

GENERAL CATALOGUE 2011

AUTOMATION SYSTEM FOR:
GATES
GARAGES
TRAFFIC BARRIERS
SHUTTERS
SUN BLINDS
WINDOWS
DOORS





Aprimatic is an international leader specialising in automation for operating doors, windows, gates and barriers of all types.

Membership of the URMET group and over 20 years experience in the sector make Aprimatic the ideal partner for all those requiring automated systems for buildings.

Our history.

Aprimatic has operated internationally in the automation sector since 1985.

We market automated opening and closing systems and a wide range of safety and control equipment and products.

Aprimatic is headquartered at Villafontana di Medicina on the outskirts of Bologna in Italy.

It is a member of the URMET Group, a leading international player in the building automation sector.

Thanks to its experience and expertise, Aprimatic now sets the pace and its products are the standard which others follow.



THE CHAMPION OF AUTOMATION



Our mission.

The Aprimatic mission is to place its experience and expertise at the disposal of all users looking for automated opening and closing systems for domestic and industrial buildings.

Our values.

Experience and expertise.

Our expertise is the fruit of over 20 years of successful operation on the market.

Twenty years ago we were one of the first.

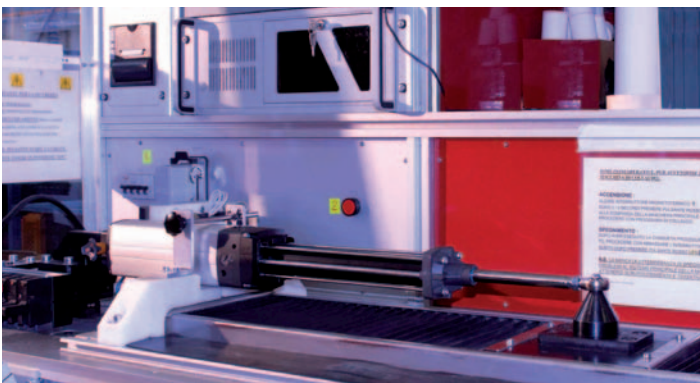
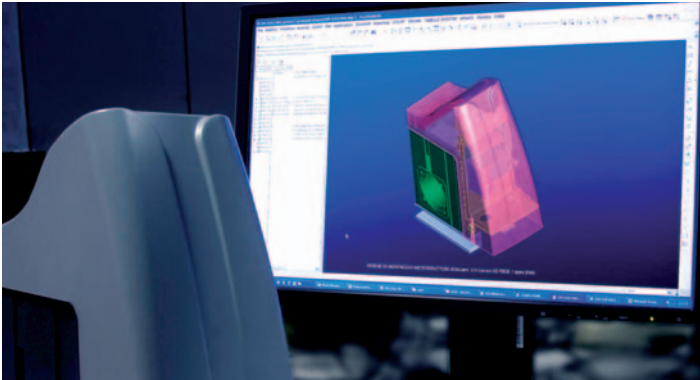
Today, we still are.

Research and development and continuous improvement have always played a strategic role in our corporate growth.

Aprimatic R&D specialists keep our entire range under constant review to ensure that our products incorporate customer feedback and the latest developments needed to anticipate future market requirements.

This forward-looking approach has enabled Aprimatic to acquire increasingly broader expertise and to expand the scope and range of its products.

Today, Aprimatic is the only company in its sector that can supply a complete range of automated opening and closing systems for all applications.



Complete range.

Aprimatic offers a complete range for all product types.

We are your one-stop supplier with a solution to your automation problem, whatever it may be.



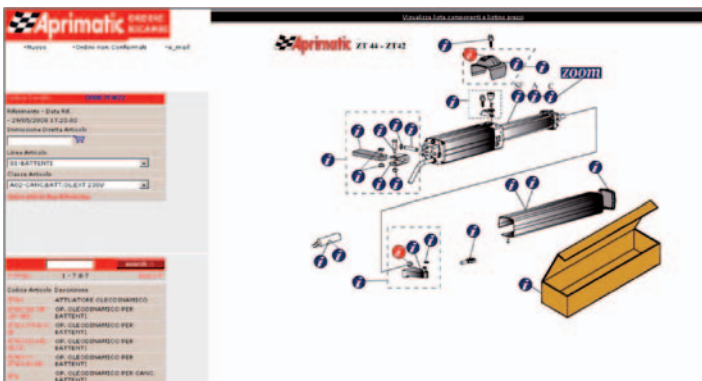
Worldwide Certifications.

The quality of Aprimatic products is certified by the most stringent European Union standards.

The quality systems are ISO9001 certified.



AT THE SERVICE OF PROFESSIONAL.



Our organisation.

In Italy.

Aprimatic has developed a country-wide network of dealerships and distributors throughout Italy. A network committed to providing our products when and where you want them.

Products backed by a top class technical assistance service.

Global presence.

Aprimatic has subsidiaries in France, Spain, UK and China.

A network of official distributors also enables Aprimatic to serve countries in western and eastern Europe, the Middle East, America, Asia and Oceania.

Assistance and service.

Aprimatic provides pre- and after-sales assistance through a Customer Service renowned for its rapidity and efficiency.

We have over forty authorised technical assistance and repair centres throughout Italy providing our customers with a full range of support services.

Installers needing assistance with operating and installation problems can call an Aprimatic Customer Service centre for assistance at any time. Our Italy and Export sales offices are on hand ready with information about availability, dispatch, delivery and order tracking.

There is a free-phone number if you need information about Aprimatic products and technical specifications or want to know where you can purchase our products.

www.aprimatic.com

The technological vocation of Aprimatic enables the company to exploit the electronic revolution by making information concerning products, applications, installation processes and maintenance available on the internet.

Customers can find all the information needed, according to their demands, to best assess, order and operate Aprimatic products.

From July 2007 the new company website will allow customers to place orders online.

A section of the site will be dedicated to spare parts to replace the current Part Finder system.

The online system will not require software installation prior to use and will contain the following:

- Easy-to-consult exploded diagrams.
- Automatic updates requiring no customer activity.
- Online order form.

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RACING KIT



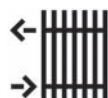
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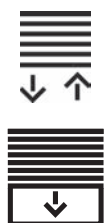
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Easy to buy, quick to install.

ALL IN ONE KIT.

Aprimatic optimises your stock with only a few references. Packaging is designed to ensure clear and legible information to make even buying easier. Aprimatic has already identified all the difficulties that may be encountered by installers when working with highly technological solutions and has therefore decided to solve these problems with practical ready-to-use kits. Everything you need ready for assembly discover the advantage of these genuine technological gems to make your installations quick, easy and durable.

2 YEARS WARRANTY.
All Aprimatic kits are covered by a **2-YEAR WARRANTY** for security, safety and durability.



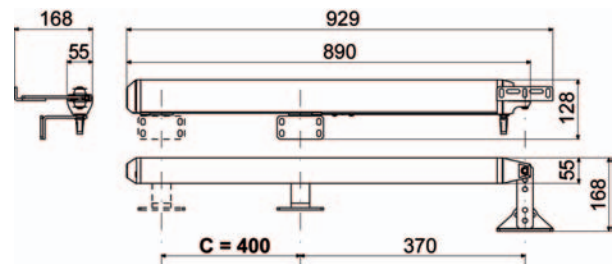
KIT MONTREAL RAIDER 2000

Electro-mechanical kit 24 Vdc for swing gates.

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OPERATOR DIMENSIONS



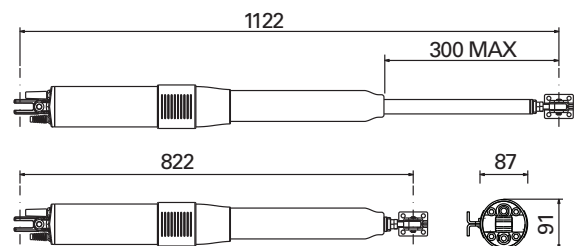
KIT SEPANG RAIDER ONE SMT

Electro-mechanical kit 24 Vdc for swing gates.

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OPERATOR DIMENSIONS



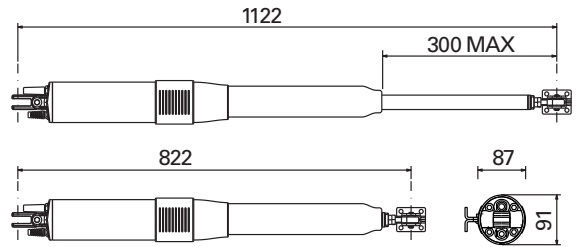
KIT MELBOURNE RAIDER ONE

Electro-mechanical kit 24 Vdc for swing gates.

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OPERATOR DIMENSIONS



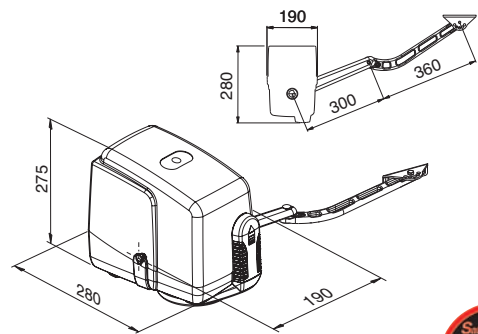
KIT DAYTONA SKIPPER

Electro-mechanical kit 24 Vdc with articulated arm for swing gates.

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OPERATOR DIMENSIONS



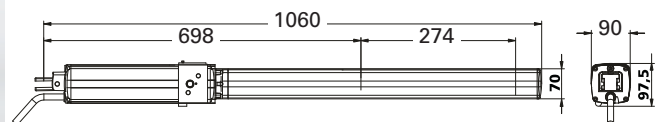
KIT MONACO ZT 4

Hydraulic kit for swing gates.

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OPERATOR DIMENSIONS



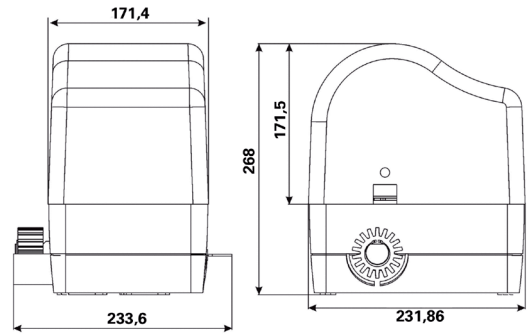
KIT MONZA ONDA 424

Electro-mechanical kit 24 Vdc for sliding gates up to 400 kg.

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OPERATOR DIMENSIONS



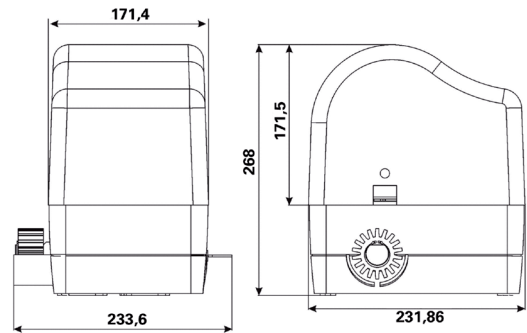
KIT HOCKENHEIM ONDA 624

Electro-mechanical kit 24 Vdc for sliding gates up to 600 kg.

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OPERATOR DIMENSIONS



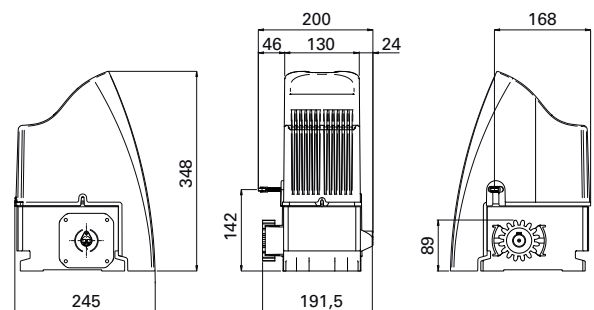
KIT INDIANAPOLIS ONDA 801

Electro-mechanical kit for sliding gates up to 800 kg.

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OPERATOR DIMENSIONS



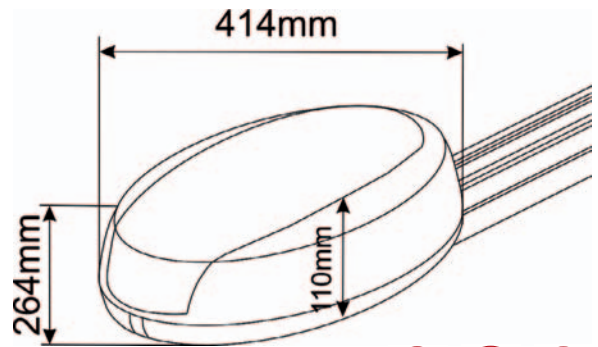
KIT SUZUKA APRIBOX 700 / 1200

Kit for sectional and counterweight, up and over, garage doors.

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OPERATOR DIMENSIONS



LEGEND FOR SYMBOLS USED



Motor power supply



Residential single leaf gate



Residential twin gate



Condominium twin leaf gate



Residential sliding gate



Residential up-and-over door



Gate leaf weight



Gate leaf weight



Anti-crush safety device



Complying with EN12453 section 5.1.1.5 (safety standard)



KIT MONTREAL RAIDER 2000

Low-voltage Kit for swing gates
electro-mechanical operator, residential use.
Self-learning programming.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN12453** and **EN12445 (*)**.

Control unit with self-learning programming and possibility of adjusting the parameters through a simple and intuitive menu.

Practical kits brackets included in the operator pack. The brackets can be either welded or fixed by the supplied screws for an easier and quicker installation.

The mechanical limit switches allow an optimal functioning even on gates without mechanical ground stops. The use of an electric lock is recommended for gate leaves longer than 1,8 metres.

The stroke of 400 mm makes the operator also suitable for more complex applications.

The small size and compact shape ensure harmonious aesthetic fusion between gate and automation.

NOTE: Not compatible with the previous version Raider

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	100 W each motor
ABSORBED CURRENT	5 A (max.) each motor
MAX. THRUST FORCE	2000 N
PISTON STROKE	400 mm
LINEAR SPEED	16 mm/sec.
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WIDTH WITH ELECTRIC LOCK	3,0 m
MAX. LEAF WEIGHT	250 kg (for leaf 3,0 m) 400 kg (for leaf 1,8 m)
ANTI-CRUSH SAFETY DEVICE	Electronic
EMERGENCY RELEASE	Manual
PROTECTION CLASS	IP44

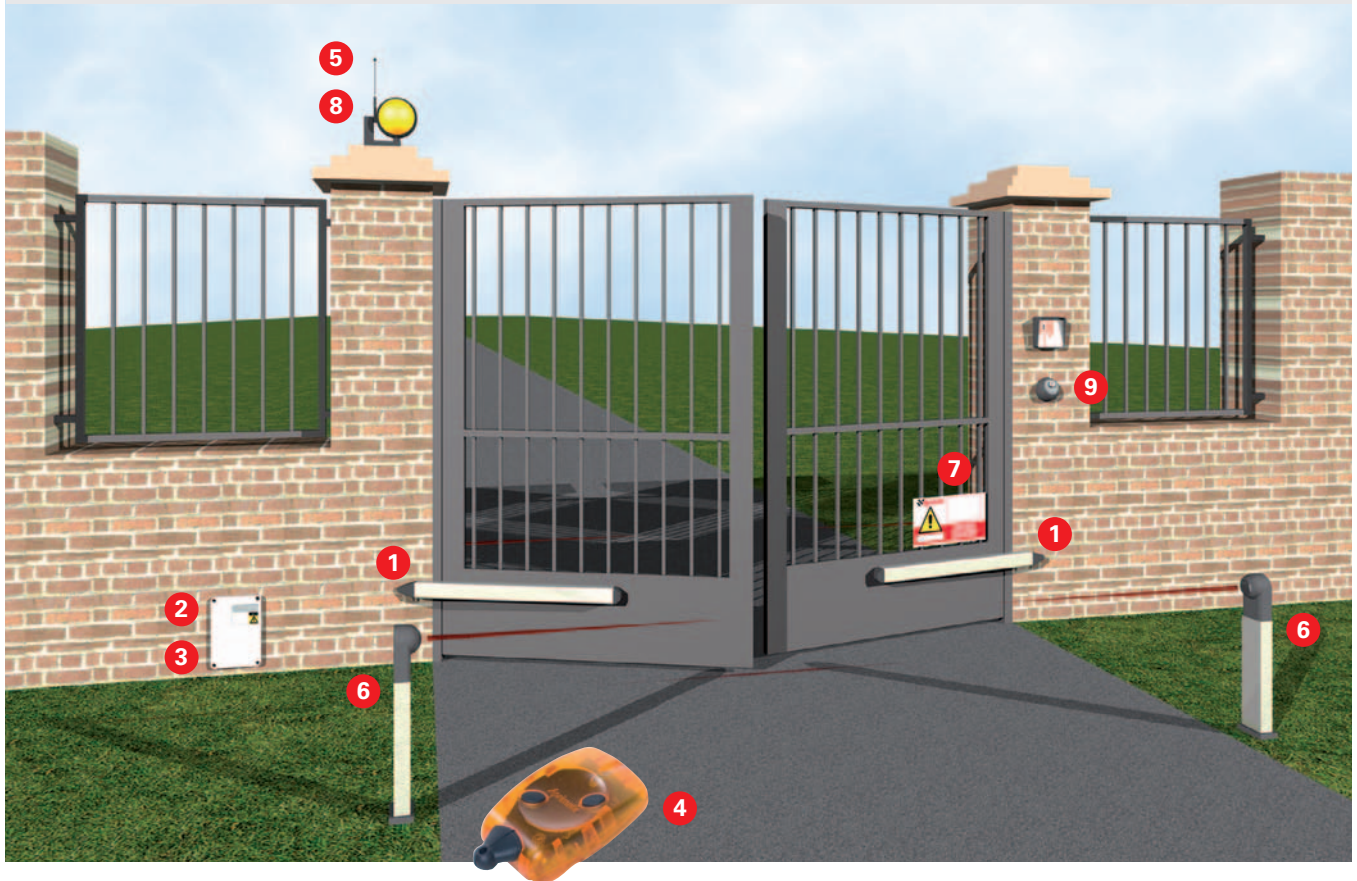
(*) Product certified under ideal installation conditions.





KIT MONTREAL RAIDER 2000

SYSTEM TYPE



DESCRIPTION	Max. leaf width	CODE	EURO
KIT Montreal RAIDER 2000	1,8 m*	41027/801	576,00
The package contains:			
<ul style="list-style-type: none"> ① Two RAIDER 2000 operators with hexagonal release keys ② Dedicated electronic control unit ③ 433,92 Mhz receiver (PL_ECO) ④ TR2 - 433,92 Mhz twin channel transmitter ⑤ Antenna 433,92 Mhz with a 4,5 m coaxial cable ⑥ ER4N - Pair of photocells ⑦ Aprimatic sign plate ⑧ Flashing light (optional) ⑨ Opening devices (optional) 			
KIT RACING Montreal RAIDER 2000 (Including 24 V flashing light and key-switch) in full coloured box	1,8 m*	41027/800	637,00
* For leaf longer than 1,8 meters is recommended the use of an electric lock.			

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Back up battery	41702/003	58,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT SEPANG RAIDER ONE SMT

Low-voltage, electromechanical operator for swing gates. Residential and condominium use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with EN12453 and EN12445 (*).

Control unit with self learning programming and possibility of setting the parameters through a simple and intuitive menu.

The front mounting features uniball type, allows to adjust gate oscillations. The rear articulated joint allows the adjustment of leaf anomalies.

The rear articulated joint allows the adjustment of leaf anomalies.

Emergency power supply, in the event of power failure, guaranteed by two optional emergency batteries.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER MAX.	100 W each motor
ABSORBED CURRENT	5,0 A each motor
MAX. THRUST FORCE	2500 N
PISTON STROKE	300 mm
ROD EXIT TIME	16 mm/sec.
90° OPENING TIME	15 sec.
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WIDTH WITH ELECTRIC LOCK	3 m
MAX. LEAF WEIGHT	600 kg (for leaf 2 m) 400 kg (for leaf 3 m)
MAX. NUMBER CYCLES	100 cycles/day
ANTI-CRUSH SAFETY DEVICE	Electronic
PROTECTION CLASS	IP44

(*) Product certified under ideal installation conditions.

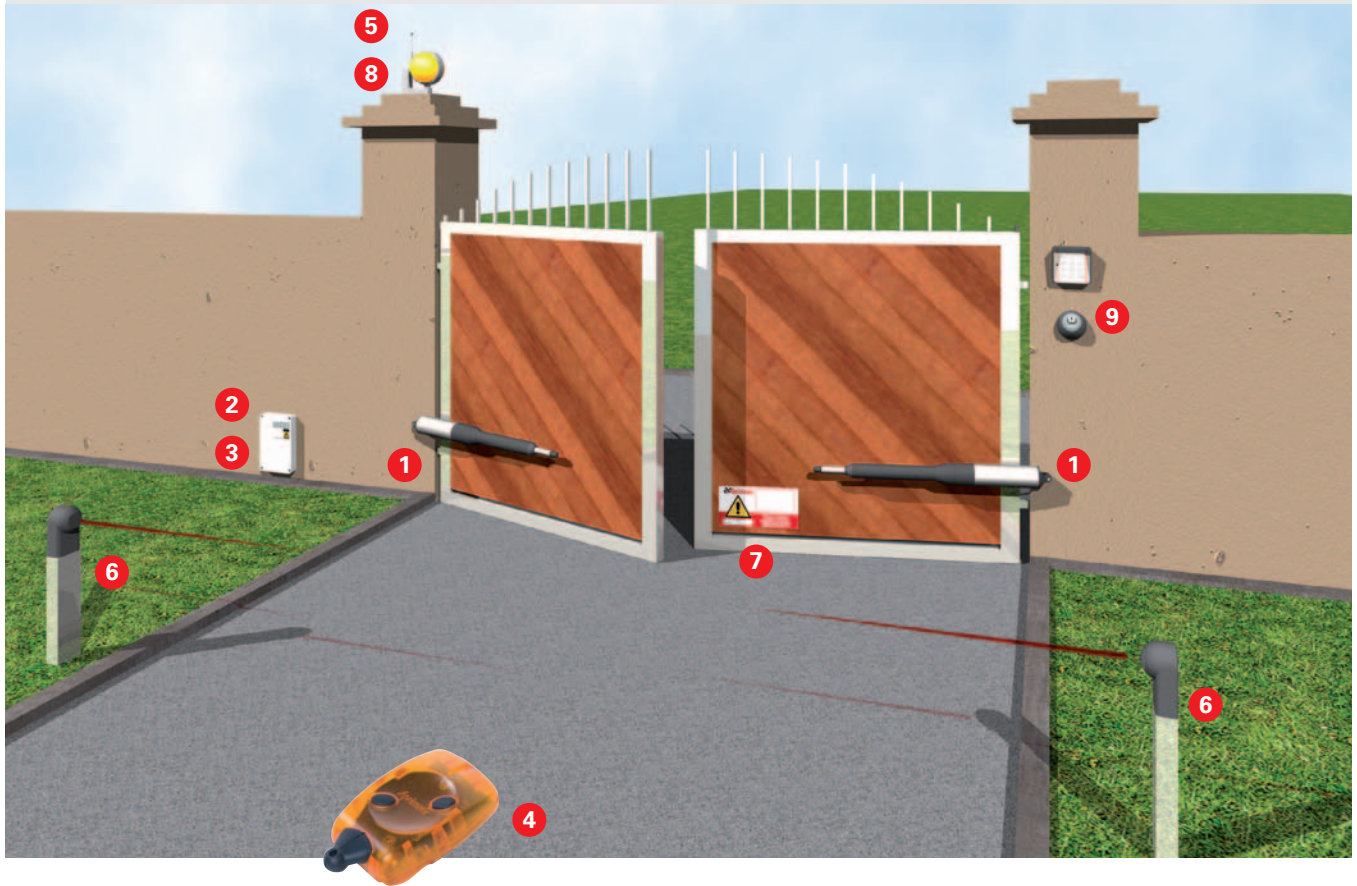
Uniball Bracket





KIT SEPANG RAIDER ONE SMT

SYSTEM TYPE



DESCRIPTION	Max. leaf width	CODE	EURO
KIT Sepang RAIDER ONE SMT	1,8 m*	41024/804	762,50
The package contains:			
<ul style="list-style-type: none"> ① Two RAIDER ONE SMT operators ② Dedicated electronic control unit ③ 433,92 MHz receiver ④ TR2 - 433,92 Mhz twin channel transmitter ⑤ Antenna 433,92 Mhz with a 4,5 m coaxial cable ⑥ ER4N - Pair of photocells ⑦ Aprimatic sign plate 			
<ul style="list-style-type: none"> ⑧ Flashing light (optional) ⑨ Opening devices (optional) 			
KIT RACING Sepang RAIDER ONE SMT (Including 24 V flashing light and key-switch) in full coloured box	1,8 m*	41024/803	822,00
* For leaf longer than 1,8 meters is recommended the use of an electric lock.			

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Aluminium cover RAIDER ONE (for one operator)	41024/050	23,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Back up battery	41702/003	58,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT MELBOURNE RAIDER ONE

Low-voltage, electromechanical operator for swing gates.
Condominium use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN12453** and **EN12445 (*)**.

Control unit with self learning programming and possibility of setting the parameters through a simple and intuitive menu.

The front mounting features uniball type, allows to adjust gate oscillations. The rear articulated joint allows the adjustment of leaf anomalies.

Motor with intelligent encoder to control the limit switch fitted as an optional on systems without floor stops.

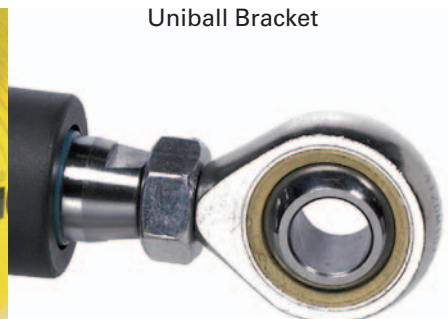
The new Gate Manager diagnostics and programming software is used to display and optimise all operator parameter settings during operation. This is done from a PC fitted with the USB interface card. (Only for Firmware version 1.03 or later).

Service continuity guaranteed, in case of power failure by two optional emergency battery.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER MAX.	120 W each motor
ABSORBED CURRENT	5,0 A each motor
MAX. THRUST FORCE	3000 N
PISTON STROKE	300 mm
ROD EXIT TIME	16 mm/sec.
90° OPENING TIME	15 sec.
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WIDTH WITH ELECTRIC LOCK	3,0 m
MAX. LEAF WEIGHT	800 kg (for leaf 2 m) 400 kg (for leaf 3 m)
MAX. NUMBER CYCLES	100 cycles/day
ANTI-CRUSH SAFETY DEVICE	Electronic
PROTECTION CLASS	IP44

(*) Product certified under ideal installation conditions.

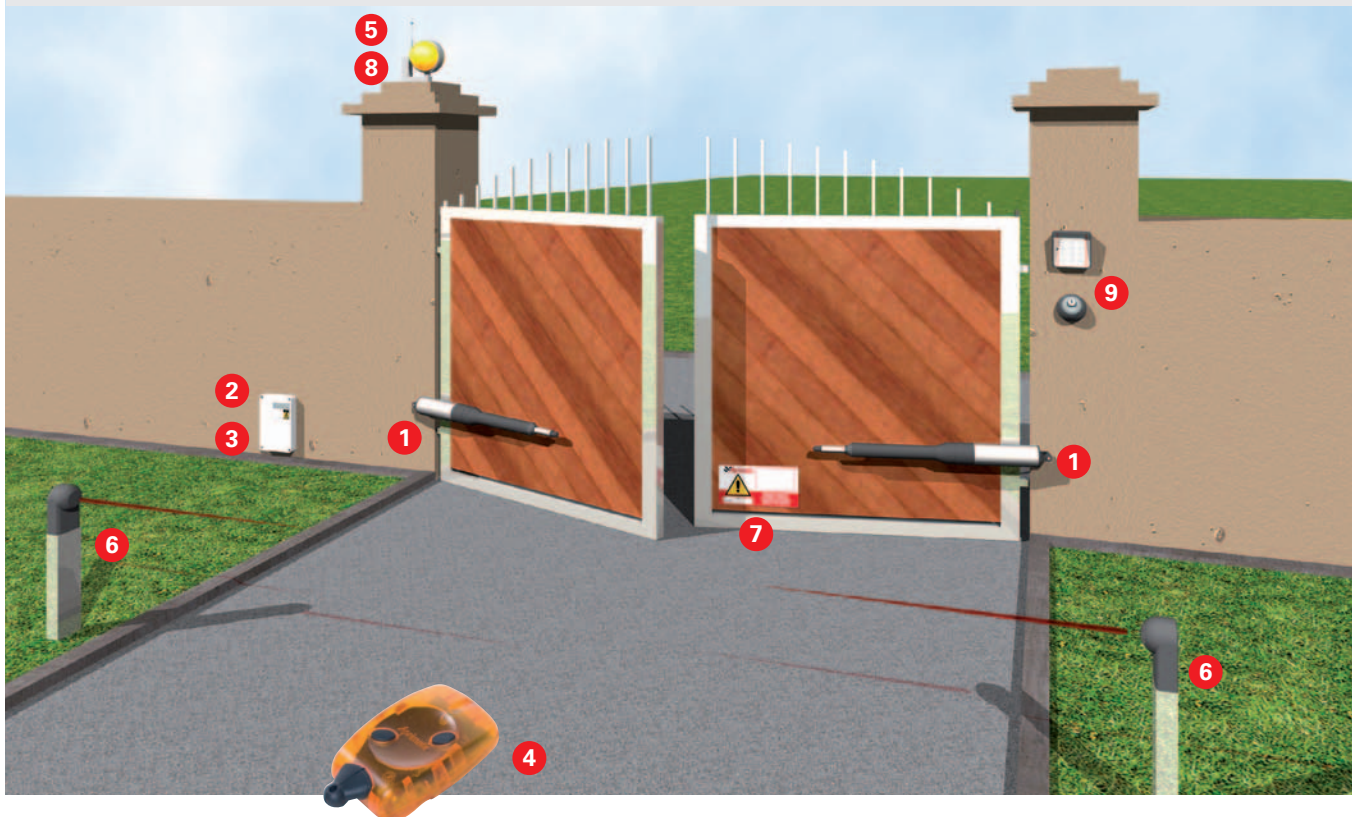


Uniball Bracket



KIT MELBOURNE RAIDER ONE

SYSTEM TYPE



DESCRIPTION	Max. leaf width	CODE	EURO
KIT Melbourne RAIDER ONE	1,8 m*	41024/802	911,00
The package contains:			
① Two RAIDER ONE operators			
② Dedicated electronic control unit			
③ 433,92 Mhz receiver			
④ TR2 - 433,92 Mhz twin channel transmitter			
⑤ Antenna 433,92 Mhz with a 4,5 m coaxial cable			
⑥ ER4N - Pair of photocells			
⑦ Aprimatic sign plate			
⑧ Flashing light (optional)			
⑨ Opening devices (optional)			
KIT RACING Melbourne RAIDER ONE (Including 24 V flashing light and key-switch) in full coloured box	1,8 m*	41024/800	976,50
6 Wire cable (length 10 m) - needed to connect the operator to the control unit		41024/052	42,50
* For leaf longer than 1,8 meters is recommended the use of an electric lock.			

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Limit switch Kit RAIDER ONE	41024/051	33,00
Aluminium cover RAIDER ONE (for one operator)	41024/050	23,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Back up battery	41702/003	58,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT DAYTONA SKIPPER

Low-voltage Kit for swing gates
electro-mechanical operator with articulated arm.
Residential use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN12453** and **EN12445 (*)**.
Control unit with self learning programming.

Simple and easy to install, ideal for gates with big pillars and for aluminium, wood and PVC gates. Allows gate opening up to 120° max. The operators are equipped with mechanical limit-switches to adjust the stroke.

Built-in control unit with self-learning programming and possibility of adjusting the parameters by means of a simple and intuitive menu.

Emergency release positioned on the side of the operator. It can be remotized to allow the release from the outside.

TECHNICAL DATA

EQUIPMENT POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	70 W max. each motor
ABSORBED CURRENT	4 A max. each motor
MAX. THRUST FORCE	150 Nm
90° OPENING TIME	15 sec.
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	2,3 m
MAX. LEAF WIDTH WITH ELECTRIC LOCK	3 m
IRREVERSIBLE	Yes
NUMBER OF DAILY CYCLES	80 max.
MAX. LEAF OPENING ANGLE	120°
PROTECTION CLASS	IP44

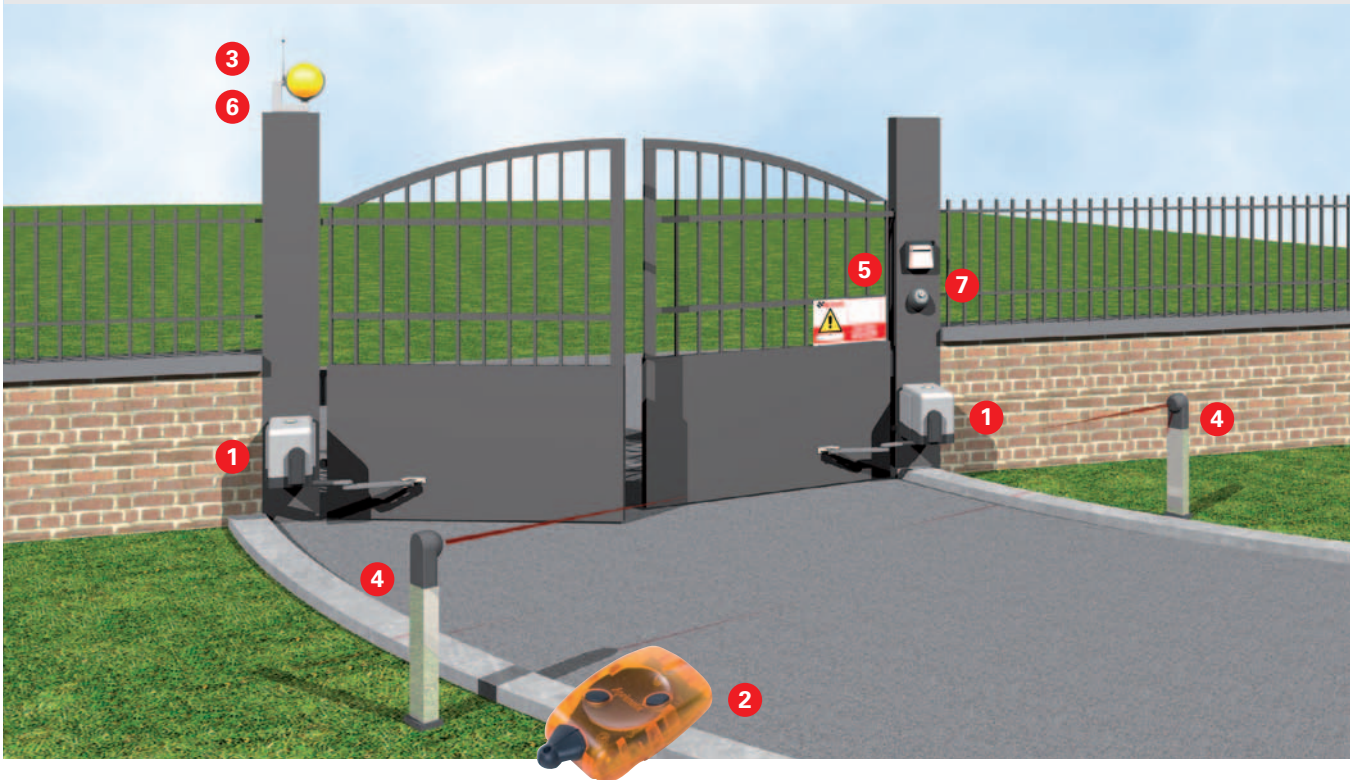
(*) Product certified under ideal installation conditions.





KIT DAYTONA SKIPPER

SYSTEM TYPE



DESCRIPTION	Max. leaf width	CODE	EURO
KIT Daytona SKIPPER	2,3 m (without electric lock)* 3,0 m (with electric lock)	41022/802	921,00
The package includes:			
<ul style="list-style-type: none"> ① Two SKIPPER 24V, electro-mechanical, non reversible, articulated arms with 1 dedicated control unit 433,92 Mhz radio receiver built-in ② TR 2 - 433,92 Mhz twin-channel transmitter ③ Antenna 433,92 Mhz with a 4,5 m coaxial cable ④ ER4N - Pair of photocells ⑤ Aprimatic sign plate ⑥ Flashing light (optional) ⑦ Opening devices (optional) 			
KIT RACING Daytona SKIPPER (Including 24 V flashing light and key-switch) in full coloured box	2,3 m (without electric lock)* 3,0 m (with electric lock)	41022/800	976,50
* For leaf longer than 2,3 meters is recommended the use of an electric lock.			

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Long Lever (ideal for large pillars)	41022/050	95,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Back up battery	41702/003	58,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
CS - External strongbox	41704/002	64,00
CSP - Wall-mounted external strongbox	41704/004	53,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT MONACO ZT4

Kit for swing gates
for residential and condominium use.
Hydraulic operator for gate leaf up to 3 m.



Anti-crush system with very sensitive bypass valves calibrated during installation. This immediately cuts the hydraulic pressure in the event of obstacles to ensure maximum system safety.

Maximum reliability thanks to the sturdiness of the operator.

Front and rear mountings to enable screw assembly also on wood, PVC and aluminium gates.

Manual key release located on the upper part of the operator in the event of mains power supply failure.

The articulated fork rear flange ensures flexible and sturdy assembly on the pillar.

The neoprene power supply cable is specifically suited to mobile applications in outdoor environments.

TECHNICAL DATA

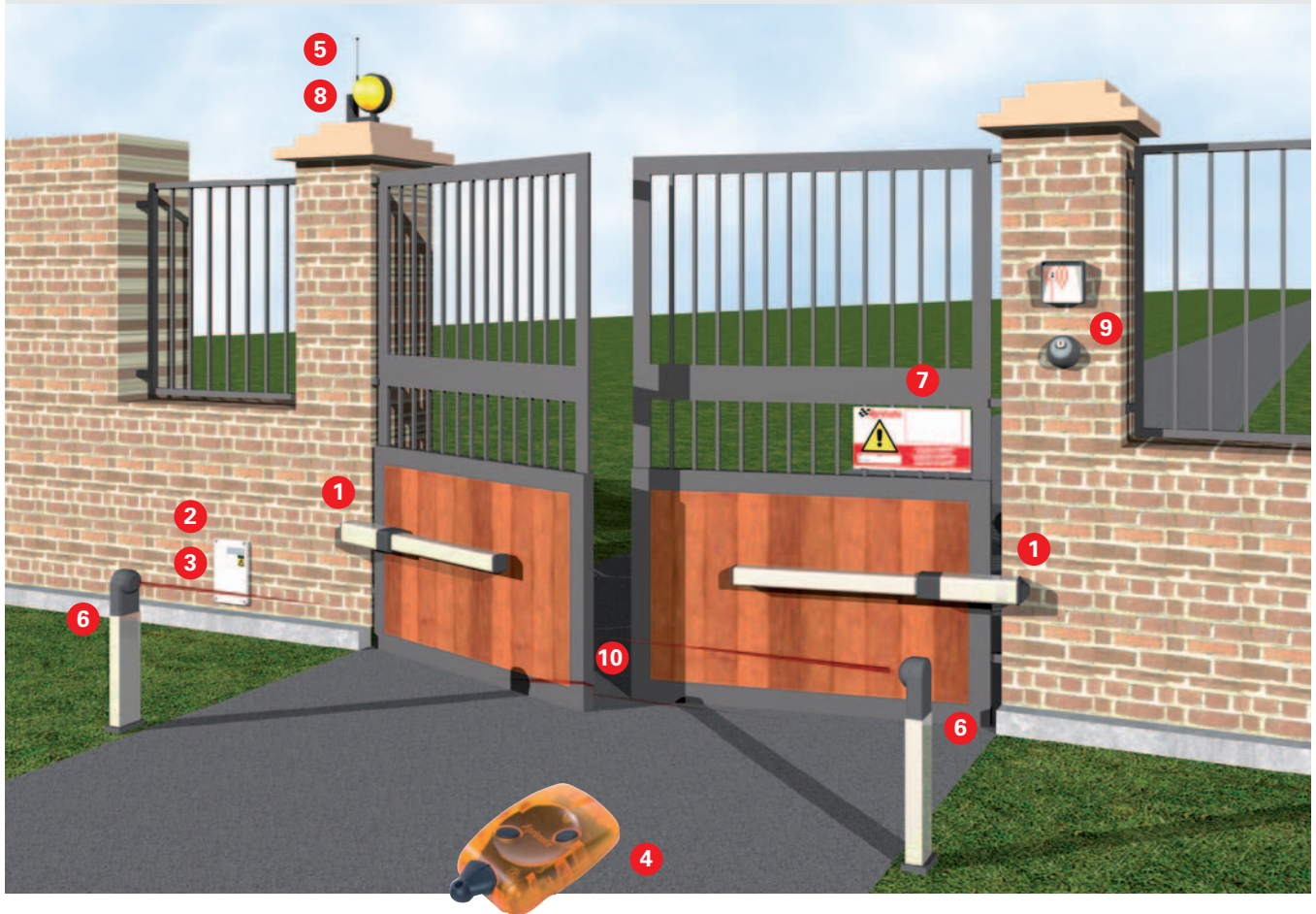
POWER SUPPLY	230 Vac - 50/60 Hz
ABSORBED POWER	250 W
MAX. THRUST FORCE	3850 N
KEY RELEASE	YES
NUMBER OF CYCLES/DAY	200
MAX. LEAF WIDTH	3.0 m with ES3 - 1.8 m (B)
ANTI-CRUSH SYSTEM	YES
STANDARD MAX. ROD STROKE	275 mm
OPENING TIME	15 sec.
OPERATING TEMPERATURE	-20°C to +70°C
OVERLOAD TEMPERATURE	120° C
PROTECTION CLASS	IP55





KIT MONACO ZT4

SYSTEM TYPE



DESCRIPTION	CODE	EURO
KIT Monaco ZT 4	41006/803	998,50
The package includes:		
① Two hydraulic ZT4 B operators with hydraulic locking in open/closed position		
② T11 - Control unit		
③ Built-in 433,92 Mhz Unico Memory System SE radio receiver (super-heterodyne version)		
④ TR2 - 433,92 Mhz twin-channel transmitter		
⑤ Antenna 433,92 Mhz with a 4,5 m coaxial cable		
⑥ ER4N - Pair of photocells		
⑦ Aprimatic sign plate		
⑧ Flashing light (optional)		
⑨ Opening devices (optional)		
⑩ Electronic lock (optional)		
KIT RACING Monaco ZT 4 (Including flashing light and key-switch) in full coloured box	41006/801	1.067,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433,92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
ET2N - 24 V flashing light	41840/006	36,50
PC12E - Key switch for wall mounting	41830/007	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT ZT44RF

Kit for swing gates with intensive use.
Hydraulic operator suitable for gate leaf up to 4 m.



Unique on the market with
oil flow regulator system.

Double valve flow adjustment device for regulating gate opening and closing speeds. Compensates for the unbalanced loads created by wind and out of plumb installation of very light and medium heavy gates.

Hydraulic braking system adjustable during installation, to ensure slow wing approach preventing noise and mechanical stress to the structure.

Anti-crush system with very sensitive bypass valves calibrated during installation. This immediately cuts the hydraulic pressure in the event of obstacles to ensure maximum system safety.

The emergency release system ensures good burglary protection thanks to the personalised key. It is protected by the upper cover and does not alter the attractive lines of the operator.

The aluminium articulated fork rear flange ensures flexible and sturdy assembly on the pillar.

TECHNICAL DATA

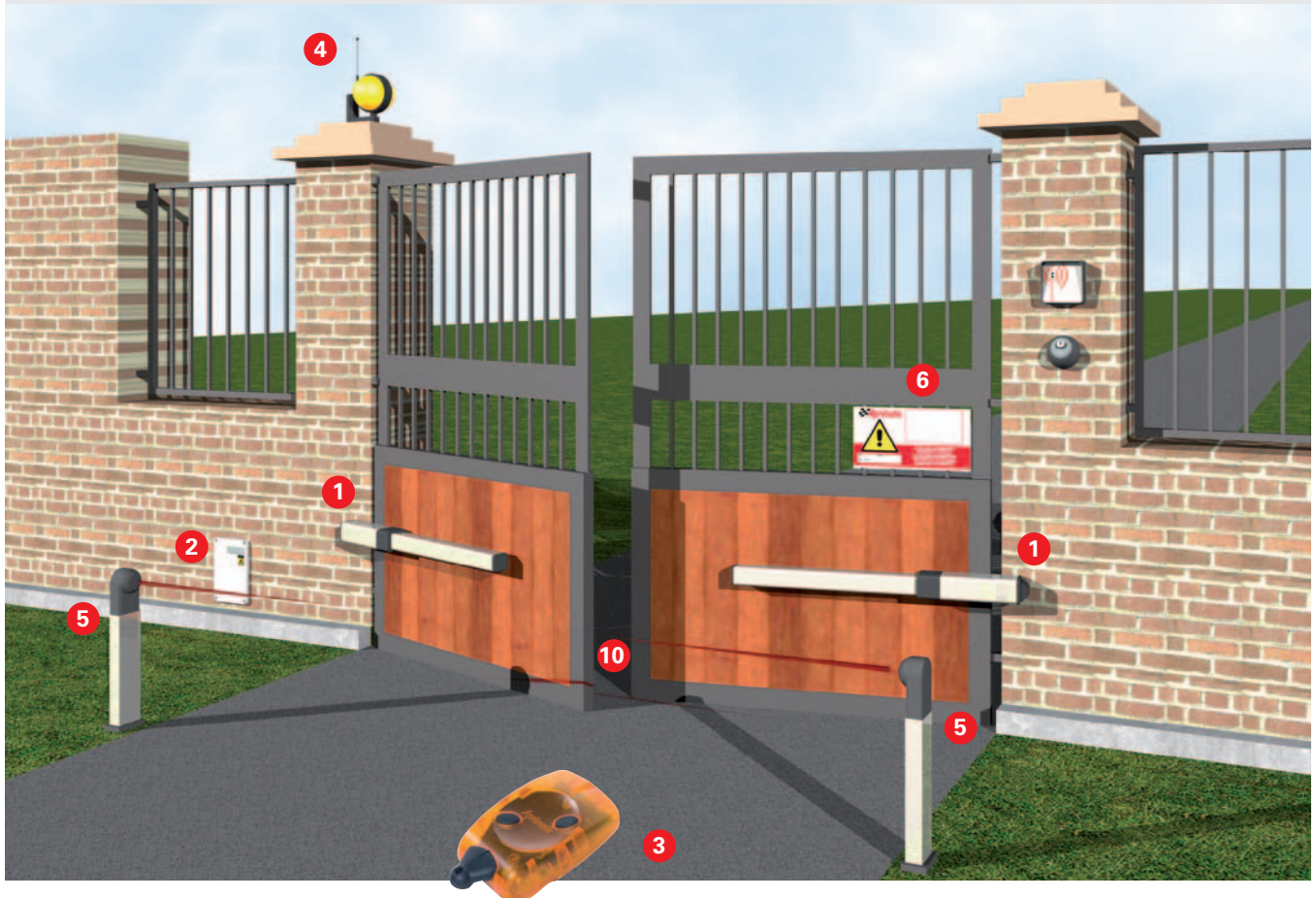
POWER SUPPLY	230 Vac - 50/60 Hz
ABSORBED POWER	250 W
MAX. THRUST FORCE	3850 N
KEY RELEASE	YES
SLODOWN	YES
NUMBER OF CYCLES/DAY	800
MAX. LEAF WIDTH	4.0 m with ES3 - 1.8 m (B, C, A)
ANTI-CRUSH SYSTEM	YES
STANDARD MAX. ROD STROKE	275 mm
OPENING TIME	20 sec.
OPERATING TEMPERATURE	-20°C to +70°C
OVERLOAD TEMPERATURE	120° C
PROTECTION CLASS	IP55





KIT ZT44RF

SYSTEM TYPE



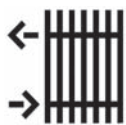
DESCRIPTION	CODE	EURO
KIT ZT 44 RF	41009/802	1.103,50

The package includes:

- ① Two hydraulic ZT44 B RF operators with hydraulic locking in open/closed position
- ② T11 - Control unit
- ③ Built-in 433,92 Mhz Unico Memory System SE radio receiver (super-heterodyne version)
- ④ TR2 - 433,92 Mhz twin-channel transmitter
- ⑤ Antenna 433,92 Mhz with a 4,5 m coaxial cable
- ⑥ ER4N - Pair of photocells
- ⑦ Aprimatic sign plate
- ⑧ Flashing light (optional)
- ⑨ Opening devices (optional)
- ⑩ Electronic lock (optional)

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
ET2N - 24 V flashing light	41840/006	36,50
PC12E - Key switch for wall mounting	41830/007	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT MONZA ONDA 424

Low-voltage Kit for sliding gates up to 400 kg.
Residential use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement. Maximum anti-crush safety due to the electronic torque adjustment combined with encoder technology, which also guarantees a gradual approach during the opening and closing movements.

Continuity of operation guaranteed, in the event of a power failure, by a set of optional batteries which may be fitted in the operator casing.

Easy to install, thanks to the eyelets and screws fitted in the foundation plate for a precise positioning of the operator.

Worm screw gear motor with permanent lubrication, aluminium body and on board electronic control unit.

Emergency release lever with customised key, for use during power supply failures.

TECHNICAL DATA

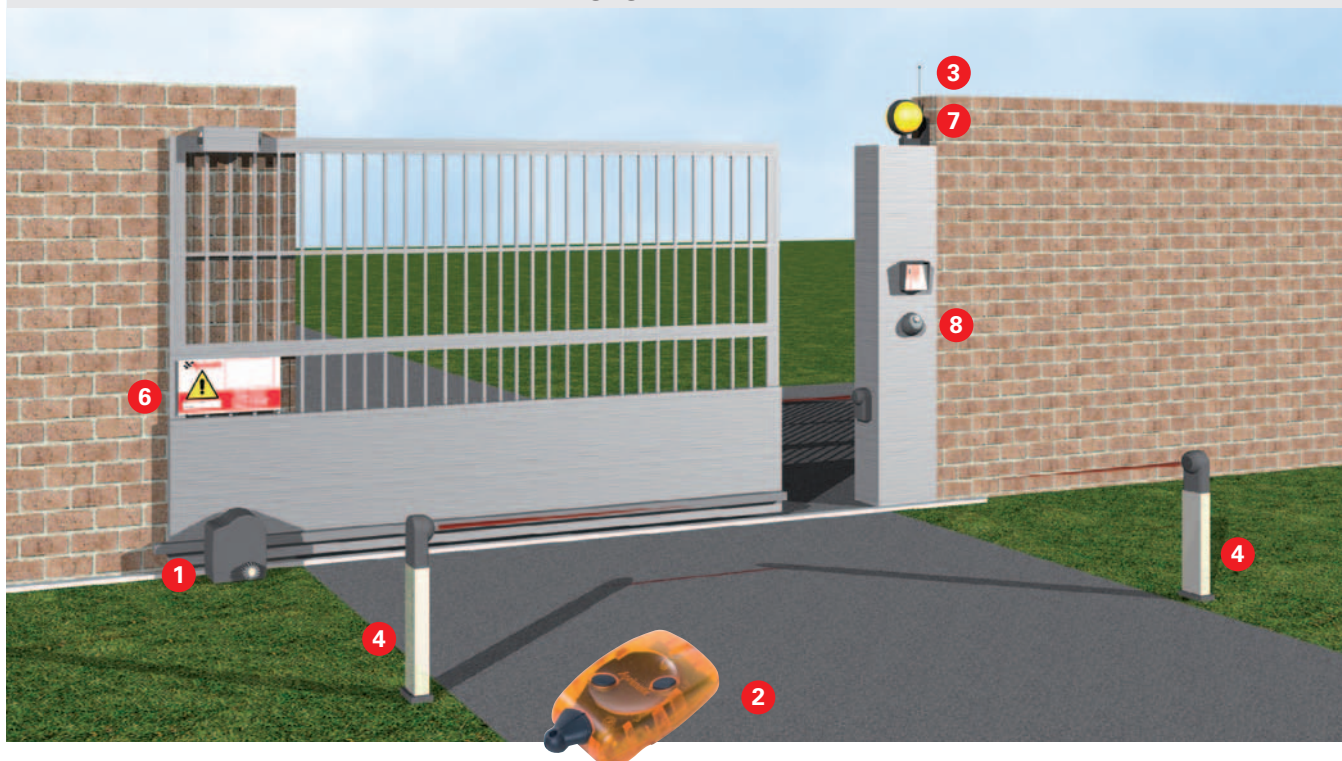
POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc (with encoder)
ABSORBED POWER	80 W
ABSORBED CURRENT	4,2 A
MAX. THRUST FORCE	450 N
MAX. LINEAR SPEED	10 m/min.
OPERATING TEMPERATURE	-20°C to +55°C
MAX. GATE WEIGHT	400 kg
HEIGHT OF PINION FROM GROUND	70 mm
GEAR MOTOR WEIGHT	4,2 kg
MAX. NO. CYCLES	100 cycles/day
PROTECTION CLASS	IP44





KIT MONZA ONDA 424

SYSTEM TYPE



DESCRIPTION	CODE	EURO
KIT Monza ONDA 424	41101/802	496,50
The package includes:		
① ONDA 424 operator with on board electronic control unit 433,92 Mhz radio receiver (super-heterodyne version)		
② TR2 - 433,92 Mhz twin-channel transmitter		
③ Antenna 433,92 Mhz with a 4,5 m coaxial cable		
④ ER4N - Pair of photocells		
⑤ Customised release key		
⑥ Aprismatic sign plate		
⑦ Flashing light (optional)		
⑧ Opening devices (optional)		
KIT RACING Monza ONDA 424 (Including flashing light and key-switch) in full coloured box	41101/800	531,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433.92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Back up battery (nr. 2 batteries 12V-1,3Ah)	41102/050	64,00
Battery charger card	41100/050	21,00
ET2N - 24 V flashing light	41840/006	36,50
PC12E - Key switch for wall mounting	41830/007	24,00
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
Aprismatic plastic rack with 5 m steel core for use of up to a maximum of 500 kg	41180/052	67,00
Aprismatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT HOCKENHEIM ONDA 624

Low-voltage Kit for sliding gates.
Residential use for gates up to 600 kg,
condominium use for gates up to 400 kg.



Complies with the current safety standards as regard to obstacle detection and inversion of movement. Maximum anti-crush safety due to the electronic torque adjustment combined with encoder technology, which also guarantees a gradual approach during the opening and closing movements.

Continuity of operation guaranteed, in the event of a power failure, by a set of optional batteries which may be fitted in the operator casing.

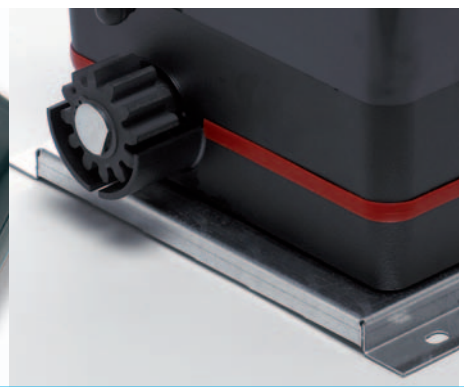
Easy to install, thanks to the eyelets and screws fitted in the foundation plate for a precise positioning of the operator.

Worm screw gear motor with permanent lubrication, aluminium body and on board electronic control unit.

Emergency release lever with customised key, for use during power supply failures.

