KIT for all types of 1 and 2 leaf applications. Automatic stop on limits and integrated radio receiver.

Model		Item code	Price
NIGHT ONE DAY RADIO AUTO KIT - White 9010		105747	
Night ONE Day RADIO AUTO kit-BROWN (8017)		105748	.00

LIMITS OF USE

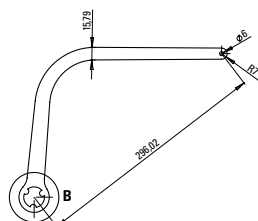
Model	Night ONE Day kit		Night ONE Day RADIO kit		Night ONE Day AUTO kit		Night ONE Day RADIO AUTO kit	
Number of Leaves	1 Leaf	2 Leaves	1 Leaf	2 Leaves	1 Leaf	2 Leaves	1 Leaf	2 Leaves
Minimum recess width	600 mm	780 mm	660 mm	860 mm	660 mm	860 mm	800 mm	990 mm
Max recess width	1,100 mm	1,400 mm	1,300 mm	1,400 mm	1,300 mm	1,600 mm	1,300 mm	1,600 mm
Recess minimum available depth:								
with arm ND4 (provided in kit)	100 mm		100 mm		100 mm		100 mm	
with other arms (accessories)	150 mm		150 mm		150 mm		150 mm	
Leaf with delayed closing	Left or Right		Left or Right		Left or Right		Left or Right	
Maximum shutter thickness	36 mm		36 mm		36 mm		36 mm	
Maximum shutter surface:								
Windy area	1.5 m2		1.5 m2		2.5 m2		2.5 m2	
Protected area	1.8 m2		1.8 m2		3.0 m2		3.0 m2	

TECHNICAL SPECIFICATIONS

Model	Night ONE Day kit	Night ONE Day RADIO kit	Night ONE Day AUTO kit	Night ONE Day RADIO AUTO kit
Power supply voltage	230V~ - 50Hz	230V~ - 50Hz	230V~ - 50Hz	230V~ - 50Hz
Power (W) - Current (A)	135W - 0.6A	135W - 0.6A	200W - 0.8A	200W - 0.8A
Opening/closing time	~ 16s	~ 16s	~ 16s	~ 16s
Power cable outlet	Left or Right	Left or Right	Left or Right	Left or Right
Available colours	White RAL 9010 Brown RAL 8017	White RAL 9010 Brown RAL 8017	White RAL 9010 Brown RAL 8017	White RAL 9010 Brown RAL 8017
Command	Manned deviator (maintained command)	FAAC radio transmitter 433MHz	Two way switch (open/close) (impulse command)	FAAC radio transmitter 433MHz

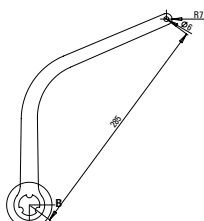
Accessories

ALTERNATIVE ARMS



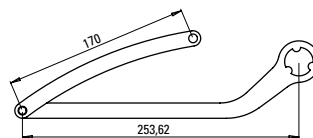
Arms Night ONE Day ND1
White RAL 9010

Item code 105726
Price (Euro)



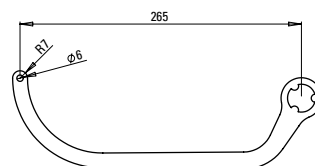
Arms Night ONE Day ND2
White RAL 9010

Item code 105727
Price (Euro)



Arms Night ONE Day ND3
White RAL 9010

Item code 105728
Price (Euro)



Arms Night ONE Day ND4
White RAL 9010

Item code 105729
Price (Euro)

Arms Night ONE Day ND1
Brown RAL 8017

Item code 1057263
Price (Euro)

Arms Night ONE Day ND2
Brown RAL 8017

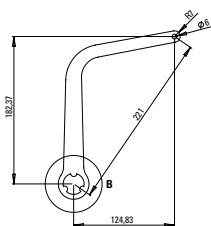
Item code 1057273
Price (Euro)

Arms Night ONE Day ND3
Brown RAL 8017

Item code 1057283
Price (Euro)

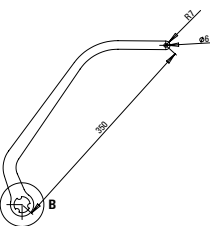
Arms Night ONE Day ND4
Brown RAL 8017

Item code 1057293
Price (Euro)



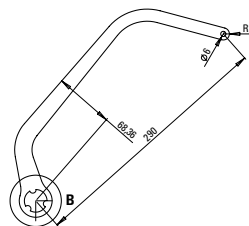
Arms Night ONE Day ND5
White RAL 9010

Item code 105730
Price (Euro)



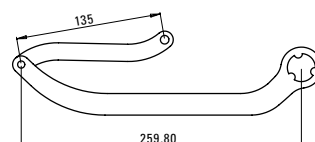
Arms Night ONE Day ND6
White RAL 9010

Item code 105731
Price (Euro)



Arms Night ONE Day ND7

Item code 105732
Price (Euro)



Arms Night ONE Day ND8

Item code 105740
Price (Euro)

Arms Night ONE Day ND5
Brown RAL 8017

Item code 1057303
Price (Euro)

Arms Night ONE Day ND6
Brown RAL 8017

Item code 1057313
Price (Euro)

Arms Night ONE Day ND7
Brown RAL 8017

Item code 1057323
Price (Euro)

Arms Night ONE Day ND8
Brown RAL 8017

Item code 1057403
Price (Euro)

ELECTRONIC CONTROL ACCESSORIES

for wired applications (no integrated remote control): Night ONE Day kit and Night ONE Day AUTO kit



TM X2M Wire centralisation board
Allows to create centralised wire systems

Item code 132400

Price (Euro)



Open/close selector

Item code 409200

Price (Euro)



Open/Close dip-switch

Item code 409201

Price (Euro)



TM XR1 BAT Receiver
For remote control of models Night ONE Day kit and Night ONE Day AUTO kit.
Always add a FAAC 433 MHz radio transmitter (see item below)

Item code 132131

Price (Euro)

for radio applications (integrated remote control): Night ONE Day RADIO kit and Night ONE Day RADIO AUTO kit



TM XT1 433
433 MHz transmitter - 1 channel

Item code 132108

Price (Euro)



TM XT6 433
433 MHz transmitter - 6 channels

Item code 132109

Price (Euro)



TM XT1 M 433 Wall transmitter 433 MHz 1 channel

Item code 132120

Price (Euro)



TM XT6 M 433 Wall transmitter 433 MHz 6 channels

Item code 132121

Price (Euro)



TM TTT 433 Radio programmer 433 MHz 6 channels

Item code 132115

Price (Euro)

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Automations for
rolling shutters
and sun awnings

NEW HORIZONS ARE OPENED

FAAC, a leading company in gate automation broadens its range and proposes T-MODE on the market, the line for moving rolling shutters and awnings.

The wide range of models and the numerous adapters and supports means that these motors can be applied to structures of different sizes, configurations and materials, thus satisfying a wide variety of requirements.



Made in Italy

The reliability of products is assured by a careful choice of the materials used and by 100% production testing.



PICTURE DESCRIPTION (mechanical limit switch version)

- 1 Pin for adapter attachment
- 2 Adjustment screws for limit switch stop
- 3 Flexible key for adjusting limit switch stop
- 4 Limit switch pull ring-nut
- 5 Motor head for support attachment

T-Mode is available in the following versions:

- Mechanical limit switch
- Mechanical limit switch with override device
- Mechanical limit switch with integrated radio receiver
- Electronic limit switch
- Electronic limit switch with integrated radio receiver



The T-MODE tubular motors are self-braking; in the event of a power failure, the rolling shutter (or awning) stays locked in the position it was in at the time.

The TM45 M and TM58 M models, equipped with a manual override device and using suitable accessories, perform manual activations with the rod.



ADAPTERS

When you have finished installing, you must use one of the available adapters, to be selected according to the type of rolling tube.

Every adapter consists of a driving wheel, which must be secured to the output shaft of the tubular motor, and of a drive crown motor for shifting the limit switch stop to be positioned on the corresponding ring-nut.



SUPPORTS

When you have finished installing, you must use one of the many available supports, to be selected according to how the motor is to be secured. The very wide range makes it possible to adapt the motor to any existing structure. Among these, we should mention the exclusive side support (see photo), which makes it possible to attach the motor head without the awkward insertion of pins or split pins (patented system).

Table of functions

Motors Ø 35 mm			
RECOMMENDED FOR AUTOMATION OF:	TM35	TM35 ER	TM35 ERO
Rolling shutters	■	■	■
Rolling shutters with adjustable slats		■	■
Vertical screens/Projection screens	■	■	
Awnings with arms			
Arm awnings			
Cassette awnings			
Pergola awnings			
Rolling garage doors and shutters			
ACTIVATION MODE:			
Action via switch (open-close)	■	■	■
Action via remote control (integrated radio receiver)		■	■
Action via remote control and step by step button		■	■
ADJUSTMENT OF STOP POINTS (LIMIT SWITCHES):			
Manual adjustment of stop points	■	■	■
Automatic adjustment of stop points		■	
Semi-automatic adjustment of stop points (automatic UP)		■	
Possibility to set an intermediate stop point (preferred position)		■	
ADDITIONAL FUNCTIONS:			
Override (in event of power failure)			
Automatic stop in case of ice-latches		■	■
Automatic reverse if an obstacle is detected 			■
Automatic adaptation to deformations of the fabric		■	■
Modifiable function parameters (Advanced menu)		■	■
COMPATIBILITY WITH ELECTRONIC CONTROLS:			
Connectible to external radio receiver	■		
Can be commanded directly (via radio) from sun and wind sensor		■	■
Can be commanded directly (via radio) from timer		■	■
Compatible with home automation control systems (wired)	■		

Motors Ø 45 mm					Motors Ø 58 mm			
TM45	TM45M	TM45R	TM45E	TM45ER	TM58	TM58M	TM58E	TM58ER
■	■	■	■	■	■	■	■	■
				■				■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
		■		■				■
		■		■				■
■	■	■	■	■	■	■	■	■
			■	■			■	■
			■	■			■	■
				■				■
	■					■		
			■	■			■	■
			■	■			■	■
			■	■			■	■
			■	■			■	■
■	■				■	■		
		■	■	■			■	■
		■	■	■			■	■
■	■		■		■	■	■	

Selection guide: motors for rolling shutters

The T-MODE tubular motors are available in different models to meet the various requirements of applications, and for each model you can choose between versions with different lifting capacity (Kg) or torque (Nm) based on the size and type of structure.