TECHNICAL DATA

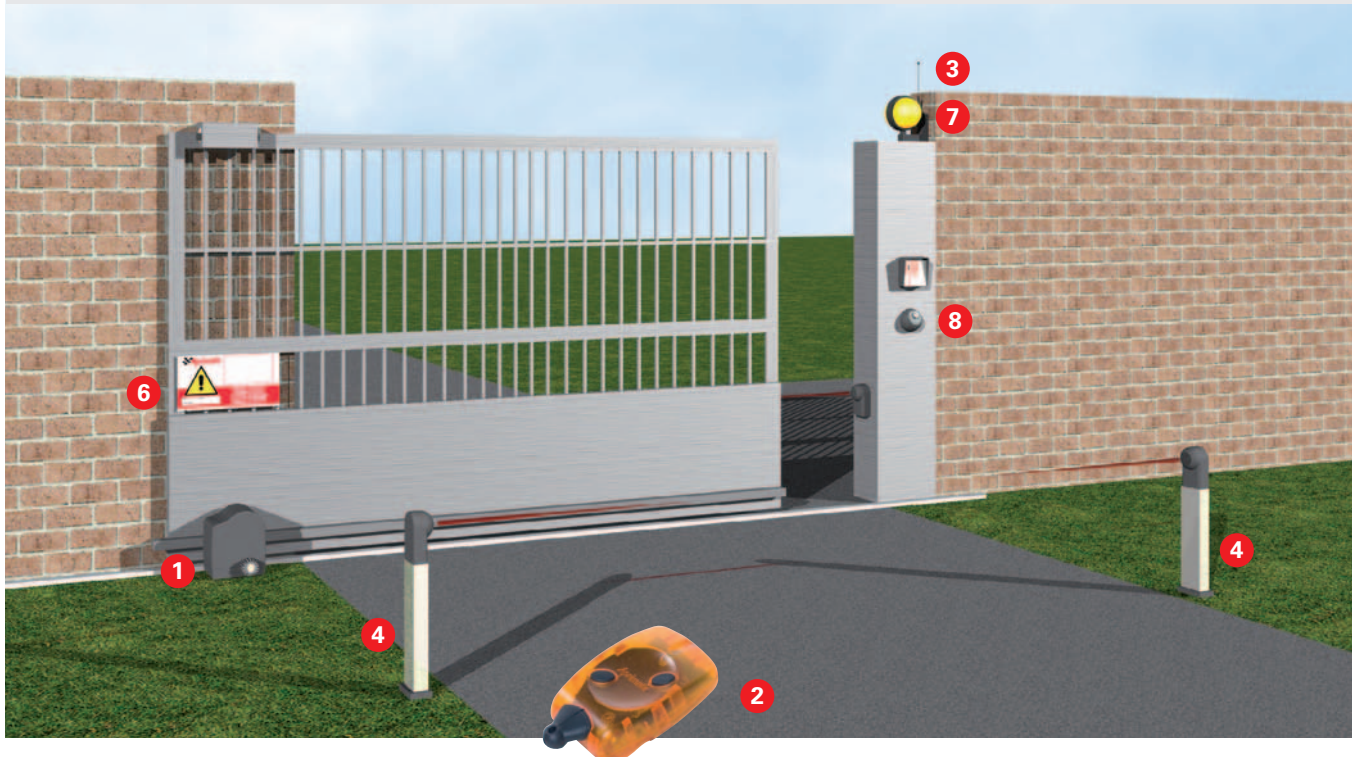
POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc (with encoder)
ABSORBED POWER	80 W
ABSORBED CURRENT	4,2 A
MAX. THRUST FORCE	650 N
MAX. LINEAR SPEED	10 m/min.
OPERATING TEMPERATURE	-20°C to +55°C
MAX. GATE WEIGHT	600 kg
HEIGHT OF PINION FROM GROUND	70 mm
GEAR MOTOR WEIGHT	4,2 kg
MAX. NO. CYCLES	100 cycles/day
PROTECTION CLASS	IP44





KIT HOCKENHEIM ONDA 624

SYSTEM TYPE



DESCRIPTION	CODE	EURO
KIT Hockenheim ONDA 624	41102/802	521,00
The package includes:		
① ONDA 424 operator with on board electronic control unit 433,92 Mhz radio receiver (super-heterodyne version)		
② TR2 - 433,92 Mhz twin-channel transmitter		
③ Antenna 433,92 Mhz with a 4,5 m coaxial cable		
④ ER4N - Pair of photocells		
⑤ Customised release key		
⑥ Aprimatic sign plate		
⑦ Flashing light (optional)		
⑧ Opening devices (optional)		
KIT RACING Hockenheim ONDA 624 (Including flashing light and key-switch) in full coloured box	41102/800	607,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433.92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Back up battery (nr. 2 batteries 12V-1,3Ah)	41102/050	64,00
Battery charger card	41100/050	21,00
ET2N - 24 V flashing light	41840/006	36,50
PC12E - Key switch for wall mounting	41830/007	24,00
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
Aprimatic plastic rack with 5 m steel core for use of up to a maximum of 500 kg	41180/052	67,00
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT INDIANAPOLIS ONDA 801

Kit for sliding gates up to 800 kg.
Residential and condominium use.



Maximum safety thanks to the on-board electronic control unit with electronic torque adjustment incorporated. Additional card can be connected as an optional for auto-reverse safety system in the event of obstacles.

Reduced noise level and maximum performance for residential use.

Maximum reliability thanks to the use of stainless steel gears and a permanent lubrication of the system.

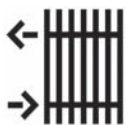
ONDA 801 Z16 gear motor with rack and pinion drive. Pitch 4 pinion and 16 teeth to move 500 kg gate for condominium use and 800 kg gate for residential use.

T22 electronic control unit on board and built-in Unico Memory System radio receiver (super-heterodyne version).

TECHNICAL DATA

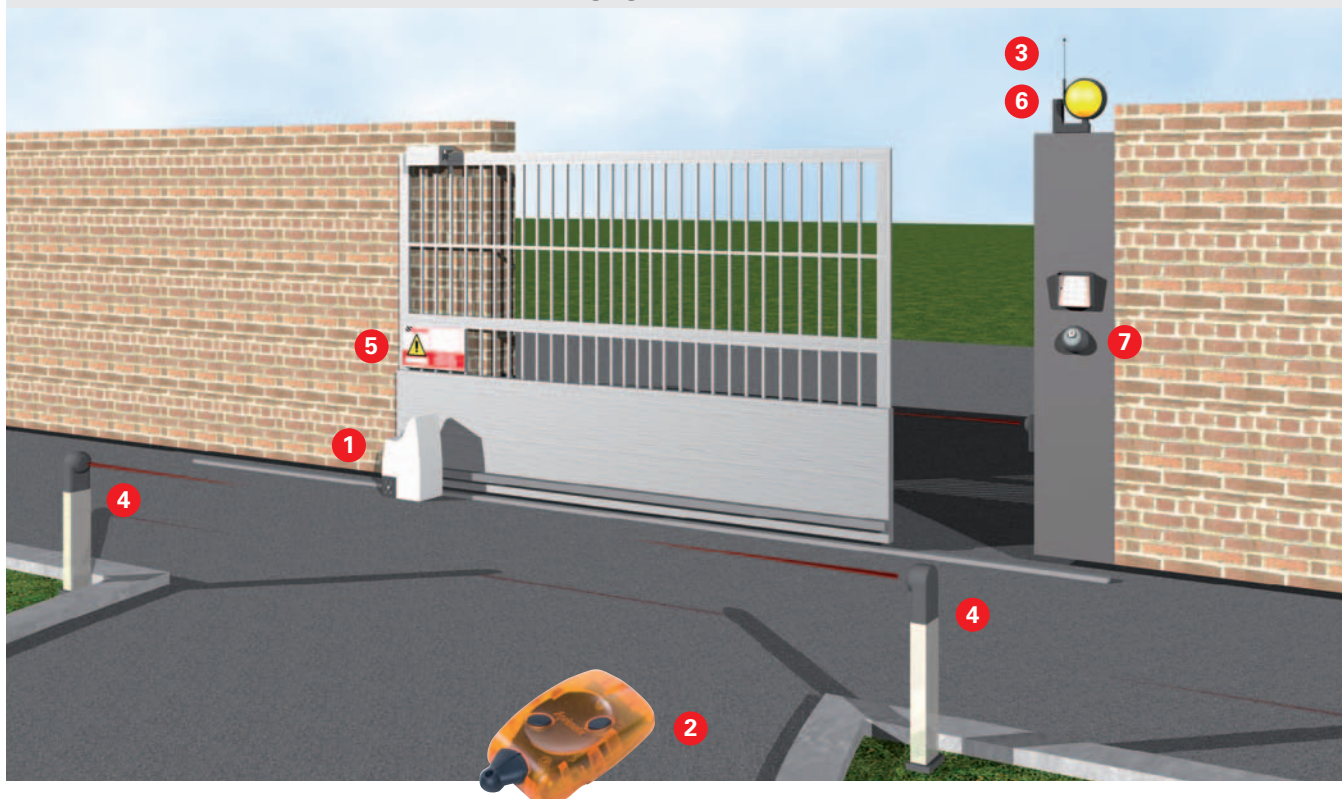
POWER SUPPLY	230 Vac - 50/60 Hz
ABSORBED POWER	260 W
ABSORBED CURRENT	1.6 A
MAX. THRUST FORCE	1250 N (Z16)
OPERATING TEMPERATURE	-20°C to +70°C
LINEAR SPEED	9.5 m/min. (Z16) 12.0 m/min. (Z20)
MAX. WING WEIGHT	800 kg (use residential) 400 kg (use condominium)
WEIGHT	10 kg
OVERLOAD TEMPERATURE	90° C
LUBRICANT TYPE	Shell TIVELA-GL00
PROTECTION CLASS	IP44





KIT INDIANAPOLIS ONDA 801

SYSTEM TYPE



DESCRIPTION	CODE	EURO
KIT Indianapolis ONDA 801	41127/801	637,00
The package includes:		
<ul style="list-style-type: none"> ① Onda 801 EZ16 operator with T22 control unit on board and built-in 433,92 Mhz Unico Memory System SE radio receiver (super-heterodyne version), two end-of-run cams mounted on rack, with release key ② TR2 - 433,92 Mhz twin-channel transmitter ③ Antenna 433,92 Mhz with a 4,5 m coaxial cable ④ ER4N - Pair of photocells ⑤ Aprismatic sign plate ⑥ Flashing light (optional), ⑦ Opening devices (optional) 		
KIT RACING Indianapolis ONDA 801 (Including flashing light and key-switch) in full coloured box	41127/800	719,00

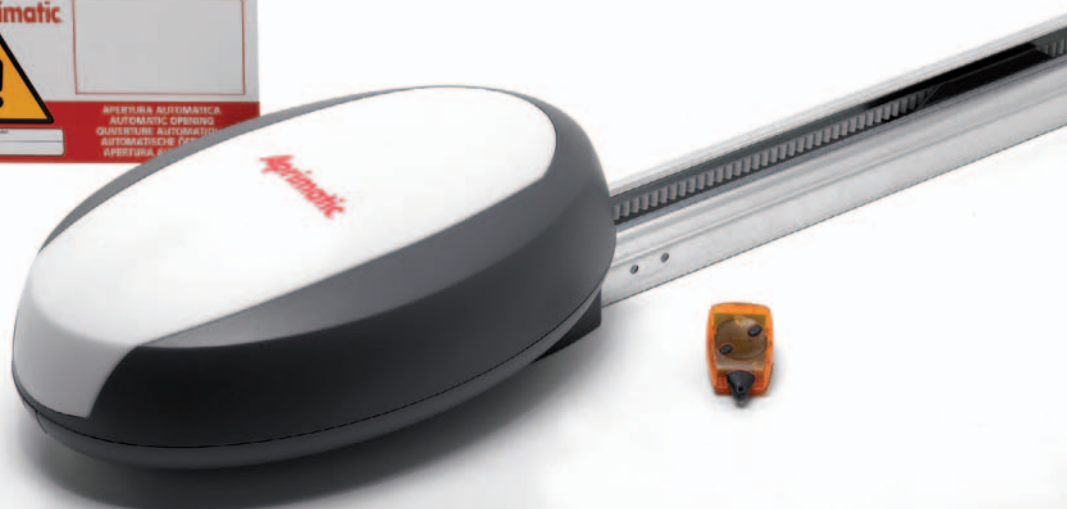
DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
ARC - Auto reverse card	41127/020	31,00
PF 501/801 - Foundation plate (pack of 4 pcs)	41126/051	14,50
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ET2N - 24 V flashing light	41840/006	36,50
PC12E - Key switch for wall mounting	41830/007	24,00
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
SB 500/800 - Personalised release key	41126/050	18,00
Aprismatic galvanized rack Pitch 4 complete with couplings (5 m)	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



KIT SUZUKA APRIBOX 700/1200

Low-voltage Kit for sectional and counterweight, up-and-over, garage doors.
Residential use.



Fitted with **mechanical stops** and encoder technology to ensure precise stop at end of stroke and protection against any failures.

Maximum anti-crush safety ensured by on-board electronic control unit with auto-reverse function in case of collision with an obstacle.

KIT APRIBOX 700 and KIT APRIBOX 1200 can also be used to automate counterweight, up-and-over, doors if installed with curved arms.

Slowdown system for gradual approach at the end of opening and closing phases, preventing banging and structural stress.

Timed courtesy light integrated onto the operator to light up the garage during opening and closing.

The belt drive guarantees excellent reliability, wear resistance and silent operation.

In the event of power failure, the continuity of operation is guaranteed by a set of optional batteries which can be fitted in the operator casing.

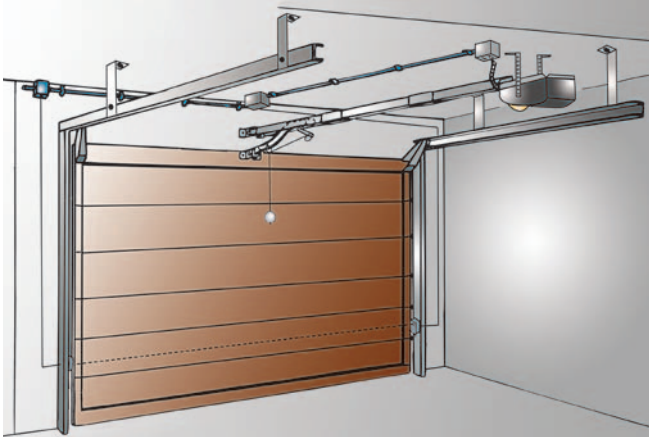
TECHNICAL DATA	APRIBOX 700	APRIBOX 1200
POWER SUPPLY	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vcc	24 Vcc
ABSORBED POWER	100 W	100 W
THRUST FORCE	650 N	1200 N
OPERATING TEMPERATURE	-20°C to +55°C	-20°C to +55°C
LINEAR SPEED	Adjustable from 9 to 16 cm/sec.	
DRIVE	Belt	Belt
TOTAL LENGTH (3 m guide)	3000 mm	3000 mm
USEFUL TRAVEL (3 m guide)	2400 mm	2450 mm
MINIMUM INSTALLATION DISTANCE FROM CEILING	40 mm	40 mm
MAX. DOOR SIZE	10 m ²	14 m ²
LIMIT SWITCH	Encoder with mechanical limit switch	



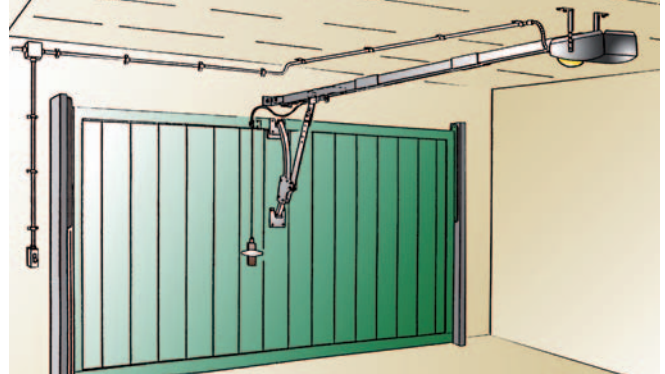


KIT SUZUKA APRIBOX 700/1200

**INSTALLATION DIAGRAM
FOR SECTIONAL DOORS**



**INSTALLATION DIAGRAM FOR
COUNTERWEIGHT, UP-AND-OVER, DOORS***



* This kind of application is only possible installing the curved arm. The up-and-over door must be perfectly balanced and must have a rigid structure.

DESCRIPTION	Max. door width	CODE	EURO
KIT Suzuka APRIBOX 700	10 m ²	41241/800	255,00
KIT Suzuka APRIBOX 1200	14 m ²	41241/801	321,00
Both packages include: APRIBOX motor On-board electronic control unit 433,92 Mhz super-heterodyne radio receiver TR2 - 433,92 Mhz twin-channel transmitter Aprimatic sign plate			

DESCRIPTION OF APRIBOX ACCESSORIES	CODE	EURO
Guide 3 m (1 pcs 3 m)	41241/050	162,50
Guide 3 m (2 pcs 1,5 m each)	41241/051	183,50
Guide 4 m (1 pcs 1 m and 1 pcs 3 m)	41241/052	243,00
Release cable	41241/054	32,50

DESCRIPTION OF APRIBOX OPTIONAL ACCESSORIES	CODE	EURO
Curved arm for Apribox	41241/056	160,00
Battery charge board kit + batteries	41241/055	84,50
Ceiling fixing bracket kit (optional)	41241/053	13,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ANT433 - 433,92 Mhz antenna with 4,5 m coaxial cable and earth connection	41929/001	16,50
ER - Pair of photocells 12V-24V	41817/002	61,00
ET2N - 24V flashing light	41840/006	36,50




NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).





SWING GATE AUTOMATION

EXTERNAL AUTOMATION						
MODELS	MAX. LEAF WIDTH	FREQUENCY OF USE			CICLES DAY	TECHNOLOGY
		RESIDENTIAL	CONDOMINIUM	CONTINUOS		
	RAIDER 2000	1,8 m	●		50	Electro-mechanical 24 V
	RAIDER 2500	3,0 m*				
	RAIDER ONE SMT	1,8 m		●	100	Electro-mechanical 24 V
	RAIDER ONE	3,0 m*				
	SKIPPER	2,3 m 3,0 m*	●		100	Electro-mechanical 24 V
	FLEXI 300	3 m	●		100	Electro-mechanical 24 V
	ZT 4	1,8 m	●	●	200	Hydraulic
		3,0 m*				
	ZT 44 RF	1,8 m	●	●	800	Hydraulic
		4,0 m*				
	ZT40 4M RF	2,0 m		●	1000	Hydraulic
		4,0 m*		●		
	ZT 40 7M RF	2,0 m		●	800	Hydraulic
		7,0 m*		●		
	FORTY 5500 4M	2,0 m 4,0 m		●	700	Hydraulic
	FORTY 5500 7M	2,0 m 7,0 m*		●	600	

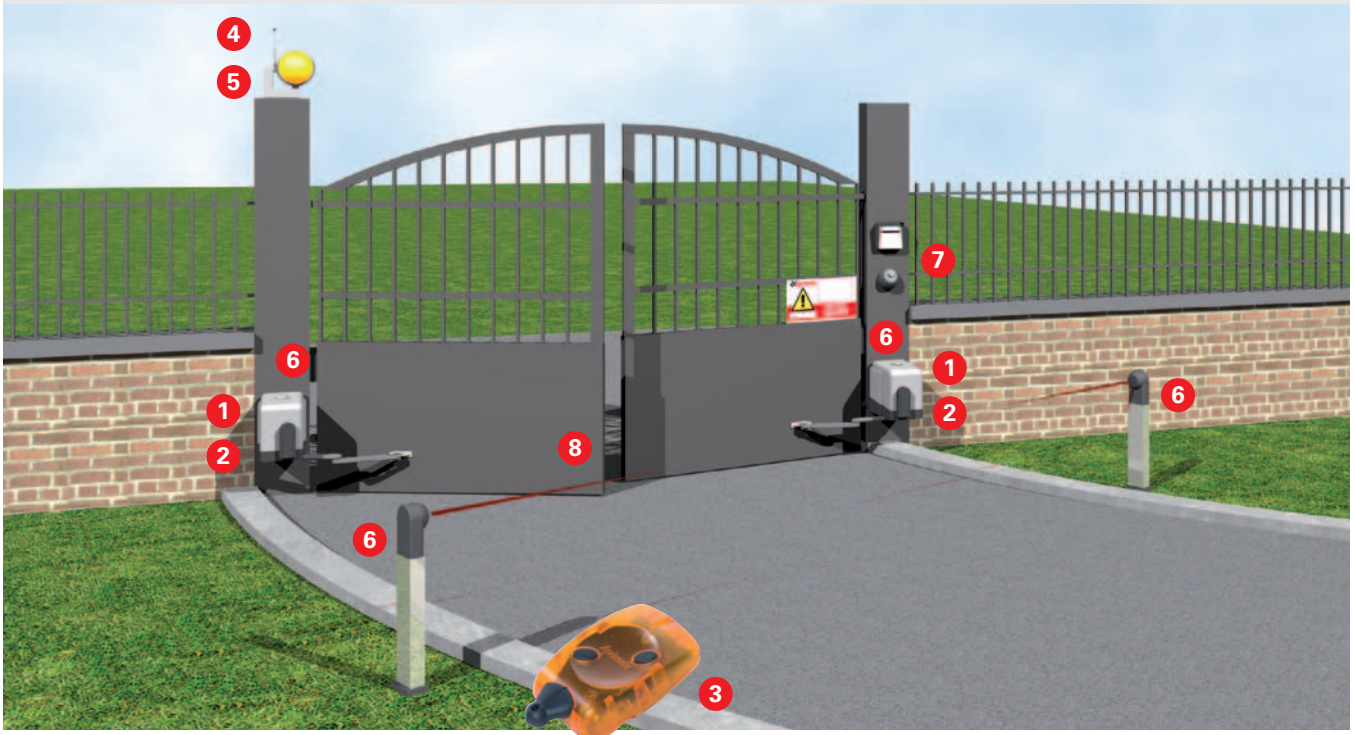
UNDERGROUND AUTOMATION						
	EM 73 N	1,8 m 3,5 m*	●		50	Electro-mechanical 24 V
	ZT 70	2,0 m	●	●	300	Hydraulic
		4,0 m*				
	ZT 71	2,0 m	●	●	300	Hydraulic
	ZT 72	4,0 m*				

* It's recommended the use of an electric lock. **See the legend on page 255 for the type of production versions.
NOTE: The above mentioned data refer to carefully installed and regularly maintained products.

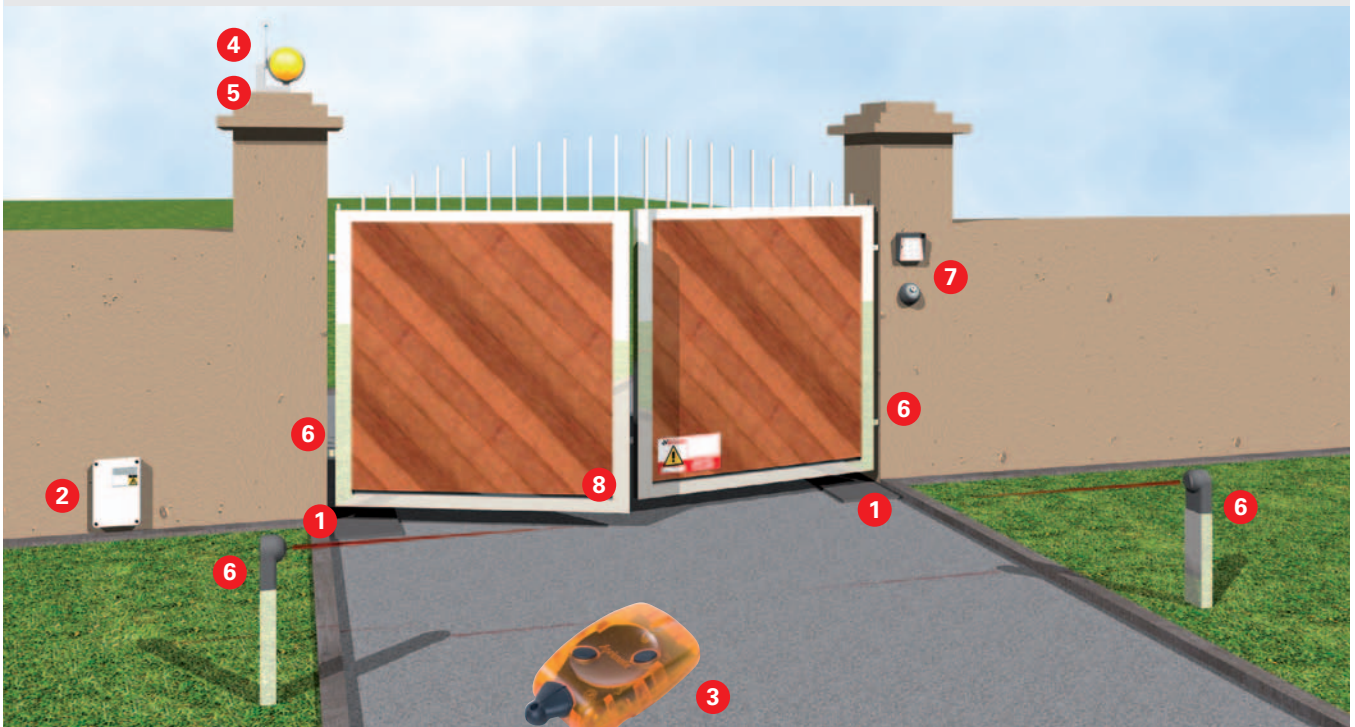


SWING GATE AUTOMATION

SYSTEM TYPE FOR EXTERNAL AUTOMATION



SYSTEM TYPE FOR UNDERGROUND AUTOMATION



- | | |
|---------------------------|---|
| 1 Operator | 5 Flashing lamp |
| 2 Electronic control unit | 6 Pair of photocells |
| 3 Transmitter | 7 Control device: key switch / proximity sensor access control / electronic key-pad / tamper-proof card / magnetic key reader |
| 4 Antenna 433,92 Mhz | 8 Electric lock |

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



RAIDER 2000

Low-voltage, electromechanical operator
for swing gates.
Residential use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN12453** and **EN12445 (*)**.

Control unit with self-learning programming and possibility of adjusting the parameters through a simple and intuitive menu.

Practical kits brackets included in the operator pack. The brackets can be either welded or fixed by the supplied screws for an easier and quicker installation.

The mechanical limit switches allow an optimal functioning even on gates without mechanical ground stops. The use of an electric lock is recommended for gate leaves longer than 1,8 metres.

The stroke of 400 mm makes the operator also suitable for more complex applications.

The small size and compact shape ensure harmonious aesthetic fusion between gate and automation.

NOTE: Not compatible with the previous version Raider!

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	100 W
ABSORBED CURRENT	5 A (max.)
MAX. THRUST FORCE	2000 N
PISTON STROKE	400 mm
LINEAR SPEED	16 mm/sec.
OPERATING TEMPERATURE	-20°C to +65°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WIDTH WITH ELECTRIC LOCK	3,0 m
MAX. LEAF WEIGHT	250 kg (for leaf 3 m) 400 kg (for leaf 1,8 m)
ANTI-CRUSH SAFETY DEVICE	Electronic
EMERGENCY RELEASE	Manual
PROTECTION CLASS	IP44

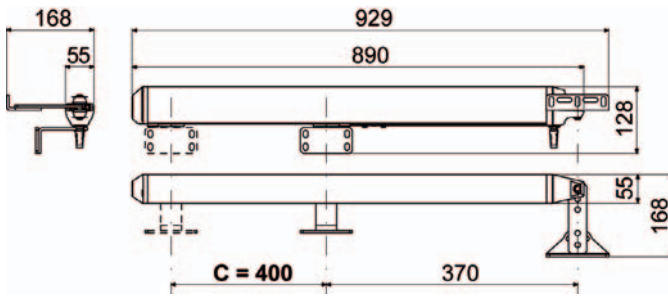
(*) Product certified under ideal installation conditions.



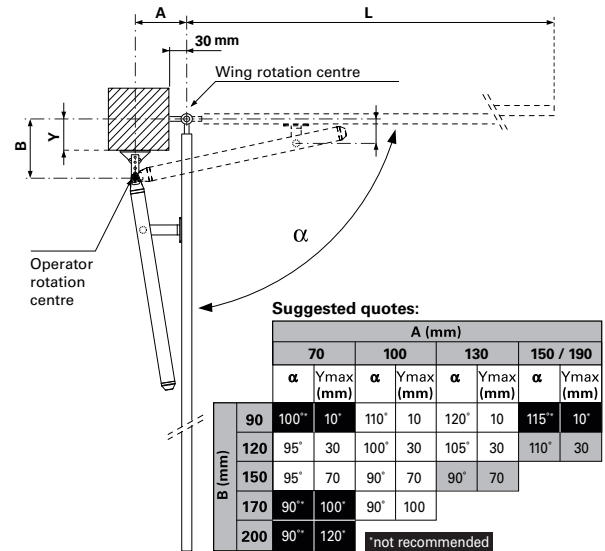


RAIDER 2000

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DESCRIPTION	Max. leaf width	CODE	EURO
RAIDER 2000 24V electro-mechanical operator including brackets and mechanical limit switches.	1,8 m*	41027/001	187,50
RSK 24-2000 - RAIDER CONTROL UNIT Electronic control unit for RAIDER 2000 operator without radio receiver.		41600/011	160,00

* For leaf longer than 1,8 meters is recommended the use of an electric lock.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
433,92 Mhz radio receiver Memory System	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433.92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
Kit Antenna 433,92 Mhz for ET2N/ET20N	41929/003	15,00
433,92 Mhz antenna	41929/001	16,50
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
Back up battery	41702/003	58,00

IDEAL INSTALLATION	Max. leaf width	Q.ty	CODE	EURO
SET RAIDER 2000 INT	1,8 m*	1	41027/802	460,50
The package contains: Two RAIDER 2000 operators with hexagonal release keys Dedicated electronic control unit Aprimatic sign plate				
ER4N - Pair of photocells		1	41812/001	61,00
Unico 433,92 Mhz Memory System radio receiver with antenna included		1	41923/009	76,50
TR2 - 433,92 Mhz twin-channel transmitter		1	41903/002	31,00
ET2N - 24 V flashing light		1	41840/006	36,50

* For leaf longer than 1,8 meters is recommended the use of an electric lock.

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



RAIDER 2500

Low-voltage, electromechanical operator
for swing gates.
Residential use.



Complies with the current safety standards as regards obstacle detection and inversion of movement.

The stroke of 400 mm makes the operator also suitable for more complex applications.

The mechanical limit switches allow an optimal functioning even on gates without mechanical ground stops.

Practical kits brackets included in the operator pack. The brackets can be either welded or fixed by the supplied screws for an easier and quicker installation.

Control unit with self-learning programming and possibility of adjusting the parameters through a simple and intuitive menu.

The small size and compact shape ensure harmonious aesthetic fusion between gate and automation.

The use of an electric lock is recommended for leaves longer than 1,8 metres.

TECHNICAL DATA

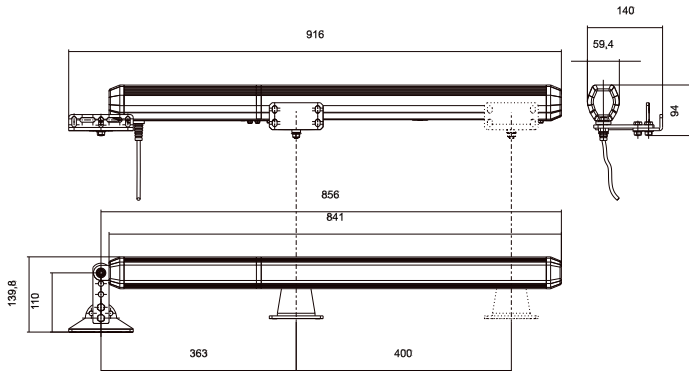
POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	100 W
ABSORBED CURRENT	5 A (max.)
MAX. THRUST FORCE	2500 N
PISTON STROKE	400 mm
LINEAR SPEED	16 mm/sec.
OPERATING TEMPERATURE	-20°C to +65°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WIDTH WITH ELECTRIC LOCK	3,0 m
MAX. LEAF WEIGHT	300 kg (for leaf 3 m) 500 kg (for leaf 2 m)
ANTI-CRUSH SAFETY DEVICE	Electronic
EMERGENCY RELEASE	Manual
PROTECTION CLASS	IP44



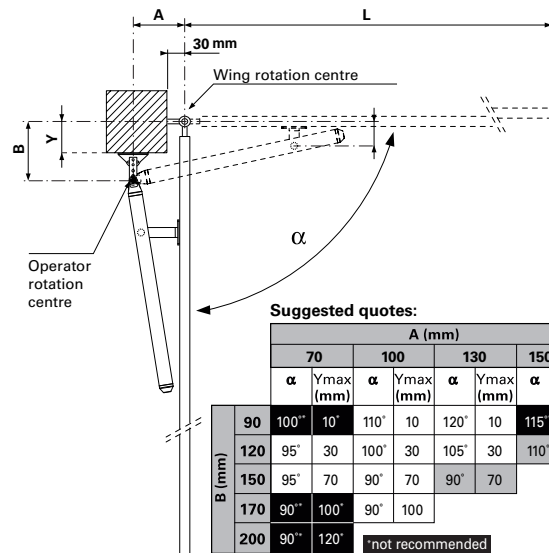


RAIDER 2500

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DESCRIPTION	Max. leaf width	CODE	EURO
RAIDER 2500 24V electro-mechanical operator including brackets and mechanical limit switches.	1,8 m*	41026/001	206,00
RSK 24-2500 - RAIDER CONTROL UNIT Electronic control unit for RAIDER 2500 operator without radio receiver.		41600/013	160,00

* For leaf longer than 1,8 meters is recommended the use of an electric lock.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
433,92 Mhz radio receiver Memory System	41923/009	76,50
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433,92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
Kit Antenna 433,92 Mhz for ET2N/ET20N	41929/003	15,00
433,92 Mhz antenna	41929/001	16,50
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
Back up battery	41702/003	58,00

IDEAL INSTALLATION	Max. leaf width	Q.ty	CODE	EURO
SET RAIDER 2500 INT	1,8 m*	1	41026/802	519,50
The package contains: Two RAIDER 2500 operators with hexagonal release keys Dedicated electronic control unit Aprimatic sign plate				
ER4N - Pair of photocells		1	41812/001	61,00
Unico 433,92 Mhz Memory System radio receiver with antenna included		1	41923/009	76,50
TR2 - 433,92 Mhz twin-channel transmitter		1	41903/002	31,00
ET2N - 24 V flashing light		1	41840/006	36,50

* For leaf longer than 1,8 meters is recommended the use of an electric lock.

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



RAIDER ONE SMT

Low-voltage, electromechanical operator
for swing gates.
Condominium use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN 12453** and **EN12445 (*)**.

Built-in control unit with self-learning programming and possibility of adjusting the parameters by means of a simple and intuitive menu.

The front mounting features uniball type, allows to adjust gate oscillations.
The rear articulated joint allows the adjustment of gate anomalies.

The rear articulated joint allows the adjustment of wing anomalies.

Emergency power supply, in the event of power failure, guaranteed by two optional emergency batteries.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
MAX. ABSORBED POWER	100 W each motor
ABSORBED CURRENT	5 A each motor
MAX. THRUST FORCE	2500 N
PISTON STROKE	300 mm
90° OPENING TIME	15 sec.
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WEIGHT	600 kg (for leaf 2 m) 400 kg (for leaf 3 m)
ROD EXIT TIME	16 mm/sec.
MAX. NUMBER CYCLES	100 cycles/day
ANTI-CRUSH SAFETY DEVICE	Electronic
PROTECTION CLASS	IP44

(*) Product certified under ideal installation conditions.



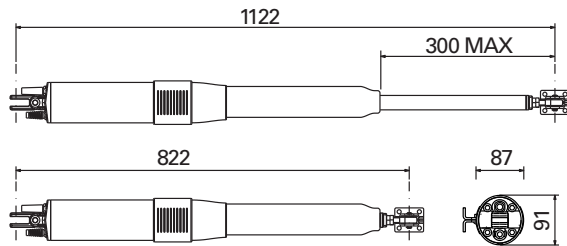
Uniball Bracket



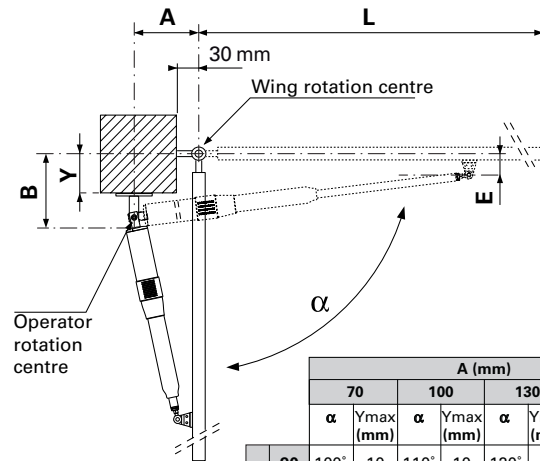


RAIDER ONE SMT

OPERATOR DIMENSIONS



OPERATOR POSITIONING



		A (mm)							
		70		100		130		150	
B (mm)	alpha	alpha	Ymax (mm)	alpha	Ymax (mm)	alpha	Ymax (mm)	alpha	Ymax (mm)
		90	100°	10	110°	10	120°	10	115°
120	95°	30	105°	30	110°	30	100°	30	
150	95°	70	90°	70	90°	70			
170	90°	100	90°	100					
200	90°	120							

DESCRIPTION	CODE	EURO
RAIDER ONE SMT 24 V electro-mechanical operator including brackets	41024/002	256,50
RSK 24SMT - RAIDER ONE SMT CONTROL UNIT Electronic control unit for RAIDER ONE SMT operator without radio receiver	41600/010	216,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Aluminium cover RAIDER ONE	41024/050	23,00
433,92 Mhz radio receiver Memory System	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
Kit Antenna 433,92 Mhz for ET2N/ET20N	41929/003	15,00
433,92 Mhz antenna	41929/001	16,50
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
Back up battery	41702/003	58,00

IDEAL INSTALLATION	Max. leaf width	Q.ty	CODE	EURO
SET RAIDER ONE SMT	1,8 m*	1	41024/805	662,50
The package contains: Two RAIDER ONE SMT operators, RSK 24SMT - Dedicated electronic control unit (without radio receiver), Aprimatic sign plate				
ER4N - Pair of photocells		1	41812/001	61,00
Unico 433,92 Mhz Memory System radio receiver complete with antenna		1	41923/009	76,50
One TR2 433,92 Mhz twin-channel transmitter		1	41903/002	31,00
ET2N - 24 V flashing light		1	41840/006	36,50
* For leaf longer than 1,8 meters is recommended the use of an electric lock.				

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



RAIDER ONE

Low-voltage, electromechanical operator
for swing gates.
Condominium use.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN 12453** and **EN12445 (*)**.

Built-in control unit with self-learn programming and possibility of adjusting the parameters by means of a simple and intuitive menu.

The front mounting features uniball type, allows to adjust gate oscillations. The rear articulated joint allows the adjustment of gate anomalies.

Motor with intelligent encoder to control the limit switch fitted as an optional on systems without floor stops.

The new Gate Manager diagnostics and programming software is used to display and optimise all operator parameter settings during operation. This is done from a PC fitted with the USB interface card. (Only for Firmware version 1.03 or later).

Emergency power supply, in the event of power failure, guaranteed by two optional emergency batteries.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
MAX. ABSORBED POWER	120 W
ABSORBED CURRENT	5 A
MAX. THRUST FORCE	3000 N
PISTON STROKE	300 mm
90° OPENING TIME	15 sec.
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF WIDTH WITHOUT ELECTRIC LOCK	1,8 m
MAX. LEAF WEIGHT	800 kg (for wing 2 m) 400 kg (for wing 3 m)
ROD EXIT TIME	16 mm/sec.
MAX. NUMBER CYCLES	100 cycles/day
ANTI-CRUSH SAFETY DEVICE	Electronic
PROTECTION CLASS	IP44

(*) Product certified under ideal installation conditions.



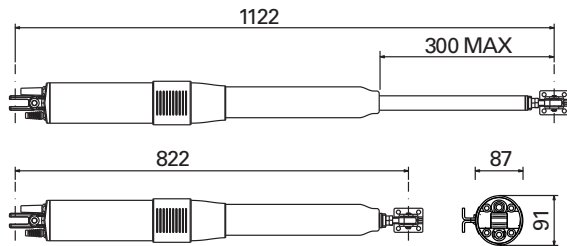
Uniball Bracket



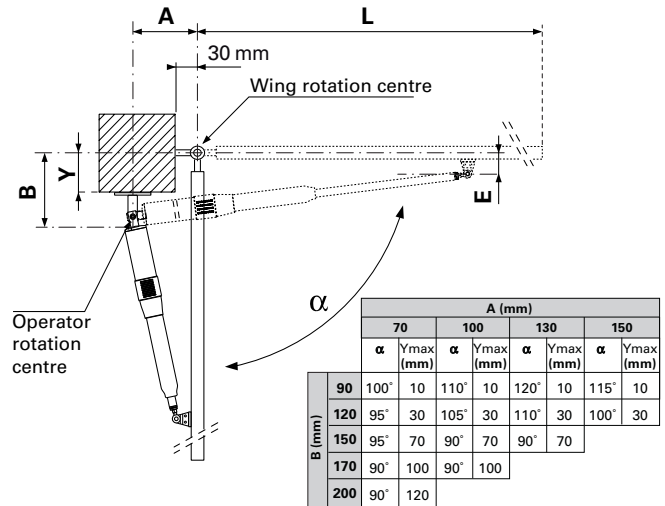


RAIDER ONE

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DESCRIPTION	CODE	EURO
RAIDER ONE 24 V electro-mechanical operator including brackets	41024/001	316,50
R1 24 - RAIDER ONE CONTROL UNIT Electronic control unit for RAIDER ONE operator without radio receiver	41600/008	368,00
6 Wire cable (length 10 m) - needed to connect the operator to the control unit	41024/052	42,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Limit switch kit RAIDER ONE (Note: the effective stroke is reduced to 260 mm)	41024/051	33,00
Alluminium cover	41024/050	23,00
433,92 Mhz radio receiver Memory System	41923/009	76,50
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
Kit Antenna 433,92 Mhz for ET2N/ET20N	41929/003	15,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
Back up battery	41024/053	59,00
Interface card for software GATE MANAGER	41024/055	54,00

IDEAL INSTALLATION	Max. leaf width	Q.ty	CODE	EURO
SET RAIDER ONE INT	1,8 m*	1	41024/806	872,50
The package contains: Two RAIDER ONE operators, R1 24 - Dedicated electronic control unit (without radio receiver), Aprimatic sign plate				
6 Wire cable		1	41024/052	42,50
ER4N - Pair of photocells		1	41812/001	61,00
Unico 433,92 Mhz Memory System radio receiver complete with antenna		1	41923/009	76,50
TR2 - 433,92 Mhz twin-channel transmitter		1	41903/002	31,00
ET2N - 24 V flashing light		1	41840/006	36,50

* For leaf longer than 1,8 meters is recommended the use of an electric lock.

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



SKIPPER

Low-voltage, electro-mechanical operator
with articulated arm for swing gates. Residential use.
Ideal for large pillars.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN 12453** and **EN12445 (*)**.

Built-in control unit with self-learning programming and possibility of adjusting the parameters by means of a simple and intuitive menu.

Articulated arm fitted with mechanical limit switch to adjust the stroke and prevent the positioning in negative angle. The operators are equipped with mechanical limit-switches to adjust the stroke.

Emergency release positioned on the side of the operator. It can be remotized to allow the release from the outside.

Emergency power supply, in the event of power failure, guaranteed by two optional emergency batteries.

It operates gates having a max leaf length of 3 m (with electric lock).

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	70 W max. each motor
ABSORBED CURRENT	4 A max. each motor
MAX. THRUST TORQUE	150 Nm
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF LENGTH	2,3 m (without electric lock) 3,0 m (with electric lock)
IRREVERSIBLE	Yes
NUMBER OF DAILY CYCLES	80 max.
MAX. LEAF OPENING ANGLE	120°
PROTECTION CLASS	IP44

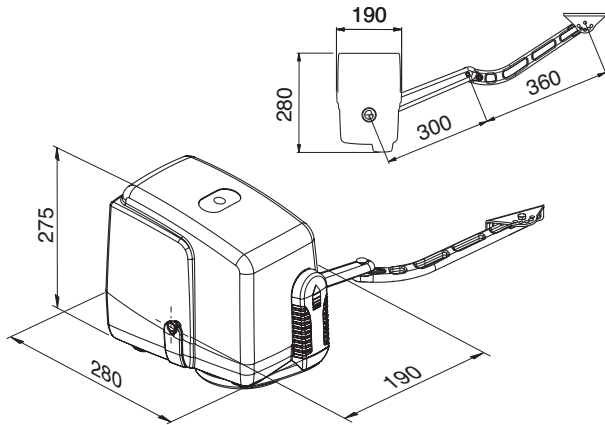
(*) Product certified under ideal installation conditions.



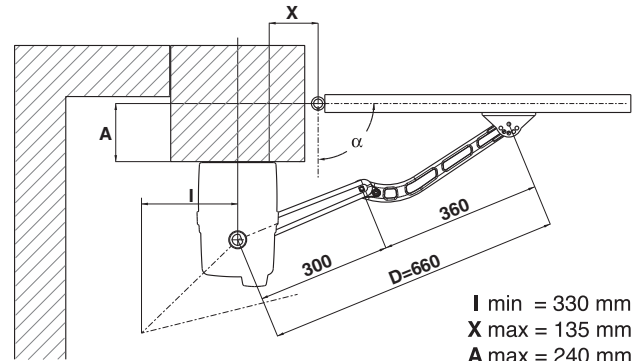


SKIPPER

OPERATOR DIMENSIONS



OPERATOR POSITIONING



I min = 330 mm
X max = 135 mm
A max = 240 mm
 α max = 120°

DESCRIPTION	Max. leaf width	CODE	EURO
SKIPPER Electromechanical operator with articulated arm and built-in control unit and radio receiver	2,3 m (without electric lock)* 3,0 m (with electric lock)	41022/001	468,00
SKIPPER SLAVE Electromechanical operator with articulated arm	2,3 m (without electric lock)* 3,0 m (with electric lock)	41022/002	386,50

* For leaf longer than 2,3 meters is recommended the use of an electric lock.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Long Lever (ideal for large pillars)	41022/050	95,00
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
ES3 - Electric lock complete with ground striker plate for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
CS - External strongbox	41704/002	64,00
CSP - Wall - mounted external strongbox	41704/004	53,00
Back up battery	41702/003	58,00

IDEAL INSTALLATION	Q.ty	CODE	EURO
SKIPPER - Electromechanical operator with articulated arm and built-in control unit	1	41022/001	468,00
SKIPPER SLAVE - Electromechanical operator with articulated arm	1	41022/002	386,50
ER4N - Pair of photocells	1	41812/001	61,00
PC12E - Key switch for wall mounting	1	41830/007	24,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
ET2N - 24 V flashing light	1	41840/006	36,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



FLEXI 300

Low-voltage, electro-mechanical operator
with articulated arm for swing gates. Residential use.
Ideal for large pillars.



Built-in control unit with self-learning programming and possibility of adjusting the parameters by means of a simple and intuitive menu.

Articulated arm fitted with mechanical limit switch to adjust the stroke and prevent the positioning in negative angle. The operators are equipped with mechanical limit-switches to adjust the stroke.
Emergency manual release at the front.

Emergency power supply, in the event of power failure, guaranteed by two optional emergency batteries.

It operates gates having a max leaf length of 3 m (without electric lock).

TECHNICAL DATA

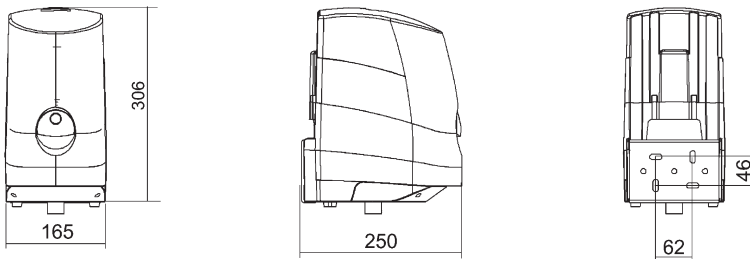
POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	45 W max. each motor
ABSORBED CURRENT	1,87 A max. each motor
MAX. THRUST TORQUE	170 Nm
OPERATING TEMPERATURE	-20°C to +55°C
MAX. LEAF WEIGHT	300 kg
MAX. LEAF LENGTH	3 m
MAX. LEAF OPENING ANGLE	120°
ANTI-CRUSH SAFETY DEVICES	Electronic
PROTECTION CLASS	IP44



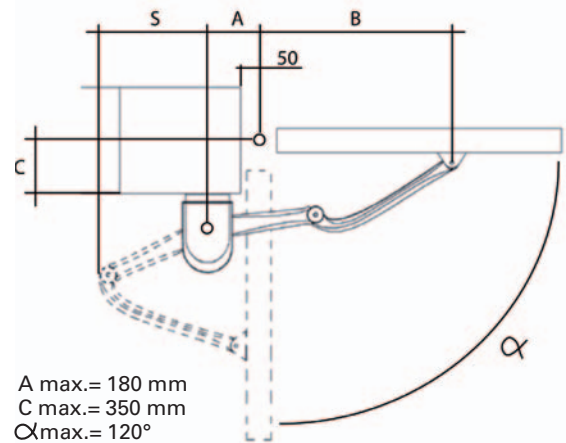


FLEXI 300

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DESCRIPTION	Max. leaf width	CODE	EURO
FLEXI 300 Electromechanical operator with built-in control unit and radio receiver 433,92 Mhz	3 m*	41029/001	633,50
Arm FLEXI - Articulated arm		41029/054	72,00

* For leaf longer than 3 meters is recommended the use of an electric lock.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
FLEXI limit stop kit	41029/050	14,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433.92 Mhz four-channel transmitter	41903/004	33,00
ER - Pair of photocells 12V-24V	41817/002	61,00
ET2N - 24 V Led flashing light	41840/006	36,50
Electric lock for gate leaf longer than 3 m:		
ES3 - Electric lock complete with ground striker plate (CL series cylinder required)	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
CS - External strongbox	41704/002	64,00
CSP - Wall - mounted external strongbox	41704/004	53,00
FLEXI batteries	41029/051	135,50
FLEXI battery charge board	41029/052	79,50
ELC FLEXI - card for electric lock and courtesy light management	41029/053	58,50

DOUBLE LEAF - IDEAL INSTALLATION (max. leaf width 3 m)*	Q.ty	CODE	EURO
KIT FLEXI 300 - The package contain:		41029/800	1.024,50
FLEXI 300 - Electromechanical operator with built-in control unit, radio receiver 433,92 Mhz and two Flexi arms (one operator Flexi Master and one operator Flexi Slave)	2		
TR2 - 433.92 Mhz twin-channel transmitter	1		
ER - Pair of photocells 12V-24V	1		
ANT433 - 433,92 Mhz antenna with 4,5 m coaxial cable and earth connection	1		
ET2N - 24 V led flashing light	1		
PC12E - Key switch for wall mounting	1		

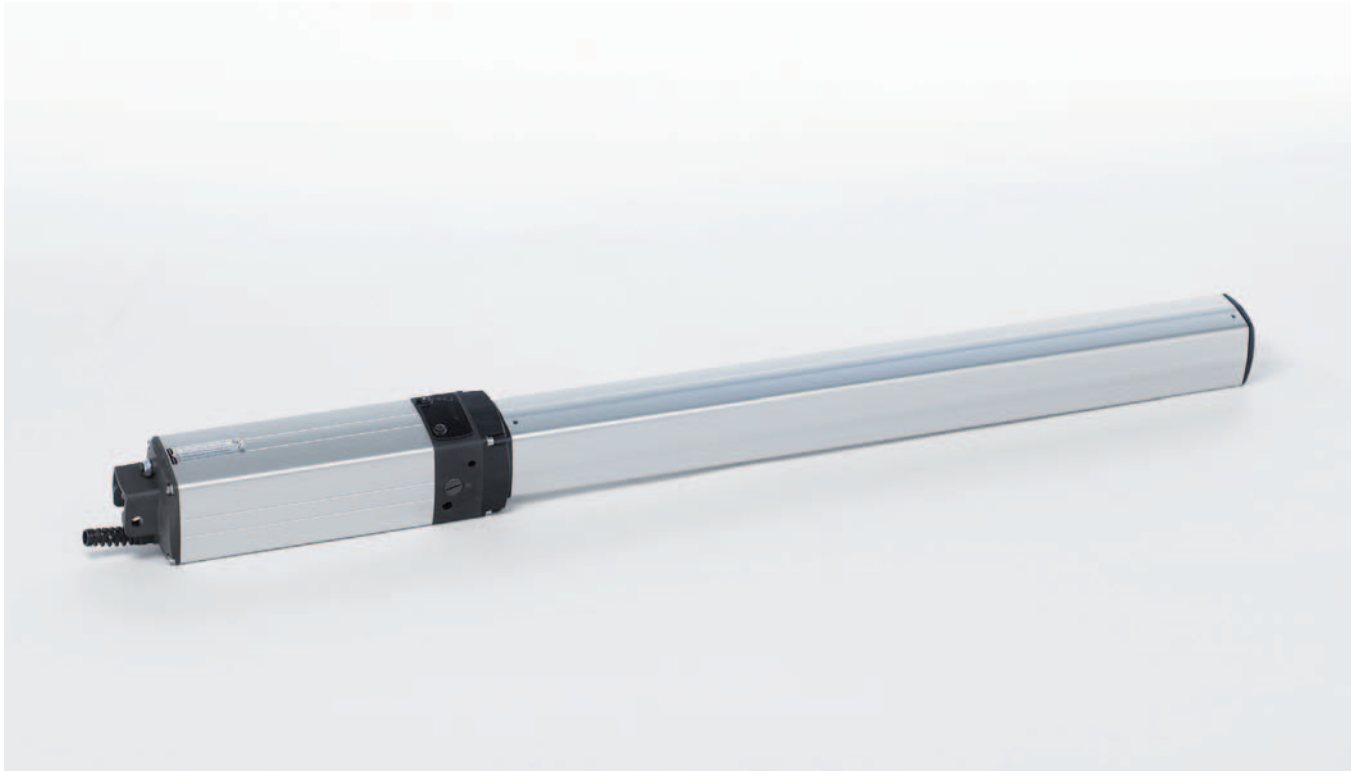
* For leaf longer than 3 meters is recommended the use of an electric lock.

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 4

Hydraulic operator for swing gates.
Residential and condominium use.



Versions available:

ZT 4 SF - without lock for leaf length up to 3 m.
ZT B - with lock in opening/closing position for leaf length up to 1,8 m.

Suitable for residential and condominium use with leaf length up to 3 m. Maximum reliability thanks to the sturdiness of the operator.

Anti-crush system with very sensitive bypass valves calibrated during installation. This immediately cuts the hydraulic pressure in the event of obstacles to ensure maximum system safety.

Front and rear mountings to enable screw assembly also on wood, PVC and aluminium gates.

The articulated fork rear flange ensures flexible and sturdy assembly on the pillar.

Manual key release located on the upper part of the operator in the event of mains power supply failure.

The neoprene power supply cable is specifically suited to mobile applications in outdoor environments.

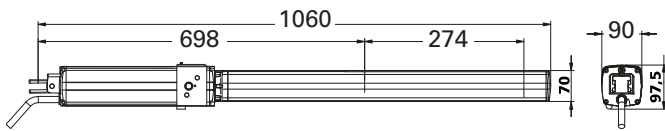
TECHNICAL DATA	ZT 4 B	ZT 4 SF
POWER SUPPLY	230 V - 50 Hz	230 V - 50 Hz
ABSORBED POWER	250 W	250 W
MAX. THRUST FORCE	3850 N	3850 N
ROD ENTRY TIME	17 sec.	17 sec.
ROD EXIT TIME	20 sec.	20 sec.
OPERATING TEMPERATURE	-20°C to +70°C	-20°C to +70°C
MAX. WING WIDTH	1,8 m	3 m (with electro lock)
STANDARD MAX. ROD STROKE	275 mm	275 mm
NUMBER OF CYCLES	200 cycles/day	200 cycles/day
KEY RELEASE	YES	YES
ANTI-CRUSH SYSTEM	YES	YES
OVERLOAD TEMPERATURE	120° C	120° C
PROTECTION CLASS	IP55	IP55



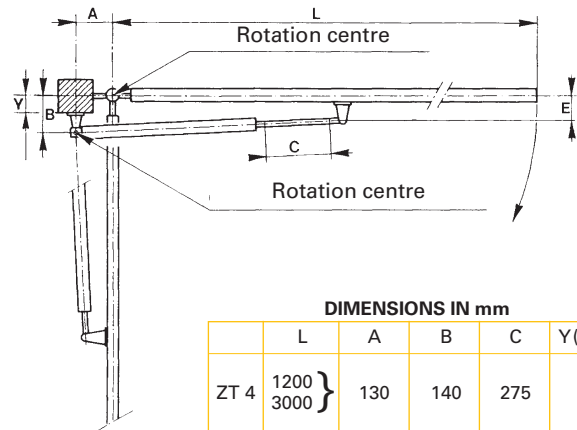


ZT 4

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DIMENSIONS IN mm					
	L	A	B	C	Y(max)
ZT 4	1200 3000	130	140	275	80

DESCRIPTION	Max. leaf width	CODE	EURO
ZT 4 B Hydraulic operator with lock in opening/closing position, electric lock NOT required	1.8 m	41006/001	382,50
ZT 4 SF Hydraulic operator without lock, electric lock required	3.0 m	41006/003	376,00
SET ZT 4 B Set composed of: two hydraulic ZT 4 B operators with hydraulic lock in opening/closing position, one T1E electronic control unit	1.8 m	41006/805	900,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Swing 230 - Electronic control unit with 433,92 Mhz radio receiver	41606/001	218,50
433,92 Mhz radioreceiver Memory System	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

IDEAL INSTALLATION	Q.ty	CODE	EURO
SET ZT 4 B Set composed of: two hydraulic ZT 4 B operators with hydraulic lock in opening/closing position, one T1E electronic control unit	1	41006/805	900,50
ER4N - Pair of photocells	1	41812/001	61,00
One TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver complete with antenna	1	41923/009	76,50
ET20N - 230 V flashing light	1	41841/009	28,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 44 RF - ZT 42

Hydraulic operator for swing gates,
with flow adjustment (RF).
Residential, condominium and intensive use.



Double valve flow adjustment device for regulating gate opening and closing speed. Compensates for the unbalanced loads created by wind and out of plumb installation of very light and medium heavy gates.

The hydraulic slowdown system for gate closure can be adjusted during installation to ensure gradual and silent leaf approach and to prevent structural stress.

The anti-crush system with ultra-sensitive bypass valves can be calibrated during installation to limit hydraulic pressure if the gate meets an obstacle, thus ensuring maximum operating safety.

The emergency release system ensures good burglary protection thanks to a personalised key. The system is protected by the top cover and does not spoil the operator's attractive lines.

The rear flange with articulated aluminium fork permits flexible but sturdy assembly on the pillar.

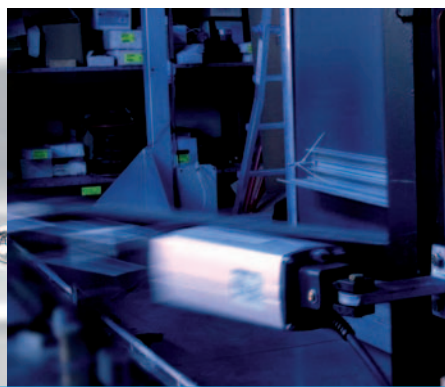
The front mounting features a uniball type ball joint. Its threaded bolt can be used to adjust gate or installation flaws.

The neoprene power supply cable is specially designed for mobile, outdoor installations.

Unique on the market
with flow adjustment device.

TECHNICAL DATA	ZT 42	ZT 44
POWER SUPPLY	230 V - 50 Hz	230 V - 50 Hz
ABSORBED POWER	250 W	250 W
MAX. THRUST FORCE	3850 N	3850 N
VERSIONS	B - SR	B - C - SF RF DS
FLOW ADJUSTMENT	NO	YES
CLOSING SLOWDOWN	YES	YES
CLOSING AND OPENING SLOWDOWN	NO	SF RF DS
OPENING TIME*	13 sec.	20 sec.
OPERATING TEMPERATURE	-20°C to +70°C	-20°C to +70°C
MAX. LEAF WIDTH	1,2 m	4 m
ROD STROKE	190 mm	275 mm
WEIGHT	7,5 kg	8 kg
MAX. CYCLES	800 cycles/day	800 cycles/day
ANTI-CRUSH SYSTEM	Bypass valves	Bypass valves
PROTECTION CLASS	IP55	IP55

*Regulation of the flow adjustment valves can extend opening time.

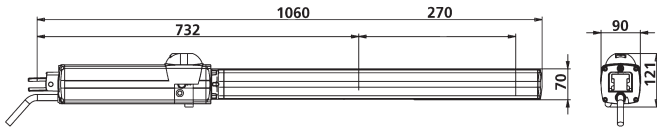


Uniball Bracket

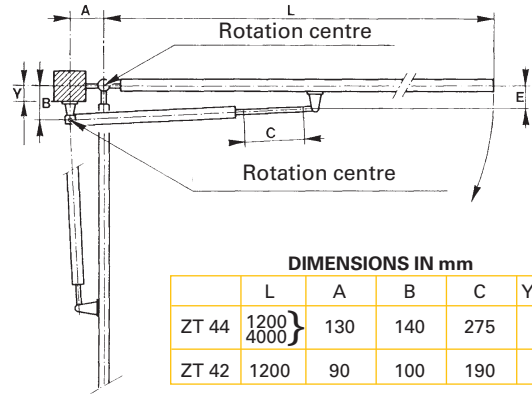


ZT 44 RF - ZT 42

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DIMENSIONS IN mm

	L	A	B	C	Y (max)
ZT 44	1200 4000	130	140	275	90
ZT 42	1200	90	100	190	40

DESCRIPTION	Max. leaf width	CODE	EURO
ZT 44 C RF - With flow adjustment valves Hydraulic operator with lock in closed position	1,8 m	41009/005	471,00
ZT 44 SF RF DS - With flow adjustment valves Hydraulic operator without lock and with double slowdown	4,0 m	41009/009	481,50
ZT 44 B RF - With flow adjustment valves Hydraulic operator with lock in open and closed position	1,8 m	41009/007	477,00
ZT 42 B (pedestrian gates) Hydraulic operator with lock in open and closed position	from 0,8 m to 1,2 m	41008/001	478,00
ZT 42 SR (pedestrian gates) Hydraulic operator without lock	from 0,8 m	41008/002	478,00
ZT 42 B Rapid (pedestrian gates) open in 6 sec. Hydraulic operator with lock in open and closed position	from 0,8 m to 1,2 m	41008/004	489,00

NOTE: All operators are equipped with adjustable hydraulic slowdown on closing and a personalised key release system.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Swing 230 - Electronic control unit with 433,92 Mhz radio receiver	41606/001	218,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium post for ER4N photocell	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
Electric lock (for gates with wings longer than 1.8 m):		
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

IDEAL INSTALLATION	Max. leaf length	Q.ty	CODE	EURO
SET "INT" ZT 44 4M C RF	1,8 m*	1	41009/800	970,50
SET "INT" ZT 44 B RF	1,8 m*	or 1	41009/805	1.044,50
SET "INT" ZT 44 4M SF RF (electric lock required)	4,0 m	or 1	41009/801	970,50
Every package includes: Two ZT 44 operators, two covers, emergency release key T1E - Electronic control unit				
TR2 - 433.92 Mhz twin-channel transmitter		1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver complete with antenna		1	41923/009	76,50
ET20N - 230 V flashing light		1	41841/009	28,00
ER4N - Pair of photocells		1	41812/001	61,00
PC12E - Key switch for wall mounting		1	41830/007	24,00

* For leaf longer than 1,8 meters is recommended the use of an electric lock.

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 40 RF

Hydraulic operator for swing gates,
with flow adjustment (RF).
Intensive and continuous use.



Double valve flow adjustment device for regulating gate opening and closing speed. Compensates for the unbalanced loads created by wind and out of plumb installation of very light and medium heavy gates.

The hydraulic slowdown system for gate closure can be adjusted during installation to ensure gradual and silent gate approach and to prevent structural stress.

The anti-crush system with ultra-sensitive bypass valves can be calibrated during installation to limit hydraulic pressure if the gate meets an obstacle, thus ensuring maximum operating safety.

The emergency release system ensures good burglary protection thanks to a personalised key. The system is protected by the top cover and does not spoil the operator's attractive lines.

The rear flange with articulated aluminium fork permits flexible but sturdy assembly on the pillar.

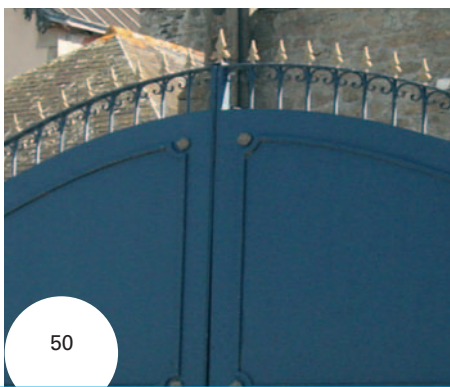
The front mounting features a uniball type ball joint. A 20 mm screw should be used to adjust any out of plumb installation.

The neoprene power supply cable is specially designed for mobile, outdoor installations.

Unique on the market
with flow adjustment device.

TECHNICAL DATA	ZT 40 4 M	ZT 40 7 M
POWER SUPPLY	230 V - 50/60 Hz	230 V - 50/60 Hz
ABSORBED POWER	250 W	250 W
MAX. THRUST FORCE	5650 N	5650 N
VERSIONS	B - C - SF RF DS	B - C - SF RF DS
FLOW ADJUSTMENT	YES	YES
CLOSING SLOWDOWN	YES	YES
CLOSING AND OPENING SLOWDOWN	SF RF DS	SF RF DS
OPENING TIME*	17 sec.	26 sec.
OPERATING TEMPERATURE	-20°C to +70°C	-20°C to +70°C
MAX. LEAF WIDTH	4 m	7 m
ROD STROKE	275 mm	390 mm
WEIGHT	10 kg	11 kg
MAX. CYCLES	1000 cycles/day	800 cycles/day
ANTI-CRUSH SYSTEM	Bypass valves	Bypass valves
PROTECTION CLASS	IP55	IP55

* Regulation of the flow adjustment valves can extend opening time.



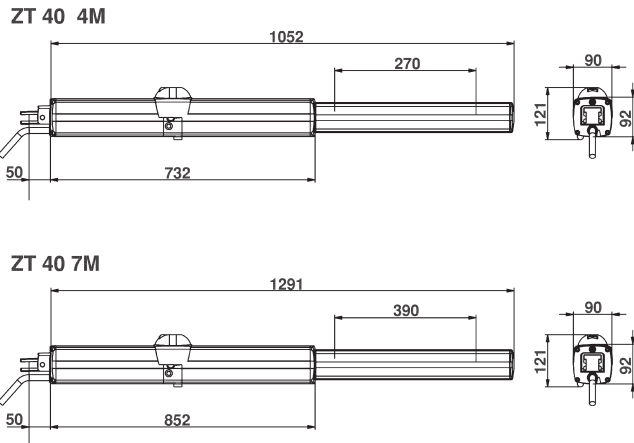
Uniball Bracket



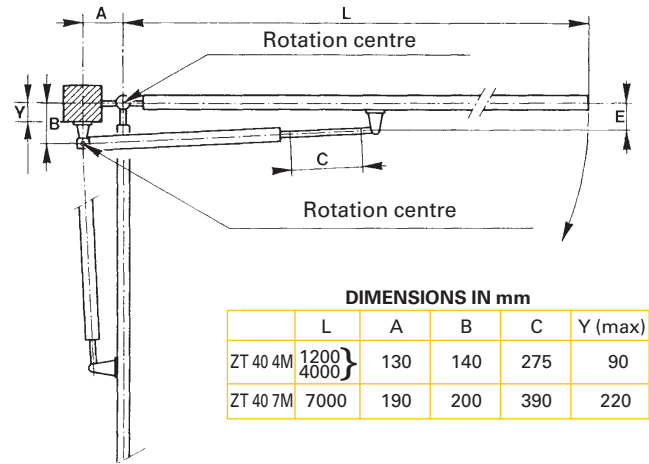


ZT 40 RF

OPERATOR DIMENSIONS



OPERATOR POSITIONING



DIMENSIONS IN mm					
	L	A	B	C	Y (max)
ZT 40 4M	1200 4000	130	140	275	90
ZT 40 7M	7000	190	200	390	220

DESCRIPTION	Max. leaf width	CODE	EURO
ZT 40 4M C RF - With flow adjustment valves Hydraulic operator with lock in closed position	2,0 m	41007/009	593,50
ZT 40 4M SF RF DS - With flow adjustment valves Hydraulic operator without lock	4,0 m	41007/020	593,50
ZT 40 4M B RF - With flow adjustment valves Hydraulic operator with lock in open and closed position	2,0 m	41007/016	591,50
ZT 40 7M C RF - With flow adjustment valves Hydraulic operator with lock in closed position	2,0 m	41007/012	668,50
ZT 40 7M SF RF DS - With flow adjustment valves Hydraulic operator without lock	7,0 m	41007/022	689,50
ZT 40 7M B RF - With flow adjustment valves Hydraulic operator with lock in open and closed position	2,0 m	41007/018	682,00

All operators are equipped with adjustable hydraulic slowdown on closing and a personalised key release system.
NOTE: it is possible to use the operator ZT40 B-C even on leaves larger than 2,0 m associated with an electric lock.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium post for ER4N photocell	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
Electric lock (for gates with wings longer than 1,8 m): ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

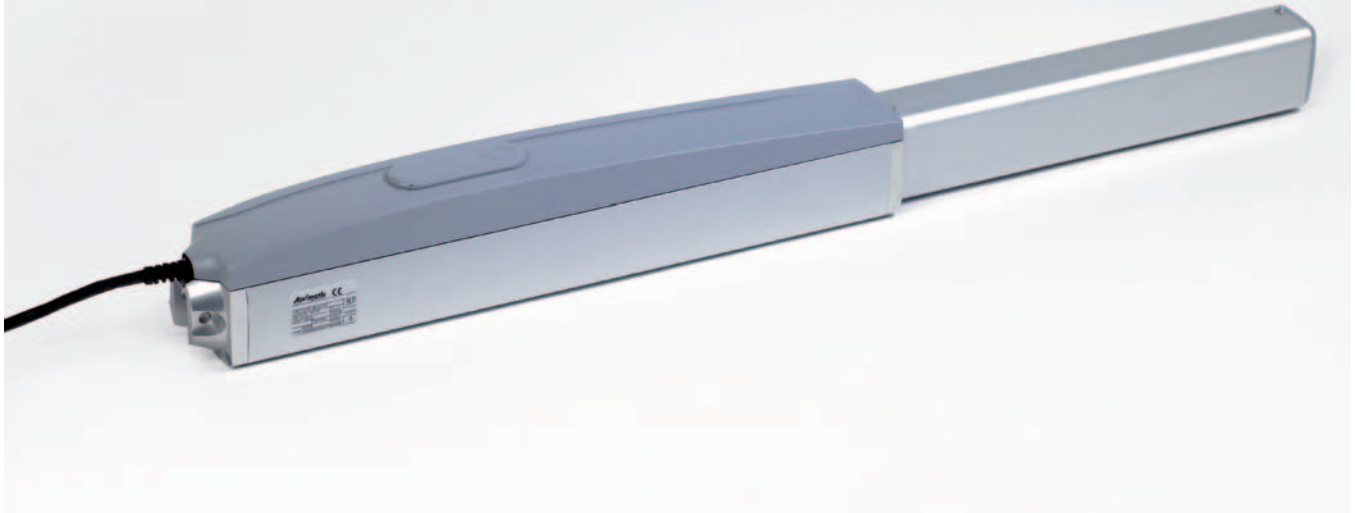
IDEAL INSTALLATION	Q.ty	CODE	EURO
ZT 40 4M B RF hydraulic ZT 40 4M B RF operators with lock in open/closed position, electric lock NOT required (max. wing length 2,0 m)	2	41007/016	591,50 / pcs
Swing 230 - Electronic control unit with 433,92 Mhz radio receiver		41606/001	218,50
ER4N - Pair of photocells	1	41812/001	61,00
TR2 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
ET20N - 230 V flashing light	1	41841/009	28,00
PC12E - Key switch for wall mounting	1	41830/007	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



FORTY 5500

Hydraulic operator for swing gates,
with closing and opening hydraulic brake.
Intensive and continuous use.



Strong and reliable, suitable for intensive and continuous use.

The hydraulic slowdown system for gate closure and opening can be adjusted during installation to ensure gradual and silent gate approach and to prevent structural stress.

The anti-crush system with ultra-sensitive bypass valves can be calibrated during installation to limit hydraulic pressure if the gate meets an obstacle, thus ensuring maximum operating safety.

The emergency release system ensures good burglary protection thanks to a personalised key. The system is protected by the top cover and does not spoil the operator's attractive lines.

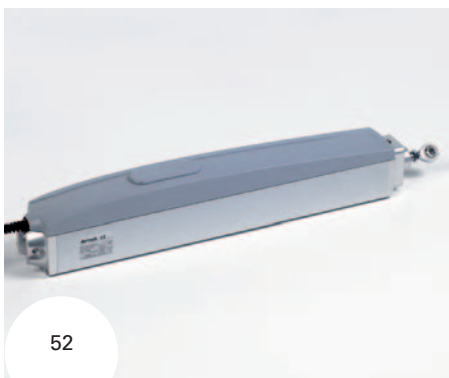
The rear flange with articulated aluminium fork permits flexible but sturdy assembly on the pillar.

The front mounting features a uniball type ball joint. The M12 mm screw should be used to adjust any out of plumb installation.

The flexible power supply cable is specially designed for mobile, outdoor installations, replaced quickly.

TECHNICAL DATA	FORTY 5500 4 M	FORTY 5500 7 M
POWER SUPPLY	230 V - 50/60 Hz	230 V - 50/60 Hz
ABSORBED POWER	250 W	250 W
ABSORBED CURRENT	1.1 A	1.1 A
MAX. THRUST FORCE	5650 N	5650 N
VERSIONS	A* - B - C - SF	A* - B - C - SF
CLOSING AND OPENING SLOWDOWN	DS	DS
ROD SPEED	12,5 mm/sec.	12,5 mm/sec.
OPERATING TEMPERATURE	-20°C to +70°C	-20°C to +70°C
MAX. LEAF WIDTH	4 m	7 m
ROD STROKE	275 mm	395 mm
WEIGHT	11 kg	12 kg
MAX. CYCLES	700 cycles/day	600 cycles/day
ANTI-CRUSH SYSTEM	Bypass valves	Bypass valves
PROTECTION CLASS	IP55	IP55

*Version available on request.

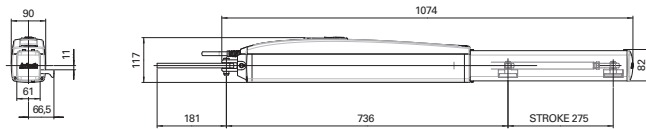




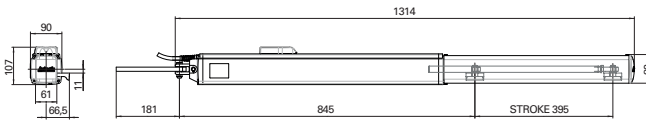
FORTY 5500

OPERATOR DIMENSIONS

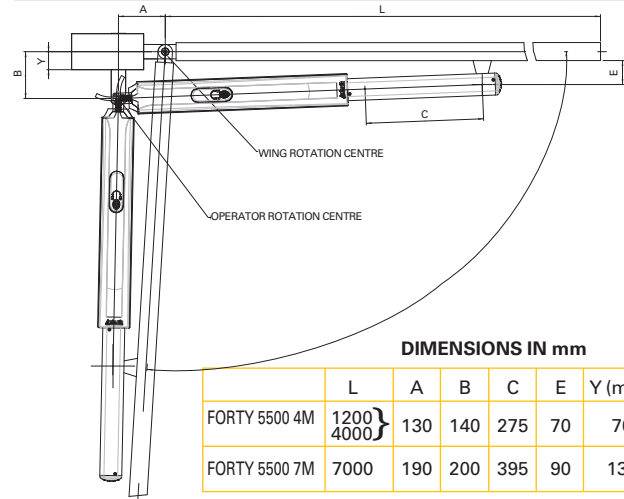
FORTY 5500 4M



FORTY 5500 7M



OPERATOR POSITIONING



DESCRIPTION	Max. leaf width	CODE	EURO
FORTY 5500 4M C DS - With closing and opening hydraulic brake Hydraulic operator with lock in closed position	2,0 m	41011/001	593,50
FORTY 5500 4M SF DS - With closing and opening hydraulic brake Hydraulic operator without lock	4,0 m	41011/007	593,50
FORTY 5500 4M B DS - With closing and opening hydraulic brake Hydraulic operator with lock in open and closed position	2,0 m	41011/004	591,50
FORTY 5500 4M A DS - With closing and opening hydraulic brake Hydraulic operator with lock in open position	2,0 m	41011/003	643,50
FORTY 5500 7M C DS - With closing and opening hydraulic brake Hydraulic operator with lock in closed position	2,0 m	41011/002	668,50
FORTY 5500 7M SF DS - With closing and opening hydraulic brake Hydraulic operator without lock	7,0 m	41011/008	689,50
FORTY 5500 7M B DS - With closing and opening hydraulic brake Hydraulic operator with lock in open and closed position	2,0 m	41011/006	682,00
FORTY 5500 7M A DS - With closing and opening hydraulic brake Hydraulic operator with lock in open position	2,0 m	41011/005	718,50

All operators are equipped with adjustable hydraulic slowdown on closing/opening and a personalised key release system.
NOTE: it is possible to use the operator FORTY 5500 B-C-A even on leaves larger than 2,0 m associated with an electric lock.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
CAL - Aluminium post for ER4N photocell	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
Electric lock (for gates with wings longer than 1,8 m): ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

IDEAL INSTALLATION	Q.ty	CODE	EURO
FORTY 5500 4M B DS hydraulic FORTY 5500 4M B DS operators with lock in open/closed position, electric lock NOT required (max. wing lenght 2,0 m)	2	41011/004	591,50/pcs
Swing 230 - Electronic control unit with 433,92 Mhz radio receiver		41606/001	218,50
ER4N - Pair of photocells	1	41812/001	61,00
TR2 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
ET20N - 230 V flashing light	1	41841/009	28,00
PC12E - Key switch for wall mounting	1	41830/007	24,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



EM 73N

Low-voltage electro-mechanical underground operator for swing gates.
Residential use.



The automation is located underground and therefore does not affect the look of the gate.

Maximum safety thanks to the 24 V power supply.

Anti-crush safety ensured by simple adjustment of the T4 POWER electronic control unit.

Self-supporting sheet metal container coated in cataphoresis with galvanised base and upper cover housing all drive components consisting of a 24 V motor and a set of galvanised rust-proof levers to enable gate opening at 110°.

EM 73N can be fitted with a separate lever system to enable opening at 140° or a chain pinion system for opening at 180°.

The optional slowdown system for EM 73N enables rapid leaf movement during the operation and slow approach during opening and closing to prevent rebound and noise.

The manual lock for the SB73 emergency release system is available as an optional.

This is a lock with a personalised key to prevent actuation of the leaf emergency release pedal.

The lock can be operated from inside and outside the gate.

TECHNICAL DATA

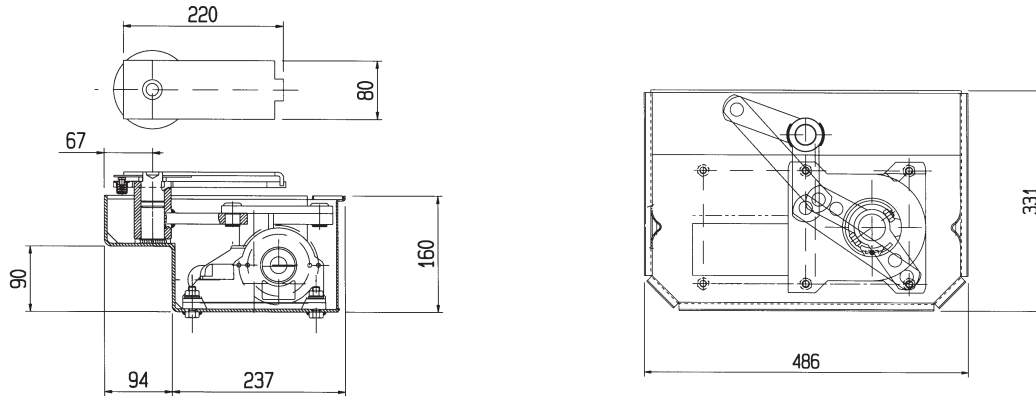
POWER SUPPLY	230 V - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	200 W
ABSORBED CURRENT	10 A
MAX. THRUST FORCE	280 N
OPERATING TEMPERATURE	-20°C to +70°C
WING OPENING ANGLE	110°, 140°, 180°
110° OPENING TIME	20 sec.
SLOWDOWN	Optional
MAX. LEAF WIDTH	1,8 m (without electric lock, max. leaf weight 400 kg) 3,5 m (with electric lock, max. leaf weight 200 kg)
PROTECTION CLASS	IP67





EM 73N

OPERATOR DIMENSIONS



DESCRIPTION	Max. leaf width	CODE	EURO
EM 73N Irreversible, underground 24 V electro-mechanical operator	1,8 m (without electric lock, max. leaf weight 400 kg) 3,5 m (with electric lock, max. leaf weight 200 kg)	41060/001	305,00
CIA 173 - Underground self-supporting boxes		41060/051	178,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
SCB - Buffer battery recharging card. To recharge batteries up to 4.5 A, for use with T4PRO and T4POWER unit	41020/054	24,00
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
433.92 Mhz antenna	41929/001	16,50
SB73 - Release lock	41060/052	48,50
Slowdown kit for 1st leaf	41060/055	51,50
Slowdown kit for 2nd leaf	41060/056	29,00
Lever unit for opening up to 140°	41060/053	61,00
Chain unit for opening up to 180°	41060/054	115,50
Gate leaf support	41060/050	7,50
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00

NOTE: On two-leaf gates, the slowdown function requires 1 slowdown kit for 1st leaf and 1 slowdown kit for 2nd leaf if the T4POWER electronic control unit is used or 2 slowdown kits for 2nd leaf if the T4PRO electronic control unit is used.
On single-leaf gates, the slowdown function requires 1 slowdown kit for 1st leaf if the T4POWER electronic control unit is used or 1 slowdown kit for 2nd leaf if the T4PRO electronic control unit is used.

IDEAL INSTALLATION	Q.ty	CODE	EURO
EM 73N irreversible underground 24 V electro-mechanical operators	2	41060/001	305,00/pcs
400 kg underground self-supporting boxes CIA 173	2	41060/051	178,50/pcs
SB73 - Release lock	2	41060/052	48,50/pcs
T4 POWER - Electronic control unit	1	41600/001	216,50
ER4N - Pair of photocells	1	41812/001	61,00
Unico 433.92 Mhz Memory System radio receiver complete with antenna	1	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitters	1	41903/002	31,00
ET2N - 24 V flashing light	1	41840/006	36,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 70

Underground hydraulic operator for swing gates.
Residential and condominium use.



Very low noise levels thanks to the hydraulic brake to slowdown the gate during opening and closing thus preventing rebound and noisy impact.

The automation is located underground and therefore does not affect the look of the gate.

Anti-crush system with very sensitive bypass valves calibrated during installation. This immediately cuts the hydraulic pressure in the event of obstacles to ensure maximum system safety.

The system envisages an easy-maintenance self-supporting box.

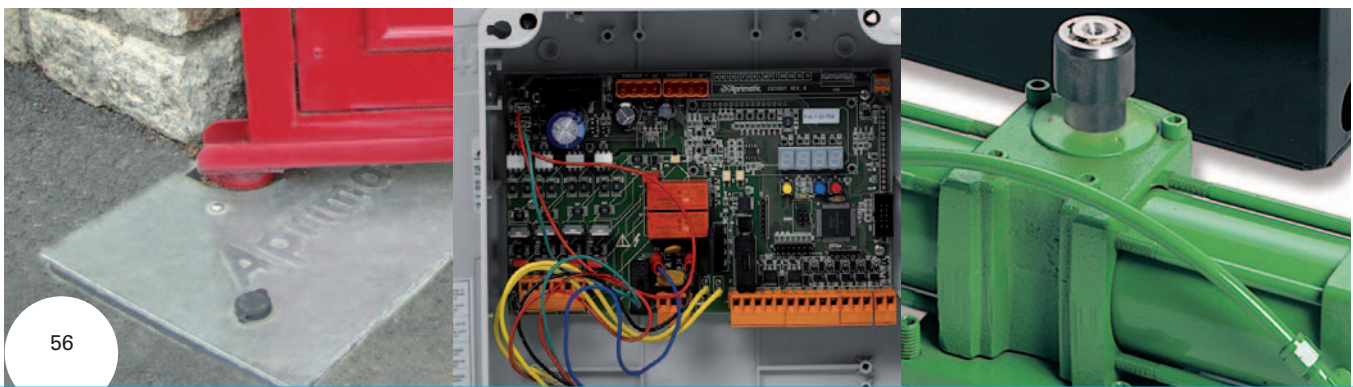
The jack is accessed by removing the stainless steel cover without having to remove the gate leaf.

An easy-to-use manual release device ensures gate functioning in the event of a mains power supply.

CONTROL UNIT ZT 70	B5	SF5*
SINGLE-PHASE POWER SUPPLY Hz	230 V - 50/60	
ABSORBED POWER	250 W	250 W
OPERATING TEMPERATURE	-20°C to +70°C	
MAX. LEAF WIDTH (m)	2,0	4,0
PUMP CAPACITY (Lt/min)	0,75	0,75
MAX. OPERATING PRESSURE	40 Bar	40 Bar
OIL QUANTITY	1 Lt	1 Lt
OIL TYPE	AprimOil HC 13	
WEIGHT WITH OIL	5 kg	5 kg
PROTECTION RATING	IP54	IP54

HYDRAULIC JACK	AT 175N	AT 176N
MAX. OPERATING ANGLE	110°	200°
ANGULAR PUMP SPEED FROM 0,6 Lt/min.	6°/s	6°/s
ANGULAR PUMP SPEED FROM 0,75 Lt/min.	7°/s	7°/s
MAX. THRUST FORCE	410 Nm	410 Nm
MAX. LEAF WEIGHT	800 kg	800 kg
MAX. WEIGHT WITH OIL	1 Lt	1,2 Lt
OIL TYPE	AprimOil HC 13	AprimOil HC 13
OIL QUANTITY	12 kg	13 kg
PROTECTION CLASS	IP67	IP67

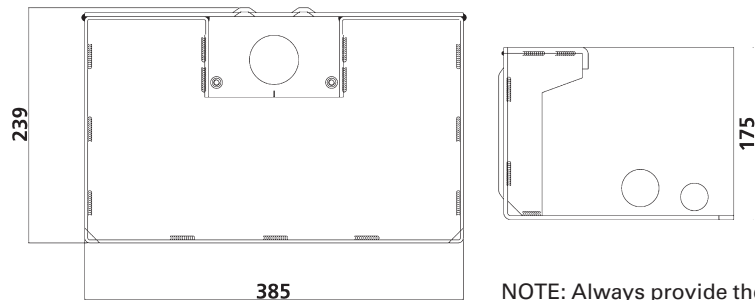
* Model listed in the final pages of this section "Other items".





ZT 70

DIMENSIONS CIA 170 (underground box)



NOTE: Always provide the drain system

DESCRIPTION	Max. leaf width	CODE	EURO
ZT 70B5 Hydraulic power unit complete with metal box, twin hydraulic lock: opening and closing, electric lock NOT required	2,0 m	41055/003	388,50
ZT 70SF5 Hydraulic power unit complete with metal box, NO hydraulic lock, electric lock required	4,0 m	41055/001	354,50
AT 175N single Single hydraulic jack for use with self-supporting box, adjustable slowdown during opening and closing, stainless steel lifting screws	Max. leaf opening 110°	41050/003	335,00
AT 176N single Single hydraulic jack for use with self-supporting box, adjustable slowdown during opening and closing, stainless steel lifting screws	Max. leaf opening 200°	41051/002	372,00
CIA 170 Self-supporting box for use with single jack, complete with support, sintered bush and splined bush, stainless steel lid and locking plate for jack	Max. leaf weight 800 kg	41005/050	151,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER2N - Pair of photocells	41811/001	82,50
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
Aprimoil HC13 (1 litre bottle)	41700/013	14,50
TRA - Copper pipe diam. 8x1 mm	41056/056	5,50/m

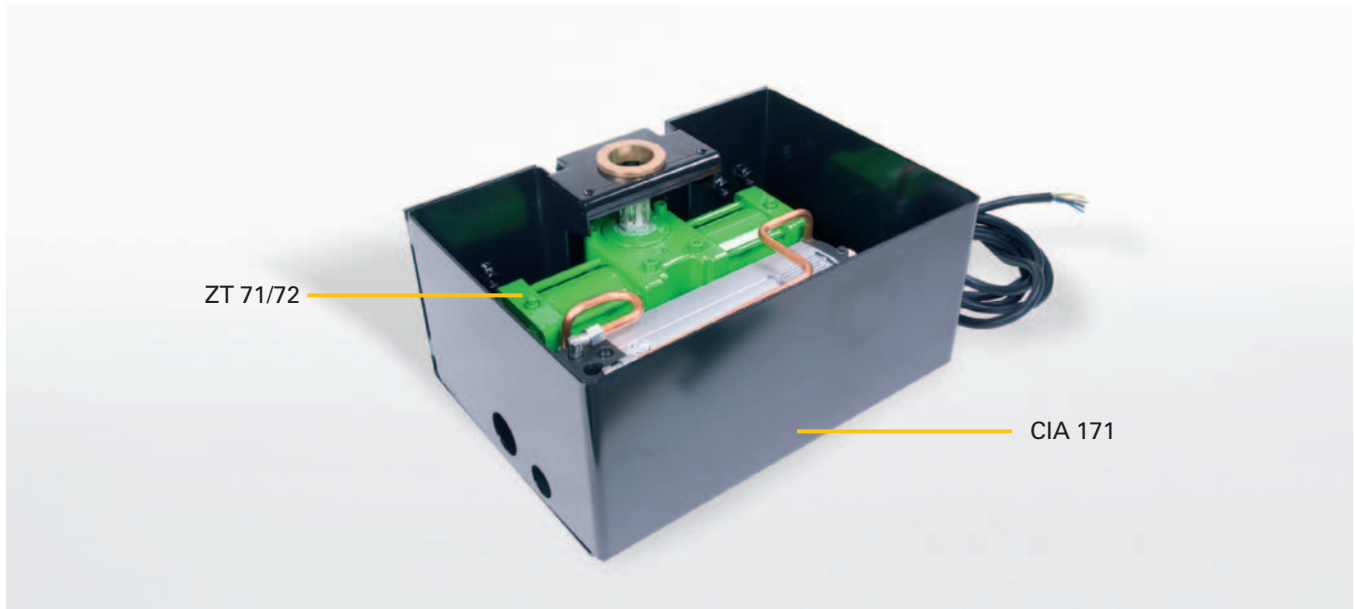
IDEAL INSTALLATION	Q.ty	CODE	EURO
AT 175 N - Hydraulic jacks	2	41050/003	335,00/pcs
ZT 70B5 - Hydraulic control panels	2	41055/003	388,50/pcs
CIA170 - Self-supporting underground boxes	2	41005/050	151,50/pcs
Swing 230 - Electronic control unit with 433,92 Mhz radio receiver	1	41606/001	218,50
Flexible tube for ZT 70 10 m	1	41056/054	39,50
Pair Rack links for flexible tube	2	41056/055	20,00/pcs
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver complete with antenna	1	41923/009	76,50
ET20N - 230 V flashing light	1	41841/009	28,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 71 - ZT 72

Compact underground hydraulic operator for swing gates.
Residential and condominium use.



Very low noise levels thanks to the hydraulic brake to slowdown the gate during opening and closing thus preventing rebound and noisy impact.

The automation is located underground and therefore does not affect the look of the gate.

Anti-crush system with very sensitive bypass valves calibrated during installation. This immediately cuts the hydraulic pressure in the event of obstacles to ensure maximum system safety.

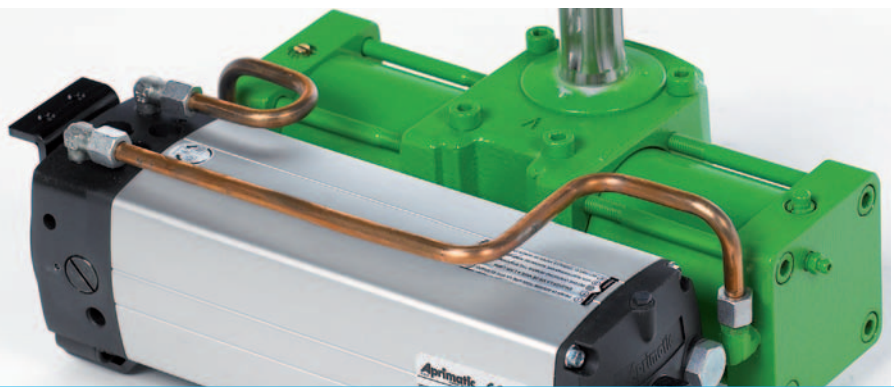
The system consists of underground self-supporting boxes aligned with the hinges. The boxes contain the hydraulic jacks which are connected to the hydraulic pump unit using copper couplings. The pump unit are located in a die-cast aluminium container to protect them against severe weather conditions.

The system envisages an easy-maintenance self-supporting box. The jack is accessed by removing the stainless steel cover without having to remove the gate leaf. An easy-to-use manual release device ensures gate functioning in the event of a mains power supply.

CONTROL UNIT	B4*	B5	SF5*	SF5
SINGLE-PHASE POWER SUPPLY	230 V - 50/60 Hz			
ABSORBED POWER	250 W	250 W	250 W	250 W
OPERATING TEMPERATURE	20°C to +70°C			
MAX. LEAF WIDTH (m)	2,0	2,0	4,0	4,0
PUMP CAPACITY (Lt/min)	0,6	0,75	0,6	0,75
MAX. OPERATING PRESSURE	40 Bar	40 Bar	40 Bar	40 Bar
OIL QUANTITY	1 Lt	1 Lt	1 Lt	1 Lt
OIL TYPE	AprimOil HC 13			
WEIGHT WITH OIL	5 kg	5 kg	5 kg	5 kg
PROTECTION CLASS	IP54	IP54	IP54	IP54

* Model listed in the final pages of this section "Other items".

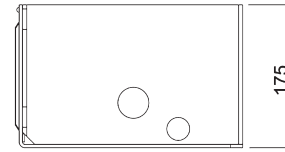
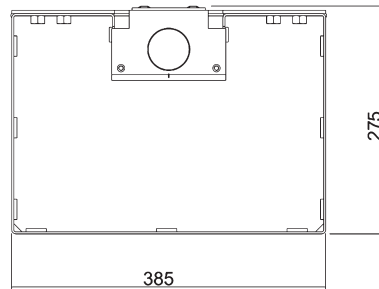
HYDRAULIC JACK	ZT 71 AT 175N	ZT 72 AT 176N
MAX. OPERATING ANGLE	110°	200°
ANGULAR PUMP SPEED FROM 0,6 Lt/min.	6°/s	6°/s
ANGULAR PUMP SPEED FROM 0,75 Lt/min.	7°/s	7°/s
MAX. THRUST FORCE	410 Nm	410 Nm
MAX. LEAF WEIGHT	800 kg	800 kg
MAX. WEIGHT WITH OIL	1 Lt	1,2 Lt
OIL TYPE	AprimOil HC 13	AprimOil HC 13
OIL QUANTITY	12 kg	13 kg
PROTECTION CLASS	IP67	IP67





ZT 71 - ZT 72

DIMENSIONS CIA 171 (underground box)



NOTE: Always plan the rain drainage

DESCRIPTION	Max. leaf width	CODE	EURO
ZT 71B5 (ZT 70B5 control unit + AT 175N jack), twin hydraulic lock: opening and closing, adjustable slowdown during opening and closing, electric lock NOT required	2,0 m Max. leaf opening 110°	41056/002	732,50
ZT 71SF5 (ZT 70SF5 control unit + AT 175N jack), NO hydraulic lock, adjustable slowdown during opening and closing, electric lock required	4,0 m Max. leaf opening 110°	41056/004	711,00
ZT 72B5 (ZT 70B5 control unit + AT 176N jack), twin hydraulic lock: opening and closing, adjustable slowdown during opening and closing, electric lock NOT required	2,0 m Max. leaf opening 200°	41057/002	830,50
ZT 72SF5 (ZT 70SF5 control unit + AT 176N jack). NO hydraulic lock, adjustable slowdown during opening and closing, electric lock required	4,0 m Max. leaf opening 200°	41057/004	798,50
CIA 171 Self-supporting box for use with jack and control unit, complete with support, sintered bush and splined bush, stainless steel lid and locking screws for jack	Max. leaf weight 800 kg	41056/051	152,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Direct external release	41056/052	13,50
Driven external release ZT 71 - ZT 72	41056/053	31,00
CS - External strongbox	41704/002	64,00
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER2N - Pair of photocells	41811/001	82,50
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
ES3 - Electric lock complete with ground striker plate (for gate leaf longer than 1,8 m up to 3 m) CL series cylinder required	41080/008	74,50
CL1 - "DEAD HEAD" single cylinder	41080/005	15,50
CL2 - "DEAD HEAD" double cylinder	41080/004	24,00
Aprimoil HC13 (1 litre bottle)	41700/013	14,50
GRO - Oil refuelling system	41056/050	14,50

IDEAL INSTALLATION	Q.ty	CODE	EURO
Two ZT 71 B5 systems	2	41056/002	732,50 /pcs
Two CIA 171 underground self-supporting boxes	2	41056/051	152,50 /pcs
Swing 230 - Electronic control unit with 433,92 Mhz radio receiver	1	41606/001	218,50
ER2N - Pair of photocells	1	41811 /001	82,50
One TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver complete with antenna	1	41923/009	76,50
ET20N - 230 V flashing light	1	41841/009	28,00




NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



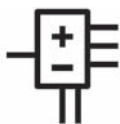
OTHER ITEMS

Underground hydraulic automations
for swing gates.
Residential, condominium and intensive use.

UNDERGROUND AUTOMATION ZT 70

	DESCRIPTION	Remarks	CODE	EURO
	AT 175 Adjustable slowdown in opening and closing, hydraulic jack complete of self-supporting box, stainless steel cover, max. leaf weight 800 kg	Max. opening 110°	41050/002	390,50
	AT 176 Adjustable slowdown in opening and closing, hydraulic jack complete of self-supporting box, stainless steel cover, max. leaf weight 800 kg	Max. opening 200°	41051/001	433,00
	PF 70 Foundation plate for AT 175, AT 176 (cataphoresis treated)		41050/050	18,00

NOTE: The operators ZT 71/72 B4/SF4 are equipped with a slower pump comparing to the versions B5/SF5 (see pages ZT 71/72).
This causes a longer opening and closing time.
The image beside the items ZT 71/72 shows the combination of the two separate products ZT 71/72 and CIA 171.



ELETTROSET - ELETTROKIT

SWING GATES ELETTROSET ESB 433.92 MHZ



DESCRIPTION	CODE	EURO
The package includes: - SWING 230 - Electronic control unit - Kit antenna 433.92 Mhz - Two TR2 - 433,92 Mhz twin-channel transmitter - ET20N - 230 V flashing light - ER4N - Pair of photocells - PC12E - Key switch for wall mounting - Aprimatic sign plate	41605/802	363,00

ELETTROKIT EKK - 230 V



DESCRIPTION	CODE	EURO
The package includes: - Kit antenna 433.92 Mhz - Two TR2 - 433,92 Mhz twin-channel transmitter - ET20N - 230 V flashing light - ER4N - Pair of photocells - PC12E - Key switch for wall mounting - Aprimatic sign plate	41700/800	201,00

ELETTROKIT EKK - 24 V



DESCRIPTION	CODE	EURO
The package includes: - Kit antenna 433.92 Mhz - Two TR2 - 433,92 Mhz twin-channel transmitter - ET2N - 24 V flashing light - ER4N - Pair of photocells - PC12E - Key switch for wall mounting - Aprimatic sign plate	41700/801	206,00





SLIDING GATES

EXTERNAL AUTOMATIONS

	MODELS	MAX- WING WEIGHT	TYPE OF INSTALLATION				CICLES DAY	CLUTCH	
			RESIDENTIAL	CONDOMINIUM	INTENSIVE	INDUSTRIAL			
	ONDA 424	400 kg	●				100	Electronic	
	ONDA 624	600 kg	●	●			100	Electronic	
	ONDA 500E ONDA 501E ONDA 501EN	500 kg Residential	●	●			100	501 Electronic	
		300 kg Condominium					200	500 Mechanical	
	ONDA 800E ONDA 801E ONDA 801EN	800 kg Residential	●	●			50	801 Electronic	
		500 kg Condominium					200	800 Mechanical	
	AT 80E	1200 kg Residential	●	●	●		200	Mechanical	
		800 kg Inten./Cond.					800		
	ONDA 2000 ONDA 2001	2000 kg Residential		●	●		1000	2001 Electronic	
		1000 kg Condominium						2000 Mechanical	
	AT 86M AT 86T AT 88T	1500 kg			●	●	(intensive use)	Mechanical	
		2000 kg						(intensive use)	Mechanical
		4000 kg						(intensive use)	Mechanical
	AT 90 AT 92	8000 kg			●	●	(intensive use)	Mechanical	
		12000 kg						(intensive use)	Mechanical

NOTE: The above mentioned data refer to carefully installed and regularly maintained products.



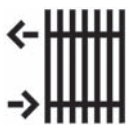
SLIDING GATES

SYSTEM TYPE FOR SLIDING GATES - EXTERNAL AUTOMATION



- 1 Gear motor with built-in electronic control unit with radio receiver on-board
- 2 Transmitter
- 3 Antenna 433,92 Mhz
- 4 Flashing light
- 5 Pair of photocells
- 6 Control device: key switch / proximity sensor access control / electronic key-pad / tamper-proof card / magnetic key reader

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ONDA 424

Low-voltage gear motor for sliding gates.
Residential use up to 400 kg.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN12453** and **EN 12445 (*)**. Maximum anti-crush safety due to the electronic torque adjustment combined with encoder technology, which also guarantees a gradual approach during opening and closing.

Service continuity guaranteed in case of power failure by an optional emergency battery unit housed in the casing.

Worm screw gear motor with permanent lubrication, aluminium body housing the electronic control unit.

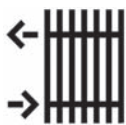
Emergency release lever with customised key, for use during power supply failures.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	80 W
ABSORBED CURRENT	4,2 A
MAX. THRUST FORCE	450 N
MAX. LINEAR SPEED	10 m/min
OPERATING TEMPERATURE	-20°C to +55°C
MAX. GATE WEIGHT	400 kg
HEIGHT OF PINION FROM GROUND	70 mm
MAX. NO. CYCLES	100 cycles/day
PROTECTION CLASS	IP44

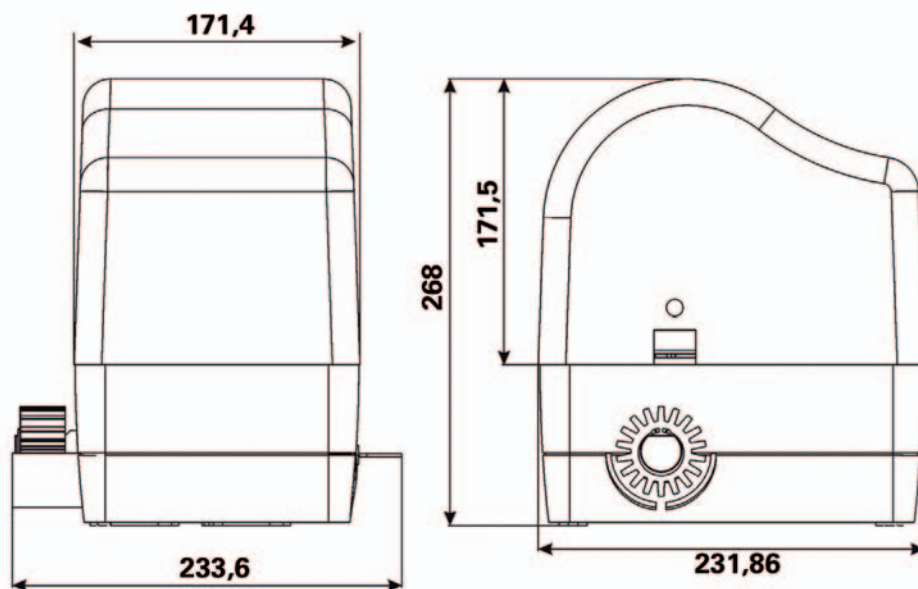
(*) Product certified under ideal installation conditions.





ONDA 424

OPERATOR DIMENSIONS

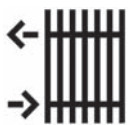


DESCRIPTION	Max. gate width	CODE	EURO
ONDA 424 Gear motor with built-in control unit and radio receiver (it needs of rack)	400 kg Residential use	41101/001	367,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433.92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Kit Antenna 433,92 Mhz for ET2N/ET20N	41929/003	15,00
433,92 Mhz antenna	41929/001	16,50
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50
Back up battery (nr. 2 batteries 12V - 1,3 Ah)	41102/050	64,00
Battery charger card	41100/050	21,00

IDEAL INSTALLATION	Q.ty	CODE	EURO
ONDA 424 gear motor with built-in control unit and radio receiver	1	41101/001	367,00
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
PC12E - Key switch for wall mounting	1	41830/007	24,00
ET2N - 24 V flashing light	1	41840/006	36,50
Aprimatic plastic rack with 5 metre steel core for use of up to a maximum of 500 kg	1	41180/052	67,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ONDA 624

Low-voltage gear motor for sliding gates.
Residential use up to 600 kg,
condominium use up to 400 kg.



Complies with the current safety standards as regard to obstacle detection and inversion of movement in accordance with **EN12453** and **EN 12445 (*)**.

Maximum anti-crush safety due to the electronic torque adjustment combined with encoder technology, which also guarantees a gradual approach during opening and closing.

Service continuity guaranteed in case of power failure by an optional emergency battery unit housed in the casing.

Easy to assemble and install thanks to optimised component layout and the much lower height of the pinion from the ground, and thanks to the eyelets and screws provided with the foundation plates for a precise positioning of the operator.

Worm screw gear motor with permanent lubrication, aluminium body housing the electronic control unit. Foundation plate height adjustable by the provided screws.

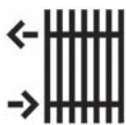
Emergency release lever with customised key, for use during power supply failures.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ABSORBED POWER	80 W
ABSORBED CURRENT	4,2 A
MAX. THRUST FORCE	650 N
MAX. LINEAR SPEED	10 m/min
OPERATING TEMPERATURE	-20°C to +55°C
MAX. GATE WEIGHT	400 kg
HEIGHT OF PINION FROM GROUND	70 mm
MAX. NO. CYCLES	100 cycles/day
PROTECTION CLASS	IP44

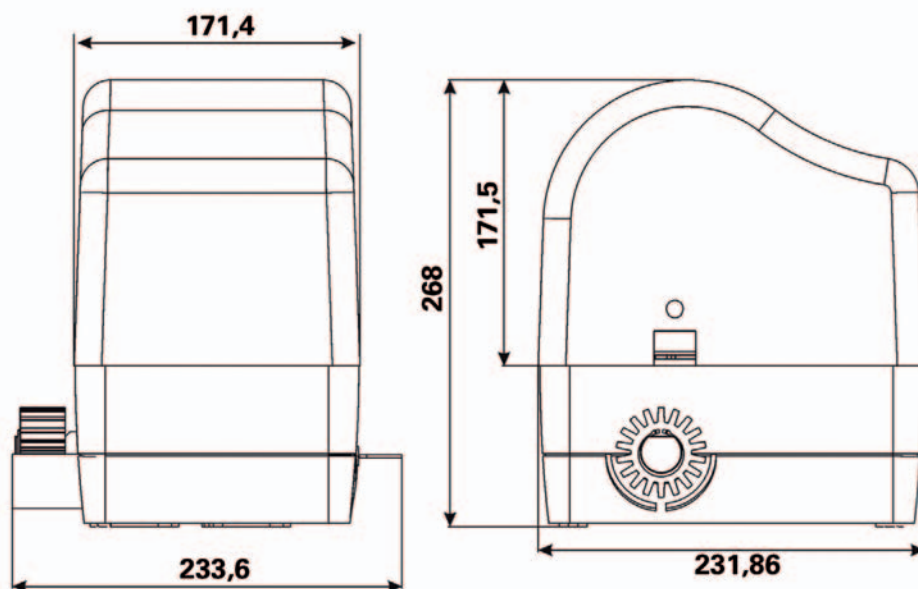
(*) Product certified under ideal installation conditions.





ONDA 624

OPERATOR DIMENSIONS

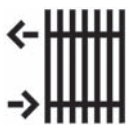


DESCRIPTION	Max. gate width	CODE	EURO
ONDA 624 Gear motor with built-in control unit and radio receiver (it needs of rack)	600 kg Residential use	41102/001	439,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
TR4 - 433.92 Mhz four-channel transmitter	41903/004	33,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Kit Antenna 433,92 Mhz for ET2N/ET20N	41929/003	15,00
433,92 Mhz antenna	41929/001	16,50
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50
Back up battery (nr. 2 batteries 12V - 1,3 Ah)	41102/050	64,00
Battery charger card	41100/050	21,00

IDEAL INSTALLATION	Q.ty	CODE	EURO
ONDA 624 gear motor with built-in control unit and radio receiver	1	41102/001	439,00
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
PC12E - Key switch for wall mounting	1	41830/007	24,00
ET2N - 24 V flashing light	1	41840/006	36,50
Aprimatic plastic rack with 5 metre steel core for use of up to a maximum of 500 kg	1	41180/052	67,00
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	1	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ONDA 500E - 501E - 501EN

Gear motor for sliding gates.
Condominium use up to 300 kg,
residential use up to 500 kg.



The new **ONDA 501EN** equipped with encoder, ensures high safety levels thanks to the obstacle detection and anti-crush function. ONDA 501EN is conformant to standard EN12445 with no need for optional safety systems such as safety edges.

Anti-crush safety is ensured by a mechanical clutch on the **ONDA 500E**.