Each product is identified by a code which summarises its characteristics.

E.g. TM45 30/17 indicates:

TM = abbreviation of T-Mode;

45 = indicates the tube diameter of the motor;

30/17 = 30 indicates the torque in Nm and 17 indicates the speed in

revolutions per minute.

The description of the "standard" model for button control also includes the final letters to indicate the specific motor:

M = motor equipped with manual release device;

R = motor with integrated receiver for remote control;

E = motor with electronic limit switch adjustment;

ER = motor with electronic limit switch adjustment with integrated receiver for remote control;

ERO = motor with electronic limit switch adjustment with integrated receiver for remote control and integrated obstacle detection sensor (only available for TM35).

To find the torque (Nm) of the tubular motor model required to create the automated system of a rolling shutter, you must know the following:

1. weight of rolling shutter

2. the diameter of the rolling tube

To determine the **weight of the rolling shutter**, it is necessary to know the weight per m² of the material used and the surface area

In **table A** the indicative Kg/m² of the most commonly used materials.

In **table B**, by intersecting the values of the rolling shutter's weight and the diameter of the rolling tube, you can obtain the nominal torque (Nm) of the T-MODE model to be used.

TABLE A

Material	Kg/m ²
Aluminium with expanded polyurethane	3,5
Aluminium with expanded polyurethane HD	4,8
PVC	6,0
Wood	8,5
Extruded aluminium	9,0
Steel with expanded polyurethane	9,5
Steel with expanded polyurethane HD	10,5
Steel	11,0

Note: the weights refer to commonly used structures and are therefore purely a guideline, as they depend on the thickness values and reinforcements of the structure.

TABLE B Ø Rolling tube (mm) for rolling shutter weight (Kg)

	Ø38 mm	Ø40 mm	Ø45 mm	Ø50 mm	Ø60 mm	Ø70 mm	Ø80 mm	Ø120 mm	Ø220 mm
5 kg	10Nm	10Nm	10Nm	8Nm	8Nm	8Nm	8Nm	70Nm	70Nm
10 Kg	10Nm	10Nm	10Nm	8Nm	8Nm	8Nm	8Nm	70Nm	70Nm
15 Kg	10Nm	10Nm	10Nm	8Nm	15Nm	15Nm	15Nm	70Nm	70Nm
20 kg	10Nm	10Nm	13Nm	15Nm	15Nm	15Nm	15Nm	70Nm	70Nm
25 kg	13Nm	13Nm	13Nm	15Nm	15Nm	20Nm	20Nm	70Nm	70Nm
30 Kg				15Nm	20Nm	20Nm	25Nm	70Nm	80Nm
35 Kg				20Nm	20Nm	25Nm	25Nm	70Nm	100Nm
40 Kg				20Nm	25Nm	25Nm	30Nm	70Nm	120Nm
45 Kg				25Nm	25Nm	30Nm	35Nm	80Nm	
50 Kg				25Nm	30Nm	35Nm	45Nm	80Nm	
55 Kg				30Nm	35Nm	35Nm	45Nm	100Nm	
60 kg				30Nm	35Nm	45Nm	45Nm	100Nm	
65 Kg				35Nm	45Nm	45Nm	50Nm	120Nm	
70 Kg				35Nm	45Nm	45Nm	70Nm	120Nm	
75 Kg				45Nm	45Nm	50Nm	80Nm	120Nm	
80 Kg				45Nm	45Nm	70Nm	80Nm		
85 Kg				45Nm	50Nm	80Nm	100Nm		
90 Kg				45Nm	50Nm	80Nm	100Nm		
95 Kg				50Nm		100Nm	100Nm		
100 Kg				50Nm		100Nm	100Nm		
105 Kg				50Nm		100Nm	120Nm		
110 Kg						100Nm	120Nm		
115 Kg						120Nm	120Nm		
120 Kg						120Nm	120Nm		
125 Kg						120Nm			
130 Kg						120Nm			
135 Kg						120Nm			

Selection guide: motors for arm awnings

To find the torque (Nm) of the tubular motor model required to create the automated system of a screen, you must know the following:

1. the extension/projection of the structure's arms
2. the number of arms
3. the diameter of the rolling tube

In table C, by intersecting the data mentioned above, you can obtain the required nominal torque (Nm) of the T-MODE model to be used.

TABLE C Arm protrusion (m) for Number of arms

rolling Ø 50mm - 62mm							
	1,5m	2m	2,5m	3m	3,5m	4m	5m
2	25Nm	30Nm	30Nm	30Nm	35Nm	45Nm	50Nm
4	25Nm	30Nm	35Nm	45Nm	45Nm	50Nm	
6	30Nm	35Nm	45Nm	50Nm			
8	35Nm	45Nm					
rolling Ø 63mm - 70mm							
	1,5m	2m	2,5m	3m	3,5m	4m	5m
2	30Nm	30Nm	30Nm	35Nm	45Nm	45Nm	50Nm
4	30Nm	35Nm	35Nm	45Nm	45Nm	70Nm	100Nm
6	35Nm	45Nm	50Nm	70Nm	80Nm	100Nm	120Nm
8	50Nm	70Nm	80Nm	100Nm	120Nm	120Nm	
rolling Ø 78 mm							
	1,5m	2m	2,5m	3m	3,5m	4m	5m
2	30Nm	30Nm	35Nm	45Nm	45Nm	50Nm	80Nm
4	30Nm	35Nm	45Nm	45Nm	50Nm	70Nm	100Nm
6	45Nm	45Nm	70Nm	80Nm	80Nm	100Nm	120Nm
8	70Nm	80Nm	100Nm	100Nm	120Nm		
rolling Ø 85mm - 89mm							
	1,5m	2m	2,5m	3m	3,5m	4m	5m
2	45Nm	50Nm	70Nm	70Nm	80Nm	100Nm	120Nm
4	45Nm	70Nm	80Nm	100Nm	100Nm	120Nm	
6	50Nm	80Nm	100Nm	120Nm			
8							

Note: rolling and friction coefficients included.

Selection guide: motors for vertical screens/projection screens

To find out the torque (Nm) of the tubular motor model required to create the automated system of a vertical screen you must know the following:

1. the weight of the vertical blind / screen (bar included)
2. the diameter of the rolling tube

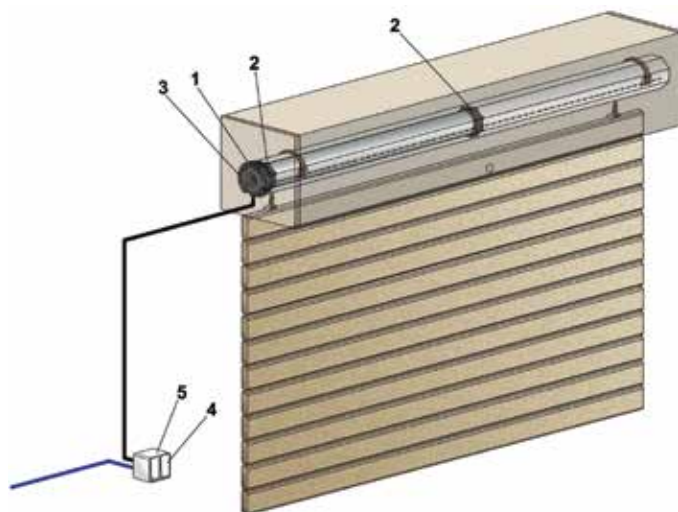
In table D, by intersecting the values of the vertical screen weight and of the rolling tube diameter you can obtain the nominal torque (Nm) of the T-MODE model to be used.