Slide 230 electronic control unit, provided by electronic torque control and 433,92 Mhz radio receiver, is integrated in the gear motor.

Unbeatable silent running and functionality for residential applications up to 500 kg. Maximum reliability from a sturdy gear motor.

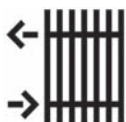
Permanently lubricated worm gear with anodised aluminium body.

Z20 Pinion is available for the application that need of faster operations speed.

TECHNICAL DATA

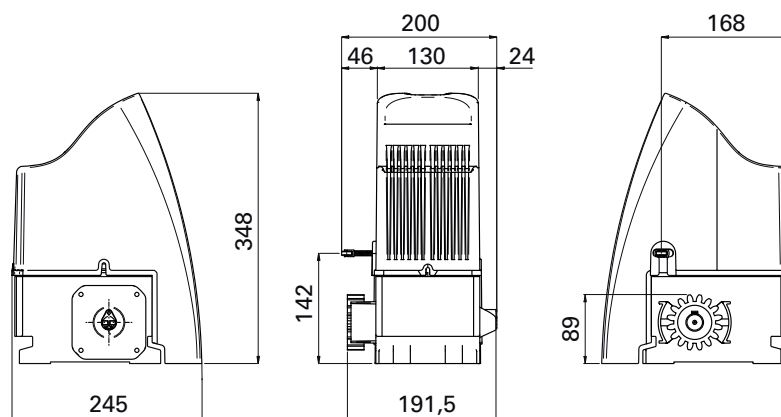
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	230 W
THRUST FORCE	940 N (Z16) 750 N (Z20)
LINEAR SPEED	9,5 m/min. (Z16) 12,0 m/min. (Z20)
MAX. GATE WEIGHT	500 kg (Z16) 300 kg (Z20)
OPERATING TEMPERATURE	-20°C to +70°C
HEIGHT OF PINION FROM GROUND	70 mm
WEIGHT	10 kg
MAX. N. CYCLES	100 cycles/day
PROTECTION CLASS	IP44





ONDA 500E - 501E - 501EN

OPERATOR DIMENSIONS

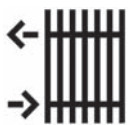


DESCRIPTION	Max. gate width	CODE	EURO
ONDA 500 Z16 (it needs rack) Gear motor with mechanical clutch and Z16 pinion, prepared to contain the Slide 230 control unit	500 kg Residential use 300 kg Condominium use	41126/030	360,50
ONDA 500E Z16 (it needs rack) Gear motor with mechanical clutch and Z16 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	500 kg Residential use 300 kg Condominium use	41126/028	501,00
ONDA 501E Z16 (it needs rack) Gear motor with electronic clutch and Z16 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	500 kg Residential use 300 kg Condominium use	41126/027	530,50
ONDA 501EN - E Z16 (it needs rack) Gear motor with encoder and Z16 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	500 kg Residential use 300 kg Condominium use	41126/035	699,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Slide 230 - Electronic control unit with 433,92 Mhz radio receiver	41616/001	194,00
Card for double ONDA "master/slave" (one card for each gear motor with SLIDE 230)	41540/053	27,00
PF 501/801 - Foundation plate (pack of 4 pcs)	41126/051	14,50
Unico 433,92 Mhz Memory System radio receiver with antenna included	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
SB 500/800 - Personalised release key	41126/050	18,00
Aprimatic plastic rack with 5 metre steel core for use of up to a maximum of 500 kg	41180/052	67,00

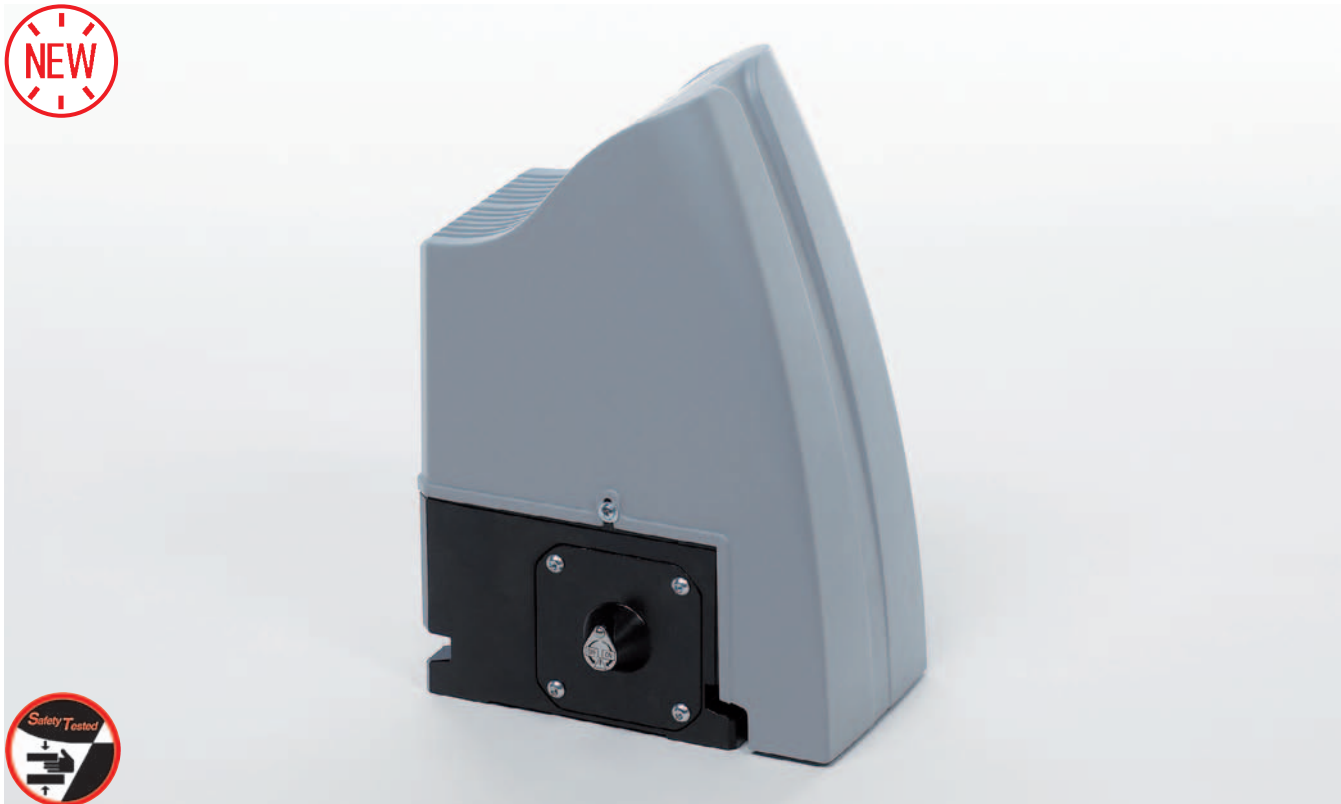
IDEAL INSTALLATION	Q.ty	CODE	EURO
ONDA 501E Z16 Gear motor with electronic clutch, built-in Slide 230 control unit with 433,92 Mhz radio receiver	1	41126/027	530,50
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
ET20N - 230 V flashing light	1	41841/009	28,00
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	1	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ONDA 800E - 801E - 801EN

Gear motor for sliding gates.
Condominium use up to 500 kg,
residential use up to 800 kg.



The new **ONDA 801EN** equipped with encoder, ensures high safety levels thanks to the obstacle detection and anti-crush function. ONDA 801EN is conformant to standard EN12445 with no need for optional safety systems such as safety edges.

Anti-crush safety is ensured by a mechanical clutch on the **ONDA 800E**.

Slide 230 electronic control unit, provided by electronic torque control and 433,92 Mhz radio receiver, is integrated in the gear motor.

Irreversible worm reduction unit with anodized aluminium body.
Steel gears in permanent lubrication.

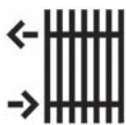
Manual key release in the event of mains power supply failure.

Z20 Pinion is available for the application that need of faster operations speed.

TECHNICAL DATA

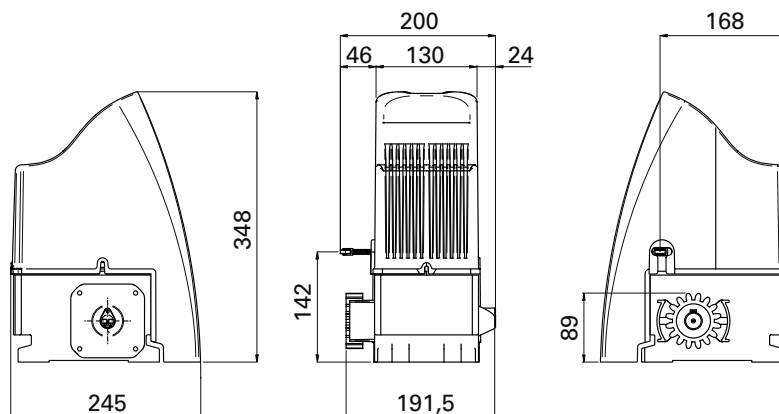
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	260 W
ABSORBED CURRENT	1.6 A
MAX. THRUST FORCE	1250 N (Z16) 1000 N (Z20)
LINEAR SPEED	9,5 m/min (Z16) 12,0 m/min (Z20)
OPERATING TEMPERATURE	-20°C to +70°C
MAX. GATE WEIGHT	800 kg (Z16) 500 kg (Z20)
OVERLOAD TEMPERATURE	90° C
HEIGHT OF PINION FROM GROUND	70 mm
MAX. NO. CYCLES	50 cycles/day
LUBRICANT TYPE	Shell TIVELA-GL00
PROTECTION CLASS	IP44





ONDA 800E - 801E - 801EN

OPERATOR DIMENSIONS



DESCRIPTION	Max. gate width	CODE	EURO
ONDA 800 Z16 (it needs rack) Gear motor with mechanical clutch and Z16 pinion, prepared to contain the Slide 230 control unit	800 kg Residential use 500 kg Condominium use	41127/029	405,00
ONDA 800E Z16 (it needs rack) Gear motor with mechanical clutch and Z16 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	800 kg Residential use 500 kg Condominium use	41127/031	514,00
ONDA 801 Z16 (it needs rack) Gear motor with electronic clutch and Z16 pinion, prepared to contain the Slide 230 control unit	800 kg Residential use 500 kg Condominium use	41127/021	384,50
ONDA 801E Z16 (it needs rack) Gear motor with electronic clutch and Z16 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	800 kg Residential use 500 kg Condominium use	41127/023	608,00
ONDA 801EN - E Z16 (it needs rack) Gear motor with encoder and Z16 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	800 kg Residential use 500 kg Condominium use	41127/035	758,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Slide 230 - Electronic control unit with 433,92 Mhz radio receiver	41616/001	194,00
Card for double ONDA "master/slave" (one card for each gear motor with SLIDE 230)	41540/053	27,00
PF 501/801 - Foundation plate (pack of 4 pcs)	41126/051	14,50 /pcs
Unico 433,92 Mhz Memory System radio receiver with antenna included	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
SB 500/800 Personalised release key	41126/050	18,00
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50

IDEAL INSTALLATION	Q.ty	CODE	EURO
ONDA 801E Z16 Gear motor with electronic clutch, built-in Slide 230 control unit with 433,92 Mhz radio receiver	1	41127/023	590,00
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
ET20N - 230 V flashing light	1	41841/009	28,00
Aprimatic galvanized rack pith 4 complete with couplings (5 m)	1	41180/053	81,50

NOTE: The lower gate wheels must not be too small for the weight of the structure (the minimum diameter of the wheels is 120 mm).

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



AT 80E

Gear motor for sliding gates.
Intensive use up to 800 kg,
residential use up to 1200 kg.



Maximum reliability thanks to the steel gears in oil bath.

Maximum safety thanks to the mechanical anti-crush clutch system. Drive coupling and transmission are achieved using a rack pinion.

Oil bath gear motor with irreversible reduction unit eliminating the need for additional locking systems.

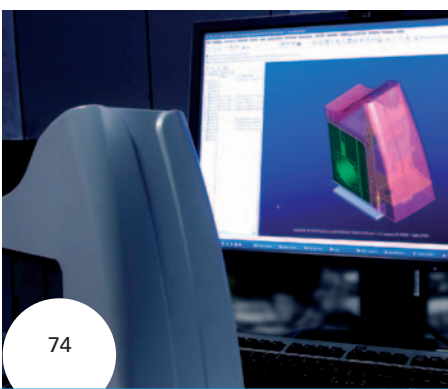
Anti-crush safety is ensured by an adjustable oil bath clutch which reduces the thrust force of the gate in case of obstacles.

AT80 can be secured to the ground with either a pivoting or fixed support. The pivoting support enables functioning even when the guide on the ground is not perfectly levelled thus preventing mechanical stress.

AT80E version, operator with on-board electronic control unit Slide 230 with 433,92 MHz radio receiver and electronic torque control.

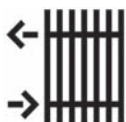
TECHNICAL DATA

POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	330 W
MAX. THRUST FORCE	1400 N (Z16) 1120 N (Z20)
LINEAR SPEED	9,5 m/min (Z16) 12,0 m/min (Z20)
OPERATING TEMPERATURE	-20° +70° C
LUBRICANT QUANTITY	1,25 Lt
LUBRICANT TYPE	AprimOil DN 22
MAX. GATE WEIGHT	1200 kg (Z16) 800 kg (Z20)
HEIGHT OF PINION FROM GROUND	70 mm
MAX. NO. CYCLES	50 cycles/day
PROTECTION CLASS	IP44



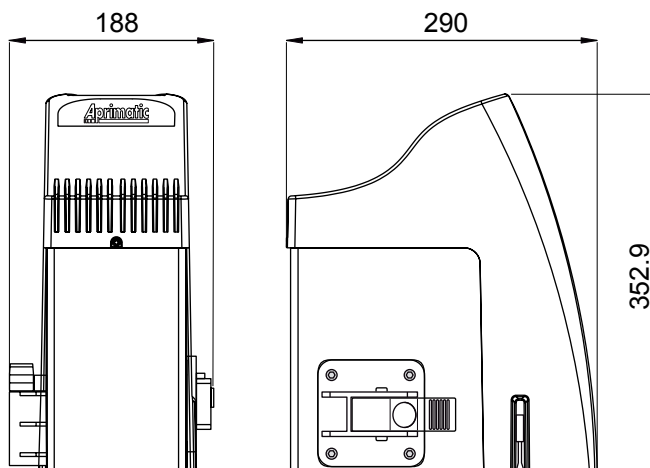
TPR-Remote programmer Slide 230 control unit.





AT 80E

OPERATOR DIMENSIONS



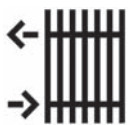
DESCRIPTION	Max. gate width	CODE	EURO
AT 80E YZ16 (it needs rack) Gear motor with 16 teeth rack and pitch 4 pinion, built-in Slide 230 control unit with 433,92 Mhz radio receiver	800 kg Intensive use 1200 kg Residential use	41120/023	745,00
AT 80 YZ16 (it needs rack) Gear motor with 16 teeth rack and pitch 4 pinion, without control unit, with electro-mechanical limit switch, IF80 fixed installation required	800 kg Intensive use 1200 kg Residential use	41120/021	468,00

NOTE: Each installation needs one fixing kit IF80 or IB80.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Slide 230 - Electronic control unit with 433,92 Mhz radio receiver	41616/001	194,00
Card for double ONDA "master/slave" (one card for each gear motor with SLIDE 230)	41540/053	27,00
PF80 - Foundation plate (pack 4 pieces)	41120/050	13,50/pcs
IB80 - Pivoting installation	41120/052	42,50
IF 80 - Fixed installation	41120/051	15,50
Unico 433,92 Mhz memory System radio receiver with antenna included	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER2N - Pair of photocells	41811/001	82,50
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50
TPR - Remote programmer Slide 230 control unit	41702/004	102,00

IDEAL INSTALLATION	Q.ty	CODE	EURO
AT 80E YZ16 - Gear motor	1	41120/023	745,00
IF 80 - Fixed installation	1	41120/051	15,50
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
ET20N - 230 V flashing light	1	41841/009	28,00
Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	1	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ONDA 2000 - 2001

Gear motor for sliding gates
of 1000 kg to 2000 kg.
Intensive use.



Up to 2000 kg for residential use or up to 1000 kg for condominium use.

Anti-crush safety is ensured by a mechanical clutch on the **ONDA 2000**.

ONDA 2001 - with built-in Slide 230 control unit with 433,92 MHz radio receiver and electronic torque control.

Maximum reliability thanks to the steel gears in permanent lubrication.

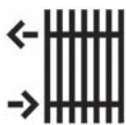
Emergency release lever with customized key, for use during power supply failures.

NOTE: Potential risks should be carefully examined for all applications.

TECHNICAL DATA

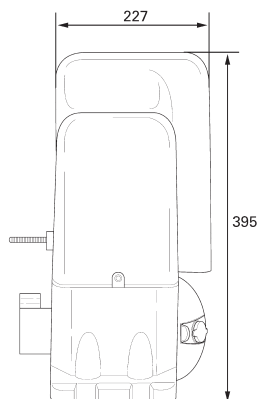
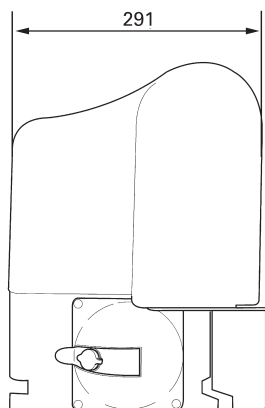
MOTOR POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	700 W
MAX. THRUST FORCE	2570 N
MAX. WING SPEED	9.5 m/min
OPERATING TEMPERATURE	-20°C to +70°C
MAX. GATE WEIGHT	2000 kg
LIMIT SWITCH	Electro-mechanical
PINION	Z16
LUBRICANT TYPE	AprimOil DN 22
PROTECTION CLASS	IP44





ONDA 2000 - 2001

OPERATOR DIMENSIONS



DESCRIPTION	Max. gate width	CODE	EURO
ONDA 2000 Z16 (it needs rack) Gear motor with mechanical clutch and 16 tooth pinion, prepared to contain the Slide 230 control unit	2000 kg Residential use 1000 kg Condominium use	41125/007	513,00
ONDA 2001E Z16 (it needs rack) Gear motor with built-in Slide 230 control unit with 433,92 Mhz radio receiver, with electronic torque control and 16 tooth pinion	2000 kg Residential use 1000 kg Condominium use	41125/005	629,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Slide 230 - Electronic control unit with 433,92 Mhz radio receiver	41616/001	194,00
PF 2000 - Foundation plate	41125/050	19,00
Unico 433,92 Mhz Memory System radio receiver with antenna included	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
CAL - Aluminium column for the ER4N photocells	41812/050	30,00
433,92 Mhz antenna	41929/001	16,50
Straight safety edge 1,5 m	41850/002	59,00
Straight safety edge 2,0 m	41850/003	65,00
Straight safety edge 3,0 m	41850/004	72,50
Aprimatic galvanized rack pitch 4 complete with couplings	41180/053	81,50

IDEAL INSTALLATION	Q.ty	CODE	EURO
ONDA 2001E Z16 Gear motor with built-in Slide 230 control unit, with electronic torque control	1	41125/005	629,50
ER4N - Pair of photocells	1	41812/001	61,00
TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver with antenna included	1	41923/009	76,50
ET20N - 230 V flashing light	1	41841/009	28,00
Aprimatic galvanized rack pitch 4 complete with couplings	1	41180/053	81,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



AT 86 - AT 88T

Gear motor for industrial sliding gates
up to 4000 kg.
Intensive use.



This operators are designed to meet the challenge of powering heavy sliding gates and situations where heavy-duty and reliability are essential.

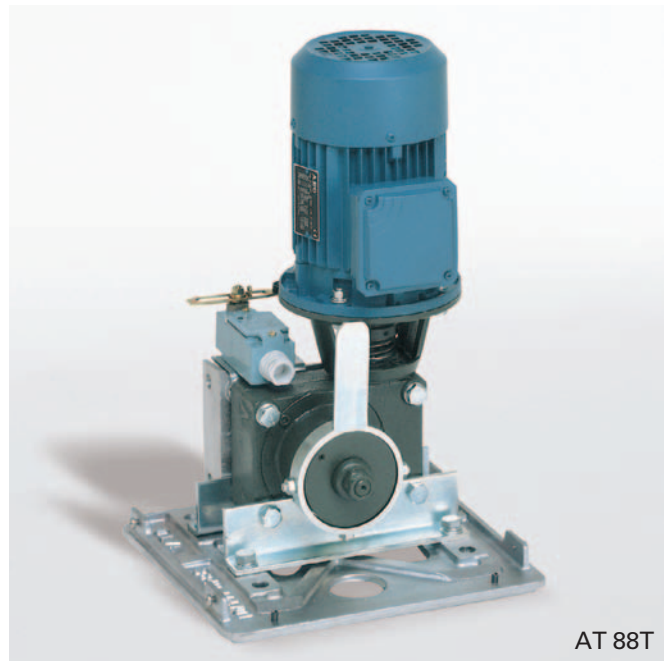
An adjustable dry clutch to protect the drive against damages.

Tooth pinion suitable for module 4 rack.
The zinc plated meter rack available with three slotted holes is complete with support pegs and bolts.
Mechanical limit switch double action by lever.

The electromechanical drive comprises a fully ventilated motor.

Mechanical emergency release by lever for manual operation in case of power failure.

The motoreductor is constructed in stainless steel, equipped of door with opening to key.



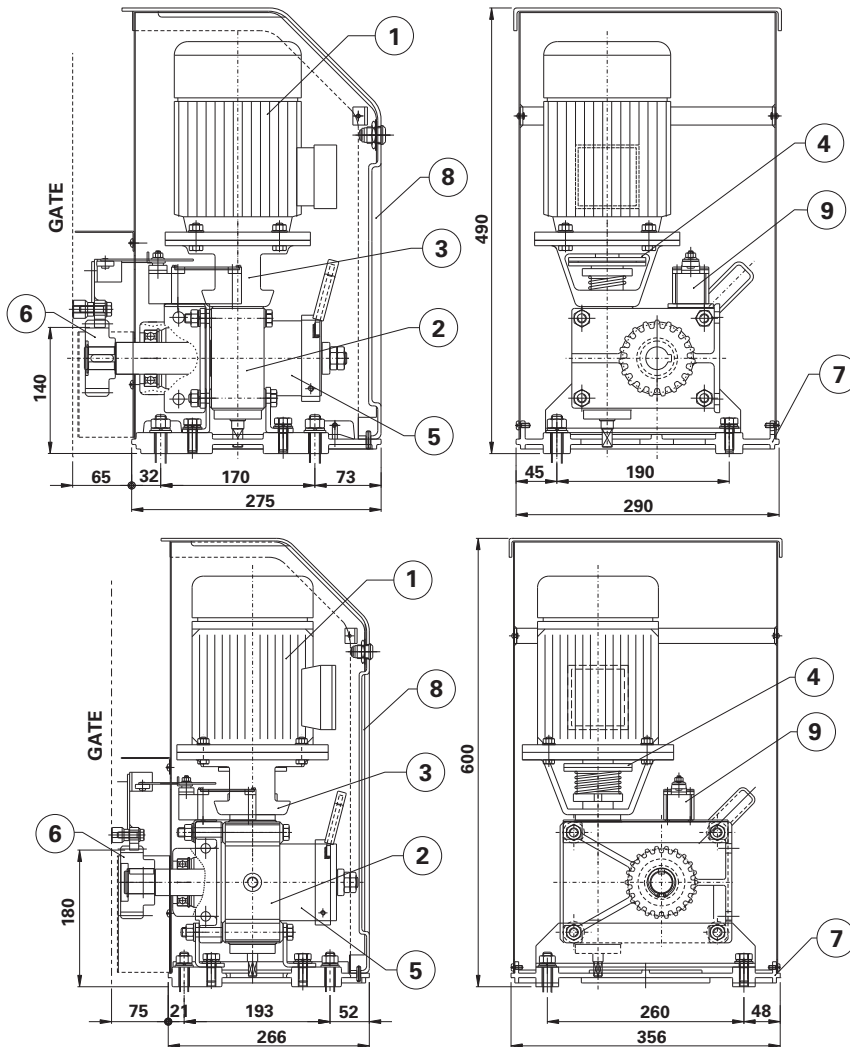
AT 88T

TECHNICAL DATA	AT 86M	AT 86T	AT 88T
POWER SUPPLY	Single-phase 230 V - 50/60 Hz	Three-phase 230/400 V - 50/60 Hz	Three-phase 230/400 V - 50/60 Hz
ABSORBED POWER	0,37 Kw	0,37 Kw	0,96 Kw
MAX. ABSORPTION	2,8 A	1,07 A (at 400 V)	2,6 A (at 400 V)
MOTOR TURNS/PINION RPM g/1'	1400/36	1400/36	1400/33
DRIVE FORCE m/min.	9	9	9
PINION MODULE	4 mm	4 mm	4 mm
OPERATING TEMPERATURE	-15° +60° C	-15° +60° C	-15° +60° C
MAX. GATE WEIGHT	kg 1500	kg 2000	kg 4000
LUBRICATION TYPE	DTSINT 320	DTSINT 320	DTSINT 320
PROTECTION CLASS	IP44	IP44	IP44



AT 86 - AT 88T

OPERATOR DIMENSIONS



MAIN OPERATOR ITEMS FOR AT 86 MOTOREDUCTOR :

- 1- Motor
- 2- Worm reduction unit
- 3- Bell type coupling between the motor and the reduction unit
- 4- Adjustable single disk dry clutch
- 5- Release device a rotating lever at 90° for emergency operation
- 6- Pinion
- 7- Base of the operator
- 8- Cabinet in stainless steel
- 9- Mechanical limit switch

MAIN OPERATOR ITEMS FOR AT 88T MOTOREDUCTOR :

- 1- Motor
- 2- Worm reduction unit
- 3- Bell type coupling between the motor and the reduction unit
- 4- Adjustable single disk dry clutch
- 5- Release device a rotating lever at 90° for emergency operation
- 6- Pinion
- 7- Base of the operator
- 8- Cabinet in stainless steel
- 9- Mechanical limit switch

DESCRIPTION

DESCRIPTION	CODE	EURO
AT 86M - Single-phase gear motor (foundation plate included)	41133/001	1.742,00
AT 86T - Three-phase gear motor (foundation plate included)	41134/002	1.742,00
AT 88T - Three-phase gear motor (foundation plate included)	41124/001	1.880,00

CODE

EURO

DESCRIPTION ACCESSORIES

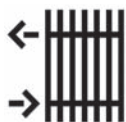
AT 88E - Electronic control unit supplied in a sealed Aprimatic (IP55) container and 4 functioning levels: automatic, semi-automatic, rapid automatic (0.5 sec. pause for parking access) and dead man, suitable for an operator with max. power of 1200 W (1.5 Hz), three-phase (230/380 V - 50/60 Hz) or single-phase (230 V - 50/60 Hz)

CODE

EURO

RRSE - Unico 433.92 Mhz Memory System radio receiver	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ANT433 - 433,92 Mhz antenna	41929/001	16,50
PC12E - Key switch for wall mounting	41830/007	24,00
ET22 - 230 V flashing light	41841/001	54,00
ER2N - Pair of modulated infra-red photocells	41811/001	82,50
CZ - Aprimatic galvanized rack pitch 4 complete with couplings (5 m)	41180/053	81,50
CF1M - Straight safety edge 1,5 m	41850/002	59,00
CF2M - Straight safety edge 2,0 m	41850/003	65,00
CF3M - Straight safety edge 3,0 m	41850/004	72,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



AT 90T - AT 92T

Gear motor for industrial sliding gates
up to 12000 kg.
Intensive use.



This operators are designed to meet the challenge of powering heavy sliding gates and situations where heavy-duty and reliability are essential.

An adjustable dry clutch to protect the drive against damages.

Toothed wheel for 5 mm rack module (Mod. AT 90T) and 8 mm rack module (Mod. AT 92T).
Rack available in 1m elements with adjustment slots and gate fixing spacers.
Two-way lever mechanical limit switch.

The electromechanical drive comprises a fully ventilated motor.

Mechanical emergency release by lever for manual operation in case of power failure (Mod. AT 90T).

The motoreductor is constructed in stainless steel, equipped of door with opening to key.



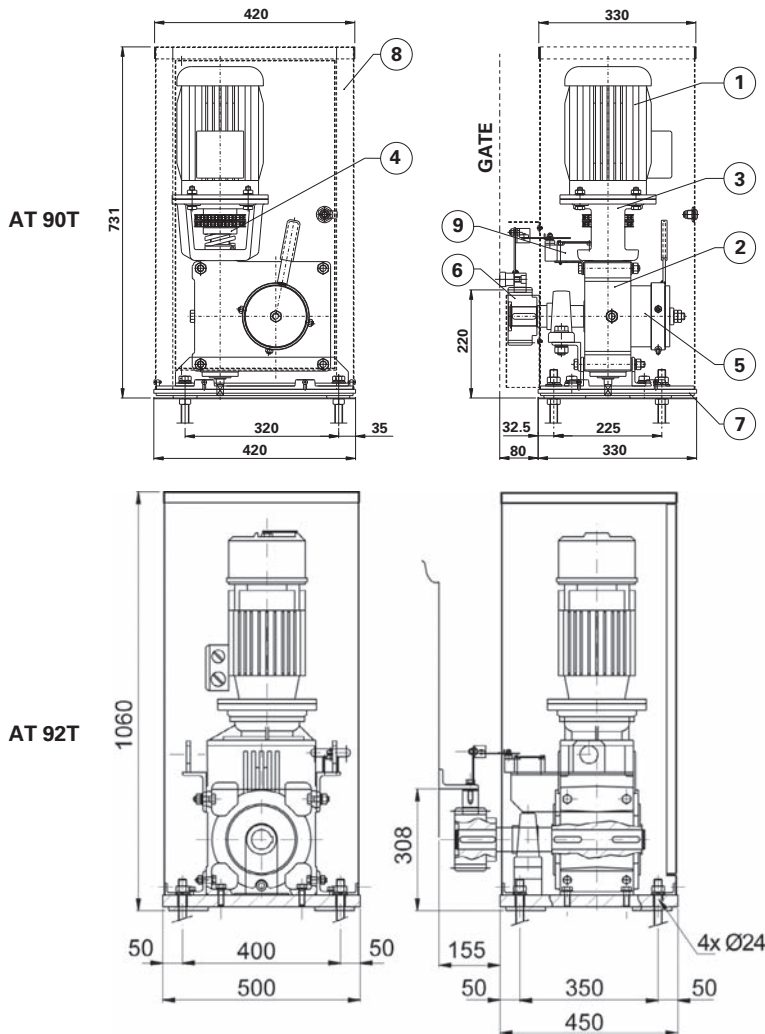
AT 90T

TECHNICAL DATA	AT 90T	AT 92T
POWER SUPPLY	Three-phase 230/400 V - 50/60 Hz	Three-phase 230/400 V - 50/60 Hz
ABSORBED POWER	1,85 Kw	3 Kw
MAX. ABSORPTION	4,4 A (at 400 V)	6,8 A (at 400 V)
MOTOR TURNS/PINION RPM g/1'	1400/23	1400/20
DRIVE FORCE m/min.	8	9
PINION MODULE	5 mm	8 mm
OPERATING TEMPERATURE	-15° +60° C	-15° +70° C
MAX. GATE WEIGHT	kg 8000	kg 12000
LUBRICATION TYPE	DTSINT 320	TIVELA OIL SC320
PROTECTION CLASS	IP44	IP44



AT 90T - AT 92T

OPERATOR DIMENSIONS



MAIN OPERATOR ITEMS FOR AT 90T - AT 92T MOTOREDUCTOR :

- 1- Motor
- 2- Worm reduction unit
- 3- Bell type coupling between the motor and the reduction unit
- 4- Adjustable single disk dry clutch
- 5- Release device a rotating lever at 90° for emergency operation
- 6- Pinion
- 7- Base of the operator
- 8- Cabinet in stainless steel
- 9- Mechanical limit switch

DESCRIPTION	CODE	EURO
AT 90T - Three-phase gear motor (foundation plate included)	41134/001	4.689,50
AT 92T - Three-phase gear motor (foundation plate included)	41134/003	5.870,00
8382L - Three-phase electronic control unit	41637/001	648,00

DESCRIPTION ACCESSORIES	CODE	EURO
RRSE - Unico 433.92 Mhz Memory System radio receiver	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ANT433 - 433,92 Mhz antenna	41929/001	16,50
PC12E - Key switch for wall mounting	41830/007	24,00
ET22 - 230 V flashing light	41841/001	54,00
ER2N - Pair of modulated infra-red photocells	41811/001	82,50
CZ - 5 module galvanised steel rack (1 metre with connections)	41180/061	107,00
CZ - 8 module galvanised steel rack (1 metre with connections)	41180/062	204,00
CF1M - Straight safety edge 1,5 m	41850/002	59,00
CF2M - Straight safety edge 2,0 m	41850/003	65,00
CF3M - Straight safety edge 3,0 m	41850/004	72,50





NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).







COUNTERWEIGHT UP-AND-OVER SECTIONAL AND FOLDING DOORS


AUTOMATIONS FOR COUNTERWEIGHT UP-AND-OVER DOORS

	MODELS	MAX. DOOR DIMENSIONS	FREQUENCY OF USE		CICLES DAY	SAFETY	TECHNOLOGY
			Residential	Intensive			
	ALZO	3,5 x 3,0 m	●		50	RC e A*	Electro-mechanical
	TWIN ALZO	5,0 x 3,0 m	●		50	RC e A*	Electro-mechanical
	AT 50	3,5 x 3,0 m	●	●	150	By-pass valves	Hydraulic
	TWIN AT 50	5,0 x 3,0 m	●	●	150	By-pass valves	Hydraulic

AUTOMATIONS FOR SECTIONAL AND COUNTERWEIGHT UP-AND-OVER DOORS

	APRIBOX 700***	10 m ²	●		30	A*	Electro-mechanical
	APRIBOX 1200***	14 m ²	●		30	A*	Electro-mechanical

AUTOMATIONS FOR FOLDING DOORS

	AT 56	1,5 m		●	150	By-pass valves	Hydraulic
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* RC electronic torque control; A anti-crush system.

** Model selection depends on the force needed to handle the door and not on dimensions.

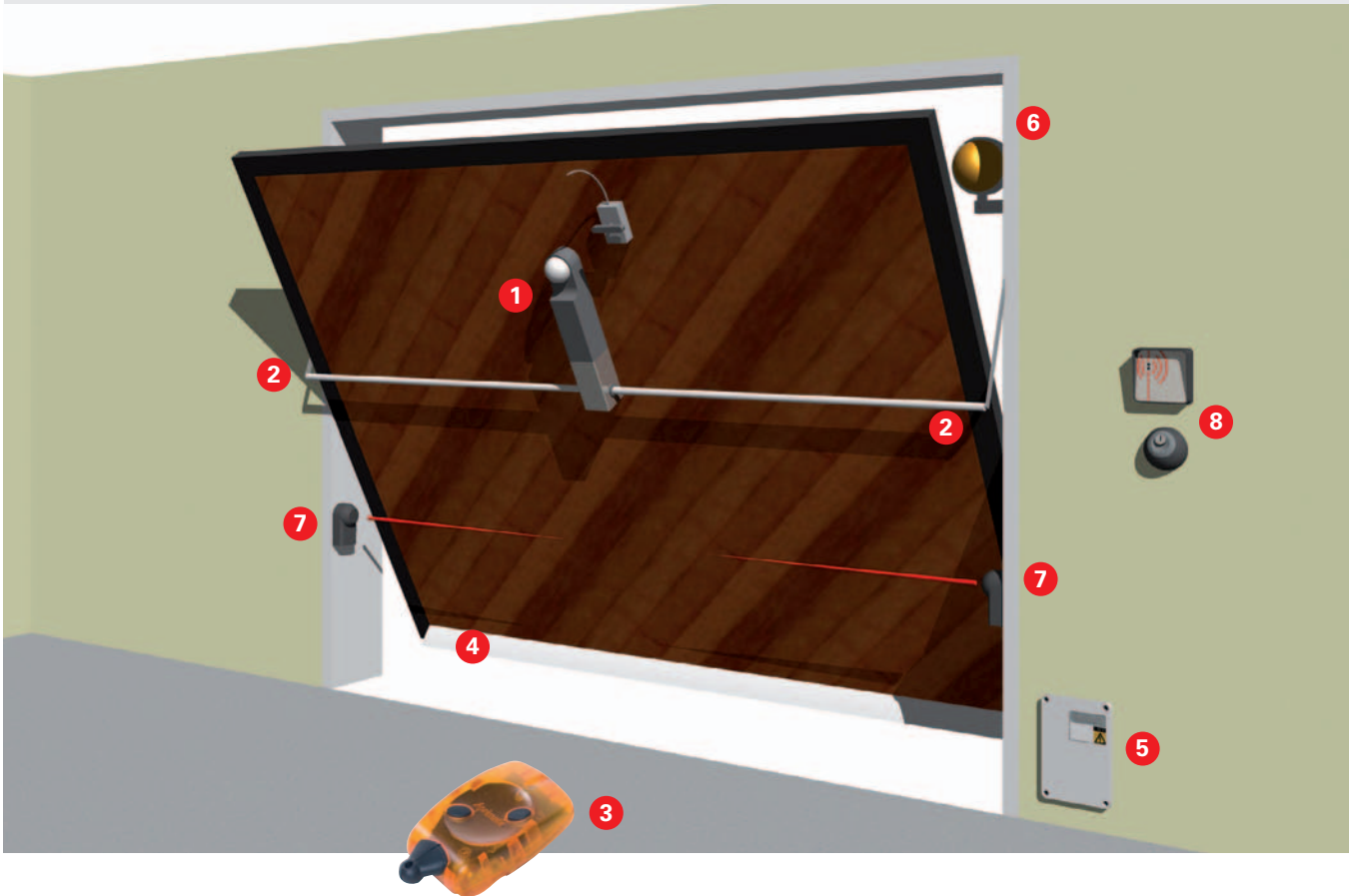
*** Can be used on counterweight up-and-over doors if fitted with curved arm.

NOTE: The above mentioned data refer to carefully installed and regularly maintained products.

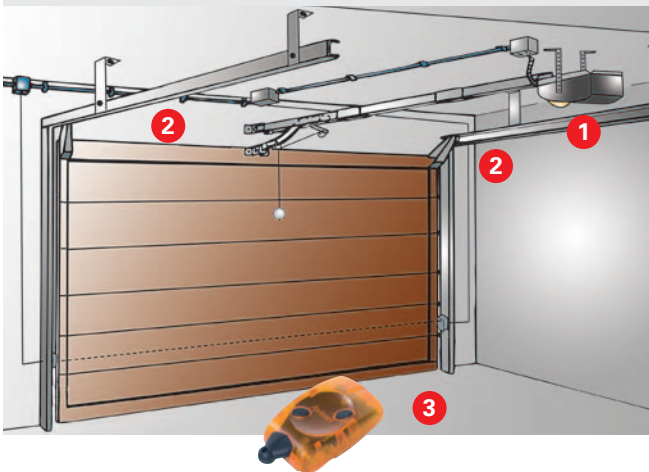


COUNTERWEIGHT UP-AND-OVER SECTIONAL AND FOLDING DOORS

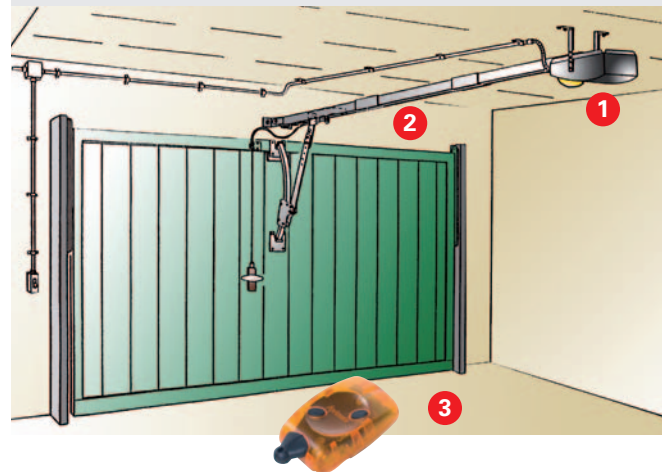
WIRING DIAGRAM



INSTALLATION LAYOUT FOR SECTIONAL DOORS



INSTALLATION LAYOUT FOR COUNTERWEIGHT UP-AND-OVER DOORS



- 1 Operator
- 2 Curved arm
- 3 Transmitter
- 4 Safety edge

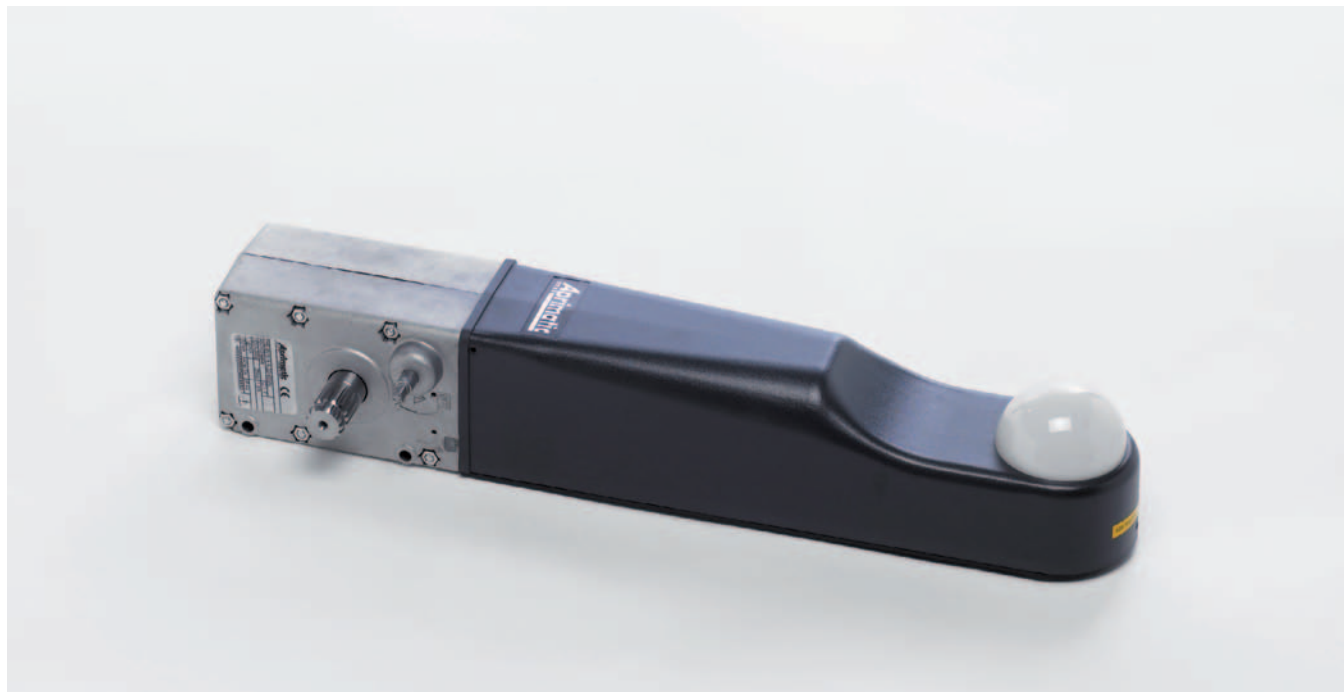
- 5 Electronic control unit
- 6 433,92 Mhz Antenna and flashing light
- 7 Pair of photocells
- 8 Opening devices

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ALZO

Electro-mechanical operator for counterweight up-and-over doors.
Residential use.



Irreversible reduction unit, it keeps the up-and-over door closed even without electric lock.

External emergency release (optional) for access to the garage in the event of a power failure.

Carefully selected top quality materials.

Drive components in steel, gear motor body in die-cast aluminium, and equipment cover in ABS.
IP 44 protection rating.

Maximum anti-crush safety thanks to an on-board electronic control with electronic torque control and (switchable) anti-crush system.

Timed courtesy light incorporated in the operator to light the garage during door opening and closing.

Slowdown system for gradual approach at the end of opening and closing movements, preventing banging and unnecessary structural stress.

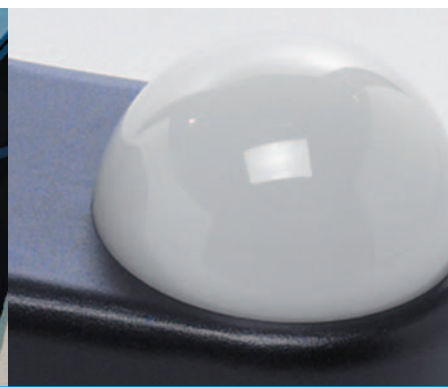
This is one of the best operators on the market in terms of performance.

The torsional force of 450 Nm that it develops makes it suitable for automating counterweight up-and-over doors of the following sizes:

- 3.5 x 3 m using just one motor;
- 5 x 3 m or with pedestrian door using two motors.

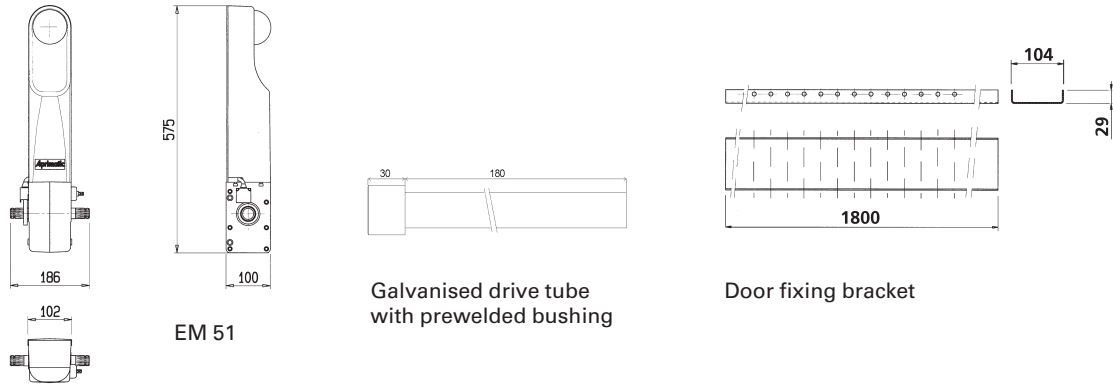
TECHNICAL DATA

POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	250 W
ABSORBED CURRENT	1,6 A
NOMINAL TORQUE	450 Nm
OPERATING TEMPERATURE	-20°C to +70°C
OPENING TIME	17 sec.
OVERLOAD TEMPERATURE	150° C
INTERMITTENT USE	50%
PROTECTION CLASS	IP44



ALZO

OPERATOR DIMENSIONS



DESCRIPTION	Max. door width	CODE	EURO
Operator ALZO with T3EC - Electronic control unit on board Aprimatic sign plate	3,5 x 3,0 m	41210/002	430,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ANT433 - 433.92 Mhz antenna with 4,5 m coaxial cable and earthing connection	41929/001	16,50
ET2N - 24 V flasher light	41840/006	36,50
PS - Start button (pack of 10 pieces)	41210/070	9,50/pcs
TZ - Galvanized tube, 1,8 m, Ø 25 mm x 3, with prewelded bushes	41210/068	30,00
SS EM 51 - Single external emergency release	41210/054	19,00
SD EM 51 - Double external emergency release	41210/055	38,50
CF3MS - 3,0 m safety edge (thin type for garage doors)	41850/001	67,00
Pair of straight telescopic arms	41201/052	36,50
Pair of curved telescopic arms	41201/051	54,00
ST126 - Door panel fixing bracket, length 126 cm (as alternative to ST180)	41210/066	28,00
PST - Extension for door panel fixing bracket	41210/067	15,50
Kit antenna for fixing on body flashing -lamp	41929/003	15,00

SINGLE MOTOR ideal installation (max. door size 3.5x3 m)	Q.ty	CODE	EURO
Operator ALZO with T3EC - Electronic control on board	1	41210/002	430,00
RR SE - 433.92 Mhz single super-heterodyne receiver	1	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	1	41903/002	31,00
Pair of plasma cut, quick fit curved arms (5 mm thick)	1	41210/058	65,00
HARDWARE KIT Two TZ - Galvanized tubes, 1,8 m, Ø 25 mm x 3, with prewelded bushes ST180 - Door fixing bracket, length 180 cm	1	41210/062	76,50

DOUBLE MOTOR ideal installation (max. door size 5x3 m)	Q.ty	CODE	EURO
Operator ALZO with T3EC - Electronic control on board	1	41210/002	430,00
Slave operator ALZO Including a pair of 20 cm tubes with splined bush	1	41210/001	342,00
Pair of quick fit straight arms	1	41210/069	56,00
ST180 - Door fixing bracket, length 180 cm	2	41210/061	28,00/pcs
RR SE - 433.92 Mhz single super-heterodyne receiver	1	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	1	41903/002	31,00

NOTE: The installation of Alzo requires a rebalancing of the door (see the instruction).

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



AT 50

Hydraulic operator for counterweight up-and-over doors.
Residential, condominium
and intensive use.



The anti-crush system with ultra-sensitive bypass valves can be calibrated during installation to limit hydraulic pressure if the gate meets an obstacle, thus ensuring maximum operating safety.

Ideal for heavy duty applications and large up-and-over doors.

Double open and closed position locking to secure the door's stopping position with no need for other locks.

The AT 50 is easy to install without having to modify the door.

The AT 50's spheroidal cast-iron body makes it extremely resistant to knocks and operating stress.

The internal oil seal rings ensure that the hydraulic system is leak-proof.

Low noise and consistent performance are guaranteed by polyurethane gaskets and PTE guide rings.

TECHNICAL DATA

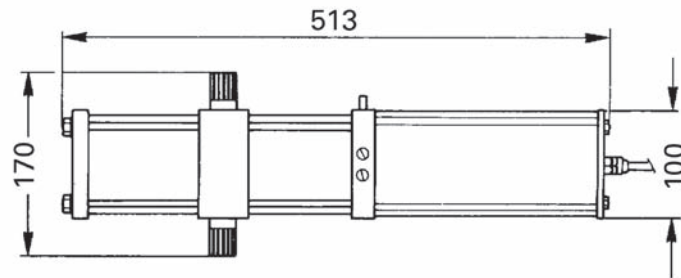
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	250 W
NOMINAL TORQUE AT 40 bar/Nm	320 N
OPERATING TEMPERATURE	-20°C to +70°C
OPENING TIME	18 sec.
MAX. OPERATING PRESSURE	40 bar
PUMP CAPACITY	1 Lt/min. (AT 50) 0,75 Lt/min. (ZT 50)
QUANTITY OF OIL	1,3 Lt
WEIGHT WITH OIL	13 kg
TYPE OF OIL	AprimOil HC 13
SHAFT ROTATION ANGLE	~200°
SLOWDOWN	Optional
PROTECTION CLASS	IP53





AT 50

OPERATOR DIMENSIONS



DESCRIPTION	Max. door width	CODE	EURO
Operator AT 50B5	3,5 x 3 m	41200/001	536,00
Operator AT 50B7	3,5 x 3 m	41200/005	541,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
AT 50 slowdown limit switch set	41201/050	22,00
SS AT 50 - External emergency release for single AT 50	41200/050	23,00
SD AT 50 - External emergency release for double AT 50	41200/051	41,50
CF3MS - 3,0 m safety edge (thin type for garage doors)	41850/001	67,00
Pair of curved telescopic arms	41201/051	54,00
Pair of straight telescopic arms	41201/052	36,50
Pair of 20 cm tubes with prewelded splined bushes	41201/055	28,00
T3 - Connector for courtesy light	41210/072	5,50

SINGLE MOTOR ideal installation (max. door size 3.5x3 m)	Q.ty	CODE	EURO
Operator AT 50B7	1	41200/005	541,00
T3E - Electronic control	1	41625/003	144,50
RR SE - 433.92 Mhz single super-heterodyne radio receiver	1	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitters	1	41903/002	31,00 /pcs
Pair of quick fit straight arms	1	41210/069	56,00
TZ - Galvanized tube, 1,8 m, Ø 25 mm x 3, with prewelded bushes	2	41210/068	30,00 /pcs
Pair of tubular upright supports 30x15x1,5 mm - 2,5 m bars	1	41201/056	27,00

DOUBLE MOTOR ideal installation (max. door size 5x3 m)	Q.ty	CODE	EURO
Two operators AT 50B7	2	41200/005	541,00 /pcs
T3E - Electronic control	1	41625/003	144,50
RR SE - 433.92 Mhz single super-heterodyne radio receiver	1	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitters	1	41903/002	31,00 /pcs
Pair of quick fit straight arms	1	41210/069	56,00
Pair of 20 cm tubes with prewelded splined bushes	1	41201/055	28,00
Pair of tubular upright supports 30x15x1,5 mm - 2,5 m bars	2	41201/056	27,00 /pcs

NOTE: The installation of AT50 requires a rebalancing of the door (see the instruction).

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



APRIBOX 700/1200

Low-voltage electro-mechanical operator
for sectional and counterweight, up-and-over, garage doors.
Residential use.



Fitted with **mechanical stops** and encoder technology to ensure precise stop at end of stroke and protection against any failures.

Maximum anti-crush safety ensured by on-board electronic control unit with auto-reverse function in case of collision with an obstacle.

APRIBOX 700 and APRIBOX 1200 can also be used to automate counterweight, up-and-over, doors if installed with curved arms.

Slowdown system for gradual approach at the end of opening and closing phases, preventing banging and structural stress.

Timed courtesy light integrated onto the operator to light up the garage during opening and closing.

The belt drive guarantees excellent reliability, wear resistance and silent operation.

In the event of power failure, the continuity of operation is guaranteed by a set of optional batteries which can be fitted in the operator casing.

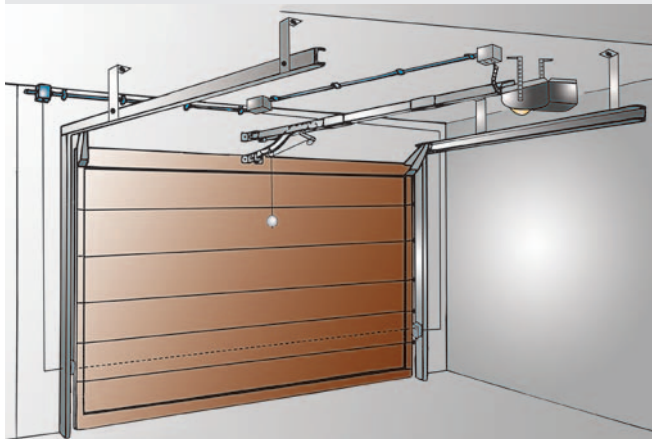
TECHNICAL DATA	APRIBOX 700	APRIBOX 1200
POWER SUPPLY	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
MOTOR POWER SUPPLY	24 Vcc	24 Vcc
ABSORBED POWER	100 W	100 W
THRUST FORCE	650 N	1200 N
OPERATING TEMPERATURE	-20°C to +55°C	-20°C to +55°C
LINEAR SPEED	Adjustable from 9 to 16 cm/sec.	
DRIVE	Belt	Belt
TOTAL LENGTH (3 m guide)	3000 mm	3000 mm
USEFUL TRAVEL (3 m guide)	2400 mm	2450 mm
MINIMUM INSTALLATION DISTANCE FROM CEILING	40 mm	40 mm
MAX. DOOR SIZE	10 m ²	14 m ²
LIMIT SWITCH	Encoder with mechanical limit switch	



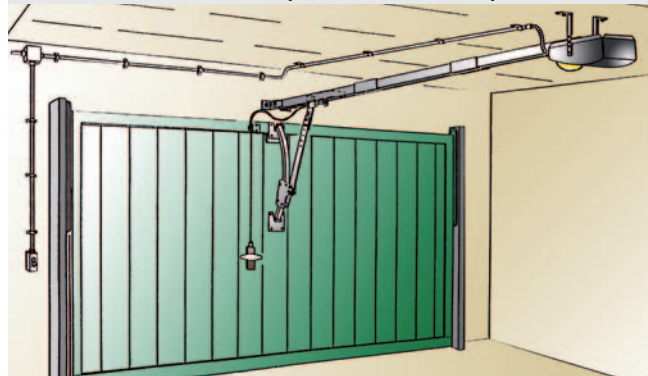


APRIBOX 700/1200

**INSTALLATION DIAGRAM
FOR SECTIONAL DOORS**



**INSTALLATION DIAGRAM FOR
COUNTERWEIGHT, UP-AND-OVER, DOORS***



* This kind of application is only possible installing the curved arm. The up-and-over door must be perfectly balanced and must have a rigid structure.

COUNTERWEIGHT
UP-AND-OVER

DESCRIPTION	Max. door width	CODE	EURO
KIT APRIBOX 700	10 m ²	41241/800	255,00
KIT APRIBOX 1200	14 m ²	41241/801	321,00
Both packages include: APRIBOX motor On-board electronic control unit 433,92 Mhz super-heterodyne radio receiver TR2 - 433,92 Mhz twin-channel transmitter Aprimatic sign plate			

DESCRIPTION OF APRIBOX ACCESSORIES	CODE	EURO
Guide 3 m (1 pc 3 m)	41241/050	162,50
Guide 3 m (2 pcs 1,5 m each)	41241/051	183,50
Guide 4 m (1 pc 1 m and 1 pc 3 m)	41241/052	243,00
Release cable	41241/054	32,50

DESCRIPTION OF APRIBOX OPTIONAL ACCESSORIES	CODE	EURO
Curved arm for Apribox	41241/056	160,00
Battery charge board kit + batteries	41241/055	84,50
Ceiling fixing bracket kit (optional)	41241/053	13,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ANT433 - 433,92 Mhz antenna with 4,5 m coaxial cable and earth connection	41929/001	16,50
ER - Pair of photocells 12V-24V	41817/002	61,00
ET2N - 24V flashing light	41840/006	36,50

COUNTERWEIGHT UP-AND OVER DOOR - Ideal installation	CODE	EURO
KIT APRIBOX 1200	41241/801	321,00
Curved arm for Apribox	41241/056	160,00
Guide 3 m (1 pc 3 m)	41241/050	162,50
Release cable	41241/054	32,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



AT 56

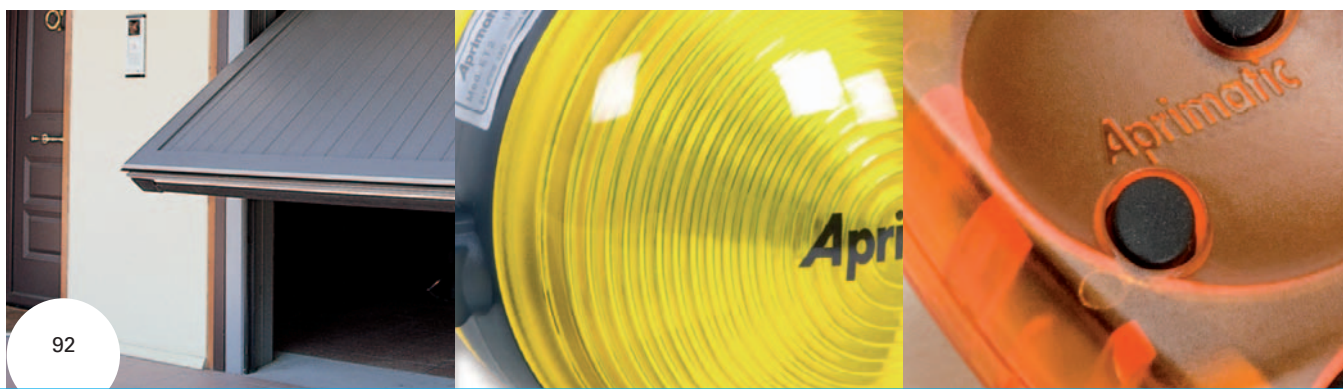
Hydraulic operator for folding doors.
Residential, condominium and intensive use.



Anti-crush system with very sensitive by pass valves calibrated during installation. This immediately cuts the hydraulic pressure in the event of obstacles to ensure maximum safety.

TECHNICAL DATA

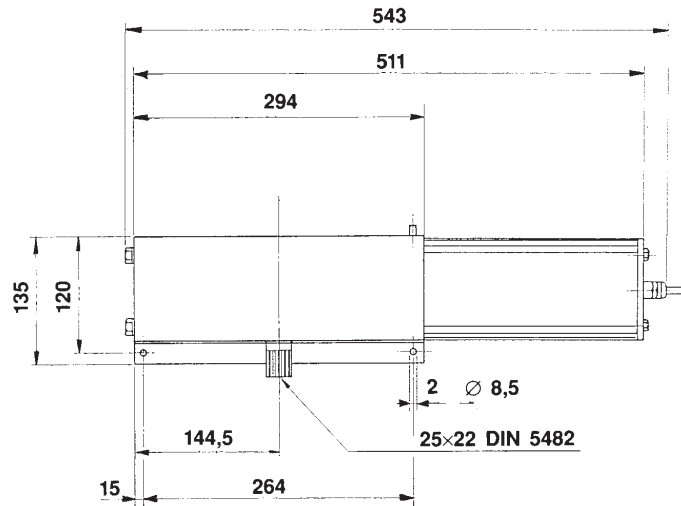
MOTOR POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	250 W
MAX. THRUST FORCE	320 N
OPERATING TEMPERATURE	-20°C to +70°C
MAX. LEAF LENGTH	1,5 m
ANTI-CRUSH SAFETY	By pass valves
NUMBER OF DAILY CYCLES	50
NUMBER OF CYCLES/HOUR	10
LUBRICATION TYPE	AprimOil DN 22
PROTECTION CLASS	IP44





AT 56

OPERATOR DIMENSIONS



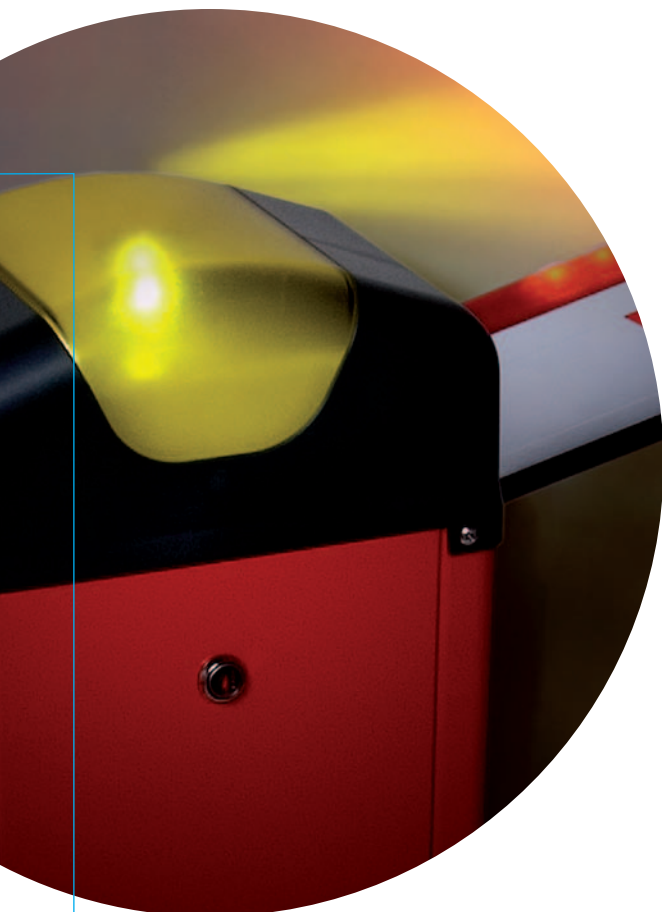
DESCRIPTION	Max. leaf width	CODE	EURO
AT 56 B7 RH Operator with hydraulic lock in opening and closing	2,0 m	41400/002.0	632,50
AT 56 B7 SH Operator with hydraulic lock in opening and closing	2,0 m	41400/011.1	632,50
AT 56 SF7 DH Operator without hydraulic lock, electric lock required	2,0 m	41400/003.0	610,00
AT 56 SF7 SH Operator without hydraulic lock, electric lock required	2,0 m	41400/012.1	610,00
Swing 230 - Electronic control unit with built in radio receiver		41606/001	218,50

NOTE: Minimum configuration operator + telescopic arm.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Telescopic arm (complete of plates and mechanical stops)	41400/050	50,50
Universal external emergency single release	41200/050	23,00
TR2 - 433,92 Mhz Twin channel transmitter	41903/002	31,00
ER4N - Pair of photocells	41812/001	61,00
PC12E - Key switch for wall mounting	41830/007	24,00
ET 20N - 230 V flashing light	41841/009	28,00
433,92 Mhz antenna	41929/001	16,50

IDEAL INSTALLATION	Q.ty	CODE	EURO
AT 56 B7 RH	1	41400/002.0	632,50
Swing 230 - Electronic control unit with built in radio receiver	1	41606/001	218,50
Telescopic arm	1	41400/050	50,50
Universal external emergency single release	1	41200/050	23,00
TR2 - 433,92 Mhz Twin channel transmitter	1	41903/002	31,00
ER4N - Pair of photocells	1	41812/001	61,00
ET 20N - 230 V flashing light	1	41841/009	28,00









NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).





TRAFFIC BARRIERS AND CLOSING SYSTEMS FOR INDUSTRIAL BUILDINGS

TRAFFIC BARRIERS AUTOMATIONS

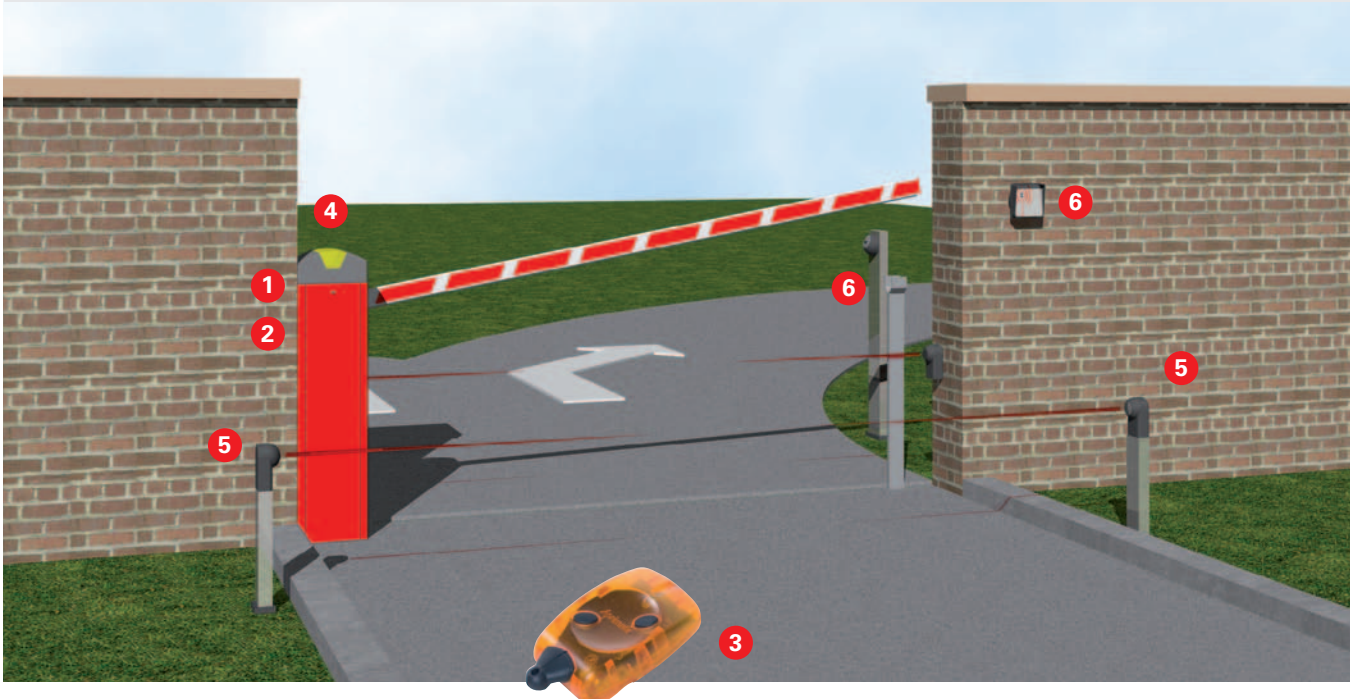
	MODELS	MAX. BEAM LENGTH	OPENING TIME	CONDITIONS OF USE			FREQUENCY OF USE	BEAM TYPE
				Residential	Condominium	Intensive		
	PATROL	4,5 m	5,0 s max.	●	●		80 %	90x25 - Ø80 85x51
	ZT 64	4,5 m	5,0 s	●	●	●	70 %	90x25
	ZT 60	6,5 m	11,0 s	●	●		70 %	100x50
	HARRIER LUX	E25 = 2,5 m E40 = 4,0m E50 = 5,0 m E60 = 6,0 m	1,8 s 2,5 s 6,0 s 9,5 s			●	100 %	90x25 - Ø80
	HARRIER E	E25 = 2,5 m E40 = 4,0m E50 = 5,0 m E60 = 6,0 m	1,8 s 2,5 s 6,0 s 9,5 s			●	100 %	90x25 - Ø80
	HARRIER X	X25 = 2,5 m X40 = 4,0m X50 = 5,0 m X60 = 6,0 m	1,8 s 2,5 s 6,0 s 9,5 s			●	100 %	90x25 - Ø80
	AT 166 AT 167	AT166 = 4,0 m AT167 = 6,0 m	2,5 s 9,5 s			●	100 %	90x25 - Ø80
	AT 168 AT 170	AT168 = 7,0 m AT170 = 10,0 m	9,5 s 17 s		●	●	100 %	100x50

NOTE: The above mentioned data refer to carefully installed and regularly maintained products.

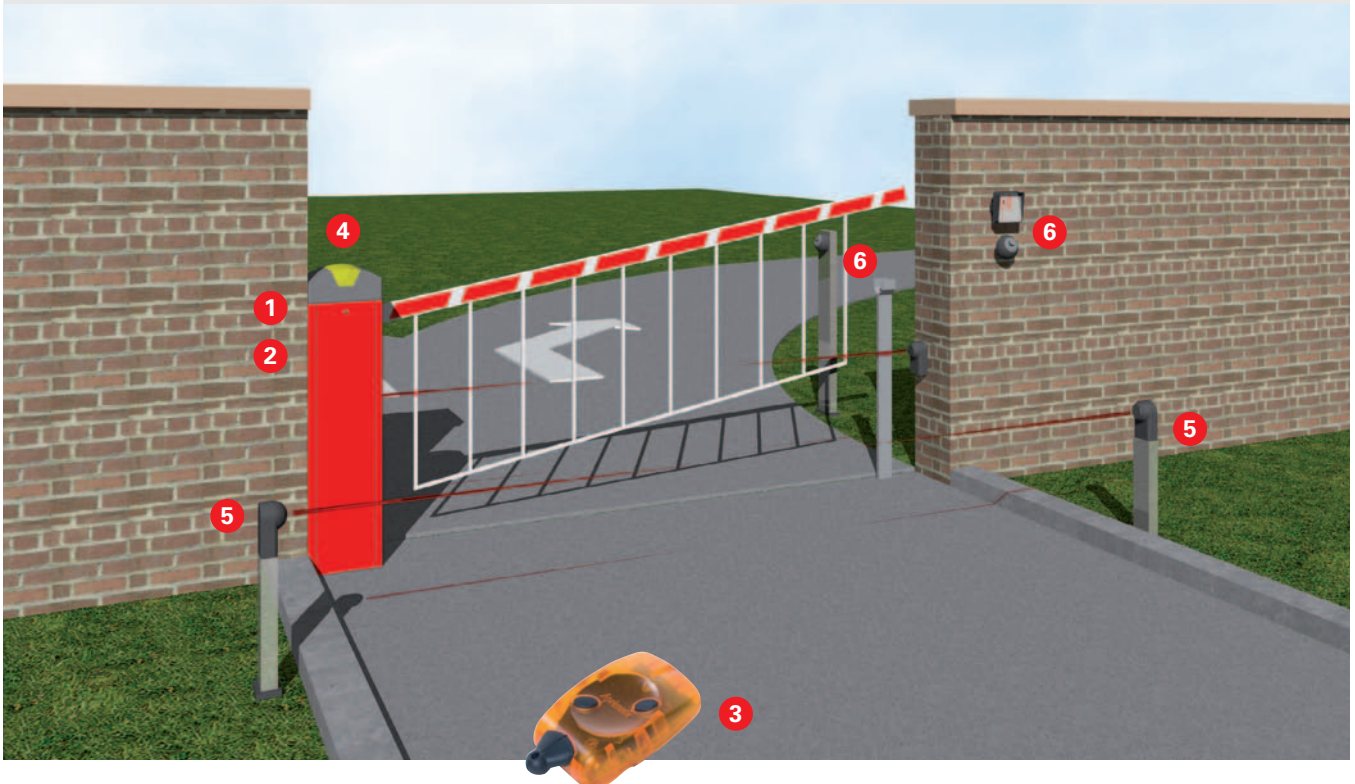


TRAFFIC BARRIERS AND CLOSING SYSTEMS FOR INDUSTRIAL BUILDINGS

SYSTEM TYPE FOR TRAFFIC BARRIERS



SYSTEM TYPE FOR TRAFFIC BARRIERS (barrier with skirt)



- 1 Traffic barrier
- 2 Electronic control unit
- 3 Transmitter
- 4 Flashing light
- 5 Pair of photocells
- 6 Control device: key switch / proximity sensor access control / electronic key-pad / tamper-proof card / magnetic key reader



PATROL

Electro-mechanical 24V barrier
for passage spans of 2 m to 4,5 m.
Residential and condominium use with duty cycle 80%.



User friendly electronics: easy programming, to set and control, thanks to the provided display.

Easy to install and setup: all you have to do is balance the compression spring. A spring type is available for each barrier length. Only one model for right and left barrier.

Compact size and latest generation design: stretched and narrow shape, with a cover integrating the flashing light.

Intended use: small / medium car park for private and industrial use.

Technical solutions:

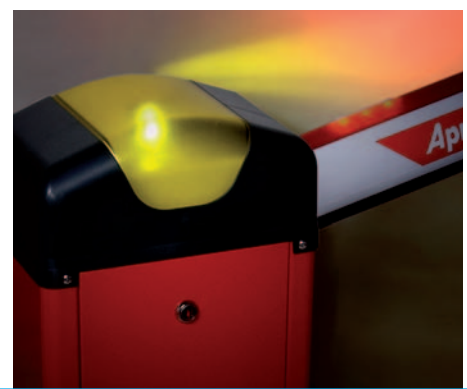
1. Super smooth action thanks to the spring-loaded balancing system.
2. Strong construction featuring a steel load-bearing framework.
3. Safe, easy to release system with personalized key.
4. The electronic control unit is housed in a protective plastic casing with easy access for wiring and programming.
5. Built-in flashing lamp.
6. Slowdown adjustable.
7. Ready for master-slave operation to control twin barriers.
8. Long service life guaranteed by the safety slow down function where microswitch control prevents forcing of mechanical components if the system is incorrectly programmed.

TECHNICAL DATA

POWER SUPPLY	230 V - 50/60 Hz
MOTOR POWER SUPPLY	24 Vcc
MAX. ABSORBED POWER	150 W
MAX. ABSORBED CURRENT ACCESSORIES	1 A
MAX. TORQUE	500 Nm
OPENING TIME	5 sec. max.
OPERATING TEMPERATURE	-20°C to +70°C
BEAM LENGTH	From 2,0 to 4,5 m max.
SLOWDOWN	YES (adjustable)
ANTI-CRUSH	YES
PROTECTION CLASS	IP44



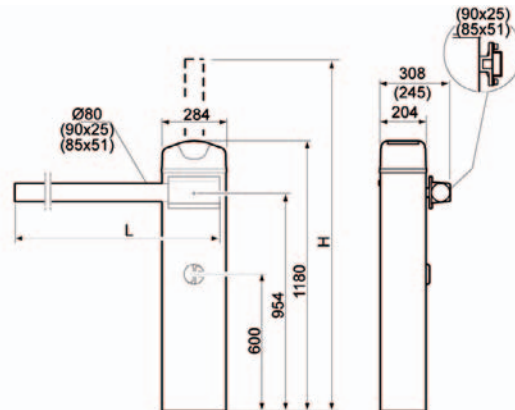
Easy access to control unit
for wiring and programming.





PATROL

OPERATOR DIMENSIONS



DESCRIPTION	CODE	EURO
PATROL with control unit and plug-in radio receiver	41540/001	1.019,00

DESCRIPTION NECESSARY ACCESSORIES	CODE	EURO
PF PATROL Base plate	41540/050	27,00
Stainless steel securing flange for 85x51 beam	41524/056	77,50
Stainless steel securing flange for 90x25 beam	41540/051	30,00
Stainless steel securing flange for Ø 80 beam	41540/052	35,50
Card for double Patrol operation "master/slave" (one for each barrier)	41540/053	27,00
BEAM 90x25:		
- Beam length 2,0 m (for spring combination see table)	41518/001	78,50
- Beam length 2,5 m (for spring combination see table)	41518/002	92,00
- Beam length 3,0 m (for spring combination see table)	41518/003	102,00
- Beam length 3,5 m (for spring combination see table)	41518/004	112,50
- Beam length 4,0 m (for spring combination see table)	41518/005	123,00
- Beam length 4,5 m (for spring combination see table)	41518/006	133,00
BEAM Ø 80:		
- Beam length 3,0 m (for spring combination see table)	41522/001	113,50
- Beam length 6,0 m (for spring combination see table)	41522/002	220,50
BEAM 85x50 with light kit mounted:		
- Beam length 3,0 m (for spring combination see table)	41524/803	255,50
- Beam length 3,5 m (for spring combination see table)	41524/804	304,00
- Beam length 4,0 m (for spring combination see table)	41524/805	314,50
- Beam length 4,5 m (for spring combination see table)	41524/806	351,50
85x51 profile beam shearing protection kit	41540/054	15,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - Twin-channel transmitter 433,92 Mhz	41903/002	31,00
FC1 - Fork support for beam	41503/052	55,00
PP - Swinging tip support	41504/055	75,50
Battery Kit	41024/053	59,00
PC12E - Key switch for wall mounting	41830/007	24,00
CPC - Key switch column (height 110 cm)	41830/055	49,50
Aprimatic beam stickers (pack of 50 stickers)	41590/106	52,50
SKIRT only for 85x51 and 90x25 beams:		
Vertical skirt module (height 69 cm, number of vertical modules to order = beam length x 2)	41504/051	22,00
Horizontal skirt module (wheel base distance 46 cm, number of horizontal modules to order = number of vertical modules - 1)	41504/052	5,50

SPRING SELECTION TABLE	Length of beam (m)					
	2	2,5	3	3,5	4	4,5
90x25 and 85x51 beam	Green	Blue	Red	Red	Red	Yellow
90x25 and 85x51 beam with swing support	Blue	Red	Red	Red	Yellow	
90x25 and 85x51 beam with skirt	Blue	Red	Red	Red	Yellow	
Rounded beam Ø 80	Green	Blue	Red	Red	Red	Yellow

DESCRIPTION	CODE	EURO
SPRINGS:		
Patrol "Green" spring	41514/053	43,50
Patrol "Blue" spring	41514/054	44,50
Patrol "Red" spring	41514/055	55,00
Patrol "Yellow" spring	41514/056	66,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 64

Hydraulic barrier for vehicular spans of up to 4.5 m.
Residential and condominium use with duty cycle 80%.



High quality barrier for intensive applications.

Maximum safety guaranteed by the adjustable anti-crush system with ultra-sensitive bypass valves.

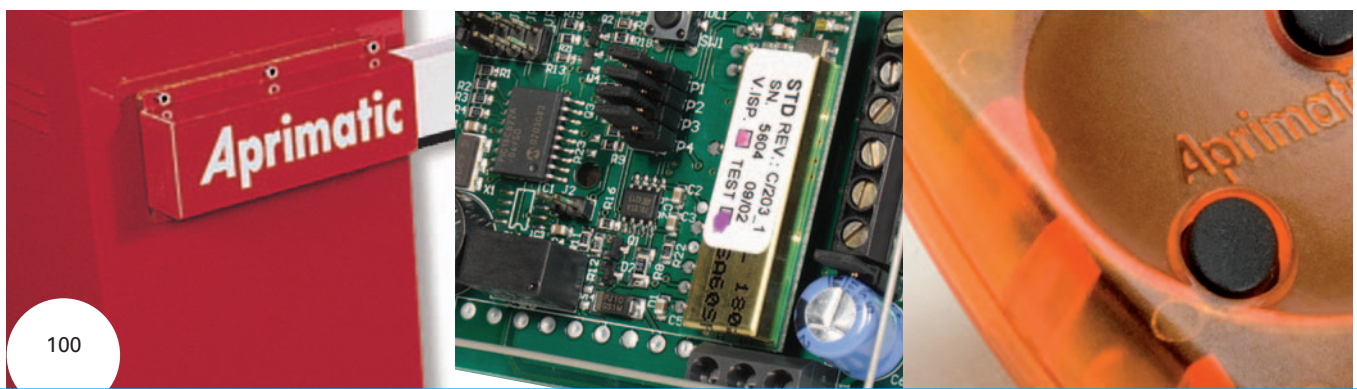
Hydraulic system and helical spring balancing for smooth and adjustable movement.

Double hydraulic locking prevents reverse movement when the barrier is closed and also allows to stop the barrier in intermediate positions.

Lightweight aluminium alloy beam with rubber safety strip to prevent knocks and scratches.

TECHNICAL DATA

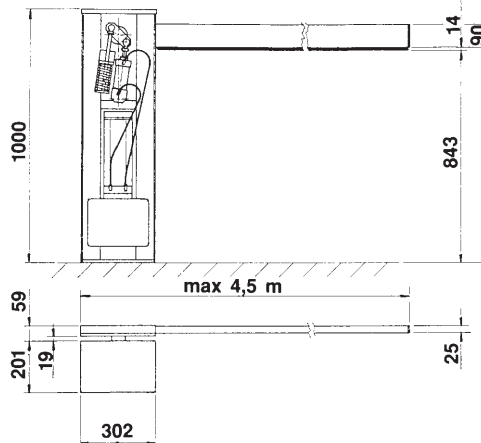
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	250 W
ABSORBED CURRENT	1,6 A
MAX. TORQUE	240 Nm
OVERLOAD DEVICE	130°C
OPENING TIME	5 sec.
OPERATING TEMPERATURE	-20°C to +70°C
WEIGHT WITH OIL	50 kg
QUANTITY OF OIL	1,6 Lt
TYPE OF OIL	AprimOil HC 13
MAX. OPERATING PRESSURE	40 bar
PUMP CAPACITY	1 Lt/min.
ROTATION ANGLE	90°
BEAM LENGTH	3,0 m-3,5m-4,0 m-4,5 m
PROTECTION CLASS	IP54



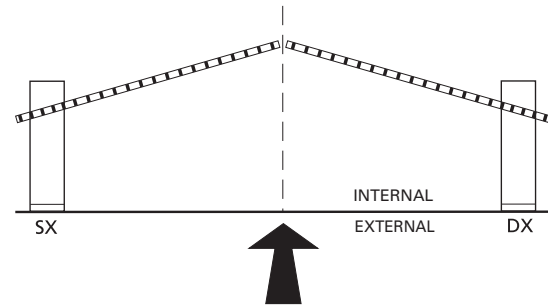


ZT 64

OPERATOR DIMENSIONS



DEFINITION OF RIGHT AND LEFT HAND BARRIERS



When entering through the barrier, RH barriers open clockwise while LH barriers open anti-clockwise.

DESCRIPTION	Max. beam length	CODE	EURO
ZT 64 RH, on-board T3 control unit	4,5 m	41504/002.0	1.206,50
ZT 64 LH, on-board T3 control unit	4,5 m	41504/002.1	1.206,50
ZT 64 RH slave	4,5 m	41504/001.0	1.099,50
ZT 64 LH slave	4,5 m	41504/001.1	1.099,50
ZT 64 Stainless steel RH slave	4,5 m	41504/700.0	1.344,50
ZT 64 Stainless steel LH slave	4,5 m	41504/700.1	1.344,50

NOTE: All models are equipped with double hydraulic locking and a 90x25 cm beam fixing bracket.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
PF 64 - Base plate	41504/056	33,00
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
PC12E - Key switch for wall mounting	41830/007	24,00
CPC - Key switch column (height 110 cm)	41830/055	49,50
FC2 - Fork for 2 m to 4.5 m beams	41504/053	44,50
PP - Swinging tip support	41504/055	75,50
MG90 - Join clamp for 90x25 beam	41504/054	29,00
SBS 64 - Articulated beam set (max 3,5 m beam)	41504/057	219,50
SKIRT only for 90x25 beam:		
- Vertical skirt module (height 69 cm, number of vertical modules to order = beam length x 2)	41504/051	22,00
- Horizontal skirt module (wheel base distance 46 cm, number of horizontal modules to order = number of vertical modules - 1)	41504/052	5,50
Aprimatic beam stickers (pack of 50 stickers)	41590/106	52,50

IDEAL INSTALLATION	Q.ty	CODE	EURO
ZT 64 RH on-board T3 control unit	1	41504/002.0	1.206,50
PF 64 - Column base plate	1	41504/056	33,00
ER4N - Pair of photocells	1	41812/001	61,00
One TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver with antenna included	1	41923/009	76,50
ET20N - 230 V flashing light	1	41841/009	28,00
Necessary accessory 90x25 beam:			
- 3,0 m beam	1	41518/003	102,00
- 3,5 m beam	or 1	41518/004	112,50
- 4,0 m beam	or 1	41518/005	123,00
- 4,5 m beam	or 1	41518/006	133,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



ZT 60

Hydraulic barrier for vehicular spans of 5 to 6.5 m.
Residential and condominium with duty cycle 70%.



High quality barrier for intensive applications.

Maximum safety guaranteed by the adjustable anti-crush system with ultra-sensitive bypass valves.

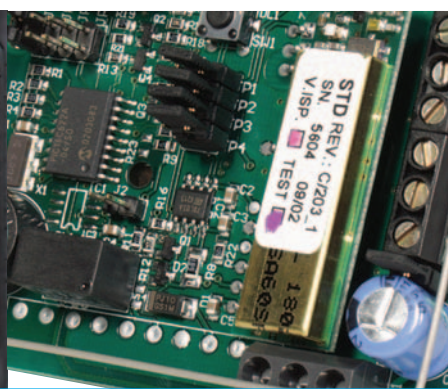
Hydraulic system and helical spring balancing for smooth and adjustable movement.

Double hydraulic locking prevents reverse movement when the barrier is closed and also allows to stop the barrier in intermediate positions.

Lightweight aluminium alloy beam with rubber safety strip to prevent knocks and scratches.

TECHNICAL DATA

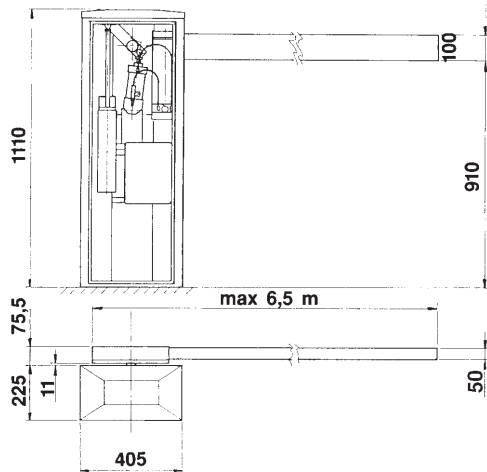
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED POWER	250 W
ABSORBED CURRENT	1,6 A
MAX. TORQUE	230 Nm
OVERLOAD DEVICE	130°C
OPENING TIME	11 sec.
OPERATING TEMPERATURE	-20°C to +70°C
WEIGHT WITH OIL	85 kg
QUANTITY OF OIL	1,6 Lt
TYPE OF OIL	AprimOil HC 13
MAX. OPERATING PRESSURE	40 bar
PUMP CAPACITY	1 Lt/min.
ROTATION ANGLE	90°
BEAM LENGTH	5,0 m - 5,5 m - 6,0 m - 6,5 m
PROTECTION CLASS	IP54



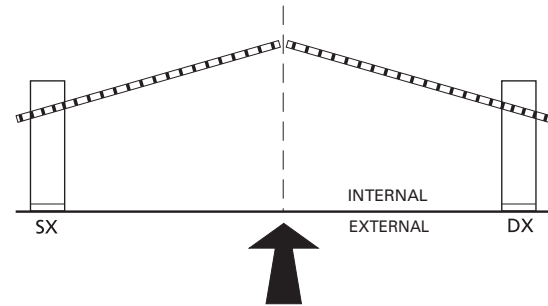


ZT 60

OPERATOR DIMENSIONS



DEFINITION OF RIGHT AND LEFT HAND BARRIERS



When entering through the barrier, RH barriers open clockwise while LH barriers open anti-clockwise.

DESCRIPTION	Max. beam length	CODE	EURO
ZT 60 RH, on-board T3 control unit	From 5 m to 6,5 m	41503/002.0	1.596,50
ZT 60 LH, on-board T3 control unit	From 5 m to 6,5 m	41503/002.1	1.596,50
ZT 60 RH slave	From 5 m to 6,5 m	41503/001.0	1.486,50
ZT 60 LH slave	From 5 m to 6,5 m	41503/001.1	1.486,50
ZT 60 stainless steel RH slave	From 5 m to 6,5 m	41503/700.0	1.783,00
ZT 60 stainless steel LH slave	From 5 m to 6,5 m	41503/700.1	1.783,00

NOTE: All models are equipped with double hydraulic locking and a 90x25 beam fixing bracket.

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
PF 60 - Base plate	41503/053	61,00
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
PC12E - Key switch for wall mounting	41830/007	24,00
CPC - Key switch column for PC12E (height 110 cm)	41830/055	49,50
AT 60 - Balancing spring for 6,5 m beam	41500/114	82,50
FC1 - Fork for 5 m to 6,5 m beam	41503/052	55,00
PFF FC60 - Fork base plate	41812/051	9,50
PP - Swinging tip support	41504/055	75,50
MG100 - Join clamp for 100x50 beam	41503/054	41,50
Aprimatic beam stickers (pack of 50 stickers)	41590/106	52,50

IDEAL INSTALLATION	Q.ty	CODE	EURO
ZT 60 RH - On-board T3 control	1	41503/002.0	1.596,50
PF 60 - Column base plate	1	41503/053	61,00
ER4N - Pair of photocells	1	41812/001	61,00
One TR2 - 433,92 Mhz twin-channel transmitter	1	41903/002	31,00
Unico 433,92 Mhz Memory System radio receiver with antenna included	1	41923/009	76,50
ET20N - 230 V flashing light	1	41841/009	28,00
Necessary accessory 100x50 beam:			
- 5,0 m beam	1	41519/006	156,00
- 5,5 m beam	or 1	41519/007	167,00
- 6,0 m beam	or 1	41519/008	178,50
- 6,5 m beam	or 1	41519/009	191,00
AT 60 balancing spring	1	41500/114	82,50

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



HARRIER LUX

Electro-mechanical barriers
for speed vehicular spans of 2,5 to 6.0 m.
Continuous use with duty cycle 100%.



Stell barrier designed for continuous use, 1500 cycles per day.
Two versions available: with stainless steel and red epoxy painted body.

Plastic case with built-in flashing lamp.

Same code for right and left hand barrier, the installer can change it very easily during installation.

4 barrier models (mod. E), equipped with Traffic control unit with safety photocell test and electronic torque control.

Both 90 x 25 mm, beam and round Ø 80 mm beam are available.

Double microswitch for opening and closing manoeuvres.

Kinematical glipho, guarantees the mechanical slowing down.

TECHNICAL DATA	LUX E25	LUX E40	LUX E50	LUX E60
POWER SUPPLY	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
MOTOR POWER	0,18 kW	0,18 kW	0,18 kW	0,18 kW
ABSORBED CURRENT	1,6 A	1,6 A	1,6 A	1,55 A
MAX. TORQUE	40 Nm	70 Nm	120 Nm	160 Nm
OPENING TIME	1,8 s	2,5 s	6,0 s	9,5 s
MAX. BEAM LENGTH	2,5 m	4,0 m	5,0 m	6,0 m
OPERATING TEMPERATURE	-15° to +60° C	-15° to +60° C	-15° to +60° C	-15° to +60° C
PROTECTION CLASS	IP44	IP44	IP44	IP44





HARRIER LUX

DESCRIPTION	Max. beam length	CODE	EURO
HARRIER LUX E25 with integrated Traffic control unit	2,5 m	41514/021	1.852,00
HARRIER LUX E40 with integrated Traffic control unit	4,0 m	41514/022	1.800,50
HARRIER LUX E50 with integrated Traffic control unit	5,0 m	41514/024	1.883,00
HARRIER LUX E60 with integrated Traffic control unit	6,0 m	41514/023	1.996,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Card for double HARRIER "master/slave" one for each barrier	41540/053	27,00
PF HARRIER - Base plate	41514/050	39,50
Stainless steel securing flange for 90x25 beam	41514/051	42,50
Stainless steel securing flange for Ø 80 beam	41514/052	64,00
Stainless steel securing flange 85x50 beam	41514/062	41,50
BEAM 90x25:		
- Beam length 2,5 m (for spring combination see table)	41518/002	92,00
- Beam length 3,0 m (for spring combination see table)	41518/003	102,00
- Beam length 3,5 m (for spring combination see table)	41518/004	112,50
- Beam length 4,0 m (for spring combination see table)	41518/005	123,00
- Beam length 4,5 m (for spring combination see table)	41518/006	133,00
BEAM Ø 80:		
- Beam length 3,0 m (for spring combination see table)	41522/001	113,50
- Beam length 6,0 m (for spring combination see table)	41522/002	220,50
BEAM 85x50 with light kit mounted:		
- Beam length 3,0 m (for spring combination see table)	41524/803	255,50
- Beam length 3,5 m (for spring combination see table)	41524/804	304,00
- Beam length 4,0 m (for spring combination see table)	41524/805	314,50
- Beam length 4,5 m (for spring combination see table)	41524/806	351,50
Telescopic beam from 4,5 m to 6 m (for spring combination see table)	41523/001	274,00
SPRINGS:		
- Harrier "Green" spring	41514/053	43,50
- Harrier "Blue" spring	41514/054	44,50
- Harrier "Red" spring	41514/055	55,00
- Harrier "Yellow" spring	41514/056	66,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
FC Harrier - Fork support for 2 m to 6,0 m beams	41514/057	117,50
PP - Swinging tip support	41504/055	75,50
CPC - Key switch column for PC12E (height 110 cm)	41830/055	49,50
Aprimatic beam stickers (pack of 50 stickers)	41590/106	52,50
SBS - Articulated beam set Harrier E (for 90x25 beam max length 3.5m)	41522/055	515,00
SKIRT only for 90x25 beam:		
Vertical skirt module (height 69 cm, number of vertical modules to order = beam length x 2)	41504/051	22,00
Horizontal skirt module (wheel base distance 46 cm, number of horizontal modules to order = number of vertical modules - 1)	41504/052	5,50

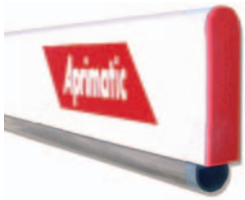
SPRING SELECTION TABLE	Length of beam (m)									
	2	2,5	3	3,5	4	4,5	5	5,5	6	
90x25 beam with impact protection rubber	E25/E40	E25/E40	E40	E40	E40/E50	E50				
90x25 beam with rubber and swing support	E25/E40	E25/E40	E40	E40	E40/E50	E50				
90x25 beam with skirt		E40	E40/E50	E50	E50	E60				
Rounded beam Ø 80	E25/E40	E25/E40	E40	E40	E40/E50	E50	E50/E60	E60	E60	E60
Rounded telescopic beam						E50	E50/E60	E60	E60	E60

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



HARRIER

Electro-mechanical barriers
for speed vehicular spans of 2,5 to 6.0 m.
Continuous use with duty cycle 100%.



Stell barrier designed for continuous use, 1500 cycles per day.
Two versions available: with stainless steel and red epoxy painted body.

Same code for right and left hand barrier, the installer can change it very easily during installation.

4 barrier models for each version (mod. E and mod. X), equipped with Traffic control unit with safety photocell test and electronic torque control.

Both 90x25 mm beam and round Ø 80 mm beam are available.

Double microswitch for opening and closing manoeuvres:

Kinematical glipho, guarantees the mechanical slowing down.

TECHNICAL DATA	X25-E25	X40-E40	X50-E50	X60-E60
POWER SUPPLY	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
MOTOR POWER	0,18 kW	0,18 kW	0,18 kW	0,18 kW
ABSORBED CURRENT	1,6 A	1,6 A	1,6 A	1,55 A
MAX. TORQUE	40 Nm	70 Nm	120 Nm	160 Nm
OPENING TIME	1,8 s	2,5 s	6,0 s	9,5 s
MAX. BEAM LENGHT	2,5 m	4,0 m	5,0 m	6,0 m
OPERATING TEMPERATURE	-15° +60° C	-15° +60° C	-15° +60° C	-15° +60° C
PROTECTION CLASS	IP44	IP44	IP44	IP44





HARRIER

DESCRIPTION	Max. beam length	CODE	EURO
HARRIER E25 with integrated Traffic control unit	2,5 m	41514/001	1.796,50
HARRIER E40 with integrated Traffic control unit	4,0 m	41514/002	1.744,00
HARRIER E50 with integrated Traffic control unit	5,0 m	41514/004	1.828,50
HARRIER E60 with integrated Traffic control unit	6,0 m	41514/003	1.944,00
HARRIER X25 STAINLESS STEEL with integrated Traffic control unit	2,5 m	41514/701	2.133,50
HARRIER X40 STAINLESS STEEL with integrated Traffic control unit	4,0 m	41514/702	2.081,00
HARRIER X50 STAINLESS STEEL with integrated Traffic control unit	5,0 m	41514/704	2.164,50
HARRIER X60 STAINLESS STEEL with integrated Traffic control unit	6,0 m	41514/703	2.279,50

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Card for double HARRIER "master/slave" one for each barrier	41540/053	27,00
PF HARRIER - Base plate	41514/050	39,50
Stainless steel securing flange for 90x25 beam	41514/051	42,50
Stainless steel securing flange for Ø 80 beam	41514/052	64,00
Stainless steel securing flange 85x50 beam	41514/062	41,50
BEAM 90x25:		
- Beam length 2,5 m (for spring combination see table)	41518/002	92,00
- Beam length 3,0 m (for spring combination see table)	41518/003	102,00
- Beam length 3,5 m (for spring combination see table)	41518/004	112,50
- Beam length 4,0 m (for spring combination see table)	41518/005	123,00
- Beam length 4,5 m (for spring combination see table)	41518/006	133,00
BEAM Ø 80:		
- Beam length 3,0 m (for spring combination see table)	41522/001	113,50
- Beam length 6,0 m (for spring combination see table)	41522/002	220,50
Available BEAM 85x50 with light kit mounted:		
- Beam length 3,0 m (for spring combination see table)	41524/803	255,50
- Beam length 3,5 m (for spring combination see table)	41524/804	304,00
- Beam length 4,0 m (for spring combination see table)	41524/805	314,50
- Beam length 4,5 m (for spring combination see table)	41524/806	351,50
Telescopic beam from 4,5 m to 6 m (for spring combination see table)	41523/001	274,00
SPRINGS:		
- Harrier "Green" spring	41514/053	43,50
- Harrier "Blue" spring	41514/054	44,50
- Harrier "Red" spring	41514/055	55,00
- Harrier "Yellow" spring	41514/056	66,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
FC Harrier - Fork support for 2 m to 6,0 m beams	41514/057	117,50
PP - Swinging tip support	41504/055	75,50
CPC - Key switch column for PC12E (height 110 cm)	41830/055	49,50
Aprimatic beam stickers (pack of 50 stickers)	41590/106	52,50
SBS - Articulated beam set Harrier X (for 90x25 beam max length 3.5m)	41522/053	371,00
SBS - Articulated beam set Harrier E (for 90x25 beam max length 3.5m)	41522/055	515,00
SKIRT only for 90x25 beam:		
Vertical skirt module (height 69 cm, number of vertical modules to order = beam length x 2)	41504/051	22,00
Horizontal skirt module (wheel base distance 46 cm, number of horizontal modules to order = number of vertical modules - 1)	41504/052	5,50

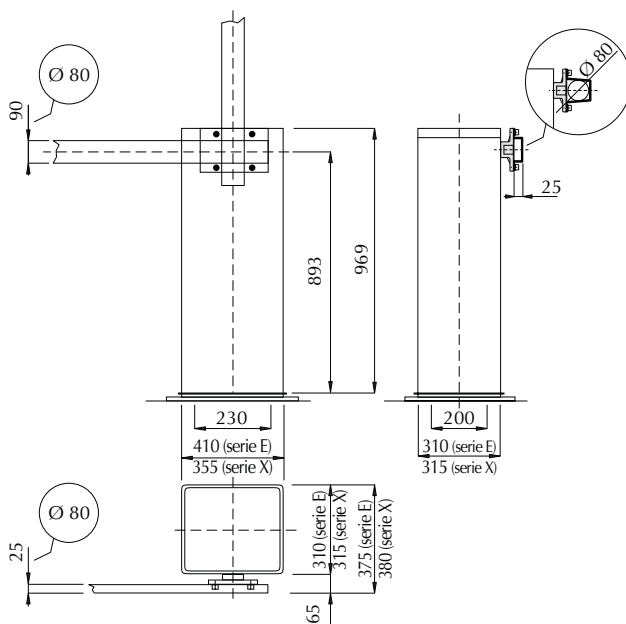
SPRING SELECTION TABLE	Length of beam (m)									
	2	2,5	3	3,5	4	4,5	5	5,5	6	
90x25 beam with impact protection rubber	E25/E40	E25/E40	E40	E40	E40/E50	E50				
90x25 beam with rubber and swing support	E25/E40	E25/E40	E40	E40	E40/E50	E50				
90x25 beam with skirt		E40	E40/E50	E50	E50	E60				
Rounded beam Ø 80	E25/E40	E25/E40	E40	E40	E40/E50	E50	E50/E60	E60	E60	
Rounded telescopic beam						E50	E50/E60	E60	E60	

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).

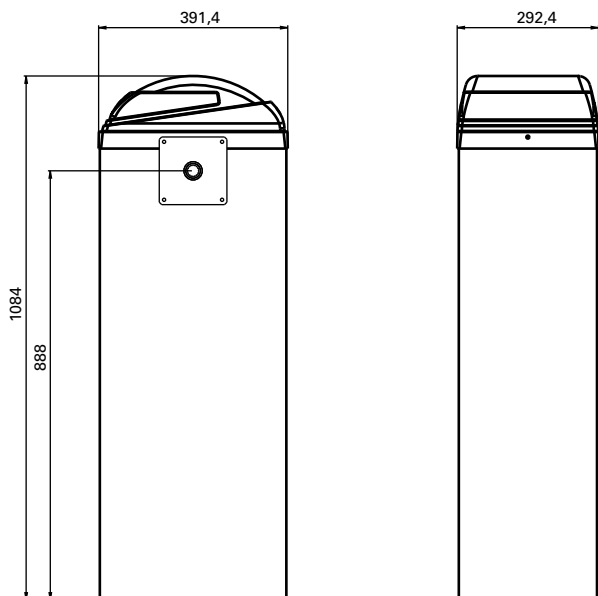


HARRIER - HARRIER LUX

DIMENSIONS HARRIER



DIMENSIONS HARRIER LUX



Easy changing of opening direction.

A few simple operations are all that is required to change the Harrier barrier opening direction from R/H to L/H. The TRAFFIC control unit simplifies this operation even further. A single jumper reverses the OPEN/CLOSE commands of the motor and OPENING/CLOSING limit switches without having to modify the wiring.



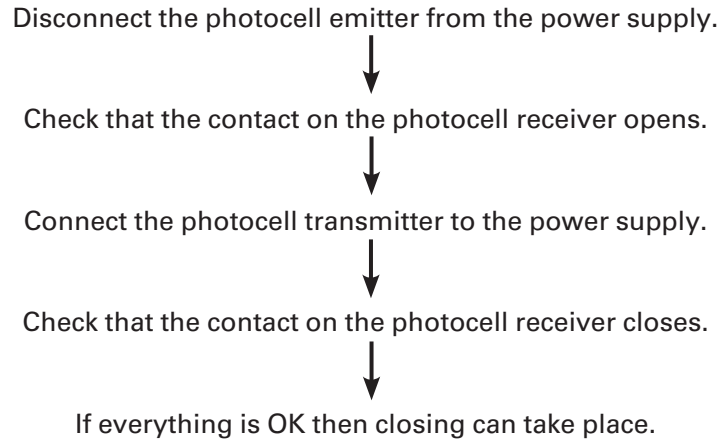


HARRIER - HARRIER LUX

New photocell test function.

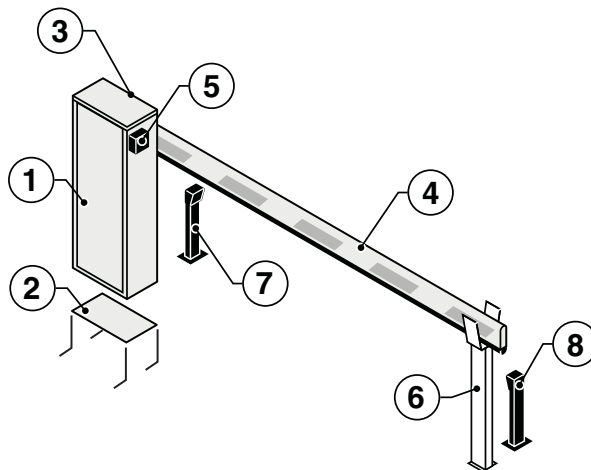
To improve the safety of the automation, the TRAFFIC control unit, has been equipped by a new safety device test function. A photocell function test is performed before any closing operation. The beam will close only if the test is successful.

SAFETY TEST PROTOCOL



The receiver and transmitter photocells must be powered separately in order to get a reliable test result. To this end the TRAFFIC control unit is equipped with an extra terminal. This function can also be used with ER-REF polarised light reflective photocells. These photocells are already equipped with a special input for this test.

STANDARD CONFIGURATION



- 1- Harrier barrier
- 2- Base plate
- 3- Fixing bracket 90x25
Fixing bracket Ø 80
- 4- Beam
- 5- Key switch
- 6- Fork support
- 7- Photocell column
- 8- Photocells or polarised reflc. photocells

IDEAL INSTALLATION

	CODE	EURO
HARRIER E 50 with integrated Traffic control unit	41514/004	1.828,50
Beam 90x25 length 4,5 m	41518/006	133,00
Stainless steel securing flange for 90x25 beam	41514/051	42,50
Harrier "Red" spring	41514/055	55,00
PF Harrier - Base plate	41514/050	39,50
EK433 - Elettrokkit 433,92 Mhz - 24 V	41700/801	206,00
	Total price	2.304,50



AT 166 - AT 167

Electro-mechanical barriers
for large industrial car parks.
Continuous use.



The patented mechanical movement and the use of innovative materials, guarantees constant reliability in time, with intensive use.

Versatility: the same barrier can be installed to open on the right or left. Just a few simple operations are required to change sides.

Easy to service: all the components are easy to reach, and by just unscrewing four bolts you can replace the electro-mechanical unit.

The materials used include: stainless steel, ABS, aluminium and titanium-coated aluminium.

The barrier is made of stainless steel and ABS so it is rustproof and able to withstand exposure to atmospheric agents, with no costly maintenance.

Easy to instal.
The installation is simple, thanks to the template supplied.

Intensity of use: self-ventilated motor coupled to a self-locking worm-screw reducer running in an oil bath. Oscillating link block transmission. Emergency manual operation.

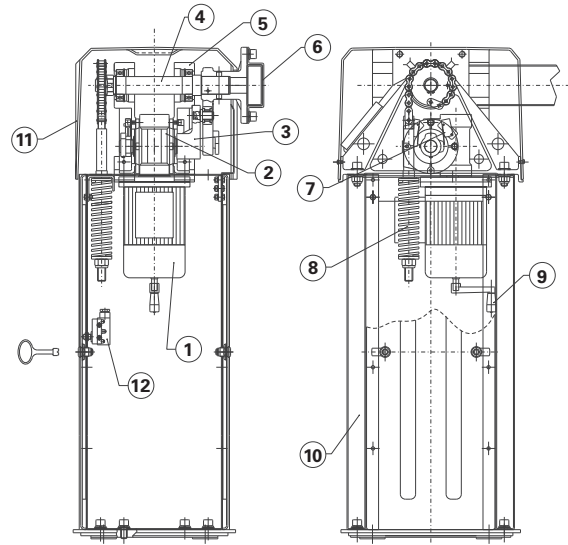
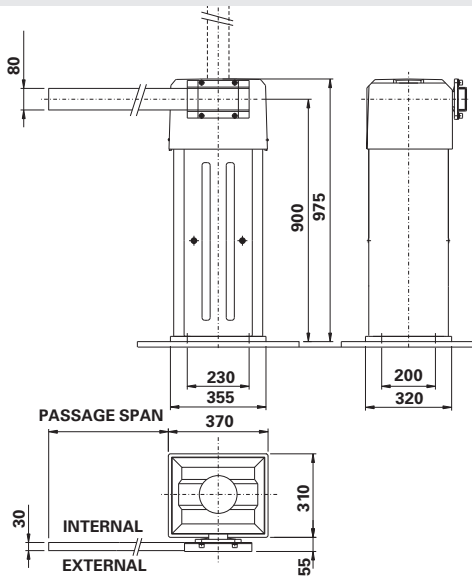
TECHNICAL DATA	AT 166M	AT 166T	AT 167M	AT 167T
POWER SUPPLY	Single-phase 230 V - 50/60 Hz	Three-phase 230/400 V - 50/60 Hz	Mono-phase 230 V - 50/60 Hz	Three-phas 230/400 V - 50/60 Hz
MOTOR POWER	0,18 Kw	0,18 Kw	0,24 Kw	0,24 Kw
MAX. ABSORBED CURRENT	1,4 A	0,65 A (at 400 V)	2 A	0,65 A (at 400 V)
MAX. TORQUE (dinamic)	6 da Nm	7 da Nm	16 Nm	20 Nm
SPRING	Green	Green	Red	Red
OPENING TIME	2,5 sec.	2,5 sec.	9,5 sec.	9,5 sec.
MAX. BEAM LENGTH	4 m*	4 m*	6 m*	6 m*
OPERATING TEMPERATURE	-15° to +60° C	-15° to +60° C	-15° to +60° C	-15° to +60° C
PROTECTION CLASS	IP44	IP44	IP44	IP44
LUBRICATION TYPE	Shell Tivela SC320	Shell Tivela SC320	Shell Tivela SC320	Shell Tivela SC320

*Max. beam lenght without skirt.