TABLE D Ø Rolling tube (mm) for rolling shutter weight (Kg)

	Ø38 mm	Ø40 mm	Ø45 mm	Ø50 mm	Ø60 mm
5 kg	5Nm	5Nm	5Nm	8Nm	8Nm
10 Kg	5Nm	5Nm	10Nm	8Nm	8Nm
15 Kg	10Nm	10Nm	10Nm	8Nm	15Nm
20 kg	10Nm	10Nm	13Nm	15Nm	15Nm
25 kg	13Nm	13Nm	13Nm	15Nm	15Nm
30 Kg				15Nm	20Nm
35 Kg				20Nm	20Nm
40 Kg				20Nm	25Nm
45 Kg				25Nm	30Nm
50 Kg				30Nm	30Nm

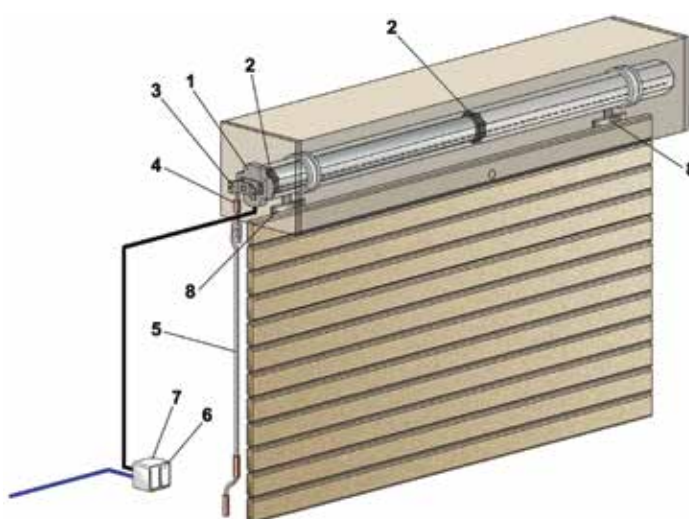
Typical installations

Rolling shutter in PVC window with dimension of 2 m x 1.3 m, weight about 5 Kg per sq.m, octagonal winding tube diameter 60 mm



1. Tubular motor TM45 8/17 cod. 130100
2. Octagonal adapter diameter 60 mm cod. 132250
3. Wall-fitting side support code 132300
4. Up/down switch cod. 132105
5. Wall case cod. 132106

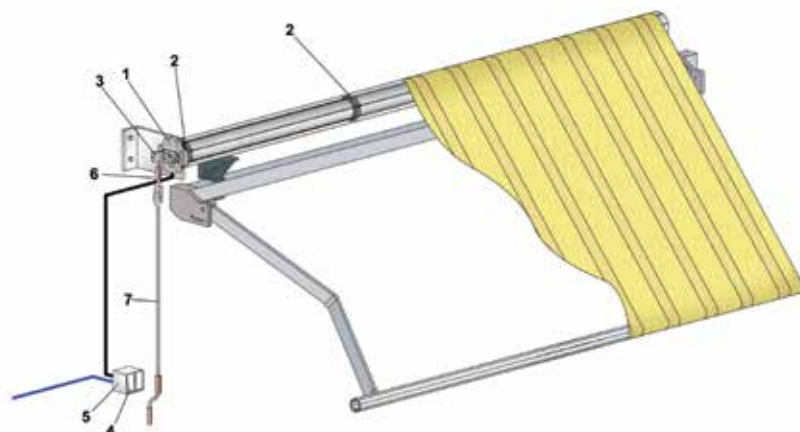
Wooden rolling shutter with dimensions of 2 m x 2.2 m, weight about 10 Kg per sq.m, octagonal rolling tube diameter 70 mm



- | | |
|---|--|
| 1. Tubular motor TM45 30/17 M cod. 130202 | 5. Jointed shaft with white hook L=1.5 m cod. 132053 |
| 2. Octagonal adapter diameter 70 mm cod. 132251 | 6. Up/down switch cod. 132105 |
| 3. Support kit with bracket (threaded holes) and square pin 10 mm code 132312 | 7. Wall case cod. 132106 |
| 4. 45° joint with eyelet L=250 mm cod. 132051 | 8. Anti-burglar device for octagonal tube diameter 70 cod. 132207 (q.ty 2) |

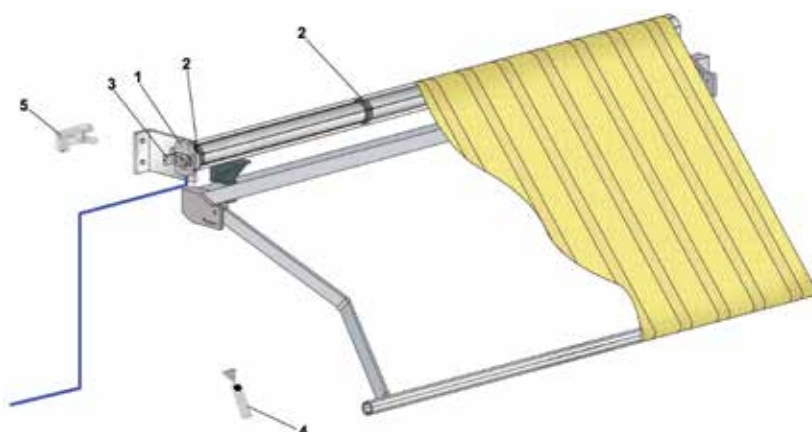
Typical installations

Awning 2 arms, arm projection 3 m, ogive rolling tube diameter 70 mm



- | | |
|---|---|
| 1. Tubular motor TM45 30/17 cod. 130202 | 4. Up/down switch cod. 132105 |
| 2. Ogive adapter diameter 70 mm cod. 132252 | 5. Wall case cod. 132106 |
| 3. Support kit with bracket (threaded holes) and square pin CMS code 132312 | 6. Eyelet kit for assistance manoeuvre L=81cm cod. 132050 |
| | 7. Jointed shaft with white hook L=1.5 m cod. 132053 |

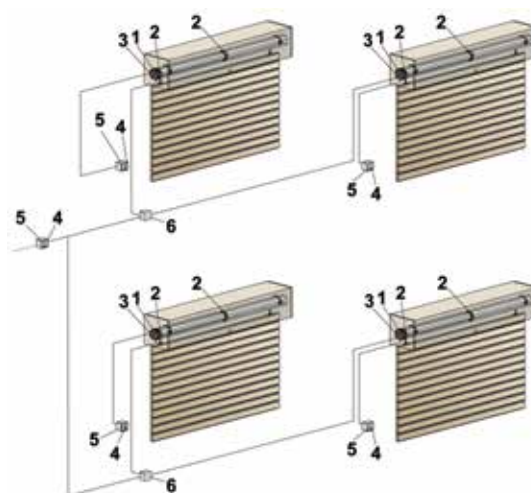
Awnings 4 arms, arm projection 4 m, ogive rolling tube diameter 78 mm



- | |
|---|
| 1. Tubular motor TM45 45/12 ER cod. 130525 |
| 2. Ogive adapter diameter 78 mm cod. 132253 |
| 3. Support kit with bracket (threaded holes) and square pin 10 mm code 132307 |
| 4. Transmitter TMXT 1S 433 MHz cod. 132110 |
| 5. Radio sun and wind sensor TM XAR 433 MHz cod. 132113 |

Typical installations

Centralised system of rolling shutters with switches (wired system)



- | | |
|---|--|
| 1. Tubular motor TM45 8/17 cod. 130100 | 5. Wall case cod. 132106 |
| 2. Octagonal adapter diameter 60 mm cod. 132250 | 6. Linear central control board (two motors) cod. 132400 |
| 3. Wall-fitting side support code 132300 | |
| 4. Up/down switch cod. 132105 | |

Centralised rolling shutter system with radio code (radio-controlled system)



- | |
|---|
| 1. Tubular motor TM45 30/17 ER cod. 130523 |
| 2. Octagonal adapter diameter 70 mm cod. 132251 |
| 3. Support kit with bracket (threaded holes) and square pin 10 mm code 132307 |
| 4. Transmitter TM XT6 433 MHz- 6 channel cod. 132109 |

FAAC
TM35



Tubular motor

Ø 35 mm with mechanical limit switch for switch control

Recommended for automation of:

- Rolling shutters
- Vertical screens/
Projection screens

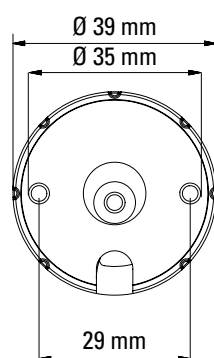


TECHNICAL SPECIFICATIONS

Model	TM35 5/28	TM35 10/14	TM35 13/14
Max torque [Nm]	5	10	13
Lifting capacity (Kg)*	8	18	22
Max speed (rpm)	28	14	14
Utilisation frequency	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	150	140	170
Max revolutions [revs]	50	50	50
Motor diameter (mm)	35	35	35
Length with adapter (mm)	540	540	540
Protection rating	IP 44	IP 44	IP 44

(*) the max. liftable weight with 40 mm diameter rolling tube, rolling friction coefficient included

DIMENSIONS



Model		Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM35	5/28	5	28	8	130001	
TM35	10/14	10	14	18	130002	
TM35	13/14	13	14	22	130003	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- limit switch adjustment key
- instruction manual

ACCESSORIES



Up/down switch wall enclosure

Up/down switch

Item code 132105

Price (Euro)

Wall case

Item code 132106

Price (Euro)



TM XR1 433 MHz receiver
TM XT1 433 MHz transmitter
TM XT6 433 MHz transmitter
See page 58



Adapters
See page 28



TM35 supports
See page 28

Attention:

An adapter must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a support -selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM35 ER/ERO

Tubular motor

Ø 35 mm with electronic limit switch and integrated receiver for remote radio control (433 MHz)

Recommended for automation of:

- Rolling shutters
- Rolling shutters with adjustable slats
- Vertical screens/Projection screens



SAFEzone system:
Only with TM35 ERO motors

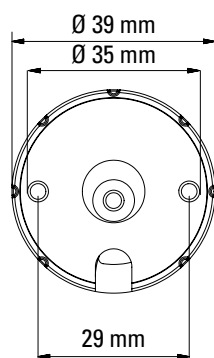


TECHNICAL SPECIFICATIONS

Model	TM35 5/28 ER	TM35 10/14 ER / ERO	TM35 13/14 ER / ERO
Max torque [Nm]	5	10	13
Lifting capacity (Kg)*	8	18	22
Max speed (rpm)	28	14	14
Utilisation frequency	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	150	140	170
Max revolutions [revs]	46	46	46
Motor diameter (mm)	35	35	35
Length with adapter (mm)	540	540	540
Protection rating	IP 44	IP 44	IP 44

(*) the max. liftable weight with 40 mm diameter rolling tube, rolling friction coefficient included

DIMENSIONS



VERSION: ER (RADIO ELECTRONIC)

Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM35	5/28	ER	5	28	8	130004	
TM35	10/14	ER	10	14	18	130005	
TM35	13/14	ER	13	14	22	130006	

VERSION: ERO (RADIO ELECTRONIC WITH INTEGRATED OBSTACLE DETECTION)

Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM35	10/14	ERO	10	14	18	130015	
TM35	13/14	ERO	13	14	22	130016	

The pack includes:

- tubular motor with integrated receiver (with connection cable, length 2.70 m)
- instruction manual

ACCESSORIES

Transmitters
See page 58



Adapters
See page 28



TM35 supports
See page 28

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

Adapters and Supports

Accessories for TM35



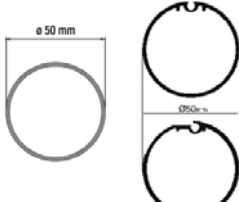

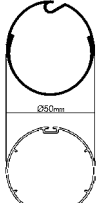
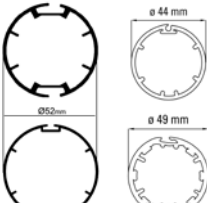

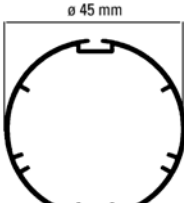

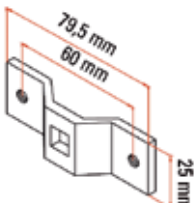
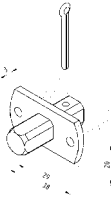
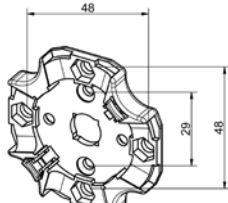
To be defined according to type of rolling tube present on the system.

The pack includes:

- drive wheel
- drive crown



TYPE OF ROLLING TUBE

 <p>Adapter for octagonal 40 tube</p> <p>Item code 132260 Price (Euro)</p>	 <p>Adapter for round 40 tube</p> <p>Item code 132277 Price (Euro)</p>	 <p>Adapter for round 50 / VERANO 50 / PIRISOL 50 tube</p> <p>Item code 132005 Price (Euro)</p>	 <p>Adapter for ZF 45 tube</p> <p>Item code 132297 Price (Euro)</p>
 <p>Adapter for DEPRAT 50 tube</p> <p>Item code 132003 Price (Euro)</p>	 <p>Adapter for M1 / VEROLUX 52 / ACMEDA SYS45 / ACMEDA SYS45 HD tube</p> <p>Item code 132004 Price (Euro)</p>	 <p>Adapter for TM35 Ø54 tube with ogive</p> <p>Item code 132010 Price (Euro)</p>	 <p>Adapter for round 45 mm tube with ogive -TM35</p> <p>Item code 132011 Price (Euro)</p>
 <p>Crown for TM45 adaptor kit combination</p> <p>Item code 132249 Price (Euro)</p>	 <p>Support bracket for square pin 10 mm</p> <p>Item code 132328 Price (Euro)</p>	 <p>Square pin 10 mm for TM35</p> <p>Item code 132346 Price (Euro)</p>	 <p>TM35 Standard support *</p> <p>Item code 132341 Price (Euro)</p>

(*) can be installed in all TM45 plastic supports

FAAC
TM45



Tubular motor

Ø 45 mm with mechanical limit switch for switch control

Recommended for automation of:

- Rolling shutters
- Vertical screens/
Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Rolling garage doors and shutters



(only for models 8/17 - 15/17)



(only for models 15/17 - 30/17)



(only for model 15/17)



TECHNICAL SPECIFICATIONS

Model	TM45 8/17	TM45 15/17	TM45 20/17	TM45 25/17	TM45 30/17	TM45 35/12	TM45 45/12
Max torque [Nm]	8	15	20	25	30	35	45
Lifting capacity (Kg)*	15	28	36	46	56	65	81
Max speed (rpm)	17	17	17	17	17	12	12
Utilisation frequency	20%	20%	20%	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	130	180	230	250	250	250	270
Max revolutions [revs]	16	16	16	16	16	16	16
Motor diameter (mm)	45	45	45	45	45	45	45
Length with adapter (mm)	458	498	498	578	578	578	578
Protection rating	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 60 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model	Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM45 8/17	8	17	15	130100	
TM45 15/17	15	17	28	130101	
TM45 20/17	20	17	36	130110	
TM45 25/17	25	17	46	130111	
TM45 30/17	30	17	56	130102	
TM45 35/12	35	12	65	130103	
TM45 45/12	45	12	81	130104	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- limit switch adjustment key
- instruction manual

ACCESSORIES

Up/down switch wall enclosure
Up/down switch

Item code 132105

Price (Euro)

Wall case

Item code 132106

Price (Euro)



TM XR1 433 MHz receiver
TM XT1 433 MHz transmitter
TM XT6 433 MHz transmitter
 See page 58



Adapters
 See page 40



TM45 supports
 See page 41

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM45 M

Tubular motor

Ø 45 mm with mechanical limit switch for switch control
with safety manual override device

Recommended for
automation of:

- Rolling shutters
- Vertical screens/
Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Rolling garage doors
and shutters



TECHNICAL SPECIFICATIONS

Model	TM45 15/17 M	TM45 30/17 M	TM45 35/12 M	TM45 45/12 M
Max torque [Nm]	15	30	35	45
Lifting capacity (Kg)*	28	56	65	81
Max speed (rpm)	17	17	12	12
Utilisation frequency	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	180	250	250	270
Max revolutions [revs]	28	28	28	28
Motor diameter (mm)	45	45	45	45
Length with adapter (mm)	638	638	638	638
Protection rating	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 60 mm diameter rolling tube, rolling friction coefficient included.

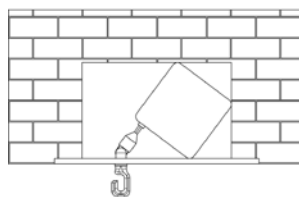
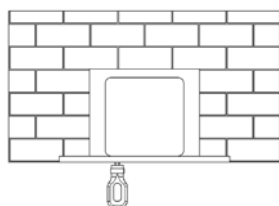
DIMENSIONS



Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM45	15/17	M	15	17	28	130201	
TM45	30/17	M	30	17	56	130202	
TM45	35/12	M	35	12	65	130203	
TM45	45/12	M	45	12	81	130204	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- limit switch adjustment key
- instruction manual

EXAMPLES OF APPLICATION

ACCESSORIES


Rod with rigid white handle
L=1500 mm

Item code	132054
Price (Euro)	



Eyelet kit
hexagon shaft 7 mm - L=81 mm

Item code	132050
Price (Euro)	



45° joint 4 holes with eyelet
Hexagonal shaft 7 mm L=250 mm

Item code	132051
Price (Euro)	



90° joint 2 holes with eyelet
Hexagonal shaft 7 mm L=400 mm

Item code	132052
Price (Euro)	

Eyelet kit
hexagon shaft 7 mm - L=53 mm

Item code	132055
Price (Euro)	

Eyelet kit
hexagon shaft 7 mm - L=150 mm

Item code	132056
Price (Euro)	



Rod with hook and jointed white handle
L= 1500 mm

Item code	132053
Price (Euro)	



Up/down switch wall enclosure

Up/down switch

Item code	132105
Price (Euro)	

Wall case

Item code	132106
Price (Euro)	



TM XR1 433 MHz receiver
TM XT1 433 MHz transmitter
TM XT6 433 MHz transmitter
See page 58



Adapters
See page 40

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM45 R

Tubular motor

Ø 45 mm with mechanical limit switch and integrated receiver for radio control (433 MHz)

Recommended for automation of:

- Rolling shutters
- Vertical screens/
Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Rolling garage doors and shutters



TECHNICAL SPECIFICATIONS

Model	TM45 8/17 R	TM45 15/17 R	TM45 25/17 R	TM45 30/17 R	TM45 35/12 R	TM45 45/12 R
Max torque [Nm]	8	15	25	30	35	45
Lifting capacity (Kg)*	15	28	46	56	65	81
Max speed (rpm)	17	17	17	17	12	12
Utilisation frequency	20%	20%	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	130	180	250	250	250	270
Max revolutions [revs]	16	16	16	16	16	16
Motor diameter (mm)	45	45	45	45	45	45
Length with adapter (mm)	578	678	678	678	678	678
Protection rating	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 60 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM45	8/17	R	8	17	15	130007	
TM45	15/17	R	15	17	28	130008	
TM45	25/17	R	25	17	46	130009	
TM45	30/17	R	30	17	56	130010	
TM45	35/12	R	35	12	65	130011	
TM45	45/12	R	45	12	81	130012	

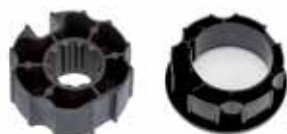
The pack includes:

- tubular motor with integrated receiver (with connection cable, length 2.70 m)
- limit switch adjustment key
- instruction manual

ACCESSORIES



Transmitters
See page 58



Adapters
See page 40



TM45 supports
See page 41

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM45 E

Tubular motor

Ø 45 mm with electronic limit switch for switch control

Recommended for automation of:

- Rolling shutters
- Vertical screens/
Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Pergola awnings
- Rolling garage doors and shutters



SAFEzone system:
TM45 E + Obstacle detection device\code 132114



TECHNICAL SPECIFICATIONS

Model	TM45 8/17 E	TM45 15/17 E	TM45 20/17 E	TM45 30/17 E	TM45 35/12 E	TM45 45/12 E
Max torque [Nm]	8	15	20	30	35	45
Lifting capacity (Kg)*	15	28	36	56	65	81
Max speed (rpm)	17	17	17	17	12	12
Utilisation frequency	20%	20%	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	130	180	230	250	250	270
Max revolutions [revs]	51	51	51	51	51	51
Motor diameter (mm)	45	45	45	45	45	45
Length with adapter (mm)	440	465	480	500	500	500
Protection rating	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 60 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM45	8/17	E	8	17	15	130500	
TM45	15/17	E	15	17	28	130501	
TM45	20/17	E	20	17	36	130502	
TM45	30/17	E	30	17	56	130503	
TM45	35/12	E	35	12	65	130504	
TM45	45/12	E	45	12	81	130505	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- instruction manual