AT 166 - AT 167

DIMENSIONS AND BARRIER LAYOUT (right)



MAIN OPERATOR ITEMS:

- 1- Single-phase or three-phase motor fully ventilated
- 2- Irreversible worm reduction unit
- 3- Crank and slotter link drive
- 4- Driving shaft
- 5- Ball bearing shaft support
- 6- Socket for alubar

- 7- Limit switch
- 8- Balance spring
- 9- Handle for manual operation
- 10- Barrier cabinet in stainless steel with lochable door
- 11- Junction box with terminal strip
- 12- Power cut off device for manual operation

NOTE: The barriers are supplied in the right hand configuration; you can change it during the installation.

DESCRIPTION	CODE	EURO
AT 166M - Single-phase barrier RH	41513/002	2.847,00
AT 166T - Three-phase barrier RH	41513/008	2.847,00
AT 167M - Single-phase barrier RH	41513/001	2.946,00
AT 167T - Three-phase barrier RH	41513/007	2.959,00

DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
TRAFFIC - Control unit for mono-phase barriers	41638/001	150,50
CB 8382 L - Control unit (0,75 Kw) for three-phase barriers	41637/002	598,50
Beam Ø 80 mm lenght 3,00 m	41522/001	113,50
Beam Ø 80 mm lenght 6,00 m	41522/002	220,50
Securing flange for beam Ø 80 mm profile	41514/052	64,00
Beam 80x30 mm lenght 3,00 m	41522/003	193,50
Beam 80x30 mm lenght 6,00 m	41522/004	352,00
Securing flange for beam 80x30 mm profile	41522/050	47,50
Beam 90x25 mm lenght 3,00 m	41518/003	102,00
Beam 90x25 mm lenght 3,50 m	41518/004	112,50
Beam 90x25 mm lenght 4,00 m	41518/005	123,00
Beam 90x25 mm lenght 4,50 m	41518/006	133,00
Securing flange for beam 90x25 mm profile	41514/051	42,50
SKIRT only for 90x25 beam: Vertical skirt module (height 69 cm, number of vertical modules to order = beam length x 2)	41504/051	22,00
Horizontal skirt module (wheel base distance 46 cm, number of horizontal modules to order = number of vertical modules - 1)	41504/052	5,50
FC - Fork support	41514/057	117,50
PP - Swinging tip	41513/050.E	114,50
SBS - Articulated beam set 90° (for beam 80x30 mm profile max length 3.5m)	41522/054	432,50
SBS - Articulated beam set 90° (for 90x25 beam max length 3.5m)	41522/055	515,00
RR SE - 433,92 Mhz Radioreceiver Memory System	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ET20N - 230 V flashing lamp	41841/009	28,00
PC12E - Key switch for wall mounting	41830/007	24,00
ER4N - Pair of photocells	41812/001	61,00

NOTE: For control and safety devices and installation accessories, see section "Electronic devices and installation accessories" in this catalogue (consult the index).



AT 168 - AT 170

Electro-mechanical barriers
for large industrial car parks.
Continuous use.



The patented mechanical movement and the use of innovative materials, guarantees constant reliability in time, with intensive use.

Versatility: the same barrier can be installed to open on the right or left. Just a few simple operations are required to change sides.

Easy to service: all the components are easy to reach, and by just unscrewing four bolts you can replace the electro-mechanical unit.

The materials used include: stainless steel, ABS, aluminium and titanium-coated aluminium.

The barrier is made of stainless steel and ABS so it is rustproof and able to withstand exposure to atmospheric agents, with no costly maintenance.

Easy to instal.
The installation is simple, thanks to the template supplied.

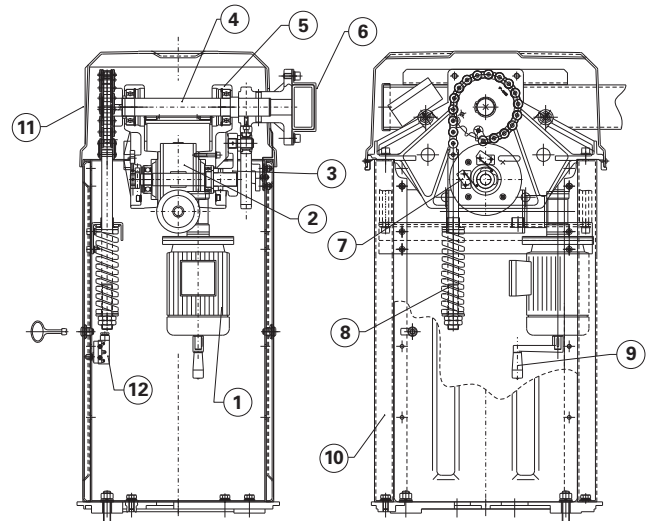
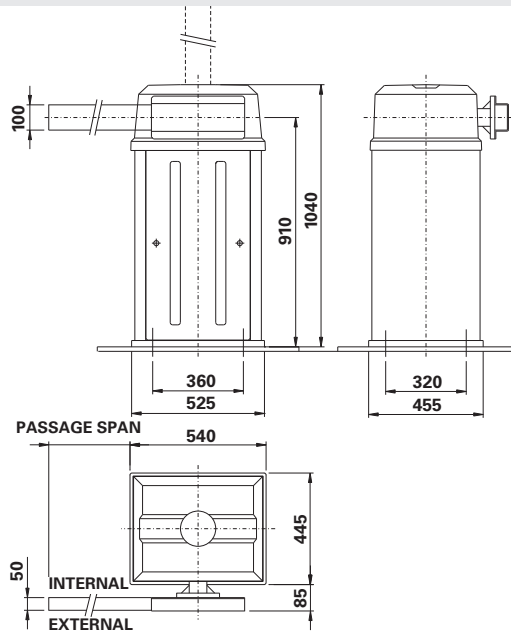
Intensity of use: self-ventilated motor coupled to a self-locking worm-screw reducer running in an oil bath. Oscillating link block transmission. Emergency manual operation.

TECHNICAL DATA	AT 168M	AT 168T	AT 170T
ALIMENTAZIONE	Single-phase 230 V - 50/60 Hz	Three-phase 230/400 V - 50/60 Hz	Three-phase 230/400 V - 50/60 Hz
MOTOR POWER	0,37 Kw	0,37 Kw (at 400 V)	0,37 Kw (at 400 V)
MAX. ABSORBED CURRENT	2,8 A	1,2 A (at 400 V)	1,07 A (at 400 V)
MAX. TORQUE (dinamic)	23 da Nm	30 da Nm	38 da Nm
SPRING	Blue	Blue	Red (NR2)
OPENING TIME	9,5 sec.	9,5 sec.	17 sec.
MAX. BEAM LENGTH	7 m	7 m	10 m
OPERATING TEMPERATURE	-15° to +60° C	-15° to +60° C	-15° to +60° C
PROTECTION CLASS	IP44	IP44	IP44
LUBRICATION TYPE	Shell Tivela SC320	Shell Tivela SC320	Shell Tivela SC320



AT 168 - AT 170

DIMENSIONS AND BARRIER LAYOUT (right)



MAIN OPERATOR ITEMS:

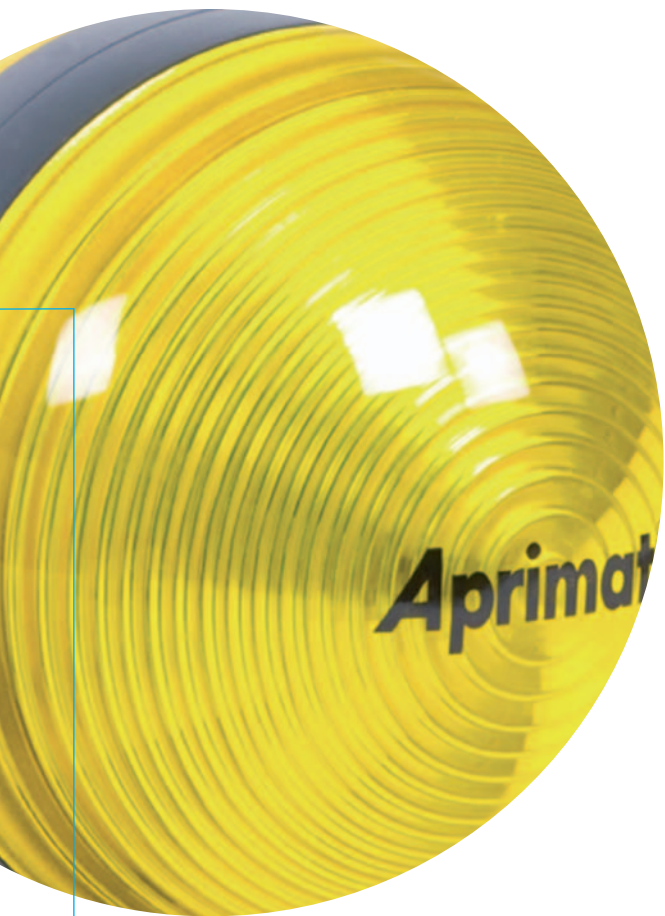
- 1- Single-phase or three-phase motor fully ventilated
- 2- Irreversible worm reduction unit
- 3- Crank and slotter link drive
- 4- Driving shaft
- 5- Ball bearing shaft support
- 6- Socket for alubar

- 7- Limit switch
- 8- Balance spring
- 9- Handle for manual operation
- 10- Barrier cabinet in stainless steel with lochable door
- 11- Junction box with terminal strip
- 12- Power cut off device for manual operation

NOTE: The barriers are supplied in the right hand configuration; you can change it during the installation.

DESCRIPTION	CODE	EURO
AT 168M - Single-phase barrier RH	41513/005	4.730,00
AT 168T - Three-phase barrier RH	41513/003	4.730,00
AT 170T - Three-phase barrier RH	41513/011	6.476,00
CBS8220 L - Control unit for mono-phase barriers	41636/001	352,50
CB 8221 L - Control unit for mono-phase barriers (for "master/slave" configuration)	41636/002	405,00
CB 8382 L - Control unit for three-phase barrier	41637/002	598,50

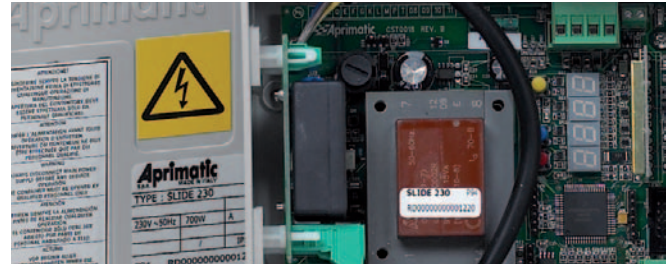
DESCRIPTION OF OPTIONAL ACCESSORIES	CODE	EURO
Beam 100x50 mm lenght 4,00 m	41519/004	161,00
Beam 100x50 mm lenght 4,50 m	41519/005	177,50
Beam 100x50 mm lenght 5,00 m	41519/006	156,00
Beam 100x50 mm lenght 5,50 m	41519/007	167,00
Beam 100x50 mm lenght 6,00 m	41519/008	178,50
Beam 100x50 mm lenght 6,50 m	41519/009	191,00
Beam 100x50 mm lenght 7,00 m	41519/010	226,00
Securing flange for beam 100x50 mm profile	41522/052	75,50
FC - Fork support	41514/057	117,50
PP - Swinging tip	41513/050.E	114,50
RR SE - 433,92 Mhz Radioreceiver Memory System	41923/009	76,50
TR2 - 433.92 Mhz twin-channel transmitter	41903/002	31,00
ET20N - 230 V flashing lamp	41841/009	28,00
PC12E - Key switch for wall mounting	41830/007	24,00
ER4N - Pair of photocells	41812/001	61,00
Barrier configuration from 7,00 to 10,00 m (for AT 170T model only)		
100x50 mm flange plus stainless steel extension for roads wider than 7 m (with 3 m beam)	41522/056	735,50
Barrier length from 4,00 to 7,00 m (to combine on passage span when barrier will be installed)	41519/010	226,00
Complete tie rod for barrier profile	41513/051.E	226,00





ELECTRONIC CONTROL UNITS

Aprimatic electronic control units guarantee reliability and a long working life thanks to careful design and use of only the best components. These units feature the latest technology and fulfil a wide range of functions. Prestigious external laboratories undertake the conformity testing necessary for CE marking, and certify that all units conform to European standards on electrical safety and electromagnetic compatibility.



GENERAL FEATURES

Top quality electronic and electro-mechanical components and careful circuit design for exceptional interference immunity, well above that required by applicable standards.

Built-in spike filters on the control cards for protection against mains disturbances.

Voltage stabilisers dedicated to the logic circuits and power on/ reset circuits to protect against fluctuations and transient power failures.

Zero-crossing power triacs to minimise interference and to guarantee perfect functioning and a long working life.

Short circuit and overload protection fuses for transformers, motors and 24 Vdc accessories.

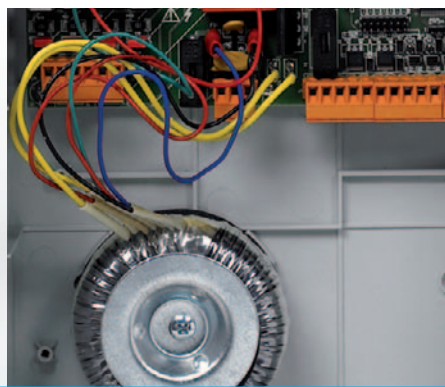
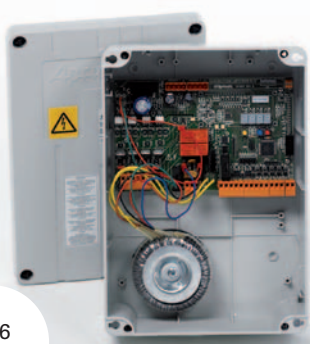
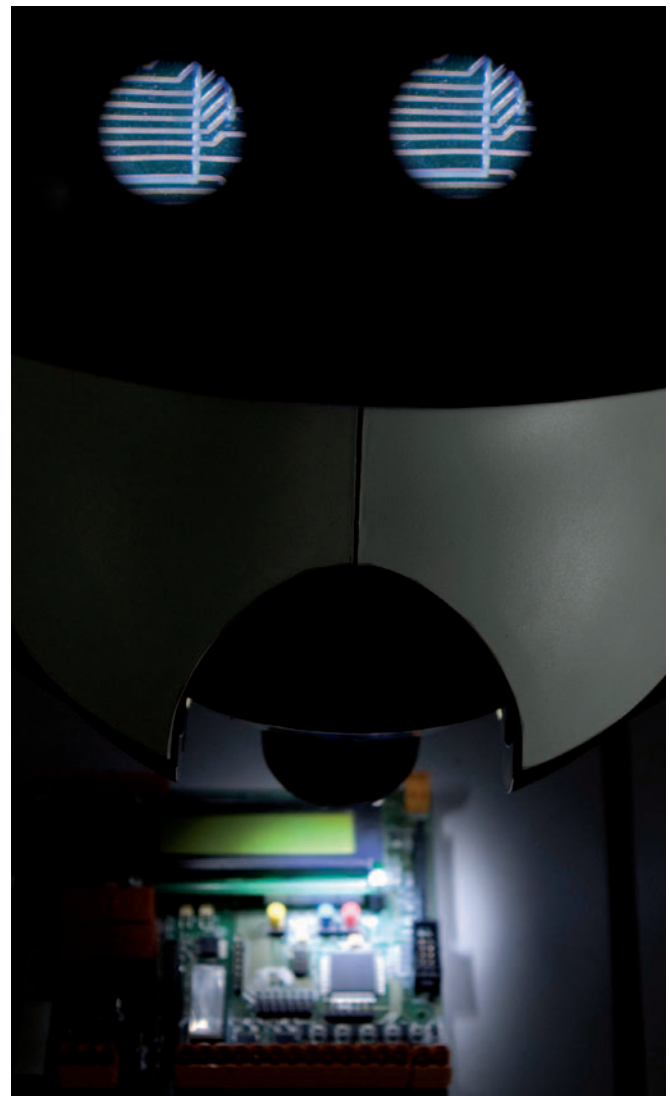
Control cards, circuits, power components and heat sinks all dimensioned to guarantee trouble-free functioning even in continuous use at maximum nominal power.

Status indicator LEDs for all inputs to permit quick and easy diagnostics.

Compact card size to leave plenty of room for wiring and to ensure easy installation and maintenance.

Numbered and mechanically polarised pull-out terminal boards to guarantee easy wiring and sure connections. Plug-in connectors for easy installation of receivers and optional cards.

Lockable control boxes with keys and IP55 seals for effective weatherproofing.






ELECTRONIC CONTROL UNITS

CONTROL UNITS

DESCRIPTION	CODE	EURO
 <p>SWING 230 - Electronic control unit for swing gates with one/two electromechanical or hydraulic 230 Vac operators, electronic slowdown system and torque adjustment, 433,92 Mhz radio receiver, compatible with all models Aprimatic radio receiver</p>	41606/001	218,50
 <p>SLIDE 230 - Electronic control unit for sliding gates with electromechanical 230 Vac operator and 433,92 Mhz radio receiver, compatible with all models Aprimatic radio receiver</p>	41616/001	194,00
 <p>T3E - Electronic control unit for up-and-over doors and barriers with one or two 230 Vac electro-mechanical or hydraulic operators</p>	41625/003	144,50
 <p>T4 POWER - Electronic control unit for swing gates with one or two 24 Vdc electro-mechanical operator</p>	41600/001	216,50
 <p>TRAFFIC - Electronic control unit for barriers 230 Vac electro-mechanical operators (Harrier - Harrier Lux series)</p>	41638/001	150,50

ANTI-CRUSH CARDS

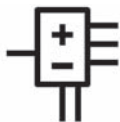
DESCRIPTION	CODE	EURO
 <p>Autoreverse anti-crush card for ONDA 501, ONDA 801 and ONDA 2001 operators, to use exclusively with T2E and T22 electronic control units.</p>	41127/020	31,00

OPTIONAL CARDS

DESCRIPTION	CODE	EURO
AP - Partial opening control card for use with T2E electronic control units	41706/004	31,00
Light Card - To control courtesy lights and and pre-flashing for ET20 and ET22 flashing lighth, to use with all electronic control units	41841/050	31,00

ACCESSORIES

DESCRIPTION	CODE	EURO
FR 220 - Main filter for electronic control unit	41706/009	30,00



ELECTRONIC CONTROL UNITS

TECHNICAL SPECIFICATIONS OF ELECTRONIC CONTROL UNITS

TECHNICAL SPECIFICATIONS	SWING 230	SLIDE 230	T3E	T4 POWER
Power supply	Single phase 230 Vca (6% - 10%) - 50/60 Hz			
Motor voltage	230 Vac	230 Vac	230 Vac	24 Vdc
Operating temperature	-20° +70° C	-20° +70° C	-20° +70° C	-20° +70° C
Storage temperature	-40° +85° C	-40° +85° C	-40° +85° C	-40° +85° C
Relative humidity	90% max. (non condensing)			
Protection rating	IP55	IP55	IP55	IP55

INPUTS				
Open / Start	Yes	Yes	Yes	Yes
Close	Yes (4)	Yes (4)	Yes	-
Pedestrian start / Partial open	Yes	Yes (1)	-	Yes
Stop	Yes	Yes	Yes	Yes
Standard safety (photocell)	Yes	Yes	Yes	Yes
Additional safety	Yes	Yes	Yes	Yes
Limit switch	-	Yes	Yes	-

OUTPUTS				
Motor	2	1	1	2
Flashing units	Yes	Yes	Yes	Yes
Function indicator	Yes	Yes	Yes	Yes
Electric lock	Yes	-	-	Yes
Courtesy light	Yes	Yes	Yes	Yes (3)
24 Vdc accessories power	1 A	500 mA	300 mA	500 mA

SPECIAL FUNCTIONS				
End of stroke slowdown	-	-	Yes	Yes (2)
Electronic slowing	Yes	Yes	-	-
Anti-crush	-	Yes	Yes	Yes
Electronic torque control	Yes	Yes	-	-
Motor braking	Yes	Yes	-	-
Built-in 433.92 Mhz super-heterodyne radio receiver	Yes	Yes	-	-

FUNCTIONING LOGIC				
Standard automatic	Yes	Yes	Yes	Yes
Super automatic	Yes	Yes	-	-
Automatic with Stop	-	Yes	-	-
Semiautomatic with Stop	Yes	Yes	Yes	Yes
Semiautomatic Open/Close	-	-	Yes	-
Dead man	Yes	Yes	Yes	-

ADJUSTMENTS				
Operation time	Yes	Yes	Yes	-
Pause time	Yes	Yes	Yes	Yes
Gate closing delay	Yes	-	-	Yes
Braking delay	-	Yes	-	-
Torque	-	Yes	-	-
Slowdown	Yes	Yes	Yes	Yes
Anti-crush	- (5)	- (5)	Yes	Yes

(1) With optional "AP Card"

(2) With optional "LS Card"

(3) With optional "Light Card"

(4) On pedestrian input (only for particular function)

(5) For these control unit the anti-crush is not necessary



ELECTRONIC CONTROL UNITS

TECHNICAL SPECIFICATIONS OF PROFESSIONAL ELECTRONIC CONTROL UNITS

TECHNICAL SPECIFICATIONS	TRAFFIC	T4 PRO
Power supply	Single phase 230 Vca (6% - 10%) - 50 Hz	
Motor voltage	230 Vac	24 Vdc
Operating temperature	-20° +70° C	-20° +70° C
Storage temperature	-40° +85° C	-40° +85° C
Relative humidity	90% max. (non condensing)	90% max.
Protection rating	IP55	IP55

INPUTS

Open / Start	Yes	Yes
Close	Yes	Yes
Pedestrian start / Partial open	Yes (with Park and Park Special logic)	Yes
Stop	Yes	Yes
Standard safety (photocell)	Yes	Yes
Additional safety	Yes	Yes
Limit switch	Yes	Yes
Auxiliary safety test	Yes	-
Photocell safety test	Yes	-

OUTPUTS

Motor	1	2
Flashing units	Yes (24 V)	Yes
Function indicator	Yes	Yes
Electric lock	-	Yes
Courtesy light	-	Yes (1)
24 Vdc accessories power	500 mA	500 mA

(1) With optional "Light Card"

SPECIAL FUNCTIONS

End of stroke slowdown	Yes	Yes
Anti-crush	-	Yes
Electronic torque control	Yes	-
Built-in 433.92 Mhz super-heterodyne radio receiver	Yes	-

LOGIC

Standard automatic	Yes	Yes
Special automatic	-	Yes
Super automatic	Yes	Yes
Semiautomatic Open / Close	Yes	Yes
Semiautomatic with Stop	Yes (Park logic)	Yes
Semiautomatic with Revers	-	Yes
Dead man	Yes	Yes
Traffic light	Yes	Yes
Diagnostics	-	Yes
Parking Plus	Yes	Yes
Timer	Yes	-

ADJUSTMENTS

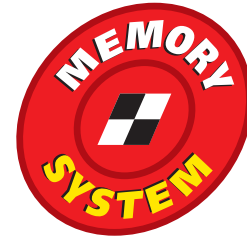
Gate opening delay	-	Yes
Gate closing delay	-	Yes
Slowdown	Yes	Yes
Pause time	Yes	Yes
Operation time	Yes	Yes
Braking delay	Yes	-
Anti-crush	-	Yes
Pedestrian opening	Yes	-
Pre-flashing	Yes	-
Opening direction	Yes	-

NOTE: The adjustments and settings on professional electronic control units are digital and can be made quickly and easily with the Apritool programmer.



ACCESS CONTROL

Memory System 433,92 / 40,685 Mhz.



MEMORY SYSTEM is the perfect radio access control solution for residential, condominium, company, car-park, club, pleasure port and other group applications.

Technology, design and special dedicated access control functions make Memory System an indispensable tool for advanced installers to win new customers by guaranteeing maximum security.

Memory System's access management functions make it far more than just another remote opening system and allow installations to be managed with far greater professionalism and skill.

TR2 - TR4 and 14 KEY ROLLING CODE REMOTE CONTROLS

- A single code set from 72,000,000,000,000 possible combinations guarantees maximum security.
- Attractive, stylish design in red and clear orange, and excellent ergonomics.



UNICO MEMORY SYSTEM RADIO RECEIVERS

Memory System radio receivers represent a unique hardware and software solution and can be expanded with up to 4 channels. They are suitable for all installation types and all access control requirements.

- 24 Vdc / Vac power supply, low consumption (max. 20mA in standby).
- 104 dBm sensitivity, range from 40 to 120 m, front end radio frequency input filter.
- Hopping / rolling code decoding system.
- Radio code self-teaching, beeper and flasher for code recognition.
- Standard pull-out memory module for up to 496 different codes. Optional module for over 2000 codes.
- Standard relay output and relay modules for up to 3 expansion channels with 4 functioning logics: pulse, hold, step-by-step, and timer with programmable 1-255 second duration.



APRITOOL HAND HELD PROGRAMMER

A portable hand held programmer for personalising installer codes, renewing, disabling and cancelling codes even by radio, selectively disabling active channels for each individual code, programming access control functions (base, easy, special, super), maintaining data in receiver memory modules and downloading updates on to your PC.



APRIBASE1 PROGRAMMING BASE

A programming base for remote controls, radio receivers and memory modules.

For use in conjunction with Apricot Manager software or the Apritool programmer.

Complete with serial cable for connection to a PC or to the Apritool programmer.



APRICOT MANAGER ACCESS MANAGEMENT SOFTWARE

Apricot Manager software allows installers to make full, simple and intuitive use of all Memory System access management functions (user identification, lost code cancellation, hierarchic access control, etc.).

The program's powerful database also allows you to archive all installation data for easier maintenance and warranty management etc.


















ACCESS CONTROL

Remote Controls and Radio Receiver.

MEMORY SYSTEM 433.92 MHZ

DESCRIPTION	CODE	EURO
 TR2 - 433.92 Mhz two channel rolling code remote control	41903/002	31,00
 TR4 - 433.92 Mhz four channel rolling code remote control	41903/004	33,00
 TR2 Black - 433.92 Mhz four channel rolling code remote control	41903/015	31,00
 TR4 Black - 433.92 Mhz four channel rolling code remote control	41903/016	33,00
 TR14 - 433.92 Mhz 14 channel remote control with function keys that can be customized using the Apricot RC Customizer	41903/014	168,00
 RR SR - 433.92 Mhz Memory System Unico radio receiver (super reactive version) with built-in antenna	41923/010	66,00
 RR SE - 433.92 Mhz Memory System Unico radio receiver (narrow band super-heterodyne version) with built-in antenna	41923/009	76,50
 ANT433 - 433.92 Mhz antenna with 4,5 m coax cable and earth connection	41929/001	16,50

COMMON ACCESSORIES

 CA41 - Expansion relay module for one extra channel	41923/052	19,00
 CA43 - Expansion relay module for 3 additional channels	41923/053	31,00
 MM1 - Pull-out memory module for up to 496 codes (standard in Memory System radio receivers)	41923/050	46,50
 MM2 - Optional pull-out memory module for up to 2032 codes	41923/051	88,00
 CR44 - IP44 container for external installation (narrow band super-heterodyne version) with built-in antenna	41923/059	8,50

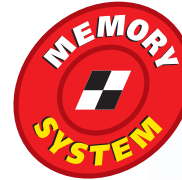


ACCESS CONTROL

Hand-held programmers.

CODER AND PROGRAMMING BASE FOR REMOTE CONTROLS AND RADIO RECEIVERS

Personalise installer codes and installation codes.
 Select access management functions.
 Select radio receiver output channel functions: pulse, hold, step-by-step and timer with 1-255 s programmable duration.
 Program codes in memory modules or internal buffers.
 Program remote controls with personalisation of read codes.
 Identify, read, edit and transfer data to and from memory modules.
 Cancel and disable memory module codes.
 Edit memory module function parameters.
 Program remote controls to duplicate, replace and disable codes by radio.
 Transfer data to and from PC.



APRIBASE 1



HAND-HELD CODER

DESCRIPTION	CODE	EURO
APRITOOOL - Hand held must always be combined with APRIBASE 1	41930/005	462,50
APRIBASE 1 - Programming base for memory modules and remote controls, complete with mains power supply and battery charger, requires Apricot Manager software or Apritool	41930/001	248,50
APRIBASE 1 - Special version with optional installer code for using more than one programming base with the same installer code	41930/004	242,50

PROGRAMMER FOR PROFESSIONAL CONTROL UNITS

Program the control unit directly:

Simulate inputs.
 Select functioning logic.
 Adjust functioning parameters.
 Set functioning options.

Program internal memories:

Select functioning logic.
 Adjust functioning parameter values.
 Set functioning options.
 Transfer data to and from control units.
 Transfer data to and from internal memories.



DESCRIPTION	CODE	EURO
APRITOOOL - Hand held programmer complete with mains power supply and battery charger and connection cable for T2PRO, T3PRO and T4PRO control units	41930/014	505,00



CODER-PROGRAMMER

Combines the functions of coder and programmer in a single universal tool.

DESCRIPTION	CODE	EURO
APRITOOOL hand held coder-programmer complete with mains power supply and battery charger and connection cable for T2PRO, T3PRO and T4PRO control units, must always be combined with APRIBASE 1	41930/015	546,00



ACCESS CONTROL

Software Apricot.

APRICOT MANAGER

Apricot Manager software allows full use of all Memory System access management functions simply and easily. It is also an extremely useful tool for installers to archi customer and installation data and facilitate maintenance and warranty management, etc..

No special computer experience is required to use Apricot Manager.

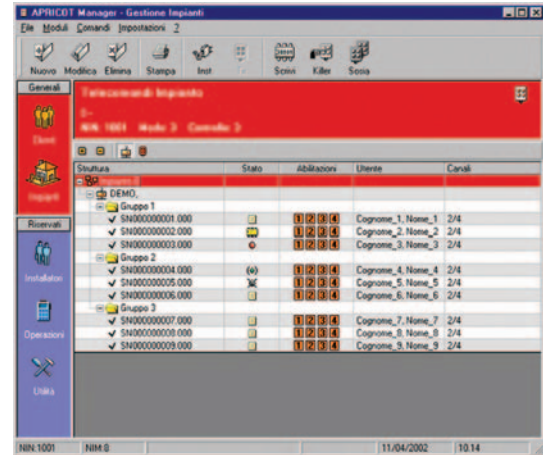
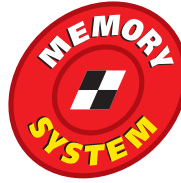
Its simple Window-based user interface makes all operations simple and intuitive.

Apricot Manager comes on a self-installing CD-ROM for PCs running Windows 95, 97, 2000 or NT operating systems.

The software prevents operators from performing illegal operations or operations that could damage archived data.

Program access is protected by a user-definable password.

Software installation is protected by an individual user number.



DESCRIPTION



Apricot Manager version 2.00 Multilanguage - Access management software, self-installing CD-ROM for PCs running Windows 95, 97, 2000 or NT operating systems, must always be combined with APRIBASE1

CODE

41930/008

EURO

457,50

Apricot Manager version Windows XP Multilanguage - Access management software, self-installing CD-ROM for PCs running Windows 95, 97, 2000, NT, XP perating systems, must always be combined with APRIBASE 1

41930/009

457,50

PREVIOUS VERSIONS AND UPDATES

DESCRIPTION

Apricot Manager update to version 1.10, FD for updating any previous version to version 1.10

41930/007

136,00

Apricot Manager version 1.04 - Access management software, self-installing CD-ROM for PCs running Windows 95, 97, 2000 or NT operating systems, must always be combined with APRIBASE 1 - being phased out

41930/003

Depending on stock availability

346,50



ACCESS CONTROL

27.195 Mhz Remote Controls and Radio Receivers.

2 AND 4 KEY DIP-SWITCH REMOTE CONTROLS

The elegant TGM series remote controls have been specially designed for Aprimatic by Giugiaro.

A practical hole in the case allows you to attach the units to key rings.

A function LED lights to confirm transmission of the signal. The range includes the TG2M two channel and TG4M four channel remote controls with an average line of sight range of 50 to 100 m.

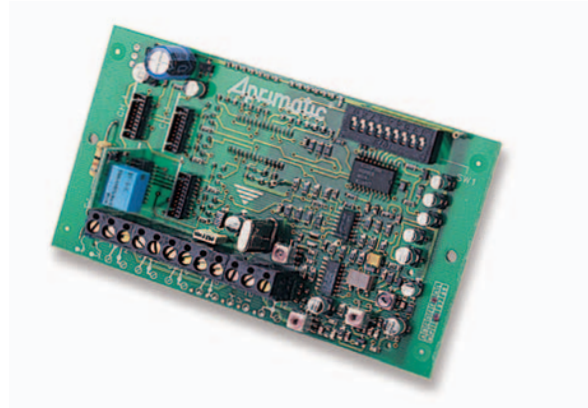






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DESCRIPTION	CODE	EURO
 TG2M - 27.195 Mhz two channel dip-switch remote control	41902/003	41,50
 TG4M - 27.195 Mhz four channel dip-switch remote control	41902/004	48,50
 RG/I - Single channel plug-in radio receiver; antenna required	41922/002	75,00
 RG - Modular radio receiver with CA2 card upgradeable to 4 channels; antenna required	41922/003	82,50

ACCESSORIES

DESCRIPTION	CODE	EURO
CA2 - Relay expansion card (pack of 6 pcs)	41706/007	13,50/pcs
CA2T - Timed CA2 module	41923/060	35,50
AFQ30 - 27.195 Mhz pen antenna, installable on flasher units, radio receivers and control units (pack of 6 pcs)	41929/006	9,50/pcs
ASQ30 - 27.195 Mhz jointed antenna for external wall-mounting (pack of 6 pcs)	41929/007	16,50/pcs



ACCESS CONTROL

Further access control management systems.

PROXIMITY SENSOR

PR5





Proximity sensor access control.
 Operated with a practical key-ring Tag or ISO badge. Easy to install even on existing systems as a replacement for Aprimatic CT/4 and LB/4 readers, because fitted on the same mechanism.
 READING DISTANCE: max 5 cm.
 DECODER CONNECTION: Bus 3 lead



TAG

Practical key-ring TAG
 reading distance 5-8 cm.



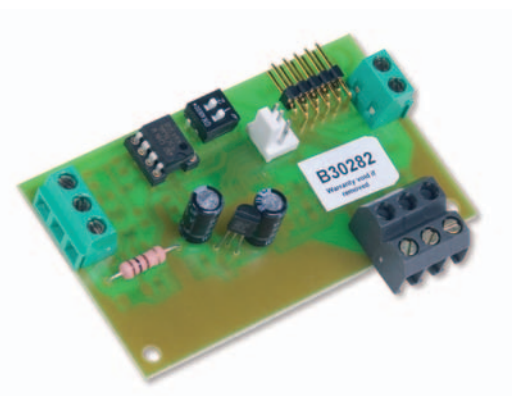
DESCRIPTION		CODE	EURO
 PR5 - Proximity sensor access control		41820/001	118,50
 TAG - Key-ring TAG*, reading distance 5-8 cm		41820/051	8,50
 ISO Badge*		41820/053	5,50
 Colour coder - It allows to mark with different colours the key-ring TAG to recognize them between they		41820/052	6,50

* For multiple purchases, always think one TAG more to dedicate like Master.

DECODER

DEC/A

Decoder card with 256 codes for access control systems.
 Installed by plugging-in to Aprimatic control units.
 Compatible with PR5 proximity sensor; with CT4 keypad and with LB4 magnetic card reader.
 Replaces the previous range of Aprimatic decoders (DC/3 and DB/4).




TECHNICAL DATA	
POWER SUPPLY	24 Vcc ± 15%
INSTALLATION	Plug-in
NUMBER OF STORED CODES	256
CONNECTION TO READER	Bus 3 lead
DIMENSIONS	mm 105x65x30

DESCRIPTION	CODICE	EURO
DEC/A - Access control decoder with 256 codes	41820/050	74,00







ACCESS CONTROL

KEYPADS




DESCRIPTION	CODE	EURO
 <p>CT4 - Electronic keypad with stainless steel keys for over 2 billion possible combinations, data transmission along a serial cable between the keypad and the decoding card ensures tamper-proof protection</p>	41800/002	99,00

MAGNETIC CARD AND KEY READER

DESCRIPTION	CODE	EURO
 <p>LB4 - Tamper-proof magnetic card reader with over 2 billion possible combinations, data transmission along a serial cable between the card reader and the decoding card ensures tamper-proof protection</p>	41821/001	190,00
 <p>SB4/C - Coded magnetic card (badge)</p>	41821/048	4,50
Card holder for SB4/C magnetic cards (pack of 50 pcs)	41821/051	6,50/pcs
 <p>LM1 - Magnetic key reader</p>	41822/001	131,00
 <p>CM1/C - Coded magnetic key</p>	41822/050	5,50

Depending on stock availability

TAMPER-PROOF KEY SWITCH

DESCRIPTION	CODE	EURO
 <p>PM12 - Two contact metal key switch for wall-or post-mounting</p>	41830/006	31,00
 <p>PC12 - Two contact key switch, accessories are available for recessed post-and wall-mounting and for external wall-and post-mounting</p>	41830/005	24,00
 <p>PC12E - Two contact key switch, accessories are available for recessed post-and wall-mounting and for external wall-and post-mounting</p>	41830/007	24,00

Depending on stock availability

OPTIONAL ACCESSORIES FOR PR5; CT4; LB4; LM1 AND PC12 (FOR PICTURES SEE "INSTALLATION ACCESSORIES")

DESCRIPTION	CODE	EURO
Plastic container for recessed wall-mounting (pack of 6 pcs)	41830/053	2,50/pcs
PC12 - Metal container to be welded	41830/050	12,00
Metal container for welding (pack of 8 pcs)	41830/054	8,50/pcs
Bracket for metal pillar connection complete with screws (pack of 6 pcs)	41830/052	4,50/pcs
Galvanized post for PC12E (height 110 cm)	41830/055	49,50
Galvanized post for PC12 (height 110 cm)	41830/051	39,50
Post base plate (pack of 4 pcs)	41812/051	9,50/pcs



ACCESS CONTROL

FLASHING LAMPS

Yellow flashing lamps are always clearly visible even from a distance and in all weather conditions. They are made from robust polycarbon materials for excellent resistance to knocks.



DESCRIPTION	CODE	EURO
ET 2N - 24 V LED flashing lamp	41840/006	36,50
ET 20N - 230 V single flashing lamp	41841/009	28,00
ET 22 - 230 V double flashing lamps	41841/001	54,00
Kit antenna 433,92 Mhz for ET2N e ET20N	41929/003	15,00

MAGNETIC DETECTION DEVICES



DESCRIPTION	CODE	EURO
230 V single channel magnetic detector	41801/004	235,00
230 V double channel magnetic detector	41801/005	298,70

STRAIGHT SAFETY EDGES

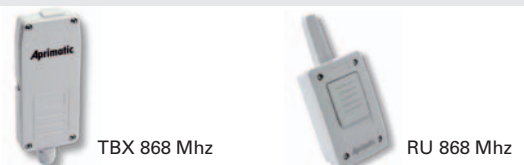
Straight safety edges comprise an aluminium body and a rubber profile containing a steel cable obstacle detection system.



DESCRIPTION	CODE	EURO
CF1M - Straight safety edge, 1,5 m	41850/002	59,00
CF2M - Straight safety edge, 2,0 m	41850/003	65,00
CF3M - Straight safety edge, 3,0 m	41850/004	72,50
CF3MS - Straight safety edge, 3,0 m (slim profile for garage doors)	41850/001	67,00



RADIO BAND

This system lets safety edges on automatic gates send signals via radio. The Radio Band system has a constant dialogue between emitter and receiver at a frequency of 868 Mhz, with continuous auto-test. Each receiver manages as many as 6 transmitters.



DESCRIPTION	CODE	EURO
TBX 868 MHz - Radio Band Transmitter	41906/001	130,00
RU 868 MHz - Radio Band Receiver	41926/001	147,50

OPTIONAL POWER SUPPLIES

DESCRIPTION	CODE	EURO
 AL1 - 12 / 24 Vdc 500 mA power supply for the independent control of electric locks, relays, CT3 keypad or LB4 card reader with plug-in for the decoder cards DC/3 and DB/4	41703/002	89,00
 24 Vdc 250 mA power supply for safety devices and accessories 50 mm Ø x 30 mm h, can be installed in 3 module wall boxes	41703/001	40,50



ACCESS CONTROL

PHOTOCELLS

ER-REF - POLARISED REFLECTION PHOTOCELL FOR GATE AUTOMATION

Rapid to install (wall-mounted or on a supporting column) as it only requires wiring to one side of the gate.

The round reflector must be installed on the other side at the same height as the photocell.

Extremely reliable, as it is able to detect highly reflecting objects, such as mirrors or shiny surfaces.

Alignment of the photocell is very easy: thanks to the analogic alignment LED, it is easy to detect the best position.

There is an optional guard to protect the reflector against knocks and splashes.



TECHNICAL DATA

POWER SUPPLY (set with a jumper)	24 Vdc / Vac
MAX. ABSORBED POWER	3 W
MAX. RECEIVER RELAY SWITCHING RANGE	1A a 24Vdc for resistive loads 0,5A a 24Vdc for non-resistive loads
ACTIVATION TIME	20 m sec.
MAX. OPERATING DISTANCE	12 m nominal
OPERATING TEMPERATURE	-15°C to +70°C
RELATIVE HUMIDITY	< 90% non condensing
LIGHT REJECTION	20000 lux
PROTECTION CLASS	IP45
APPLICATION FIELD	Using only protected environment

DESCRIPTION	CODE	EURO
ER-REF - Polarised reflection photocell	41810/002	84,50
Round reflector guard	41810/050	9,50

ER2N - PHOTOCELLS FOR RECESSED MOUNTING

ER2N photocells are adjustable to guarantee perfect alignment. The modulated infra-red receiver and transmitter are immune to interference by sunlight and intense direct light.



DESCRIPTION	CODE	EURO
ER2N - Modulated infra-red photocells, 24 Vdc/Vac power supply, recessed or post-or welded box-mounting, reading distance of up to 40 m	41811/001	82,50

DESCRIPTION ACCESSORIES	CODICE	EURO
Galvanized post for ER2N photocells (height 51 cm)	41811/050	31,00
Bracket for metal pillar connection complete with screws (pack of 6 pcs)	41830/052	4,50 / pcs
Plastic container for recessed wall-mounting (pack of 6 pcs)	41830/053	2,50 / pcs
Metal container for welding (pack of 8 pcs)	41830/054	8,50 / pcs
Post base plate (pack of 4 pcs)	41812/051	9,50 / pcs



ACCESS CONTROL

PHOTOCELLS

ER4N - MINI PHOTOCELLS FOR WALL - MOUNTING

ER4N photocells, with a maximum range of 20 metres, are designed for wall-mounting and do not require masonry work. The photocells are self-aligning and do not require adjustment. The modulated infra-red receiver and transmitter are immune to interference by sunlight and intense direct light.



DESCRIPTION	CODE	EURO
ER4N - Modulated infra-red photocells, 24 Vdc/Vac power supply, wall or post mounting, reading distance up to 20 m	41812/001	61,00

ER180B - BATTERY-POWERED PHOTOCELL FOR WALL MOUNTING:

ER180B photocell are equipped by adjustable optic of 180°. The TX Transmitter is powered by two batteries of 1,5 V (2 pcs model AAA or LR03) with a maximum life of 30 months. The RX Receiver, however, is powered by 12-24 Vac/dc through the electronic control unit of the system.



DESCRIPTION	CODE	EURO
ER180B - Battery-powered photocell (12-24Vac/dc), for wall mounting, range of 20 meters	41817/001	88,00






OPTIONAL ACCESSORIES ER-REF / ER4N (for pictures see "Installation Accessories")

DESCRIPTION	ER-REF	ER4N	CODE	EURO
Galvanized post for ER4N photocell	●	●	41812/052	28,00
Aluminium post for ER4N photocell (height 44 cm)	●	●	41812/050	30,00
Post base plate (pack of 4 pcs)	●	●	41812/051	9,50/pcs
ER4N - Fixing plates (pack of 10 pcs)	●	●	41812/054	7,50/pcs









INSTALLATION ACCESSORIES





INSTALLATION ACCESSORIES AND CONTROL DEVICES

DESCRIPTION	CODE	EURO
 Plastic container to be cemented in (pack of 6 pcs)	41830/053	2,50 /pcs
 Metal container to be welded (pack of 8 pcs)	41830/054	8,50 /pcs
 PC12 - Metal container to be welded	41830/050	12,00
 ER4N - Fixing plates (pack of 10 pcs)	41812/054	7,50 /pcs
 Bracket for metal pillar connection complete with screws (pack of 6 pcs)	41830/052	4,50 /pcs

POSTS AND INSTALLATION ACCESSORIES

DESCRIPTION	CODE	EURO
 Aluminium post for ER4N photocell (height 44 cm)	41812/050	30,00
 Aluminium post for PC12E key switch (height 110 cm)	41830/055	49,50
 Galvanised post for PC12 (height 110 cm)	41830/051	39,50
 Galvanized post for ER4N photocells	41812/052	28,00
 Galvanized post for ER2N photocells (height 51 cm)	41811/050	31,00
 Post base plate (pack of 4 pcs)	41812/051	9,50 /pcs



ELECTRIC LOCK AND INSTALLATION ACCESSORIES

DESCRIPTION	CODE	EURO
 ES3 - 12 Vac Electric lock complete with ground striker plate (requires CL1 or CL2)	41080/008	74,50
 CL1 - Single wing cylinder (keys included)	41080/005	15,50
 CL2 - Double wing cylinder (keys included)	41080/004	24,00
 CB3 - Counterhousing for ES3	41080/001	7,50





INSTALLATION ACCESSORIES





ELECTRIC LOCK AND INSTALLATION ACCESSORIES

DESCRIPTION	CODE	EURO
 Welding plate for vertical fitting of ES3	41080/003	13,50
 Welding plate for horizontal fitting of ES3	41080/002	12,50

INSTALLATION ACCESSORIES FOR OPERATORS

DESCRIPTION	CODE	EURO
ACCESSORIES FOR EXTERNAL OPERATORS:		
 Front and back bolt-on fixing plates	41007/051	7,50
 Rear fixing bracket for cementing in	41007/050	11,50

ACCESSORIES FOR UNDERGROUND OPERATORS:

 TRA - Copper pipe, ext. Ø 8 mm (order length required)	41056/056	5,50/m
 Telescopic arms for AT 75, 10 mm	41005/051	41,50
 Metal box for hydraulic power unit	41056/059	71,50
 HC13 - Aprimoil (1 litre container) DN22 - Aprimoil (1 litre container)	41700/013 41700/014	14,50 16,50





TUBULAR MOTORS

Tubular motors for rolling shutters and sun-blinds.



TÜV
Rheinland
Product Safety

Aprimatic range of tubular motors for rolling shutters and sun blinds is extremely reliable, fast, and silent and offers performance to satisfy even the most demanding users.

Motors can be driven via ADI control units to create fully automatic, radio controlled systems.

A wide range of adapters and installation accessories satisfies the requirements of all types of application.

Three rolling shutter automation kits are available, covering 30kg, 60kg and 90kg shutters, complete with installation accessories.

45, 59 and 92 Series motors are also available in M versions with emergency manual operation in the event of a power failure.

Motors come complete with a 1,9 m electrical power cable. A simple device enables easy and precise adjustment of limit switches.

New Serie 92 motors, the best solution to motorize grilles and metal shutters (max. weight up to 350 kg).

TECHNICAL DATA

SERIES	MODEL	CONSUMPTION (S without emergency operation) (M with emergency operation) (Nm)	POTENZA (W)	SPEED (rpm)	DIAMETER (Ø mm)
35	35S-10/17	10	121	17	35
	35S-6/28F	6	121	28	35
45	45S-20 - 45M-20	20	145	15	45
	45S-20/26 - 45M-20/26	20	170	26	45
	45S-30 - 45M-30	30	191	15	45
	45S-50 - 45M-50	50	191	12	45
59	59S-80 - 59M-80	80	298	15	60
	59S-100 - 59M-100	100	305	12	60
	59S-120 - 59M-120	120	305	9	60
92	92S-230 - 92M-230	230	602	12	92

For all models 45 and 59, the working time is 4 minutes

ROLLER KIT REVOLUX



KIT DESCRIPTION (Motor without emergency operation)	Max. weight*	CODE	EURO
ROLLER KIT 30 kg	Ø 60 mm / 35 kg	43302/802	153,50
ROLLER KIT 60 kg	Ø 60 mm / 56 kg	43302/803	164,00
ROLLER KIT 90 kg	Ø 60 mm / 90 kg	43302/804	180,50

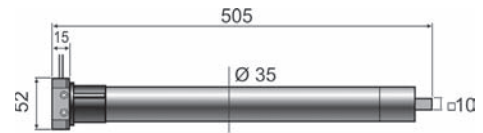
Both packs include:

Tubular motor, adapter for standard Ø 60 mm octagonal tube, bracket with Ø 10 mm pin for fitting to existing brackwork, end piece with adjustable round pin for Ø 60 mm octagonal tubes, square pin and bracket kit Ø 10 mm



TUBULAR MOTORS



35 SERIES TUBULAR MOTORS without emergency operation



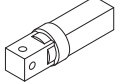
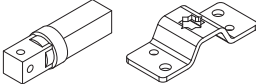

DESCRIPTION (Motor without emergency operation)	Max. weight*	CODE	EURO
35S-10/17	Ø 40 mm / 20 kg	43300/001	122,00
35S-Ø/28F (Suitable only for round tube Ø 40 mm)	Ø 40 mm / 20 kg	43300/002	122,00

DESCRIPTION OF ACCESSORIES FOR SERIES 35

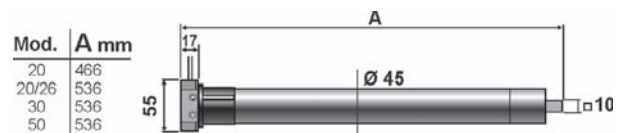
ADAPTERS:

	Adapter for Ø 40 mm octogonal tube	43380/087	3,50
	Adapter for Ø 40 mm round tube	43380/115	2,50

INSTALLATION ACCESSORIES:

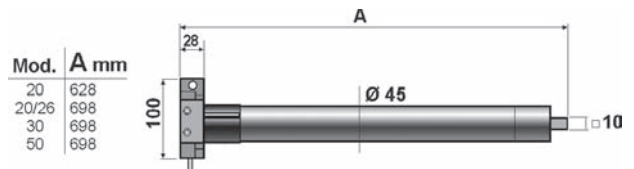
	Square pin	43380/077	2,50
	Kit with square and bracket	43380/082	5,50
	Standard support	43380/091	3,50

SERIES 45 TUBULAR MOTORS without emergency operation



DESCRIPTION (Motor without emergency operation)	Max. weight*	CODE	EURO
45S-20	Ø 60 mm / 35 kg	43302/001	131,00
45S-30	Ø 60 mm / 55 kg	43302/002	143,50
45S-50	Ø 60 mm / 88 kg	43302/003	163,00
45S-20/26	Ø 60 mm / 35 kg	43302/004	154,50

SERIES 45 TUBULAR MOTORS with emergency operation



DESCRIPTION (Motor with emergency operation)	Max. weight *	CODE	EURO
45M-20	Ø 60 mm / 35 kg	43310/005	170,00
45M-30	Ø 60 mm / 55 kg	43310/006	194,00
45M-50	Ø 60 mm / 88 kg	43310/007	220,50
45M-20/26	Ø 60 mm / 35 kg	43310/008	202,00

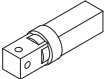
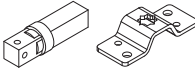


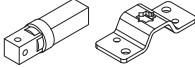
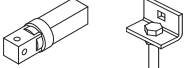
* See table page 140.




NOTE: All the above mentioned motors can be combined with ADI control units. See section "ADI Modules" in this catalogue (look up in this index).



TUBULAR MOTORS




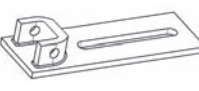
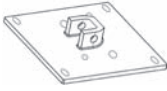


DESCRIPTION OF ADAPTERS FOR SERIES 45 (CMS-SMS) MOTORS		CODE	EURO
	60 mm OCTAGONAL (for motors 45S-50, 45M-50)	43380/156	4,50
	70 mm OCTAGONAL (for motors 45S-20/30, 45M-20/30)	43380/061	4,50
	70 mm OCTAGONAL (for motors 45S-50, 45M-50)	43380/161	5,50
	70 mm OGIVE	43380/064	6,50
	78 mm OGIVE	43380/059	6,50
	50 mm ROUND	43380/063	6,50
	BONFANTI/GAVIOTA	43380/058	6,50
	ZF54 Adapter	43380/060	6,50
	ZF64 Adapter	43380/062	6,50
	DEPRAT 62 Adapter	43380/065	6,50

DESCRIPTION OF INSTALLATION ACCESSORIES FOR SERIES 45 SMS		CODE	EURO
	Square pin Revolux 45S	43380/078	2,50
	Kit with square pin and bracket Revolux 45S	43380/083	5,50
	Standard support Revolux 45S	43380/092	3,50
	Standard support rapid Revolux 45S	43380/124	8,50
	Support kit for screwed holes and square pin Revolux 45S	43380/107	3,50
	Kit standard support with readed holes and square pin Revolux 45S	43380/108	4,50

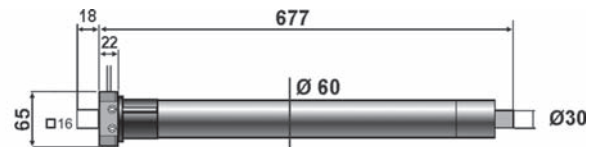
DESCRIPTION OF INSTALLATION ACCESSORIES FOR SERIES 45 CMS		CODE	EURO
	Square pin Revolux 45M	43380/079	5,50
	Kit with square pin and bracket Revolux 45M	43380/084	5,50
	Eyelet exagonal kit 7 mm	43380/116	5,50



TUBULAR MOTORS

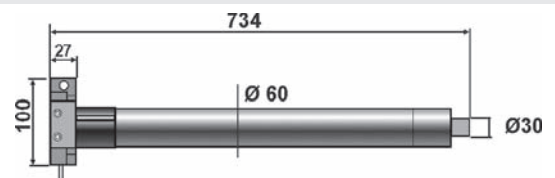
DESCRIPTION OF INSTALLATION ACCESSORIES COMMON FOR SERIES 45 SMS and CMS	CODE	EURO
 Adjustable square bracket Revolux 45S and 45M	43380/057	6,50
 Support with release Revolux 45S and 45M	43380/068	7,50
 Plane support for squared pin Revolux 45S and 45M	43380/109	2,50
 Adjustable square bracket Revolux 45S and 45M	43380/110	4,50
 Wall support Revolux 45S and 45M	43380/111	4,50
 Chest bracket 1 position Revolux 45S and 45M	43380/102	5,50
 Chest bracket 2 positions Revolux 45S and 45M	43380/101	5,50

SERIES 59 TUBULAR MOTORS without emergency operation






DESCRIPTION (Motor without emergency operation)	Max. weight *	CODE	EURO
59S-80	Ø 70 mm / 105 kg	43320/001	216,50
59S-100	Ø 70 mm / 139 kg	43320/002	227,00
59S-120	Ø 70 mm / 150 kg	43320/003	250,50

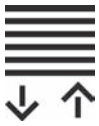
SERIES 59 TUBULAR MOTORS with emergency operation



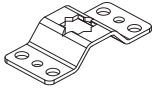
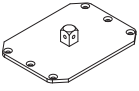
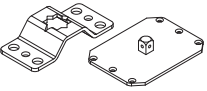

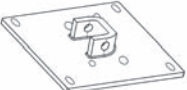
DESCRIPTION (Motor with emergency operation)	Max. weight *	CODE	EURO
59M-80	Ø 70 mm / 105 kg	43330/001	267,00
59M-100	Ø 70 mm / 139 kg	43330/002	295,00
59M-120	Ø 70 mm / 150 kg	43330/003	321,50

* See table page 140.