ACCESSORIES

Up/down switch wall enclosure
Up/down switch

Item code 132105

Price (Euro)

Wall case

Item code 132106

Price (Euro)


Mechanical obstacle detection device

(only for motors with electronic limit switch and radio electronic)

Item code 132114

Price (Euro) 0


Adapters
See page 40

TM45 supports
See page 41

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM45 ER

Tubular motor

Ø 45 mm with electronic limit switch and integrated receiver for remote radio control (433 MHz)

Recommended for automation of:

- Rolling shutters
- Rolling shutters with adjustable slats
- Vertical screens/ Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Pergola awnings
- Rolling garage doors and shutters



SAFEzone system:
TM45 ER + Obstacle detection device\code 132114



TECHNICAL SPECIFICATIONS

Model	TM45 8/17 ER	TM45 15/17 ER	TM45 20/17 ER	TM45 30/17 ER	TM45 35/12 ER	TM45 45/12 ER
Max torque [Nm]	8	15	20	30	35	45
Lifting capacity (Kg)*	15	28	36	56	65	81
Max speed (rpm)	17	17	17	17	12	12
Utilisation frequency	20%	20%	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	130	180	230	250	250	270
Max revolutions [revs]	51	51	51	51	51	51
Motor diameter (mm)	45	45	45	45	45	45
Length with adapter (mm)	440	465	480	500	500	500
Protection rating	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 60 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM45	8/17	ER	8	17	15	130520	
TM45	15/17	ER	15	17	28	130521	
TM45	20/17	ER	20	17	36	130522	
TM45	30/17	ER	30	17	56	130523	
TM45	35/12	ER	35	12	65	130524	
TM45	45/12	ER	45	12	81	130525	

The pack includes:

- tubular motor with integrated receiver (with connection cable, length 2.70 m)
- instruction manual

ACCESSORIES



Mechanical obstacle detection device
(only for motors with electronic limit switch and radio electronic)

Item code 132114
Transmitters Price (Euro) .00



See page 58



Adapters
See page 40



TM45 supports
See page 41

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

Adapters

Adapters for TM45

To be defined according to type of rolling tube present on the system.

The pack includes:

- drive wheel
- drive crown



Adapter for round 55 mm tube with ogive - TM45

Item code 132012

Price (Euro)

TYPE OF ROLLING TUBE



Adapter for octagonal 52 tube

Item code 132261

Price (Euro)



Adapter for octagonal 60 tube

Item code 132250

Price (Euro)



Adapter for octagonal 70 tube

Item code 132251

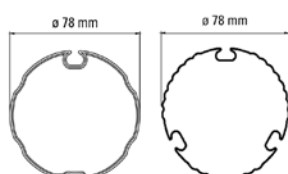
Price (Euro)



Adapter for round 70 mm tube with ogive

Item code 132252

Price (Euro)



Adapter for 78 mm tube with 1/3 ogive

Item code 132253

Price (Euro)



Adapter for DEPRAT 62 / Welser 63 tube

Item code 132258

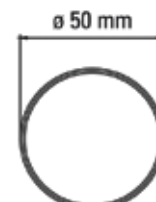
Price (Euro)



Adapter for GAVIOTA BONFANTI 57 tube

Item code 132259

Price (Euro)



Adapter for round 50 tube

Item code 132263

Price (Euro)



Adapter for round 60 tube

Item code 132264

Price (Euro)



Adapter for ZF 54 tube

Item code 132265

Price (Euro)



Adapter for ZF 64 tube

Item code 132266

Price (Euro)



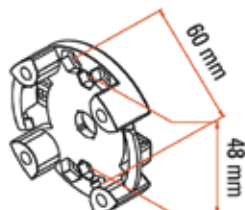
Adapter for ZF 80 tube

Item code 132267

Price (Euro)

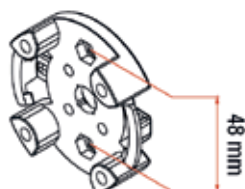
For TM45-TM45 R-TM45 E-TM45 ER

To be defined according to type of installation.



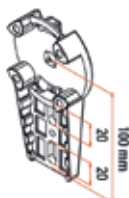
Standard support (6 holes M5 screws)
max 20 Nm

Item code 132300
Price (Euro)



Reinforced support

Item code 132303
Price (Euro)



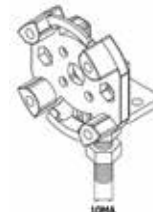
Adjustable support
max 20 Nm

Item code 132306
Price (Euro)



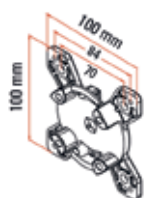
Adjustable standard support
max 20 Nm

Item code 132315
Price (Euro)



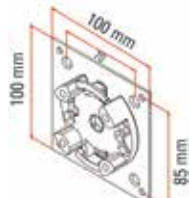
Adjustable reinforced support

Item code 132316
Price (Euro)



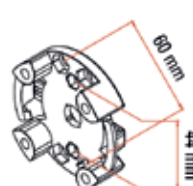
Universal support 100x100
max 20 Nm

Item code 132324
Price (Euro)



Universal support 100x100 with steel base
max 20 Nm

Item code 132323
Price (Euro)



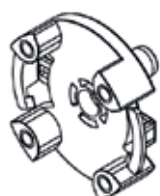
Support for ZF inter-axis 44
max 20 Nm

Item code 132305
Price (Euro)



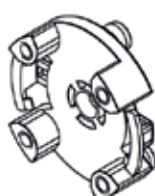
Support for TM45 for plate Eureko - DEPRAT - Max 20 Nm

Item code 132013
Price (Euro)



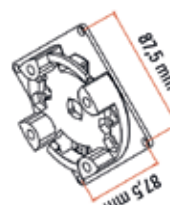
Support for right REHAU plate
max 20 Nm

Item code 132326
Price (Euro)



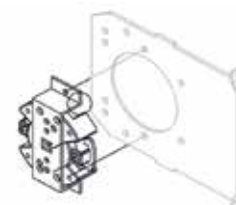
Support for left REHAU plate
max 20 Nm

Item code 132327
Price (Euro)



Support for THYSSEN plate
max 20 Nm

Item code 132329
Price (Euro)

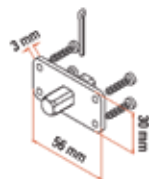


Support for Module, ZF and PLASTIVAL plate
max 20 Nm

Item code 132330
Price (Euro)

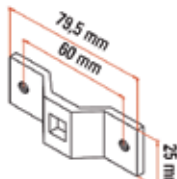
Supports

SUPPORTS FOR TUBULAR MOTORS SERIES TM45 - TM45 R - TM45 E - TM45 ER



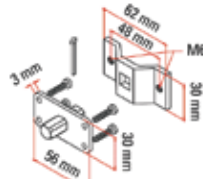
10 mm square pin support

Item code 132309
Price (Euro)



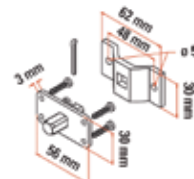
Support bracket for square pin 10 mm

Item code 132328
Price (Euro)



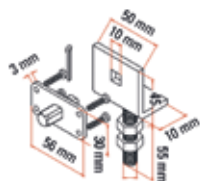
Bracket and square pin 10 mm (threaded holes) support kit

Item code 132311
Price (Euro)



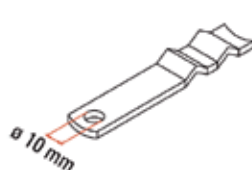
Bracket and square pin 10 mm (pass holes) support kit

Item code 132307
Price (Euro)



Adjustable bracket and square pin 10 mm support kit

Item code 132301
Price (Euro)



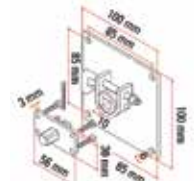
Cramp mount for wall

Item code 132314
Price (Euro)



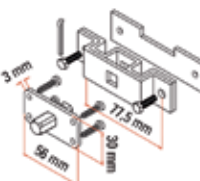
85x100 plate support kit with release and square pin 10 mm

Item code 132317
Price (Euro)



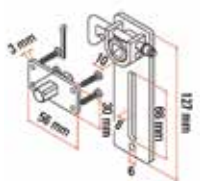
100x100 plate support kit with release and square pin 10 mm

Item code 132319
Price (Euro)



Inter-axis 77.5 mm bracket and square pin 10 mm support kit

Item code 132325
Price (Euro)



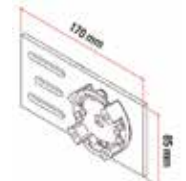
Adjustable bracket with release and square pin support kit

Item code 132320
Price (Euro)



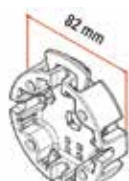
Support with protrusion 40 mm max 20 Nm

Item code 132322
Price (Euro)



Motor side monobloc support max 20 Nm

Item code 132331
Price (Euro)



Standard aluminium support

Item code 132333
Price (Euro)



Aluminium support with hold spring

Item code 132339
Price (Euro)



Aluminium support with wings and hold spring

Item code 132340
Price (Euro)



Open bottom zamak support

Item code 132343
Price (Euro)



Closed bottom zamak support

Item code 132344
Price (Euro)

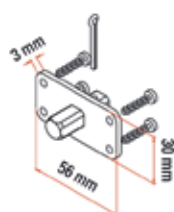


Zamak support for HEROAL plate (L and R)

Item code 132345
Price (Euro)

Supports for tubular motors TM45 M (with manual override)

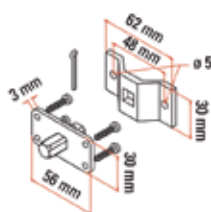
To be defined according to type of installation.