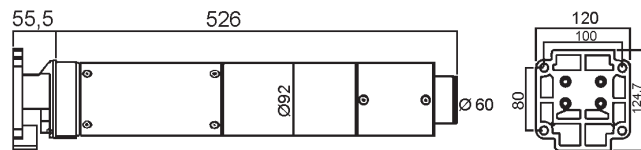
DESCRIPTION OF ADAPTERS FOR SERIES 59 (CMS-SMS) MOTORS	CODE	EURO
 70 mm OCTAGONAL	43380/088	5,50
 78 mm OGIVE	43380/104	6,50
 85 mm OGIVE	43380/105	6,50



TUBULAR MOTORS

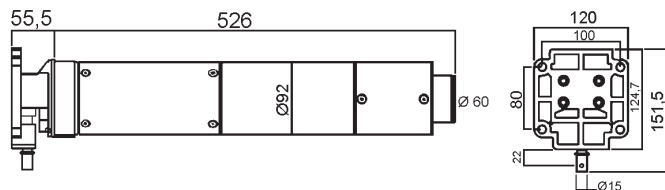
DESCRIPTION OF INSTALLATION ACCESSORIES FOR SERIES 59 SMS		CODE	EURO
	Standard support bracket Revolux 59S	43380/085	9,50
DESCRIPTION OF INSTALLATION ACCESSORIES FOR SERIES 59 CMS		CODE	EURO
	Square pin Revolux 59M	43380/081	5,50
	Kit with square pin and bracket Revolux 59M	43380/086	6,50
DESCRIPTION OF INSTALLATION ACCESSORIES COMMON FOR SERIES 59 SMS and CMS		CODE	EURO
	Adjustable square bracket Revolux 59S e 59M	43380/099	6,50
	Wall support Revolux 59S e 59M	43380/100	6,50

SERIES 92 TUBULAR MOTORS without emergency operation

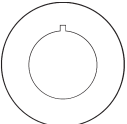


DESCRIPTION (Motor without emergency operation)	Max. weight *	CODE	EURO
92S-230	Ø 92 mm / 350 kg	43340/001	455,50

SERIES 92 TUBULAR MOTORS with emergency operation



DESCRIPTION (Motor with emergency operation)	Max. weight *	CODE	EURO
92M-230	Ø 92 mm / 350 kg	43345/001	525,50

DESCRIPTION OF ACCESSORIES FOR SERIES 92		CODE	EURO
	108 mm ROUND	43380/118	24,00
	97 mm ROUND	43380/125	26,80



TUBULAR MOTORS

DESCRIPTION OF ACCESSORIES COMMON TO ALL SERIES	CODE	EURO
 Ø 60 mm octagonal tube (in 3 m bars)	43380/094	19,00
 Ø 70 mm octagonal tube (in 3 m bars)	43380/095	33,00
 Masonry camp	43380/066	3,50
 45° 2 holes articulation with 7 mm hexagonal rod eyelet L = 400 mm *	43380/071	19,00
 45° articulation with joint **	43380/093	24,00
 90° 4 holes articulation with 7 mm hexagonal rod eyelet L = 250 mm *	43380/072	28,00
 Linear joint **	43380/106	4,50
 Articulated joint **	43380/089	5,50
 Hook for steel rod L = 81 mm **	43380/090	7,50
 Hook for steel rod L = 108 mm **	43380/112	5,50
 Rod for emergency manual operation *	43380/096	12,50
 Rod with hook and articulated handle L = 150 mm *	43380/070	33,00
 End piece with adjustable round pin for Ø 60 mm octagonal tubes	43380/097	8,50
 End piece with adjustable round pin for Ø 70 mm octagonal tubes	43380/098	8,50
 End piece for Ø 60 mm octagonal tubes	43380/113	2,50
 End piece for Ø 70 mm octagonal tubes	43380/114	5,50
 Safety spring for 14 mm profil	43380/050	16,50
 Pair of rings for Ø 60 mm octagonal safety spring	43380/051	4,50
 Pair of rings for Ø 70 mm octagonal safety spring	43380/052	5,50
 Burglar-proof spring for octagonal pipe Ø 60 mm	43380/073	27,00
 Burglar-proof spring for octagonal pipe Ø 70 mm	43380/076	27,00

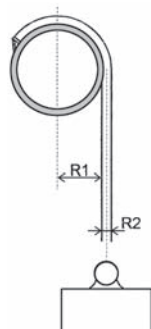
* Accessories dedicated to tubular motors 45 and 59 series with emergency operation.

** Accessories dedicated to tubular motors 59 series only.



AUTOMATION FOR ROLLING SYSTEMS

Guide to automations for rolling systems.



$$\text{WEIGHT} = \frac{\text{Nominal torque (Nm)}}{\text{Lifting radius (Nm)}}$$

The nominal torque in Nm (Newton per meter) is indicated on the product label. Lifting radius is the sum between rolling tube radius (see R1 reported on the picture) and half thickness of the rolling shutter (see R2 reported on the picture).

EXAMPLE IN METER

Coppia nominale del motore 45 Nm

Diametro tubo 60 mm per cui R1 = 30 mm (0,030 m)

Spessore della tapparella 10 mm per cui R2 = 5 mm (0,005 m)

$$\text{WEIGHT} = \frac{45 \text{ Nm}}{0,030 \text{ m} + 0,005} = \frac{45 \text{ Nm}}{0,035 \text{ m}} = 1285 \text{ N}$$

$$1285 \text{ N} = 131 \text{ kg} \quad \text{WEIGHT} = \frac{1285 \text{ Nm}}{9,81} = 131 \text{ kg}$$



The motor installed on this tube can lift 131 kg.

Due to safety coefficients used on window frames and rolling shutter (about 50%), it results that the max. lifting weight allowed is 65 kg.

These tables help choosing the tubular motor depending on the diameter of rolling tube and the weight of rolling shutter. The rolling shutter weight is obtained multiplying the surface for the weight per m² of material used.

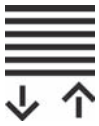
WARNING

Weights reported inside the table are calculated with safety coefficient of 50% (considering friction, increasing of roller shutter external diameter, etc.).

It is strongly recommended not to over-dimension or under-dimension the tubular motor!

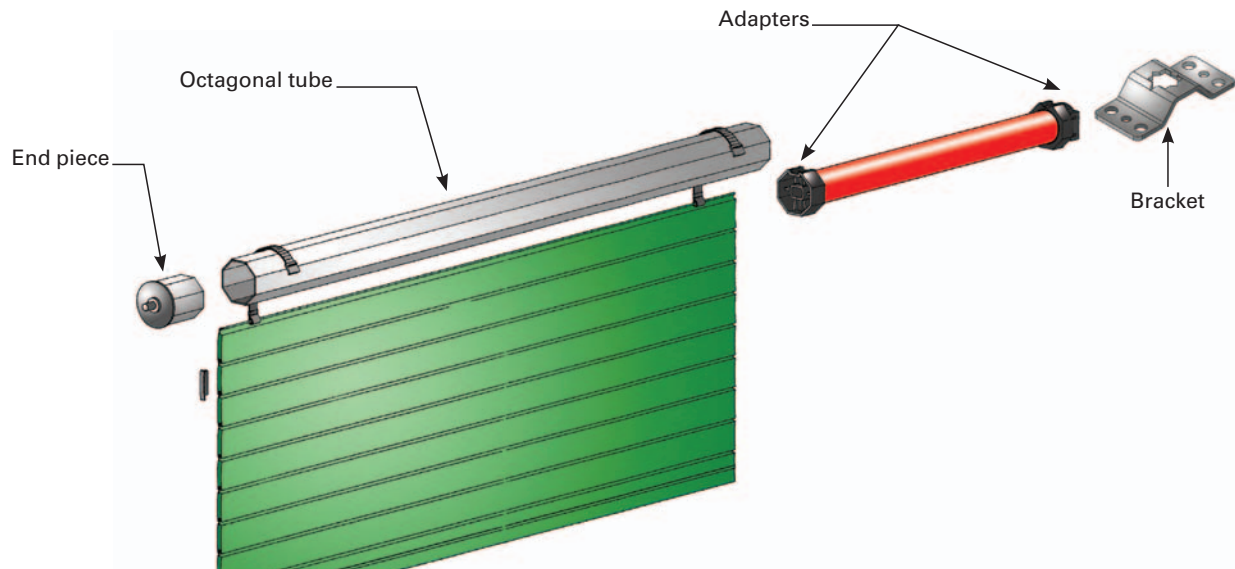
MATERIAL	WEIGHT FOR m ²
PVC	~ kg 5,0
WOOD	~ kg 10,0
INSULATED ALUMINIUM	~ kg 4,0
INSULATED STEEL	~ kg 10,0
"SICOFER" ARMoured STEEL	~ kg 16,0

OCTAGONAL TUBE Ø 40 MM		OCTAGONAL TUBE Ø 60 MM		OCTAGONAL TUBE Ø 70 MM	
20 kg	REVOLUX 35S-10	88 kg	REVOLUX 45-50	150 kg	REVOLUX 59-120
		55 kg	REVOLUX 45-30	130 kg	REVOLUX 59-100
		35 kg	REVOLUX 45-20	105 kg	REVOLUX 59-80
				85 kg	REVOLUX 45-50
				50 kg	REVOLUX 45-30
				30 kg	REVOLUX 45-20



AUTOMATION FOR ROLLING SYSTEMS

The figure is shown only for the purposes of identifying the parts/accessories needed to automate a rolling shutter.



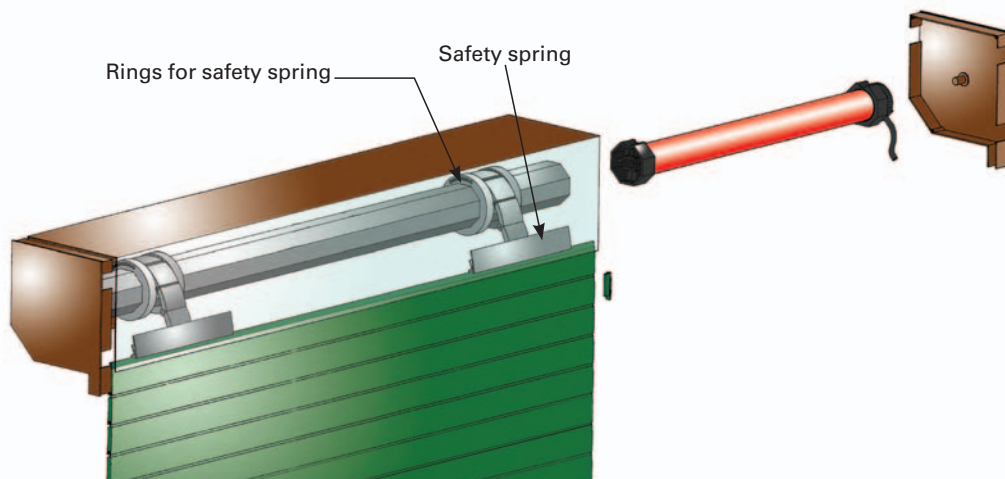
Minimum configuration - Tubular motor with no emergency operation

Rif.	Component	Notes	Page
1	Tubular motor	Series 35 motors Series 45 motors Series 59 motors	For 35 series see page 135 For 45 series see page 135 For 59 series see page 137
2	Motor fixing accessories		pages 135 - 136 - 137 - 138
3	Tube adapters		pages 135 - 136 - 137

Optional accessories

Rif.	Component	Notes	Page
4	Octagonal tube		page 139
5	Tube end piece with adjustable round pin		page 139

TUBULAR MOTOR WITH ROLLING SHUTTER FITTED IN BOX





AUTOMATION FOR SUN BLINDS

Guide to automation for sun blinds.

STANDARD ARM WITH 50 mm ROUND PIN ROLLER

NUMBER OF ARMS	PROJECTION IN METERS					
	1,5	2	2,5	3	4	5
2	20	30	30	30	30	50
4	30	30	30	50	50	-
6	30	30	50	50	-	-
8	50	50	-	-	-	-

STANDARD ARM WITH 70 mm ROUND PIN ROLLER

NUMBER OF ARMS	PROJECTION IN METERS					
	1,5	2	2,5	3	4	5
2	20	30	30	30	50	50
4	30	30	30	50	50	80
6	30	50	50	50	80	100
8	50	50	80	80	-	-

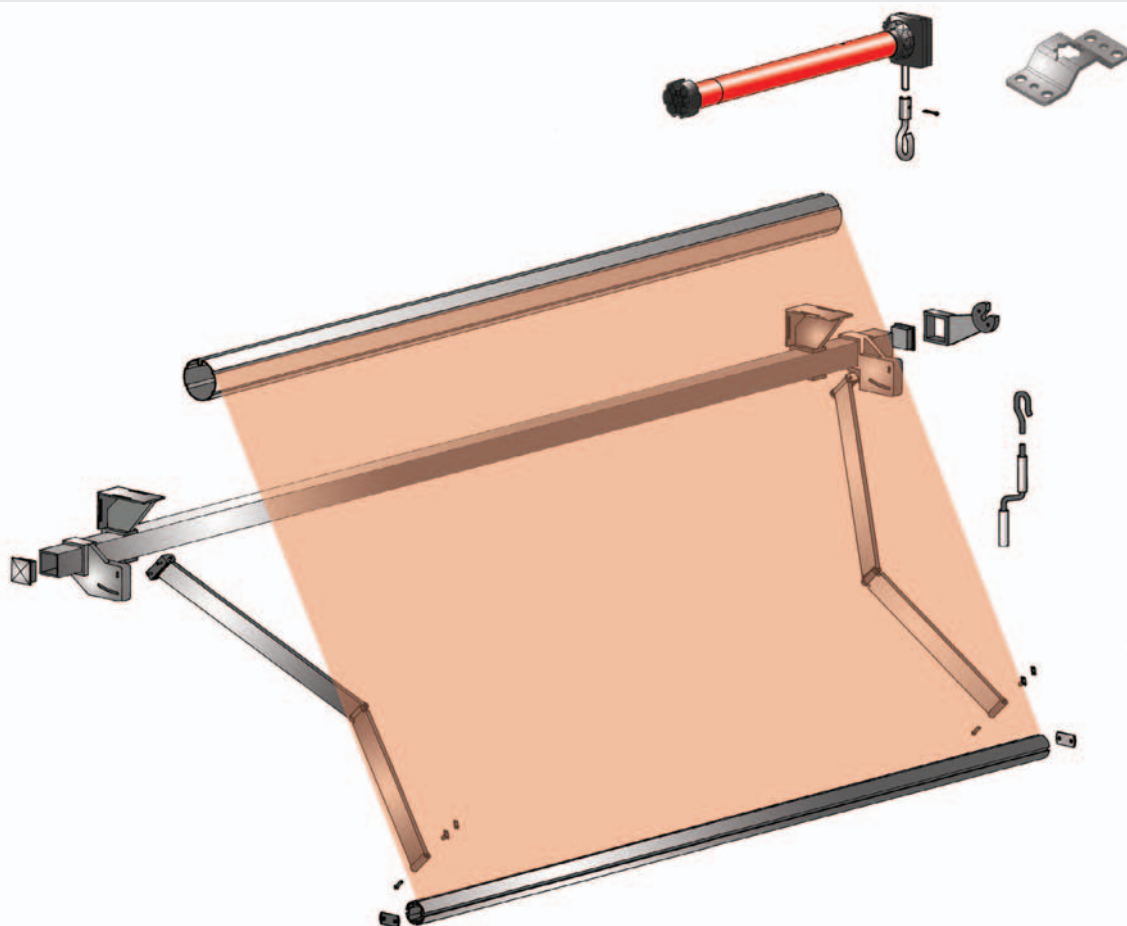
STANDARD ARM WITH 78 mm ROUND PIN ROLLER

NUMBER OF ARMS	PROJECTION IN METERS					
	1,5	2	2,5	3	4	5
2	20	30	30	50	50	80
4	30	50	50	50	50	80
6	50	50	50	80	100	120
8	80	80	80	80	120	-



AUTOMATION FOR SUN BLINDS

TUBULAR OPERATOR FOR SUN BLINDS



Minimum configuration - Tubular motor with emergency operation

Rif.	Component	Notes	Page
1	Tubular motor	Series 45 motors Series 59 motors	For 45 series page 135 For 59 series page 137
2	Motor fixing accessories		pages 135 - 136 - 137 - 138
3	Tube adapters		pages 136 - 137 - 138
4	Emergency operation accessories		page 136 - 138

Optional accessories

Rif.	Component	Notes	Page
5	Rod for emergency manual operation		page 139

Description of ideal installation	CODE	EURO
ROLLER KIT 60 kg	43302/803	164,00
M230 HR - Electronic control unit for rolling shutter 230 V	43665/004	103,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
	Total price	298,00



ROLLI 140

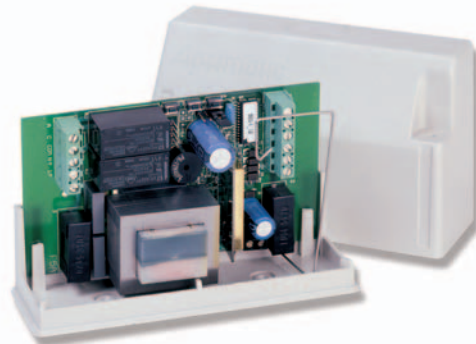
Operator for rolling shutters,
residential use.



ROLLI 140 (reversible) for rolling shutters with 48/60 mm shaft and 200/220 mm spring holders is the economical version for quick and easy installation. An electronic brake is available as accessory.
Mechanical limit switch adjustment.

M230S is an electronic control unit with an integrated receiver compatible with all Aprimatic 433,92 Mhz remote control, easy to install and program. It can be connected to control, safety and security devices (max accessory absorption: 300 mA) and comes with 4 logic systems for working and pause time control and programming.

External tamper-proof boxes available for wall and recess-mounting.



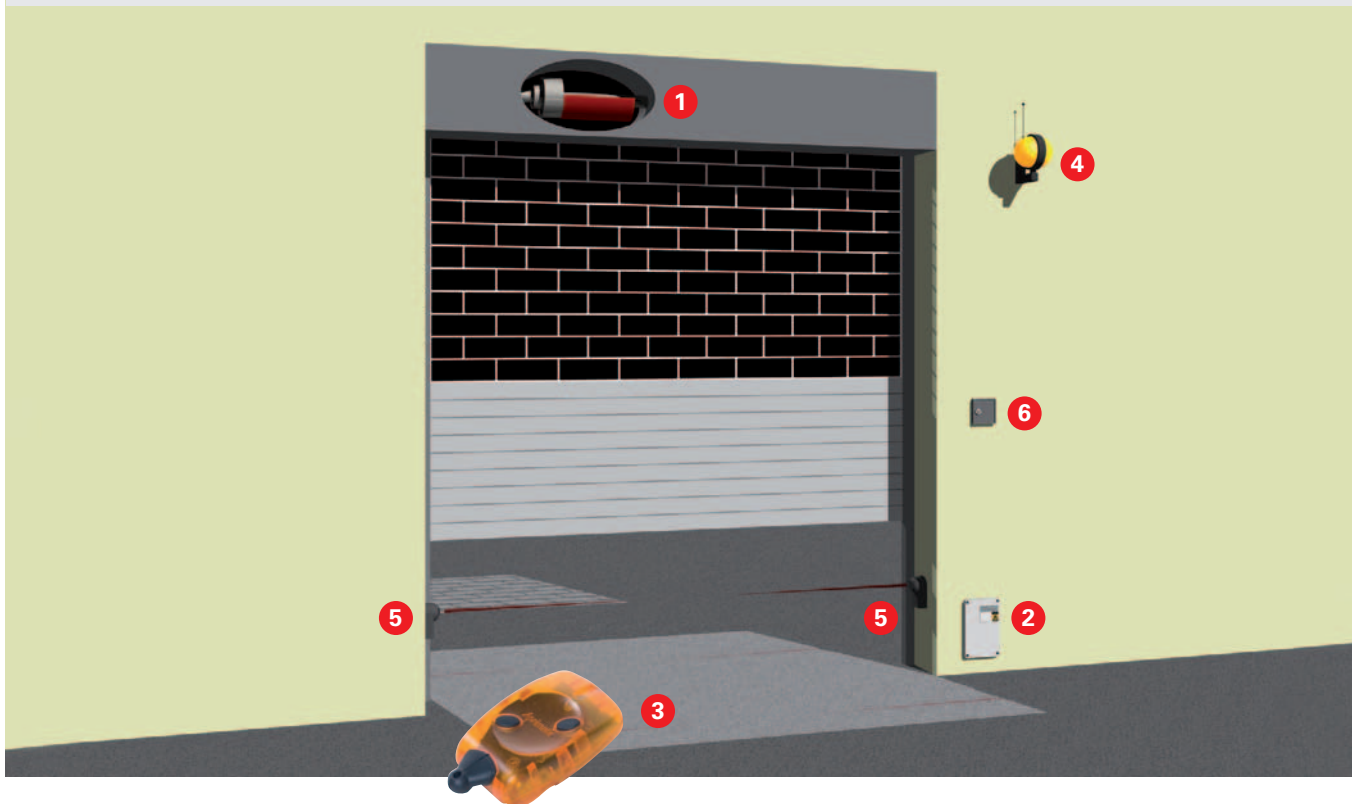
TECHNICAL DATA	ROLLI 140
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED CURRENT	1,8 A
ABSORBED POWER	400 W
MAX. TORQUE	135 Nm
MAX. LIFTING FORCE	140 kg
RPM	10 n
CAPACITOR	14 µF
OPERATING TEMPERATURE	-20° to +50° C
MAX. SHUTTER HEIGHT	6 m
PROTECTION CLASS	IP30





ROLLI 140

WIRING DIAGRAM



- 1** Gear motor
- 2** Electronic control unit
- 3** Transmitter
- 4** Flashing lamp
- 5** Pair of photocells
- 6** Control unit: key switch / proximity sensor access control / electronic key-pad / tamper-proof card / magnetic key reader

DESCRIPTION	CODE	EURO
ROLLI 140 - Gear motor 140 kg without electric brake	43354/001	198,00
ROLLI 140E - Gear motor 140 kg with electric brake	43354/002	238,00
EF - Electric brake (5 meters)	43354/050	42,50

DESCRIPTION	CODE	EURO
CS - External strongbox (with up/down and brake release buttons)	41704/002	64,00
CSP - ROLLI wall-mounted external strong box	41704/004	53,00
ROLLI wall-mounted selector (with up/down button)	41704/005	50,50
ER4N - Pair of photocells	41812/001	61,00
433,92 Mhz antenna	41929/001	16,50
PM12 - Metal key switch (wall mounted)	41830/006	31,00
M 230S - Electronic control unit for rolling shutters	43665/015	100,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ET20N - 230 V flashing lamp	41841/009	28,00
Kit antenna for installation on the flashing lamp	41929/003	15,00

DESCRIPTION	CODE	EURO
KIT ROLLI 140 kg	43354/800	486,50
The package includes:		
ROLLI 140 - Gear motor with electronic brake		
M 230S - Electronic control unit for rolling shutters		
TR2 - 433,92 Mhz twin-channel transmitter		



ROLLI 180

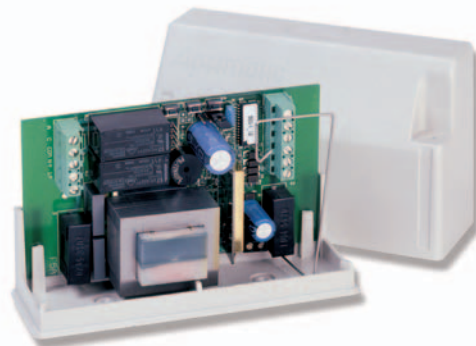
Operator for rolling shutters,
residential use.



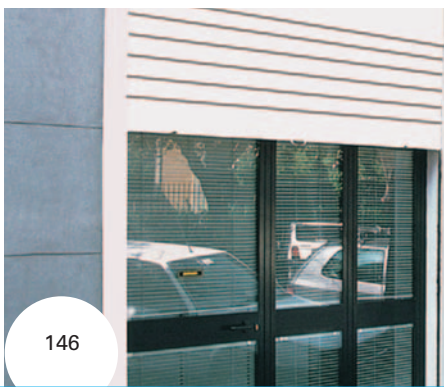
ROLLI 180 (reversible) for rolling shutters with 48/60 mm shaft and 200/220 mm spring holders is the economical version for quick and easy installation. An electronic brake is available as accessory.
Mechanical limit switch adjustment.

M230S is an electronic control unit with an integrated receiver compatible with all Aprimatic 433,92 Mhz remote control, easy to install and program. It can be connected to control, safety and security devices (max accessory absorption: 300 mA) and comes with 4 logic systems for working and pause time control and programming.

External tamper-proof boxes available for wall and recess-mounting.



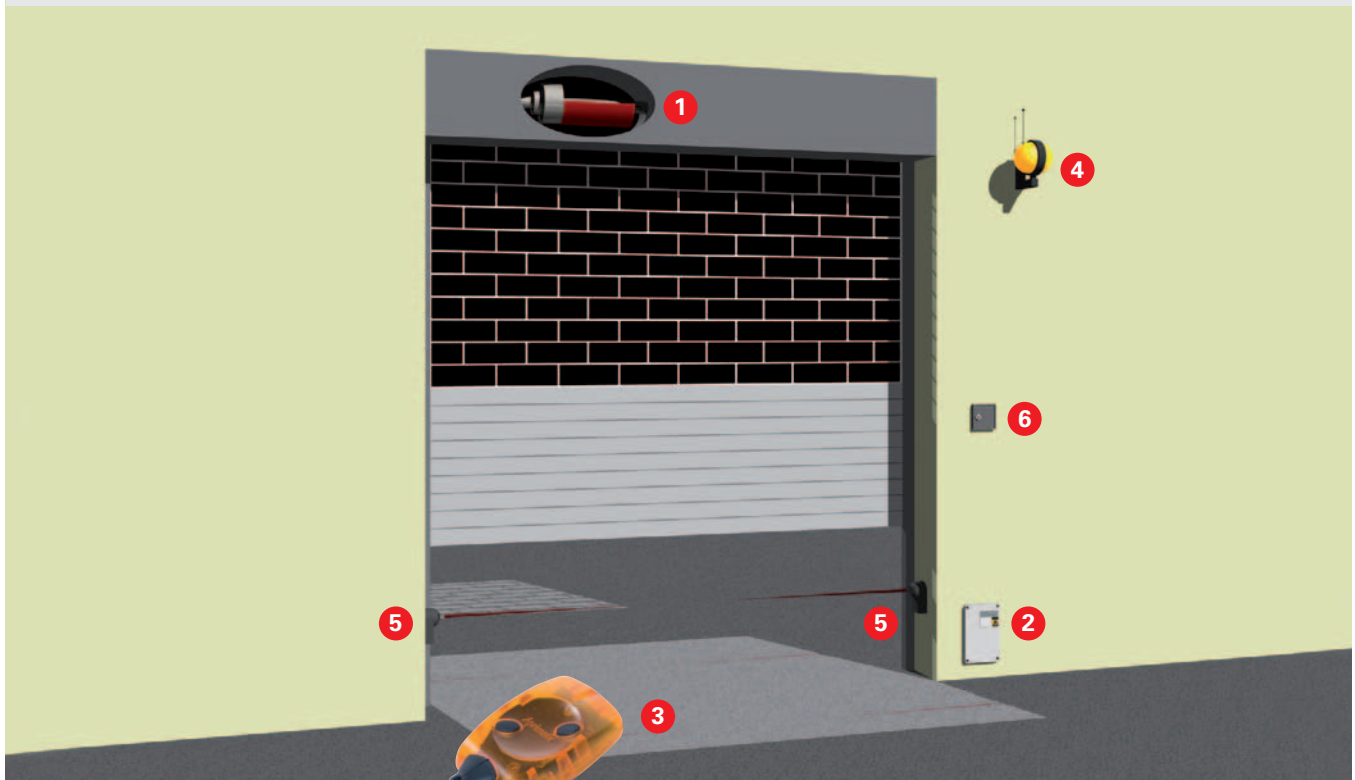
TECHNICAL DATA	ROLLI 180
POWER SUPPLY	230 V - 50/60 Hz
ABSORBED CURRENT	2,8 A
ABSORBED POWER	600 W
MAX. TORQUE	175 Nm
MAX. LIFTING FORCE	180 kg
RPM	10 n
CAPACITOR	14 μ F
OPERATING TEMPERATURE	-20° to +50° C
MAX. SHUTTER HEIGHT	6 m
PROTECTION CLASS	IP30





ROLLI 180

WIRING DIAGRAM



- 1** Gear motor
- 2** Electronic control unit
- 3** Transmitter

- 4** Flashing lamp
- 5** Pair of photocells
- 6** Control unit: key switch / proximity sensor access control / electronic key-pad / tamper-proof card / magnetic key reader

DESCRIZIONE	CODE	EURO
ROLLI 180 - Gear motor 180 kg without electric brake	43354/003	206,00
ROLLI 180E - Gear motor 180 kg with electric brake	43354/004	240,00
EF - Electric brake (5 meters)	43354/050	42,50

DESCRIPTION	CODE	EURO
CS - External strongbox (with up/down and brake release buttons)	41704/002	64,00
CSP - ROLLI wall-mounted external strong box	41704/004	53,00
ROLLI wall-mounted selector (with up/down button)	41704/005	50,50
ER4N - Pair of photocells	41812/001	61,00
433,92 Mhz antenna	41929/001	16,50
PM12 - Metal key switch (wall mounted)	41830/006	31,00
M 230S - Electronic control unit for rolling shutters	43665/015	100,00
TR2 - 433,92 Mhz twin-channel transmitter	41903/002	31,00
ET20N - 230 V flashing lamp	41841/009	28,00
Kit antenna for installation on the flashing lamp	41929/003	15,00



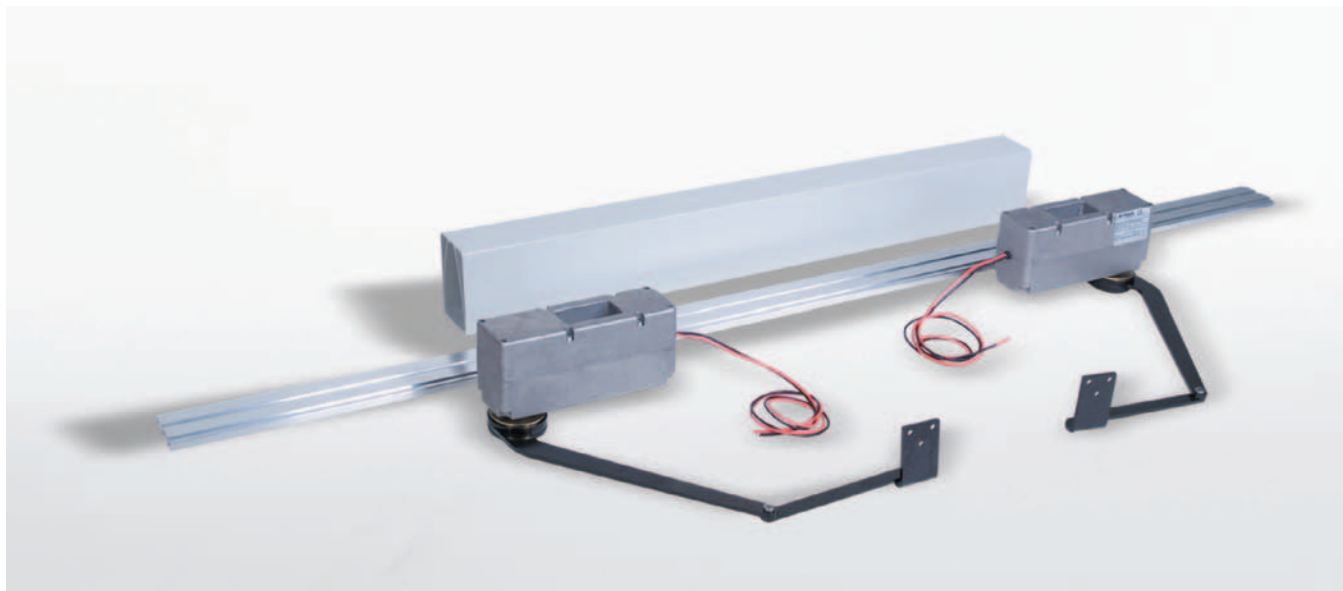
>>> AUTOMATIONS FOR SIDE-HUNG SHUTTERS >>>
AND WINDOWS





BUONGIORNO

Electro-mechanical operator
for side-hung shutters.



Maximum flexibility.

Buongiorno is an automation for side-hung shutters. It can be used for applications with any type of window including those fitted with security grates and mosquito nets.

It consists of an aluminium beam which acts as a support for the gear motor (two in the event of two wings) and a PVC guard.

The beam and guard can be cut to size to enable application with shutters of varying sizes.

Buongiorno is easy to install without having to modify the shutters or carry out masonry work, even with existing shutters.

Absolute convenience.

Buongiorno enables you to open and close the shutters in your home without having to open the windows, simply by pressing a button.

Buongiorno is ideal for opening and closing your shutters, in winter, in cold weather, in summer, even if your windows have mosquito screens or are difficult to reach.

Security and durability.

Buongiorno is fitted with an electronic clutch which behaves intelligently depending on the absorbed current.

The shutter stops if it meets an obstacle during movement thus protecting the user and the gear motor.

Thanks to this device, the installer does not have to make any limit switch adjustments.

In the event of mains power supply failure the user can open or close the shutter immediately without having to unlock it.

An electric lock can also be fitted for greater security.

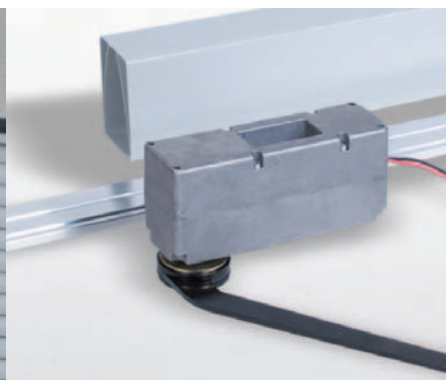
TECHNICAL DATA

POWER SUPPLY	230 Vac
MOTOR VOLTAGE	24 Vdc
MOTOR POWER	4,2 W
MAX. TORQUE	40 Nm
ELECTRIC LOCK	Internal
CLUTCH	Mechanical
OPERATING TIME	18 sec. for 180°

INSTALLATION REFERENCE DATA

	1 LEAF	2 LEAF
MIN. WINDOW WIDTH	43 cm	86 cm
MAX. WINDOW WIDTH	80 cm	155 cm
MAX. WING AREA	1,8 m ²	1,75 m ² x 2
MAX. WING WEIGHT	80 kg	50 kg x 2

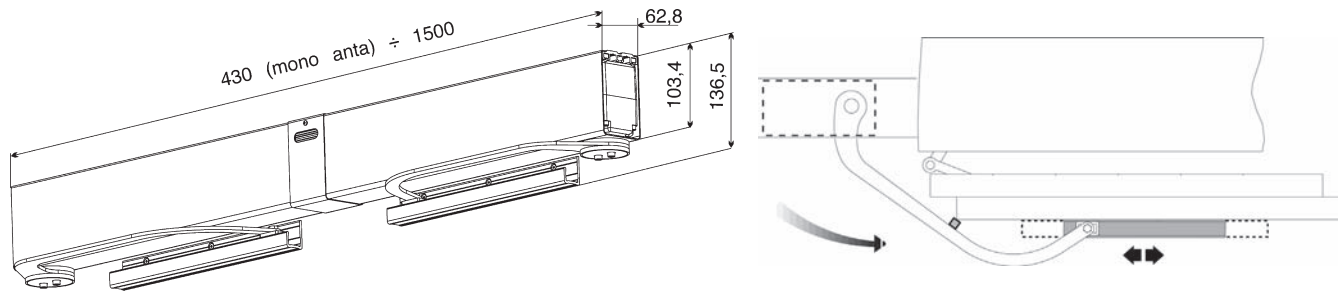
NOTE: The weight includes possible friction.





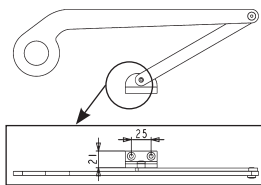
BUONGIORNO

OPERATOR DIMENSIONS

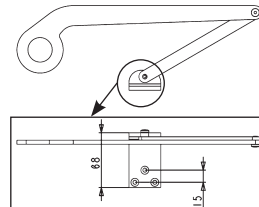


LEVERS

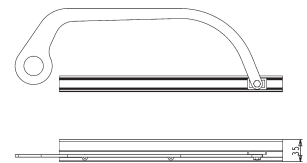
R - ARTICULATED ARM



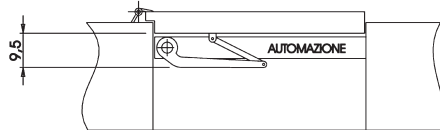
T - ARTICULATED ARM



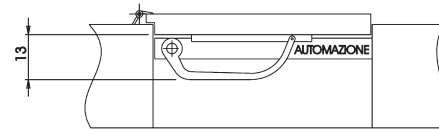
SLIDING ARM



ARTICULATED ARM



SLIDING ARM



DESCRIPTION OF OPTIONAL ACCESSORIES	Notes	CODE	EURO
Sliding arm	Standard two-handed lever	43400/055	25,00
RH "R" Articulated arm	Compact RH lever	43400/052	25,00
LH "R" Articulated arm	Compact LH lever	43400/053	25,00
R/H "T" Articulated arm	Compact RH lever with heavy duty bracket	43400/056	25,00
LH "T" Articulated arm	Compact LH lever with heavy duty bracket	43400/057	25,00
BUONGIORNO Electric lock unit	Electric security lock driven by control unit	43400/059	58,00
Bracket KIT for BUONGIORNO reverse application	Accessories for installation	43400/054	30,00

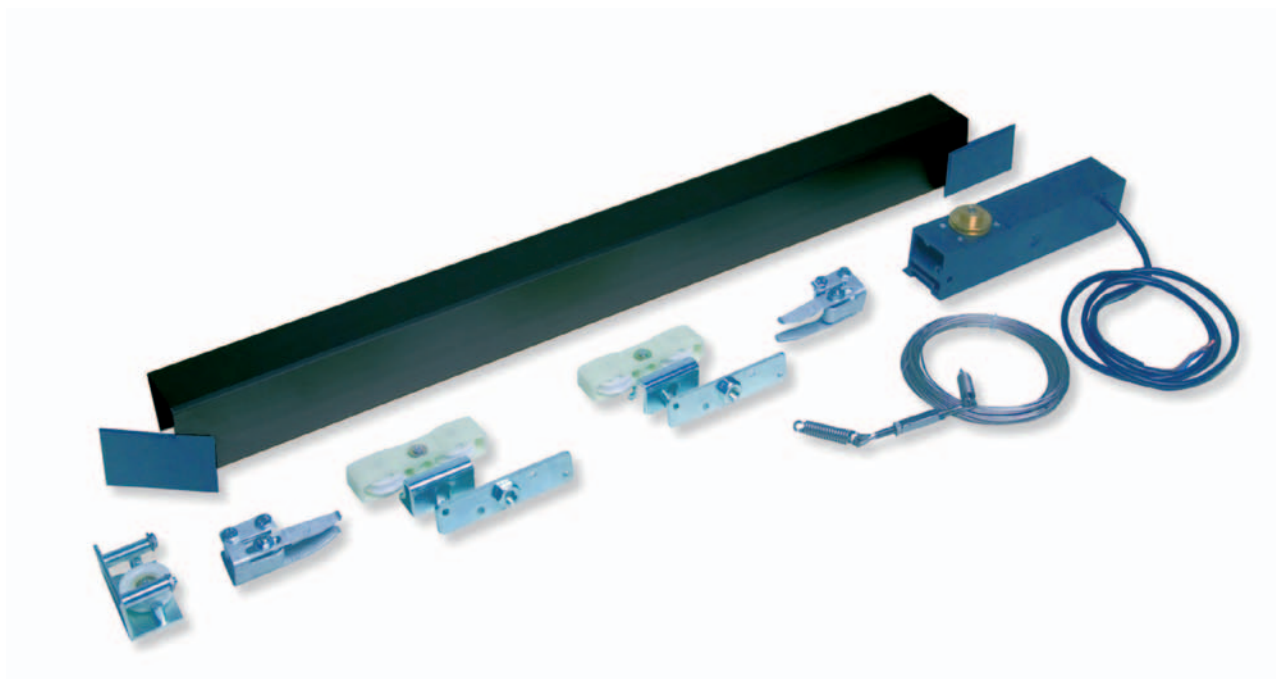
SINGLE WING Description of Ideal Installation	CODE	EURO
BUONGIORNO single wing KIT	43400/802	346,50
The package includes: BUONGIORNO single wing automation Two T articulated arms (RH and LH) Cover L = 800 mm		

DOUBLE WING Description of Ideal Installation	CODE	EURO
BUONGIORNO double wing KIT	43400/801	583,00
The package includes: BUONGIORNO double wing automation Two T sliding arms (RH and LH) Cover L = 1500 mm		



APRITOP

Electro-mechanical operator for shutters and sliding window gratings.



24 V electro-mechanical operator designed to move shutters and sliding doors.

Complete with aluminium support track, wing support carriages, drive cable and pulleys, 230 Vac to 24 Vdc transformer control unit.

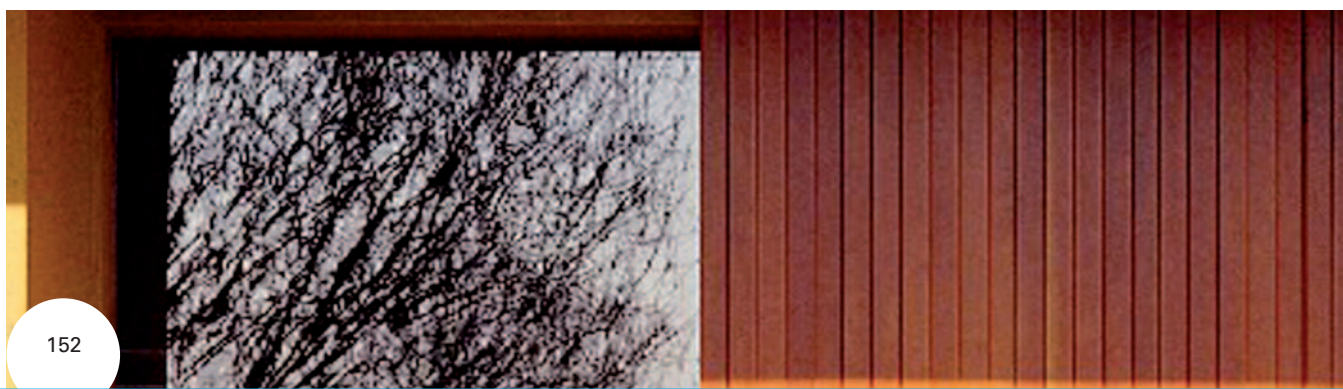
Control switch, wind-rain detection unit connection and remote control units also available.

The distinguishing feature of Apritop is the silent movement, thanks to the special type of track and the large-diameter ball bearings.

The elegant lines of Apritop are ensured by the small size of the track and the bronze anodised aluminium cover.

TECHNICAL DATA

MAX. LENGTH FOR SINGLE WING	2.900 mm
MAX. LENGTH FOR DOUBLE WING	1450 mm
MAX. DRIVE WEIGHT	120 kg
LIMIT SWITCH	Electronic, current absorption adjustable by control unit
OPERATING SPEED	0,08 m/sec.

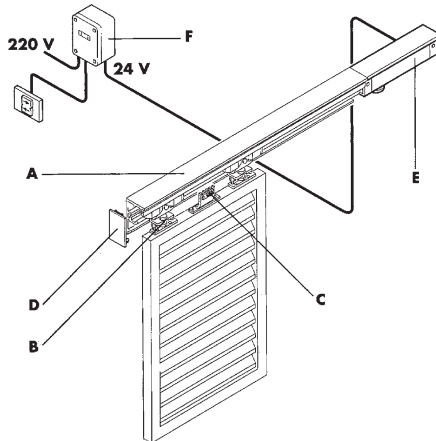




APRITOP

WIRING DIAGRAM

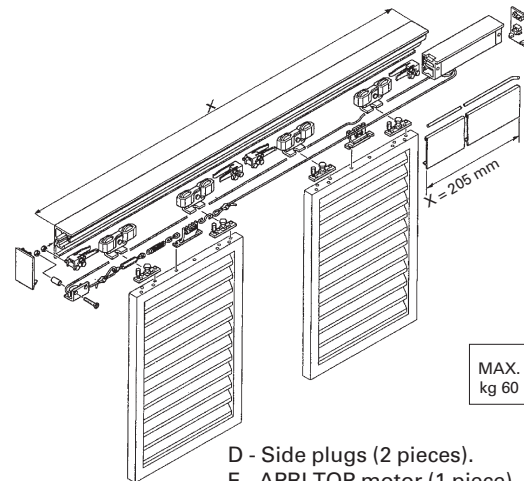
SINGLE WING automation



MAX.
kg 120

- A - Track and protection guard (1 piece).
- B - Carriages and limit switch (1 piece).
- C - 1 wing movement kit.

DOUBLE WING automation

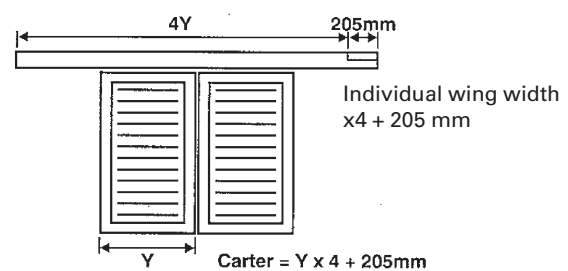
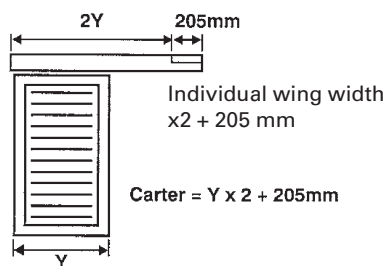


MAX.
kg 60

MAX.
kg 60

- D - Side plugs (2 pieces).
- E - APRI TOP motor (1 piece).
- F - CV1 control unit (1 piece).

CALCULATING THE LENGTH OF TRACKS/COVERS TO ORDER



DESCRIPTION	CODE	EURO
APRITOP 24 V OPERATOR	43402/001	173,50

DESCRIPTION OF ACCESSORIES	CODE	EURO
Track guard 2000 mm	43402/052	138,50
Track guard 3000 mm	43402/053	208,50
Track guard 4000 mm	43402/054	276,50
Track guard 6000 mm	43402/055	406,00
Pack of carriages for 1 wing	43402/056	135,00
Pack of carriages for 2 wings	43402/057	274,00
Pack of movement mechanisms for 1 wing	43402/058	208,50
Pack of movement mechanisms for 2 wings	43402/059	300,00
Pair of PVC side plugs	43402/060	6,50

DOUBLE WING Description of Ideal Installation	Q.ty	CODE	EURO
APRITOP 24 V Operator	1	43402/001	173,50
CV1-N - Control unit	1	43660/002	116,50
Track guard 4000 mm	1	43402/054	276,50
Pack of carriages for 2 wings	1	43402/057	274,00
Pack of movement mechanisms for 2 wings	1	43402/059	300,00
Pair of PVC side plugs	1	43402/060	6,50
Total price			1.147,00



APRILUX

Chain operator for dormer windows
and skylights.



Aprilux is an electro-mechanical chain operator with an internal magazine in a nylon casing. It is suitable for dormer windows and skylights. Stroke is adjustable from 90 to 330 mm 230 Vac power supply. Can be connected in parallel with a connection cable. The chain is rust-proof thanks to the Dacromet coating.

Maximum versatility thanks to an adjustable stroke ranging from 90 to 330 mm.

The ideal solution for operating dormer windows and skylights.

TECHNICAL DATA

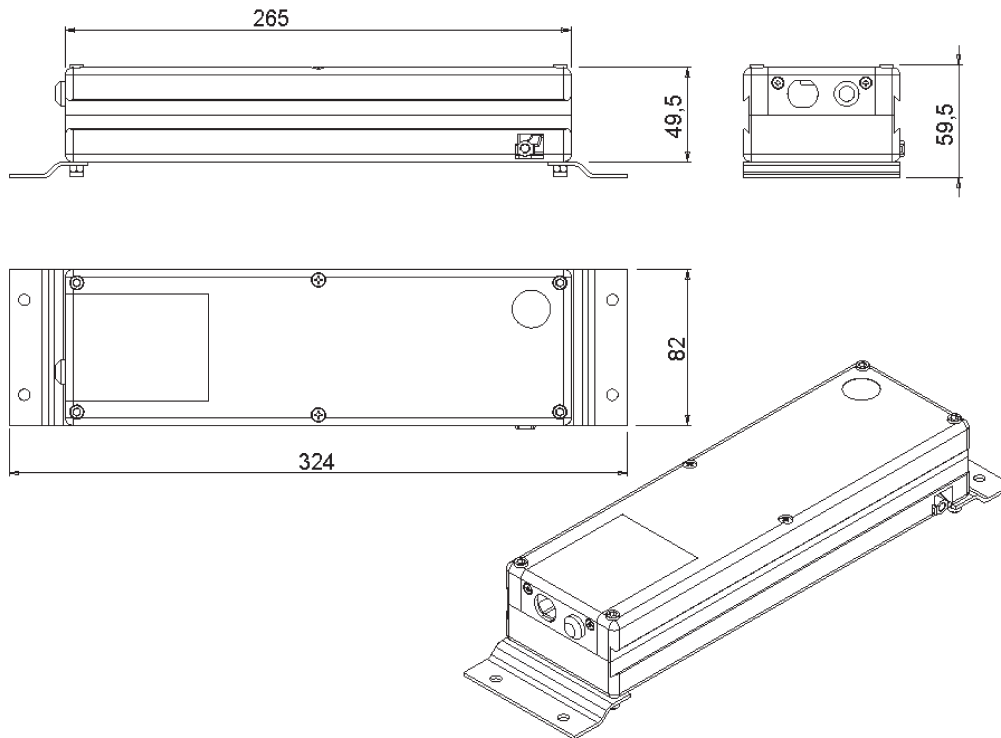
POWER SUPPLY	230 Vac
ABSORBED POWER	150 W
ABSORBED CURRENT	0,8A in ac
MAX. THRUST FORCE	150 N
PULL FORCE	300 N
ADJUSTABLE STROKE	From 90 to 330 mm
OPERATING SPEED	40 mm/sec.
FRONT ADJUSTMENT	Max. 10 mm
PARALLEL CONNECTION	YES
FREQUENCY	50 Hz
OVERLOAD PROTECTION	100° C
CAPACITOR	4 µ F
RELAY INCORPORATED	YES
WARNING LIGHT	YES
CONNECTION CABLE	YES
PROTECTION CLASS	IP20





APRILUX

OPERATOR DIMENSIONS





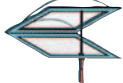

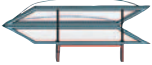

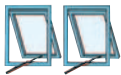
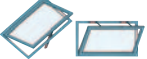
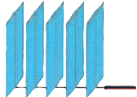
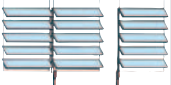
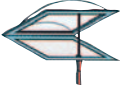


DESCRIZIONE	CODE	EURO
APRILUX Black	43503/012	111,50
APRILUX White	43503/011	119,50




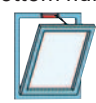
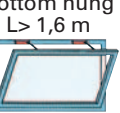

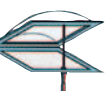
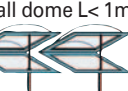
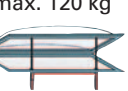


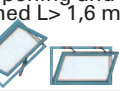
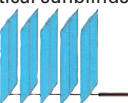
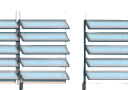
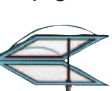


INDUSTRIAL APPLICATIONS

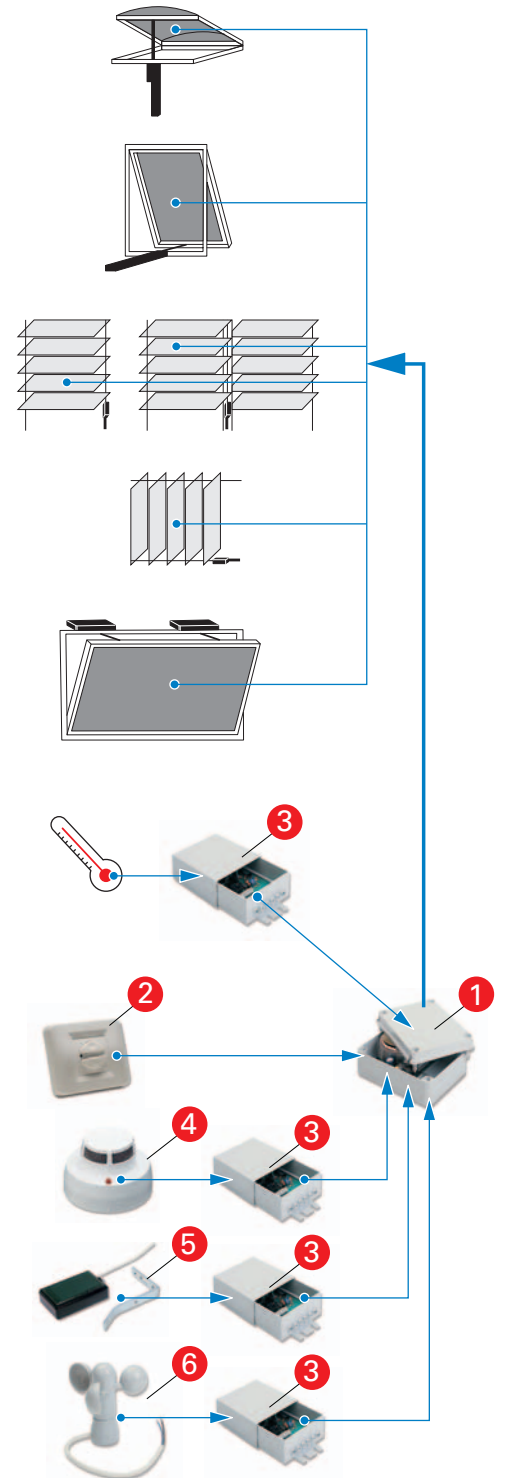
	O2M	VARIA	VARIA T	ST 450 N
Outward opening 	•	•		
Bottom hung 	•	•		
Bottom hung L > 1,6 m 			•	
Tilted 		•		•
Small dome 	•			•
Aligned Small dome L < 1m 				•
Large dome max. 120 kg 				
Shed 	•	•		•
Outward opening and aligned shed 	•	•		•
Large outward opening and shed L > 1,6 m 			•	
Vertical sunblinds 				•
Jalousie windows 				•
Skylights 	•			•



INDUSTRIAL APPLICATIONS

	APRILINEARE	APRILINEARE DUO SYSTEM	APRILINEARE TRY SYSTEM	SERIE 520 INDUSTRIAL
Outward opening 	•	•	•	•
Bottom hung 				•
Bottom hung L > 1,6 m 				•
Tilted 	•	•		•
Small dome 	•			•
Aligned Small dome L < 1m 	•	•	•	•
Large dome max. 120 kg 		•		•
Shed 	•	•	•	•
Outward opening and aligned shed 	•	•	•	•
Large outward opening and shed L > 1,6 m 		•	•	•
Vertical sunblinds 	•			
Jalousie windows 	•			
Skylights 	•	•		

POSSIBLE CONFIGURATIONS



- 1 Control unit 24 V - 230 V
- 2 Switch
- 3 Weather control unit
- 4 Smoke/heat detector
- 5 Rain detector
- 6 Anemometer



O2M

Electro-mechanical operator with double chain to automate windows and domes.
The ideal solution for outward and bottom hung-openings.