Cms square pin support

Item code 132310

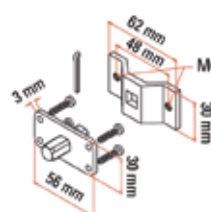
Price (Euro)



Cms bracket and square pin (pass holes) support kit

Item code 132308

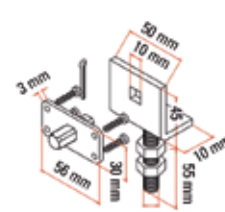
Price (Euro)



Cms bracket and square pin (threaded holes) support kit

Item code 132312

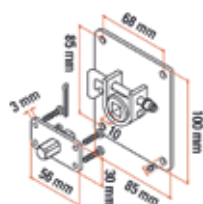
Price (Euro)



Cms adjustable bracket and square pin support kit

Item code 132313

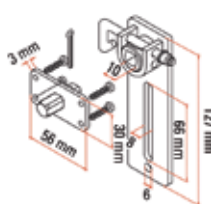
Price (Euro)



Cms 85x100 plate support kit and square pin with release

Item code 132318

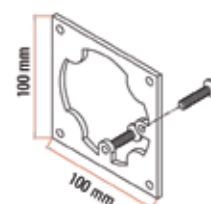
Price (Euro)



Cms adjustable bracket and square pin with release support kit

Item code 132321

Price (Euro)



Cms support kit for plates

Item code 132338

Price (Euro)

FAAC
TM58



Tubular motor

Ø 58 mm with mechanical limit switch for switch control

Recommended for automation of:

- Rolling shutters
- Vertical screens/
Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Rolling garage doors and shutters



TECHNICAL SPECIFICATIONS

Model	TM58 70/12	TM58 80/12	TM58 100/12	TM58 120/12
Max torque [Nm]	70	80	100	120
Lifting capacity (Kg)*	80	92	115	138
Max speed (rpm)	12	12	12	12
Utilisation frequency	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	310	320	410	450
Max revolutions [revs]	28	28	28	28
Motor diameter (mm)	58	58	58	58
Length with adapter (mm)	617	617	617	617
Protection rating	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 70 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model		Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM58	70/12	70	12	80	130108	
TM58	80/12	80	12	92	130105	
TM58	100/12	100	12	115	130106	
TM58	120/12	120	12	138	130107	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- limit switch adjustment key
- instruction manual

ACCESSORIES

Up/down switch wall enclosure
Up/down switch

Item code 132105

Price (Euro)

Wall case

Item code 132106

Price (Euro)



TM XR1 433 MHz receiver
TM XT1 433 MHz transmitter
TM XT6 433 MHz transmitter
 See page 58



Adapters
 See page 54



Supports
 See page 55

Warnings

- An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or screen - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM58 M

Tubular motor

Ø 58 mm with mechanical limit switch for switch control with manual override device

Recommended for automation of:

- Rolling shutters
- Vertical screens/Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Rolling garage doors and shutters



TECHNICAL SPECIFICATIONS

Model	TM58 70/12 M	TM58 80/12 M	TM58 100/12 M	TM58 120/12 M
Max torque [Nm]	70	80	100	120
Lifting capacity (Kg)*	80	92	115	138
Max speed (rpm)	12	12	12	12
Utilisation frequency	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	310	320	410	450
Max revolutions [revs]	28	28	28	28
Motor diameter (mm)	58	58	58	58
Length with adapter (mm)	689	689	689	689
Protection rating	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 70 mm diameter rolling tube, rolling friction coefficient included.

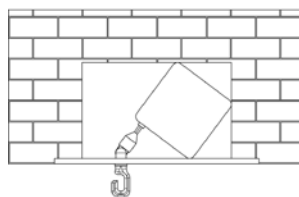
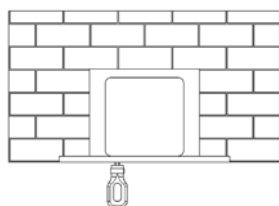
DIMENSIONS



Model				Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM58	70/12	M		70	12	80	130208	
TM58	80/12	M		80	12	92	130205	
TM58	100/12	M		100	12	115	130206	
TM58	120/12	M		120	12	138	130207	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- limit switch adjustment key
- instruction manual

EXAMPLES OF APPLICATION

ACCESSORIES


Rod with rigid white handle
L=1500 mm

Item code	132054
Price (Euro)	



Eyelet kit
hexagon shaft 7 mm - L=81 mm

Item code	132050
Price (Euro)	



45° joint 4 holes with eyelet
Hexagonal shaft 7 mm L=250 mm

Item code	132051
Price (Euro)	



90° joint 2 holes with eyelet
Hexagonal shaft 7 mm L=400 mm

Item code	132052
Price (Euro)	

Eyelet kit
hexagon shaft 7 mm - L=53 mm

Item code	132055
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Price (Euro)

Eyelet kit
hexagon shaft 7 mm - L=150 mm

Item code	132056
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Price (Euro)



Rod with hook and jointed white
handle L= 1500 mm

Item code	132053
Price (Euro)	



Up/down switch wall enclosure

Up/down switch

Item code	132105
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Price (Euro)

Wall case

Item code	132106
-----------	--------

Price (Euro)



TM XR1 433 MHz receiver
TM XT1 433 MHz transmitter
TM XT6 433 MHz transmitter
See page 58

Adapters
See page 54
Supports
See page 55

Warnings

- Attention: An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or sun blind - and a **support** -selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM58 E

Tubular motor

Ø 58 mm with electronic limit switch for switch control

Recommended for automation of:

- Rolling shutters
- Vertical screens/
Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Pergola awnings
- Rolling garage doors and shutters



TECHNICAL SPECIFICATIONS

Model	TM58 70/12 E	TM58 80/12 E	TM58 100/12 E	TM58 120/12 E
Max torque [Nm]	70	80	100	120
Lifting capacity (Kg)*	80	92	115	138
Max speed (rpm)	12	12	12	12
Utilisation frequency	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	310	320	410	450
Max revolutions [revs]	51	51	51	51
Motor diameter (mm)	58	58	58	58
Length with adapter (mm)	597	597	597	597
Protection rating	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 70 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM58	70/12	E	70	12	80	130540	
TM58	80/12	E	80	12	92	130541	
TM58	100/12	E	100	12	115	130542	
TM58	120/12	E	120	12	138	130543	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- instruction manual

ACCESSORIES



Up/down switch wall enclosure

Up/down switch

Item code 132105

Price (Euro)

Wall case

Item code 132106

Price (Euro)



Adapters
See page 54



Supports
See page 55

Warnings

- Attention: An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or sun blind - and a **support** - selected according to the type of installation. Refer to the relevant pages for the accessories selection.

TM58 ER

Tubular motor

Ø 58 mm with electronic limit switch and integrated receiver for remote radio control (433 MHz)

Recommended for automation of:

- Rolling shutters
- Rolling shutters with adjustable slats
- Vertical screens/ Projection screens
- Awnings with arms
- Arm awnings
- Cassette awnings
- Pergola awnings
- Rolling garage doors and shutters



TECHNICAL SPECIFICATIONS

Model	TM58 70/12 ER	TM58 80/12 ER	TM58 100/12 ER	TM58 120/12 ER
Max torque [Nm]	70	80	100	120
Lifting capacity (Kg)*	80	92	115	138
Max speed (rpm)	12	12	12	12
Utilisation frequency	20%	20%	20%	20%
Continuous use time (ROT) [s]	240	240	240	240
Mains power supply voltage	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Max power [W]	310	320	410	450
Max revolutions [revs]	51	51	51	51
Motor diameter (mm)	58	58	58	58
Length with adapter (mm)	597	597	597	597
Protection rating	IP 44	IP 44	IP 44	IP 44

(*) the max. liftable weight with 70 mm diameter rolling tube, rolling friction coefficient included.

DIMENSIONS



Model			Torque Nm	Speed (rpm)	Lifting capacity kg	Code	Price (Euro)
TM58	70/12	ER	70	12	80	130560	
TM58	80/12	ER	80	12	92	130561	
TM58	100/12	ER	100	12	115	130562	
TM58	120/12	ER	120	12	138	130563	

The pack includes:

- tubular motor (with connection cable, length 2.70 m)
- instruction manual

ACCESSORIES



Transmitters
See page 58



Adapters
See page 54



Supports
See page 55

- Attention: An **adapter** must also be used to complete the installation - to be selected according to the rolling tube of the rolling shutter or sun blind - and a **support** -selected according to the type of installation. Refer to the relevant pages for the accessories selection.

Adapters

Adapters for TM58



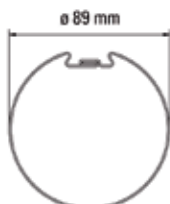
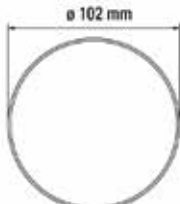
To be defined according to type of rolling tube present on the system.

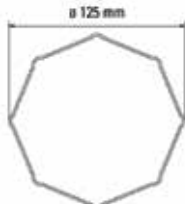
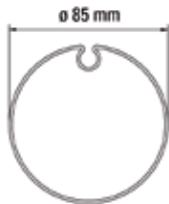


The pack includes:

- drive wheel
- drive crown



TYPE OF ROLLING TUBE

			
Adapter for octagonal 70 tube	Adapter for 78 mm tube tube with ogive	Adapter for DEPRAT 89 tube	Adapter for round 102 tube
Item code 132298	Item code 132299	Item code 132222	Item code 132223
Price (Euro)	Price (Euro)	Price (Euro)	Price (Euro)

			
Adapter for HEROAL 125 octagonal tube	Adapter for 85 mm tube with ogive	Adapter for octagonal 102 tube	Adapter for ZF 80 tube
Item code 132224	Item code 132225	Item code 132228	Item code 132229
Price (Euro)	Price (Euro)	Price (Euro)	Price (Euro)

Supports for TM58

To be defined according to type of installation.



SUPPORTS FOR TUBULAR MOTORS TM58 M



Standard aluminium support

Item code 132333

Price (Euro)



Aluminium support with hold spring

Item code 132339

Price (Euro)

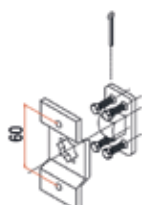


Aluminium support with wings and hold spring

Item code 132340

Price (Euro)

SUPPORTS FOR TUBULAR MOTORS TM58 M



Cms square pin 16 mm support kit

Item code 132335

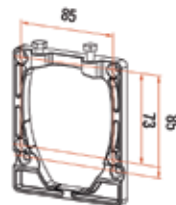
Price (Euro)



Cms adjustable square pin 16 mm support kit

Item code 132336

Price (Euro)



Cms support kit for plates

Item code 132337

Price (Euro)

TM35 - TM45 - TM58

Mechanical accessories



Steel attachments for rolling shutters
3 pc. pack

Item code 132008
Price (Euro)



Accessories set for rolling shutters

Item code 132009
Price (Euro)



Anti-burglar device for octagonal 60 tube

Item code 132206
Price (Euro)



Anti-burglar device for octagonal 70 tube

Item code 132207
Price (Euro)



Telescopic cap for octagonal 60 tube

Item code 132204
Price (Euro)



Telescopic cap for octagonal 70 tube

Item code 132205
Price (Euro)



Cap for octagonal 60 pin

Item code 132221
Price (Euro)



Support with L bracket

Item code 132334
Price (Euro)



Adjustable support with bearing

Item code 132332
Price (Euro)



Support plate with bearings

Item code 132342
Price (Euro)



3 m bar octagonal 60 tube
(6 pc. pack)

Item code 132226
Price (Euro)



3 m bar octagonal 70 tube
(2 pc. pack)

Item code 132227
Price (Euro)



Mechanical obstacle detection device
(only for motors with electronic limit switch and radio electronic)

Item code 132114
Price (Euro)



Clip to fasten adaptor onto ribbed pin
(10 pc. pack)

Item code 132607
Price (Euro)

Electric / electronic accessories



XTM PROG programmer for motors with electronic limit switches

<u>Item code</u>	402510
<u>Price (Euro)</u>	



Test wire

<u>Item code</u>	132104
<u>Price (Euro)</u>	



Up/down switch wall enclosure

Up/down switch

<u>Item code</u>	132105
<u>Price (Euro)</u>	

Wall case

<u>Item code</u>	132106
<u>Price (Euro)</u>	



TM X2M Wire centralisation board
Allows to create centralised wire systems

<u>Item code</u>	132400
<u>Price (Euro)</u>	

TM35 - TM45 - TM58

Electric / electronic accessories



TM XT1 433
433 MHz transmitter - 1 channel

Item code 132108
Price (Euro)



TM XT6 433
433 MHz transmitter - 6 channels

Item code 132109
Price (Euro)



**433 MHz transmitter 1 channel with
sun and wind function TM XT1S 433**

Item code 132110
Price (Euro)



**433 MHz transmitter 6 channels with
sun and wind function TM XT6S 433**

Item code 132111
Price (Euro)



**TM XT1 M 433 Wall transmitter 433
MHz 1 channel**

Item code 132120
Price (Euro)



**TM XT6 M 433 Wall transmitter 433
MHz 6 channels**

Item code 132121
Price (Euro)



**TM XT1 M 433 Wall transmitter 433
MHz 1 channel with sun and wind
function**

Item code 132122
Price (Euro)



**TM XT6 M 433 Wall transmitter 433
MHz 6 channels with sun and wind
function3**

Item code 132123
Price (Euro)



**TM XTT 433 Radio programmer 433
MHz 6 channels**

Item code 132115
Price (Euro)



TMXR1 433 MHz external receiver

Item code 132130
Price (Euro)



Radio sun and wind sensor 433 MHz

Item code 132113
Price (Euro)

GENERAL CONDITIONS OF SALE

1. Notwithstanding any provision to the contrary and even if any such provision may be contained in any possible general conditions of the Buyer, these general conditions of sale (hereinafter the "Conditions") shall apply to all contracts of sale which are made in Italy and/or abroad by FAAC S.p.A. or by other companies and branches owned and/or controlled by FAAC S.p.A. (hereinafter "FAAC"), which concern the products manufactured and/or marked by FAAC (hereinafter the "Products"). All offers, all acceptances of orders and all deliveries by FAAC shall be deemed to have been made pursuant to the following Conditions, except as otherwise expressly provided in writing by FAAC.

2. The contract of sale shall be deemed to be entered into at the moment in which the Buyer becomes aware of FAAC's acceptance of the Buyer's order proposal, or in the absence of said occurrence, at the time of delivery of the Products to the Buyer. Orders may be accepted only if duly signed by the Buyer and provided that said orders contain the technical data necessary to identify the specifications of the Product ordered, it being understood that FAAC shall, at its sole discretion, be entitled to accept or refuse the orders. Any possible cancellations of or modifications to any order by the Buyer shall not be effective, unless previously authorized and subsequently accepted in writing by FAAC. It is agreed that the execution of the contract of sale shall be deemed to have taken place at FAAC's place of business in Zola Predosa (Bologna, Italy).

3. All delivery dates given shall be deemed as indicative only and non-binding. FAAC shall use reasonable endeavors to effect delivery within 30 (thirty) working days from the date of the order confirmation by FAAC. In any event of late delivery, the Buyer shall not be entitled to cancel the order or to any compensation for damages of whatever nature. The Buyer, by collecting any Products which may have been delivered late, waives any and all rights in relation to said delay.

4. Unless otherwise agreed in writing between FAAC and the Buyer the Products shall be delivered "EX WORKS" (in accordance to the most recent edition of the ICC's Incoterms). FAAC shall not enter into any shipment or transportation agreement and shall not insure the Products, unless the Buyer should so expressly instruct FAAC in writing, it being in any event understood that any and all risk and expenses in relation thereto shall be borne exclusively by the Buyer. The buyer agrees promptly to collect the Products as soon as receives notice that the products are ready and at its disposal and, in any event, within eight days of the date of said notice. In any event, the transfer of risk and the payment terms shall run as of the date of the notice that the Products are ready or, in the absence thereof, as of the date of delivery. Standard packing of the Products suitable for air, surface and sea transportation in container will be provided by FAAC free of charge. If Buyer requires any special packing, the full cost to FAAC of said special packing shall be invoiced to the Buyer.

5. FAAC shall be entitled to make minor changes to the Product, without being obliged to inform the Buyer. The quality and quantity of the Product which FAAC undertakes to supply are those specified in the order confirmation, or failing which, as specified in the invoice at the time of delivery of the Products by FAAC. A tolerance of up to +/- 10% (ten percent) in respect of quantity will be allowed in relation to each of the Product. FAAC does not warrant to the Buyer that the Products comply with the applicable

laws and regulations in force in the Country (IES) where the Buyer is established or where the Products have to be sold, delivery and/or installed. FAAC shall have no obligation to modify the Product in compliance with said laws or regulations and the Buyer shall be solely responsible for ensuring that the Product and any services of the Buyer conform to the applicable technical and safety standards, laws and regulations in force inside country (IES).

6. Title to the Products shall pass to the Buyer only upon payment in full of the sale price of the Products. In the event of default by the Buyer, FAAC shall be entitled, without any formalities, including notice of default, to repossess all of the Products with respect to which title has not yet passed to the Buyer, wherever said Products may be; in addition, FAAC reserves the right to seek any other judicial remedies available to it in respect of the damages suffered.

7. Unless otherwise agreed in writing, the list prices of FAAC which are in force as of the date of confirmation of each Product's order shall apply to said order. The prices of any non-standard Products or any Products not appearing on the price list shall be determined by FAAC on a case by case basis. FAAC reserves the right to change the prices of the Products and/or the discounts, if any, applicable thereto at any time and for any reason, upon 30 (thirty) days' prior written notice to the Buyer. If the price list is quoted by FAAC in a currency other than EURO, then FAAC may alter the price of the Products at any time, without any notice to the Buyer, to compensate possible fluctuations in the exchange rate between EURO and the currency in which the prices are quoted. If any delay in delivery of the Products occurs through the fault of the Buyer, any possible increase in the price of the Products which may have occurred since the confirmation of the order relating to the Products shall be borne solely by the Buyer. Except as otherwise agreed in writing, payment for all Products shall be effected by means of:

- An irrevocable letter of credit ("L/C"), confirmed by a primary Italian bank, in compliance with publication 500 of the International Chamber of Commerce as updated from time to time, and valid for at least 30 days from the anticipated date of final delivery. Or in alternative

- Bank wire transfer with full amount covered by stand by L/C, subject to U.C.P. 1993, confirmed by a primary Italian Bank, in compliance with publication 500 of the International Chamber of Commerce as updated from time to time, and expiring date at least 180 days from the date of final delivery. Delivery of the Products is conditional upon the issuing of the above L/C's or the payment of the price by any other means which may have otherwise been authorized in writing by FAAC. Regardless of the means of payment agreed upon, it is understood that payments shall be deemed to have been effected at FAAC's place of business.

8. Under no circumstances shall the Buyer be entitled to suspend or delay payment of the Products or raise any claims in relation thereto until full payment therefore has been made. In the event of late payment, FAAC shall be entitled to exercise its rights provided under the laws in force in Italy in relation to late payment in commercial transactions, without prejudice to its rights to seek any further damages. In any event, FAAC may (i) terminate the contract in relation to the Products not yet delivered and/or (ii) delay the carrying out of any order in hand, inter alia, by suspending delivery of the Products until such time as all outstanding debts owed by the Buyer to FAAC have been paid.

9. FAAC shall be entitled to suspend and/or terminate the sale contract at any time, at its sole discretion, or withdraw any more favorable terms of payments which may have been granted in respect to any order, in the event of any change in the Buyer's solvency and/or liquidity without prejudice to FAAC's right to compensation for damages.

10. Any and all taxes, duties, levies, licenses, authorizations, permits and any and all tax and administrative formalities relating to the importation and/or resale of the Products shall be borne and carried out exclusively by the Buyer or, alternatively, they may be carried out by FAAC at the Buyer's sole risk, expense and responsibility.

11. FAAC warrants and guarantees to the buyer that all new Products shall be free under normal use and service from manufacturing defects for a period of 24 months from the date of installation of the Products or 30 months from the manufacturing date (as shown on the tag plate of each Product), when available (the "Warranty Period"). The buyer acknowledges and agrees that FAAC's warranty is expressly limited to manufacturing defects and that said warranty shall not extend to any damage to the products resulting from other causes, including, without limitation, misuse, transportation or faulty installation thereof, the maximum liability of FAAC to the buyer or to any other person or entity, arising out of or in connection with the products and based on a claim of breach or repudiation of warranty, shall in no case exceed the price paid to FAAC for the product(s) in question. Should FAAC be in breach of its representation and warranty under this art. 11, FAAC's entire liability and the buyer's exclusive remedy shall be, the repair or replacement of the defective part Product free of charge, at FAAC's own workshop. The buyer shall send, free of charge, the part to be repaired or replaced and FAAC shall examine said part to determine whether it is defective and whether the manufacturer is responsible for the defect; in which case only FAAC shall repair or replace the part, in its sole discretion, and shall send the repaired or replacement part to the buyer, who shall bear the cost of transportation only. Any Products which may have been returned without FAAC's authorization shall not entitle the Buyer to any credit notes nor reimbursement. In any event any and or risk and expenses relating to the return of the Products shall be born exclusively by the Buyer. Any claims relating to the defects must be sent to FAAC by registered letter with return receipt requested within eight day following the date of delivery in the case of patent defects and eight days following the date of discovery in the case of latent defects and in any event, within the Warranty Period failing which the Buyer shall lose all right to bring any claim in relations the thereto. The non-consumer purchaser waives its right of recourse against FAAC under art. 1519 quinquies of the

Italian Civil Code. Any and all further or other warranties, be they expressed or implied including without limitation, any warranties provided by law shall be deemed excluded and superseded by these conditions. FAAC further disclaims all expressed, statutory or implied warranties applicable to Products and accessories which are not manufactured by it.

12. The buyer acknowledges that the Products may be dangerous to persons or property when not installed or used in strict compliance with the instructions for installation and use furnished by FAAC and with the safety requirements specified in the EN 12445 and EN 12453. FAAC expressly disclaims liability for any personal injury or property damage resulting from installation or use of the products, other than in strict compliance with FAAC's written instructions with respect to installation and use, or from installation or use of the products together with safety accessories or other products not manufactured by FAAC, it being understood that the maximum liability of FAAC to the Buyer or to any other person or entity arising out of or in connection with the product and based on a claim of breach or under the warranty, shall in no case exceed the price paid to FAAC for the Product which gives rise to the claim, loss or damage. In no event shall FAAC be liable for special and consequential damages including, without limitation, loss of profits.

13. FAAC shall not be held responsible to the buyer for any failure to perform, including late delivery or failure to deliver, which failure to perform is caused by occurrences beyond FAAC's reasonable control, or in any case caused by an event of force majeure, including, but not limited to, late delivery or non-delivery of materials by suppliers, strikes and other trade union actions, terrorist activities, suspension of electrical energy or difficulties in transportation.

14. The contracts of sale to which FAAC is a party shall be governed by the laws of Italy, excluding the Vienna Convention of 1980 relating to contracts for the international sale of goods. Any and all disputes arising out of or relating to the sale of Product by FAAC shall be resolved exclusively by the court of Bologna, Italy. Notwithstanding the foregoing, FAAC may bring an action against the buyer in any court having jurisdiction over the buyer.

Type of installation

Residential	R180		
Condominium	R180	R280 **	227L
Industrial	R180	R280 **	227L
Shaft diameter shutter (mm)	60 48* 42*	60 48* 42*	76
Flange diameter rolling (mm)	200 220**	200 220**	240
Capacity lifting (Kg)	180	280	160

(*) VIA COMPENSATORS
(**) VIA SPACERS/CROWN



Automations for
spring balanced
rolling shutters

R180-R280-227L

230V gearmotor

for spring balanced rolling shutters



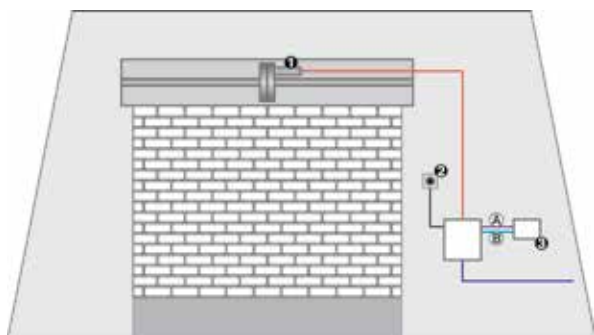
- Provision for anti-drop safety device application (EN 132441-1)
- Limit switches with self-learning adjustment (FAAC PATENTED)
- Application possible, with adapters included, on rolling shutters with shaft diameter of 60/48/42 mm and spring boxes of 200/220 mm
- Max height of rolling shutters 8 meters.



DIMENSIONS AND TECHNICAL SPECIFICATIONS R180 - R280

	R180 / R180 EF	R280 / R280 EF	227L
Power supply voltage	230 V~ (+6% -10%) 50 (60) Hz		230 V~ (+6% -10%) 50 (60) Hz
Absorbed current	2.4 A	4.4 A	2.5 A
Motor torque	180 Nm	280 Nm	150 Nm
Operating ambient temperature	-20°C ÷ + 55°C	-20°C ÷ + 55°C	-20°C ÷ + 55°C
Lifting capacity	180 Kg	280 Kg	160 Kg
rolling flange speed	10 rpm	9 rpm	9 rpm
Supporting pole diameter	60/48/42 mm		76 mm
Diameter of spring boxes	200/220 mm		240 mm
Max height of rolling shutter	8 m		
Maximum shutter width	4.5 m		
Operator weight	8.7 Kg	12.5 Kg	11 Kg

TYPICAL INSTALLATION DIAGRAM EXAMPLE



■ **A** Low voltage piping
■ 3x0.50 mm² wire

■ **B** Power piping (230V)
■ 2x1.5 mm² +T wire
■ 3x1.5 mm² +T wire

Ref	Q.ty	Description	Item code	Price (Euro)
①	1	R180 60x200 gearmotor lifting capacity 180 Kg.	109910	159.00
①	1	Electric brake R180 - R280	409840	43.00
②	1	XK21 L 24V Anti-burglar key selector with lever release	401301	100.00
③	1	200BT electronic board	790852	54.00
TOTAL (VAT EXCLUDED)				356.00

ATTENTION: The configuration does not include safety devices (e.g.: active or passive safety ribs) which are determined according to the specific "risk assessment" of each installation (Ref.: UNI-EN European Standards 12445 and 12453). The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.

Model	Use			Electronic equipment	Item code	Price (Euro)
	Supporting pole diameter (mm)	Diameter of spring boxes (mm)	Utilisation frequency (%)			
R180	60/48/42	200/220	25	Not included	109910	159.00
R180 EF (*)	60/48/42	200/220	25	Not included	109912	201.00
R280	60/48/42	200/220	25	Not included	109911	249.00
R280 EF (*)	60/48/42	200/220	25	Not included	109913	292.00
227L	76	240	20	Not included	109704	212.00

Packages R180 - R280 include: a motor, spring box adapters 200/220, shaft reduction tube 60-48-42, installation accessories.

(*) EF versions include the electro-brake already installed.

ELECTRONIC EQUIPMENT

ACCESSORIES



200BT electronic board
Technical data on page **N**

Item code	790852
Price (Euro)	54.00



Electronic control board 200MPS

Item code	790905
Price (Euro)	105.00

Enclosure mod. E for electronic boards

Item code	720119
Price (Euro)	17.00



Electric brake R180 - R280 ♦

Item code	409840
Price (Euro)	43.00



Anti-falling device

Item code	390925
Price (Euro)	68.00



XK21 H 230V Anti-burglar key selector with lever release
(only for R180 - R280) ♦

Item code	401300
Price (Euro)	94.00



XK21 L 24V Anti-burglar key selector with lever release

Item code	401301
Price (Euro)	100.00



EF - 27 Electric brake for series 227 ♦

Item code	747000
Price (Euro)	53.00

Notes

- ♦ for external release, use the anti-burglar key selector with release lever XK21 H 230V
- ♦ for external release, use key operated buttons T20 IF and T20 EF
- ♦ cylinder lock to be bought separately

Note

[illegible]

Note

[illegible]

Note

[illegible]

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