O2M is flexible, powerful and reliable. These features make it unique in the market of chain controlled electro-mechanical operators for windows.

The special fixing device enables the installer to adjust easily the position of the operator on the frame.

A greater than average thrust force in this category and the double chain enable O2M to operate very heavy windows.

Dedicated software is used to reset the O2M closing point automatically every 50 opening and closing operations. This innovative solution enables O2M to maintain very high performances as regards of temperature and sound insulation.

The highest protection level in its category, **IP54**, guarantee of good functioning even for applications exposed to the most extreme weather conditions.

Smaller dimensions and a compact shape make O2M easy to integrate with the window frame regardless of thickness or design.

TECHNICAL DATA

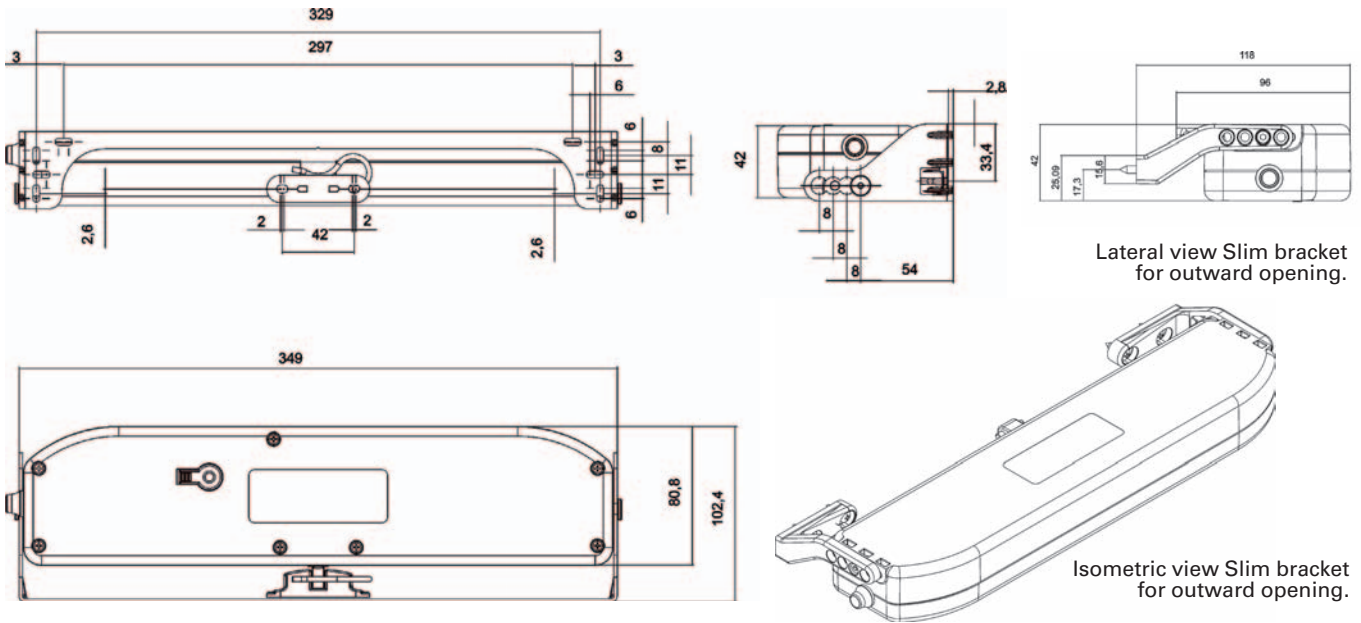
POWER SUPPLY	230 Vac - 24 Vdc - 50/60 Hz
ABSORBED POWER	50 W
ABSORBED CURRENT	0,2 A (for 230 Vac) - 2 A (for 24 Vdc)
MAX. THRUST FORCE	350 N (To stroke 150 mm)
FORCE APPLIED	350 N
ADJUSTABLE STROKE	150, 250, 380 mm + 4th step as required
OPERATING SPEED	24 mm/sec.
OPERATING TEMPERATURE	-5°C to +55°C
FRONT ADJUSTMENT	Max. 10 mm
PARALLEL CONNECTION	YES
OVERLOAD PROTECTION	100° C (only 230 V versions)
DIMENSIONS	(LxHxP) 340x40x80 mm
PROTECTION CLASS	IP54





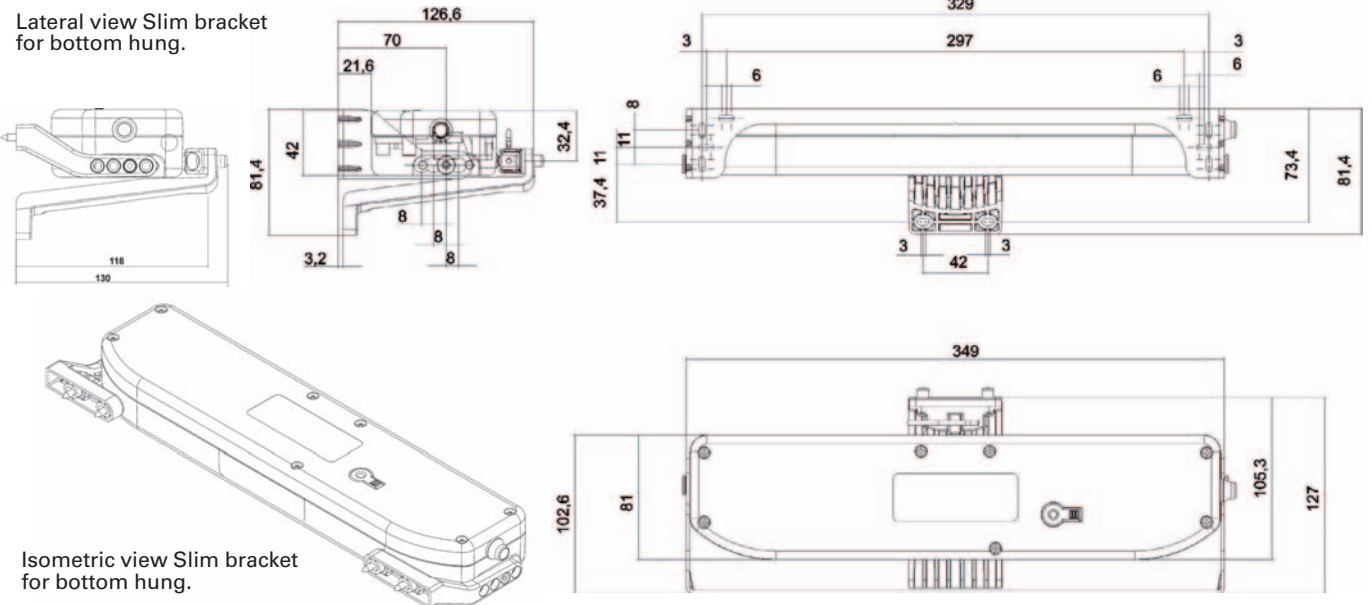
O2M



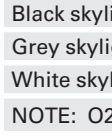
O2M DIMENSIONS - OUTWARD OPENING



O2M DIMENSIONS - BOTTOM HUNG OPENING

Lateral view Slim bracket for bottom hung.



DESCRIPTION	Max. stroke mm	Power supply	CODE	EURO
O2M Black (with outward and bottom hung opening)	380	230 Vca	43493/001	125,00
O2M Grey (with outward and bottom hung opening)	380	230 Vca	43493/002	125,00
O2M White (with outward and bottom hung opening)	380	230 Vca	43493/003	129,00
O2M Black (with outward and bottom hung opening)	380	24 Vdc	43492/001	145,50
O2M Grey (with outward and bottom hung opening)	380	24 Vdc	43492/002	145,50
O2M White (with outward and bottom hung opening)	380	24 Vdc	43492/003	151,50
Black slim bracket (pack of 5 pair)			43493/050	18,00
 Black skylight bracket			43493/051	9,50
 Grey skylight bracket			43493/052	9,50
 White skylight bracket			43493/053	9,50
NOTE: O2M series is complete with outward and bottom hung opening accessories.				



APRICOLOR VARIA

Chain operators for bottom hung and outward opening windows.



VARIA

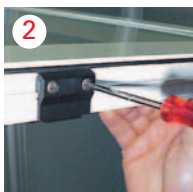


VARIA T

INSTALLING THE OPERATOR SUPPORT ON THE COUNTER-FRAME



INSTALLING THE CHAIN MOUNTING ON THE MOBILE WING



INSTALLING THE APRICOLOR VARIA OPERATOR ON THE COUNTER-FRAME



Exclusive quick-fit system to secure the operator to the window.

Compatible with a vast range of profiles from the R and G.A.C.S. series.

Apricolor VARIA is an electro-mechanical chain operator with internal nylon magazine.

It is suitable for bottom hung and outward opening windows, and features an adjustable stroke from 90 to 400 mm 230 V and 24 V operation.

Can be connected in parallel.

The chain is rust-proof thanks to the Dacro-met coating.

Apricolor VARIA T is designed for twin-mounting on single windows with a width greater than 1600 mm.

Apricolor VARIA T can be specially connected to share overload protection between two operators connected in parallel.

If one operator jams, the other stops automatically to avoid twisting the window.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 24 Vdc
ABSORBED POWER	150 W - 40 W
ABSORBED CURRENT	0.8 Aac - 1.8 Adc
FREQUENCY	50 Hz
MAX. THRUST FORCE	150 N
FORCE APPLIED	300 N
ADJUSTABLE STROKE	From 90 to 400 mm
OPERATING SPEED	40 mm/sec.
FRONT ADJUSTMENT	Max. 10 mm
PARALLEL CONNECTION	YES
OVERLOAD PROTECTION	100° C (only 230 V versions)
CAPACITOR	4 µ F
RELAY INCORPORATED	YES
WARNING LIGHT	YES
PULL - OUT TERMINAL BOARD	YES
PROTECTION CLASS	IP20

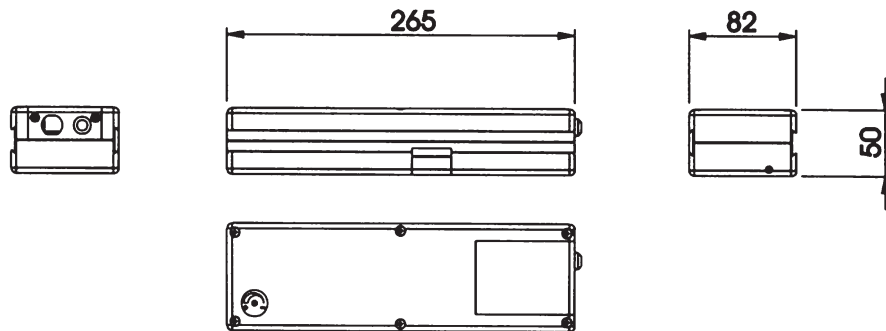
NOTE: The installation of Varia does not exclude the application of the safety arms, which must always be installed on the windows.





APRICOLOR VARIA

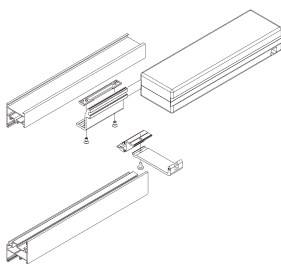
OPERATOR DIMENSIONS



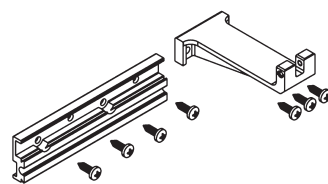
DESCRIPTION	Power supply	Notes	CODE	EURO
APRICOLOR VARIA Black 230 V	230 Vac	Combine with Kit Varia (quick-fit) or Screw Kit (conventional fitting)	43503/003	107,50
APRICOLOR VARIA Black 24 V	24 Vdc	Screw Kit (conventional fitting included)	43502/001	111,50
APRICOLOR VARIA Gray 230 V	230 Vac	Combine with Kit Varia (quick-fit) or Screw Kit (conventional fitting)	43503/005	103,00
APRICOLOR VARIA Gray 24 V	24 Vdc	Screw Kit (conventional fitting included)	43502/003	111,50
APRICOLOR VARIA T Black 230 V (for use with another Varia T, window >1600 mm)	230 Vac	Combine with Kit Varia (quick-fit) or Screw Kit (conventional fitting)	43503/006	119,50
APRICOLOR VARIA T Gray 230 V (for use with another Varia T, window >1600 mm)	230 Vac	Combine with Kit Varia (quick-fit) or Screw Kit (conventional fitting)	43503/008	119,50
APRICOLOR VARIA White 230 V	230 Vac	Combine with Kit Varia (quick-fit) or Screw Kit (conventional fitting)	43503/004	113,50
APRICOLOR VARIA White 24 V	24 Vdc	Screw Kit (conventional fitting included)	43502/002	121,00
APRICOLOR VARIA White 230 V	230 Vac	Combine with Kit Varia (quick-fit) or Screw Kit (conventional fitting)	43503/007	126,00

KIT FOR BOTTOM HUNG OPENING

VARIA KIT QUICK-FIT SYSTEM

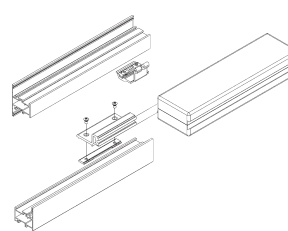


SCREW KIT TRADITIONAL FITTING SYSTEM

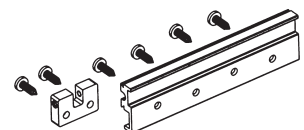


KIT FOR OUTWARD OPENING

VARIA KIT QUICK-FIT SYSTEM



SCREW KIT TRADITIONAL FITTING SYSTEM

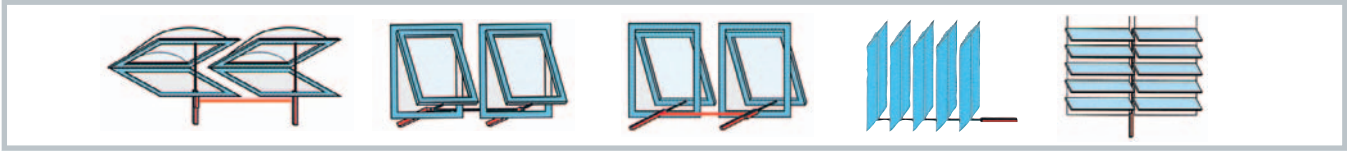


DESCRIPTION	Notes	CODE	EURO
SCREW KIT bottom hung window fitting system	Minim. pack of 10 pieces	43503/056	5,50 /pz
VARIA KIT quick fit system for outward opening windows, specially for G.A.C.S. series E9	Minim. pack of 10 pieces	43503/051	9,50 /pz
SCREW KIT outward opening window fitting system	Minim. pack of 10 pieces	43503/055	5,50 /pz
Extension Pin for chain connection	For wood/PVC frames Minim. pack of 10 pieces	43501/050	3,50 /pz



ST 450N

Rod operators for domes, vertical sunblinds, jalousie and outward opening windows.



ST 450N
Stroke 180



ST 450N
Stroke 300

Innovative magnetic end-of-stroke detection system: it further increases the product reliability in any working condition.

Product dimensions are designed to be as compact as possible to ensure an installation that blends with the rest of the building.

These operators combine two often mutually conflicting characteristics: silent operation and speed.

Can be connected in parallel thanks to the relay incorporated on the card.

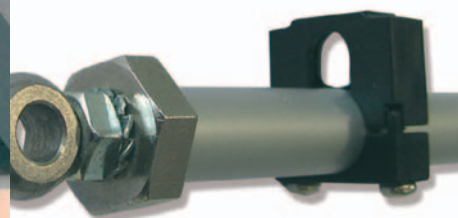
Electronic operators in aluminium casing with linear rod movement. 230 Vac operator with limit switch and overload protection. Max. stroke 300 mm. Available accessory: Kit for limit switch adjustment. Features a reed bulb limit switch system without mechanical devices in movement. Supports and brackets are supplied for the application required.

TECHNICAL DATA

POWER SUPPLY	230 Vac - 50/60 Hz
ABSORBED POWER	150 W
ABSORBED CURRENT	0,7 Aac
THRUST AND PULL FORCE	450 N
MAX. STROKE	180 - 300 mm
AUTOMATIC LIMIT SWITCH	YES
PARALLEL CONNECTION	YES
OVERLOAD PROTECTION	YES
CAPACITOR	1 for 5 μ F
RELAY INCORPORATED	YES
PROTECTION CLASS	IP55 (inside use)



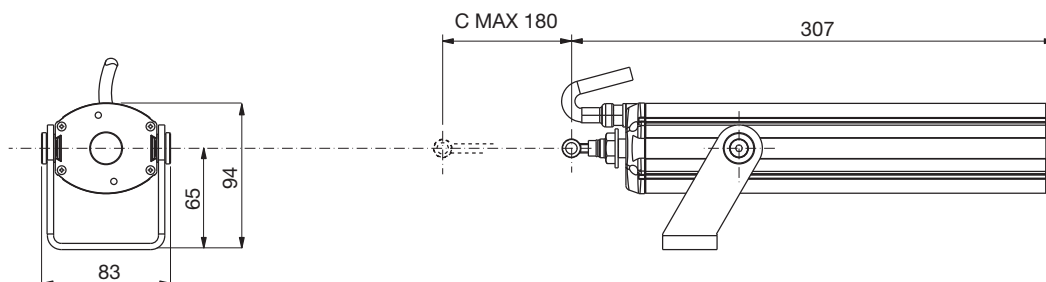
Kit for limit switches adjustment on request



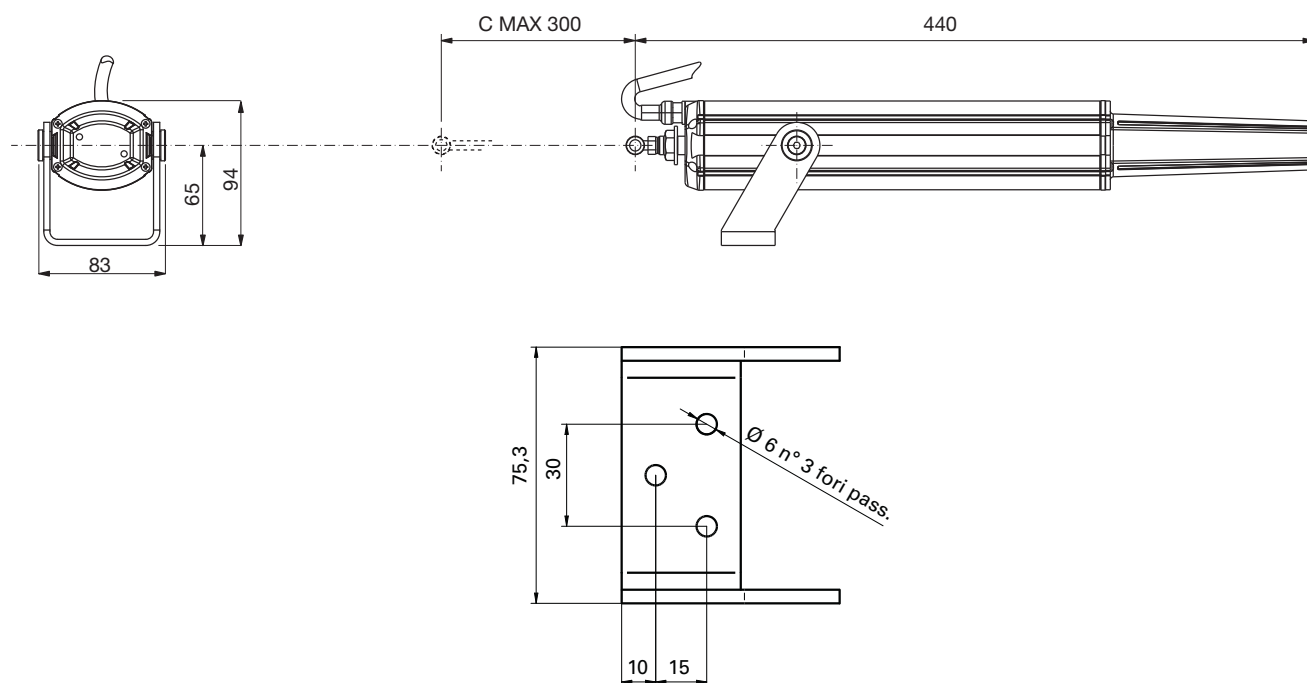


ST 450N

ST 450N DIMENSIONS with STROKE 180 mm



ST 450N DIMENSIONS with STROKE 300 mm

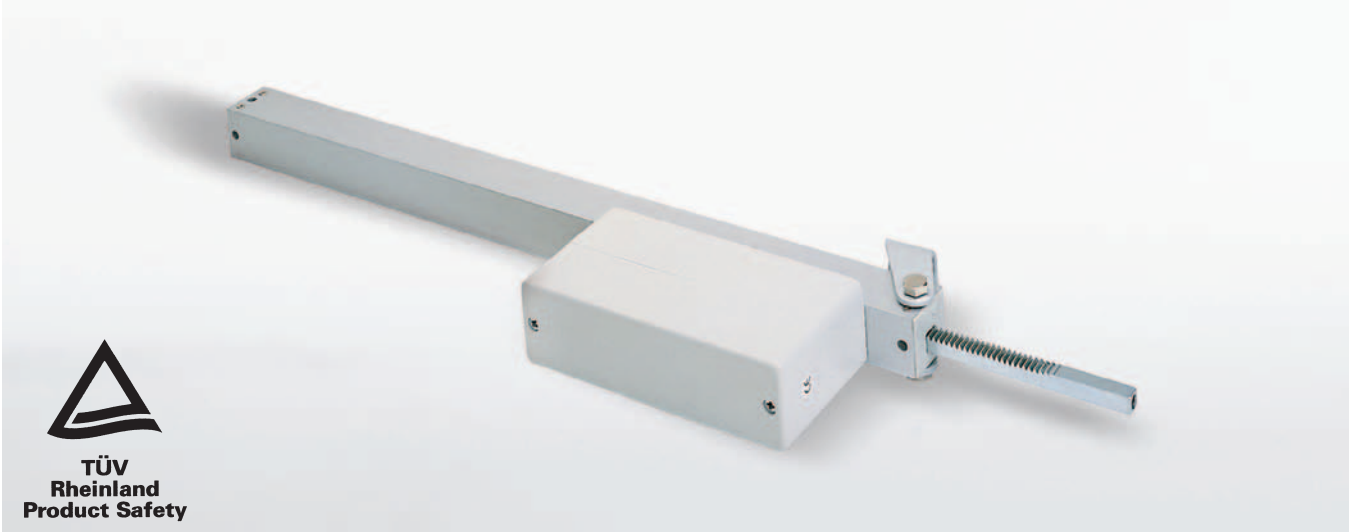
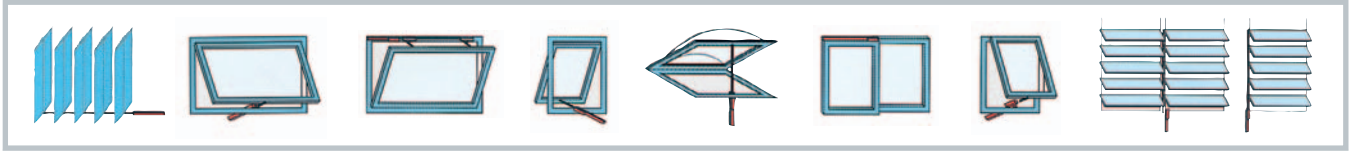


DESCRIPTION	Stroke mm	Power supply	CODE	EURO
ST 450N Complete with OUTWARD OPENING 180 mm fixing accessories	180	230 Vca	43545/004	117,50
ST 450N Complete with OUTWARD OPENING 300 mm fixing accessories	300	230 Vca	43545/003	117,50
ST 450N Complete with accessories for jalousie windows	180	230 Vca	43545/008	153,50
KIT for limit switch adjustment ST 450N			43545/050	16,50



APRILINEARE

Rack drive operators for bottom hung, outward opening, shed, skylight, domes, jalousie and sliding windows and vertical sunblinds.

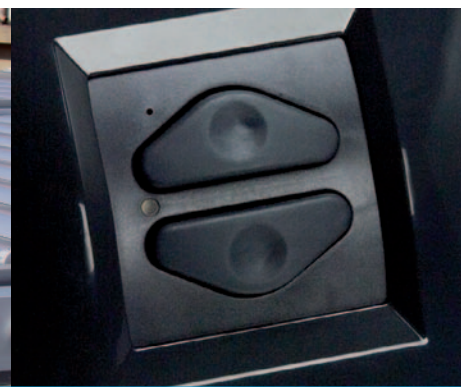


Aprilineare is an aluminium electric operator with rack drive linear movement. The device is fitted with an electronic limit switch, IP65 protection rating, anti-interference capacitor, anodized aluminium rod and galvanized steel frame mounting. It can also be connected in parallel. The rack is made of C43 galvanized steel and has a 10 x 10 square section. The motor box is made of two sealed pieces of impact-proof ABS.



Aprilineare is sturdy, safe and versatile, easy to install and maintenance free.

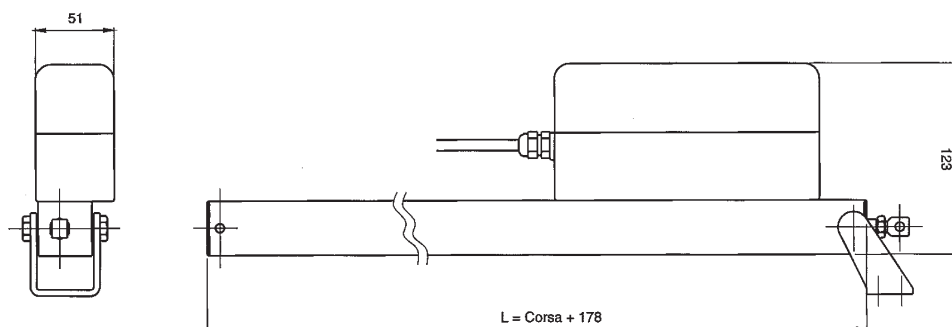
TECHNICAL DATA	APRILINEARE	SPEEDY Sliding Version
POWER SUPPLY	230 Vac - 24 Vdc	230 Vac - 24 Vdc
ABSORBED POWER	20 W	20 W
ABSORBED CURRENT	0,09 A in ac - 0,8 A in dc	0,09 A in ac - 0,8 A in dc
FREQUENCY	50 Hz	50 Hz
THRUST AND PULL FORCE	650 N	200 N
STANDARD STROKES	170, 230, 350, 550, 750 mm	Up to 1350 mm
PARALLEL CONNECTION	YES	YES
OPERATING SPEED	8 mm/sec.	30 mm/sec.
LIMIT SWITCH	Electronic	Electronic
QUALITY CERTIFICATION	TÜV	
PROTECTION CLASS	IP65	IP65





APRILINEARE





OPERATOR DIMENSIONS



DESCRIPTION - APRILINEARE SPEEDY	Stroke mm	Power supply	CODE	EURO
APRI SPEEDY 55 - OXAR	550	24 Vcc	43522/001	144,50
APRI SPEEDY 80 - OXAR	800	230 Vca	43512/006	239,00
APRI SPEEDY 85 - OXAR	850	230 Vca	43512/005	239,00
APRI SPEEDY 95 - OXAR	950	230 Vca	43512/014	222,50
APRI SPEEDY 100 - OXAR	1000	230 Vca	43512/015	222,50
APRI SPEEDY 115 - OXAR	1150	230 Vca	43512/016	226,00
APRI SPEEDY 120 - OXAR	1200	230 Vca	43512/017	233,00
APRI SPEEDY 125 - OXAR	1250	230 Vca	43512/018	235,00
APRI SPEEDY 135 - OXAR	1350	230 Vca	43512/019	244,50
APRI SPEEDY 140 - OXAR	1400	230 Vca	43512/007	261,00

DESCRIPTION - APRILINEARE	Stroke mm	Power supply	CODE	EURO
APRI 17 230	170	230 Vca	43510/006	164,00
APRI 23 230	230	230 Vca	43510/007	166,00
APRI 35 230	350	230 Vca	43510/008	168,00
APRI 55 230	550	230 Vca	43510/013	175,50
APRI 75 230	750	230 Vca	43510/015	181,50
APRI 17 24	170	24 Vcc	43520/018	137,00
APRI 23 24	230	24 Vcc	43520/006	138,50
APRI 35 24	350	24 Vcc	43520/007	141,50
APRI 55 24	550	24 Vcc	43520/008	148,50
APRI 75 24	750	24 Vcc	43520/011	153,50

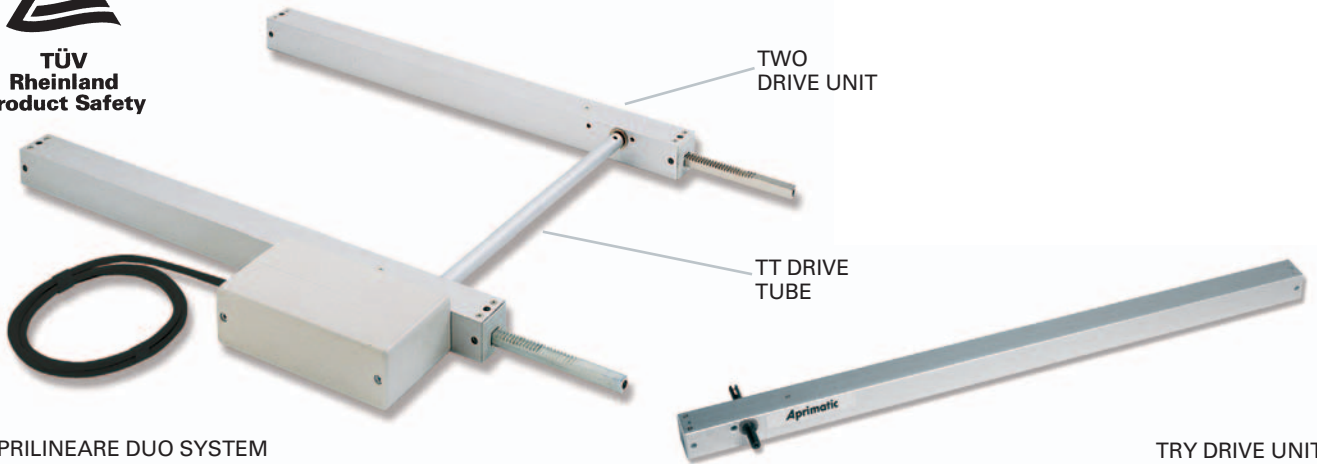
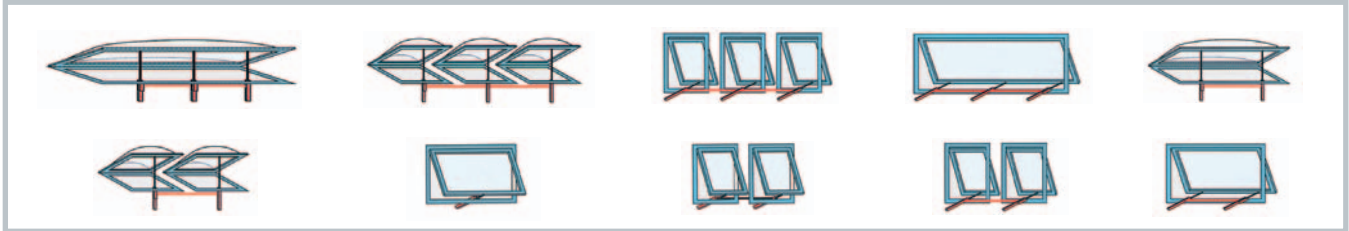
DESCRIPTION - APRILINEARE FOR VERTICAL SUNBLINDS	Stroke mm	Power supply	CODE	EURO
APRI 17 230 - INOX-OXAR	170	230 Vca	43510/703	174,50
APRI 23 230 - INOX-OXAR	230	230 Vca	43510/705	173,50

DESCRIPTION	Notes	CODE	EURO	
	Support Bracket in silver anodized aluminium for special outward opening applications	43580/064	6,50	
	350 mm Rear Bracket for domes, in silver anodized aluminium for fixing to the rear of the operator	43580/065	25,00	
	Second Bracket fo sliding windows in silver anodized aluminium	For use with Speedy	43580/067	4,50
	Adjustable "CK" support in galvanized sheet steel	43580/068	20,00	



APRILINEARE DUO-TRY SYSTEM

Rack drive operators (two or three thrust points)
for bottom hung, outward opening, shed,
skylight, and domes windows.



APRILINEARE DUO SYSTEM

TRY DRIVE UNIT

Duo System and Tri System are ideal for use with large domed and outward opening windows and large skylight automation systems. They are valid alternatives in applications requiring two or three thrust points.

Perfect balance and therefore balanced movement are obtained, even with large frames, by exploiting the power and reliability of a motor unit combined with one or two more thrust units.

Electric anodized aluminium operators with rack drive linear movement, fitted with an electronic limit switch, IP55 protection rating, anodized aluminium rod and galvanized steel frame mounting. Can also be connected in parallel. The rack is made of C43 galvanized steel and has a 10 x 10 square section.

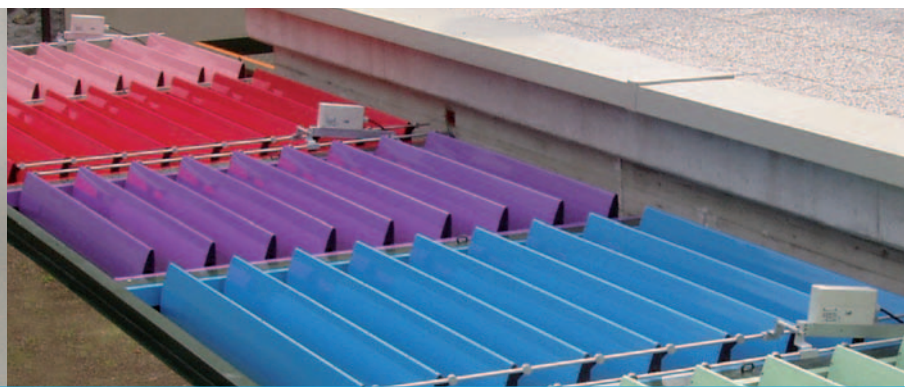
The box is made of two pieces of sealed impact-proof ABS. The operators are fitted with a cable connected inside the operator.

Can be used in conjunction with the DUO and TRY drive units made of anodized aluminium and consisting of: a C43 galvanized steel rack with 10 x 10 square section complete with anodized aluminium bracket and galvanized steel frame mounting.

The two drive tubes for connection to the twin thrust points are made of anodized aluminium and are supplied complete with fixing screws.

TECHNICAL DATA

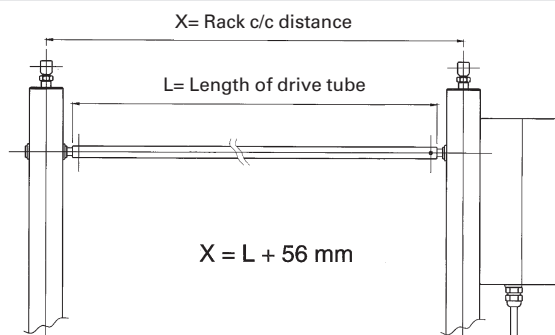
POWER SUPPLY	230 Vac - 50 Hz (duo system) 24 Vdc - 50 Hz (try system)
ABSORBED POWER	20 W
ABSORBED CURRENT	0,09 A (duo system) 0,8 A (try system)
THRUST AND PULL FORCE	600 N
OPERATING SPEED	8 mm/sec.
STANDARD STROKES	170, 230, 350, 550, 750 mm
LIMIT SWITCH	Electronic
STANDARD LENGTHS OF DRIVE TUBES	844, 1244, 1544, 1844, 1944 mm
STANDARD CENTRE TO CENTRE BETWEEN OPERATORS	900, 1300, 1600, 1900, 2000 mm
COLOURS	Silver, Black
QUALITY CERTIFICATION	TÜV
OPERATING TEMPERATURE	-5° +40° C
PROTECTION CLASS	IP65








APRILINEARE DUO-TRY SYSTEM

OPERATOR DIMENSIONS



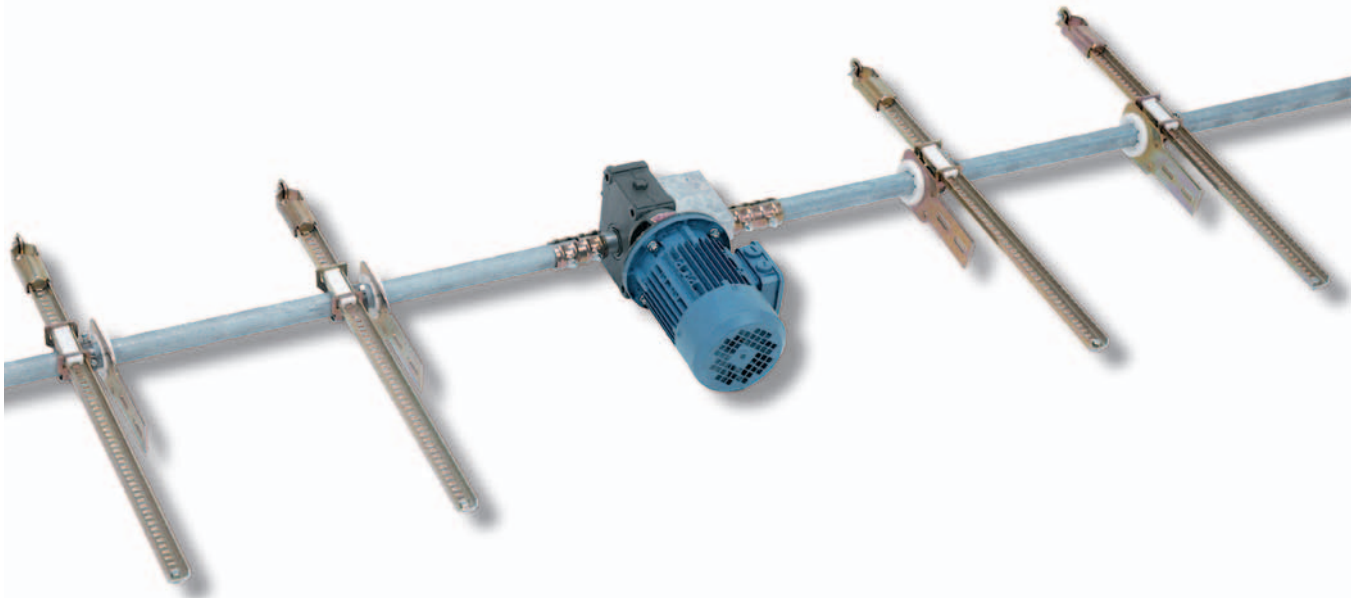
DESCRIPTION	Stroke mm	Power supply	Notes	CODE	EURO
APRI DUO 23 230	230	230 Vac		43515/009	172,50
APRI DUO 35 230	350	230 Vac		43515/010	176,50
APRI DUO 55 230	550	230 Vac		43515/012	181,50
APRI DUO 75 230	750	230 Vac		43515/014	191,00
APRI DUO 23 24	230	24 Vdc		43525/004	144,50
APRI DUO 35 24	350	24 Vdc		43525/005	148,50
APRI DUO 55 24	550	24 Vdc		43525/007	153,50
APRI DUO 75 24	750	24 Vdc		43525/009	164,00
Two drive unit 17	170		For use with 1 ApriDuo + 1 T T	43527/060	48,50
Two drive unit 23	230		For use with 1 ApriDuo + 1 T T	43527/061	51,50
Two drive unit 35	350		For use with 1 ApriDuo + 1 T T	43527/062	54,00
Two drive unit 55	550		For use with 1 ApriDuo + 1 T T	43527/063	59,00
Two drive unit 75	750		For use with 1 ApriDuo + 1 T T	43527/064	62,00
Tri drive unit TRY 23	230		For use with 1 ApriDuo + 2 T T + 1 Two DU	43529/051	70,50
Tri drive unit TRY 35	350		For use with 1 ApriDuo + 2 T T + 1 Two DU	43529/052	70,50
Tri drive unit TRY 55	550		For use with 1 ApriDuo + 2 T T + 1 Two DU	43529/053	76,50
Tri drive unit TRY 75	750		For use with 1 ApriDuo + 2 T T + 1 Two DU	43529/054	84,50
T T 90 (tube 900 mm)			Tube length = rack centre to centre minus 56 mm	43531/050	20,00
T T 130 (tube 1300 mm)			Tube length = rack centre to centre minus 56 mm	43531/051	23,00
T T 160 (tube 1600 mm)			Tube length = rack centre to centre minus 56 mm	43531/052	24,00
T T 190 (tube 1900 mm)			Tube length = rack centre to centre minus 56 mm	43531/053	26,00
T T 200 (tube 2000 mm)			Tube length = rack centre to centre minus 56 mm	43531/054	27,00
APRI DUO 23 230 INOX	230	230 Vac		43515/705	180,50
APRI DUO 35 230 INOX	350	230 Vac		43515/700	184,50
APRI DUO 55 230 INOX	550	230 Vac		43515/701	192,00
APRI DUO 75 230 INOX	750	230 Vac		43515/702	205,00
APRI DUO 23 24 INOX	230	24 Vdc		43525/703	153,50
Two drive unit 17 INOX	170		For use with 1 ApriDuo + 1 T T	43527/755	56,00
Two drive unit 23 INOX	230		For use with 1 ApriDuo + 1 T T	43527/756	59,00
Two drive unit 35 INOX	350		For use with 1 ApriDuo + 1 T T	43527/757	67,00
Two drive unit 55 INOX	550		For use with 1 ApriDuo + 1 T T	43527/758	74,50
Two drive unit 75 INOX	750		For use with 1 ApriDuo + 1 T T	43527/759	81,50

DESCRIPTION		CODE	EURO
	Support Bracket in silver anodized aluminium for special outward opening applications	43580/064	6,50
	350 mm Rear Bracket for domes in silver anodized aluminium for fixing to the rear of the operator	43580/065	25,00
	Adjustable "CK" support in galvanized sheet steel	43580/068	20,00



520/600RF - 520/700RF

Remote automated systems
for windows and domes.



The new 520/600RF and 520/700RF systems have been designed to solve the problems represented by remotely opening and closing transom or top-hinged windows, whether installed singly or in rows, also in long rows of windows, skylights, in factory farms or greenhouses.

The windows are opened and closed by a series of racks running on a sprocket, driven by a shaft, which in turn is turned by a reducer. The racks have brass sprockets fixed on the rotary shaft with special press-fit bolts.

The rotary movement is transmitted from the reducer to the shaft, and from each element to the next of the shaft, through keyed joints bolted together.

The spring compensator on the end of the rack may be a pulling or pushing type depending on which way the windows close, and guarantees homogeneous pressure on the window frames.

The rotary shaft support brackets run on ball bearings and have adjustment slots. They can also be fitted with counter-brackets. Available for shafts with diameters of 27-33-42 mm.

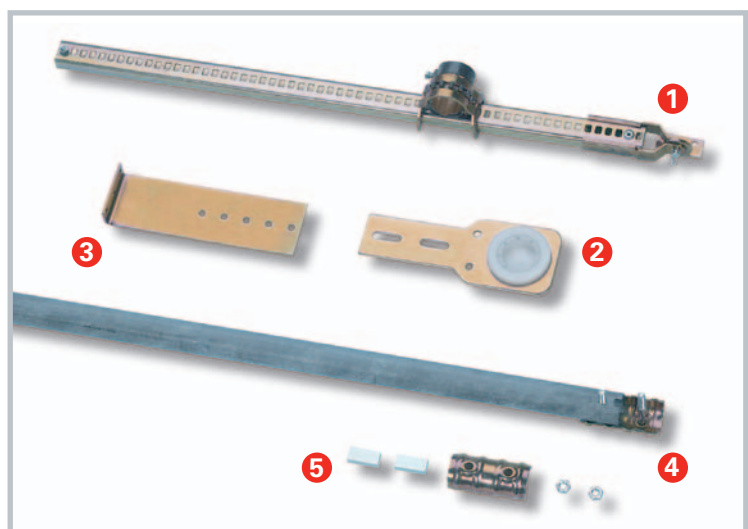
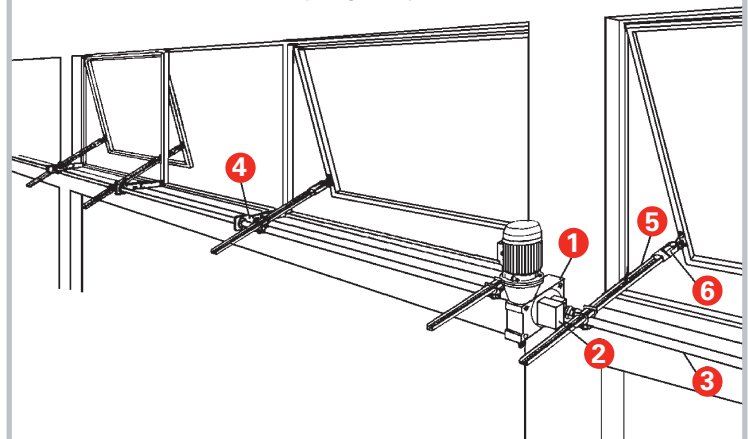
The racks have brass sprockets, which are fixed to the rotary shaft with the relevant press-fit bolts.

The square, to screw onto the window, is held on the rack with a practical spring-loaded pin.

- 1 Rack for top-hinged windows or transom windows:
 - Spring compensator (pull or push)
 - Sprocket for rotary shaft (Ø 27-33-42 mm)
- 2 Standard bracket running on ball bearings for rotary shaft support (Ø 27-33-42 mm)
- 3 Counter-bracket (length 140-210 mm)
- 4 Galvanised rotary shaft (Ø 27-33-42 mm)
- 5 Keyed joint for rotary shaft (Ø 27-33-42 mm)

SYSTEM COMPONENTS:

- 1- Gearmotor
- 2- Limit switch system
- 3- Rotary shaft
- 4- Shaft support bracket
- 5- Rack
- 6- Window mount with spring compensator

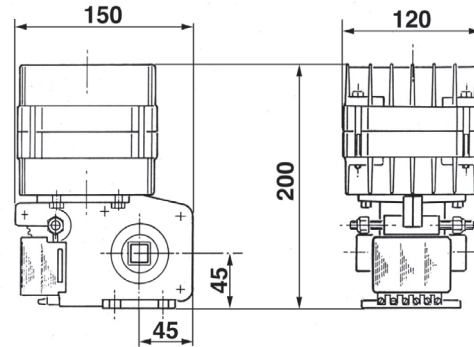




520/600RF - 520/700RF

APRICOP MOTOR

Electro-reducer with single-phase motor coupled to a self-locking worm-screw reducer. With limit switch.



DIMENSION

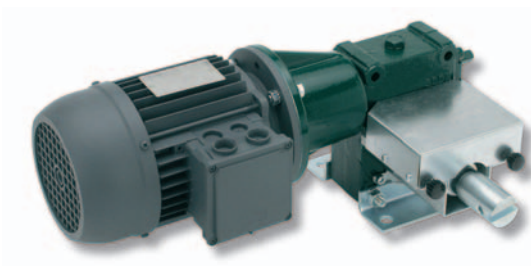
520 SERIES MOTORS

The 520 series motors have a three-phase motor coupled to a steel self-locking worm-screw reducer with gears cut from a full solid bronze, running in a cast iron self-lubricated casing.

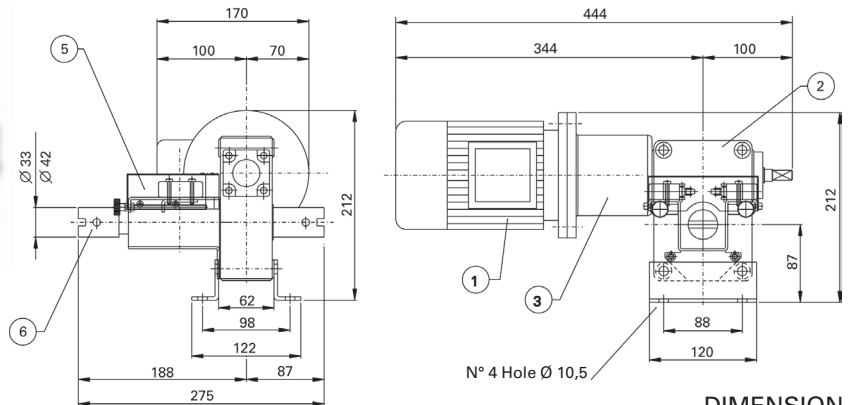
The slow shaft has two protuberances with holes and a slot on both ends, so the reducer can be keyed on in the central position or at the end.

The rotary limit switches are fast-acting and adjustable, and are fitted to one of the two hubs of the slow shaft, with an aluminium protective cover.

520/600RF MOTOR

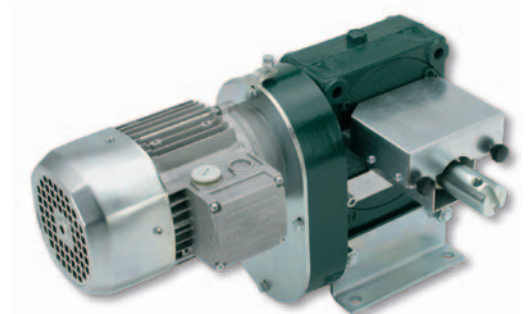


- 1- Motor
- 2- Reducer
- 3- Epicyclic reducer
- 5- Rotary limit switch
- 6- Jointed end

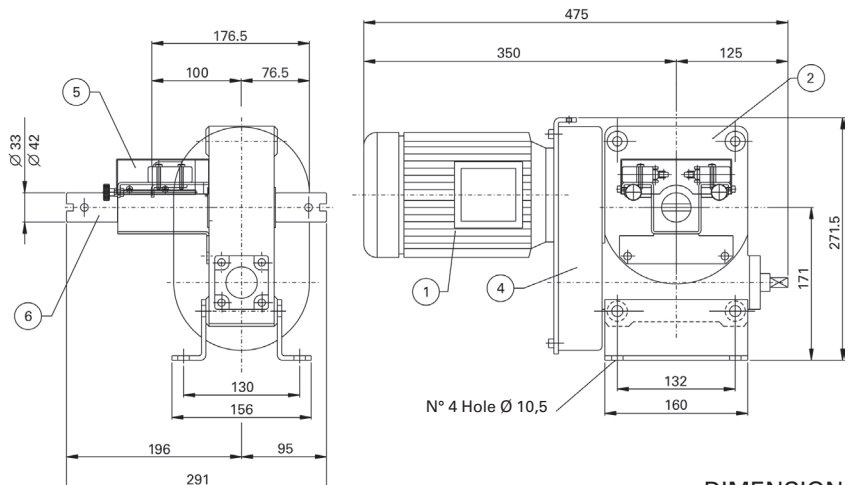


DIMENSION

520/700RF MOTOR



- 1- Motor
- 2- Reducer
- 4- Pulley reducer
- 5- Rotary limit switch
- 6- Jointed end



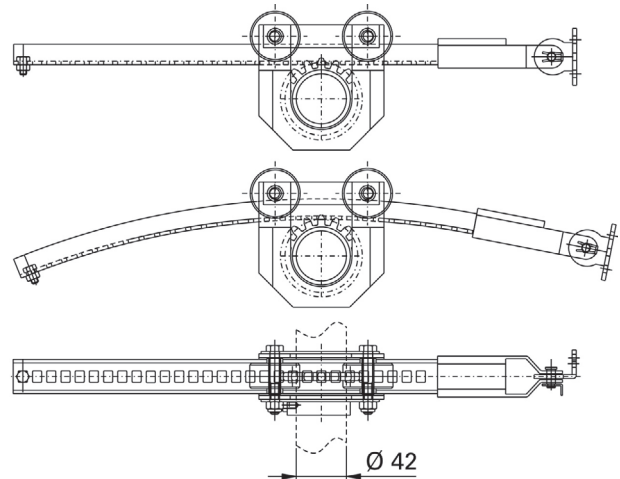
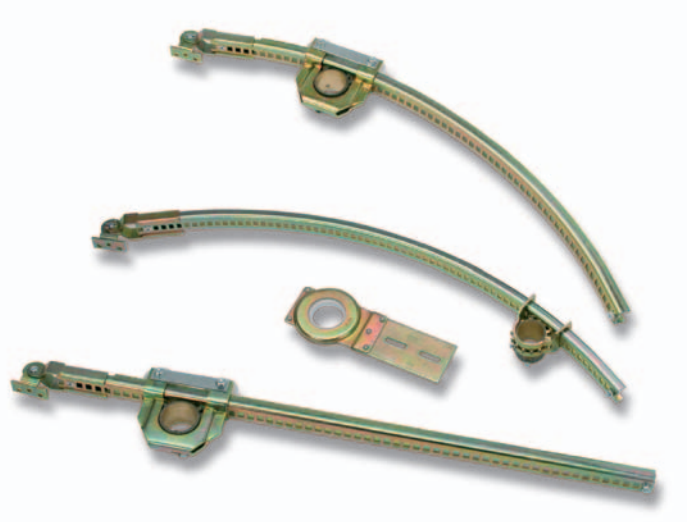
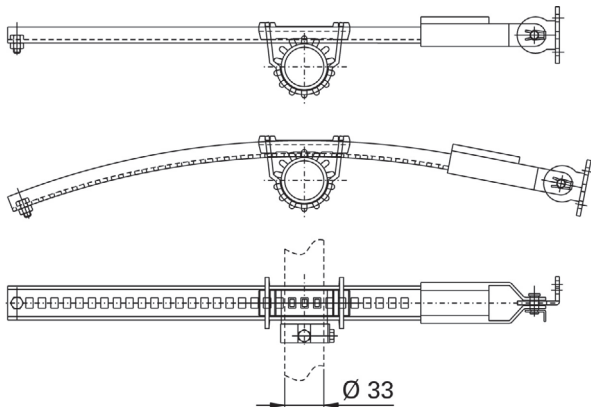
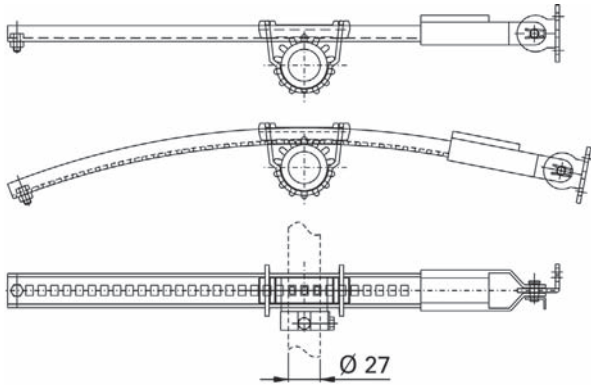
DIMENSION



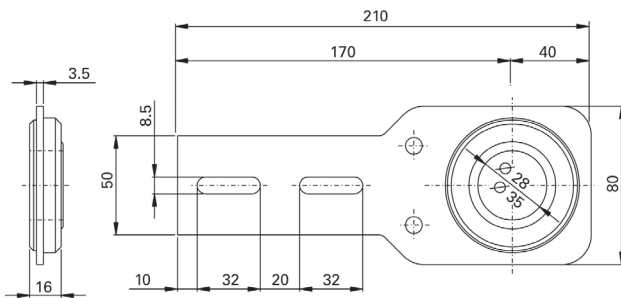
520/600RF - 520/700RF

RACK:

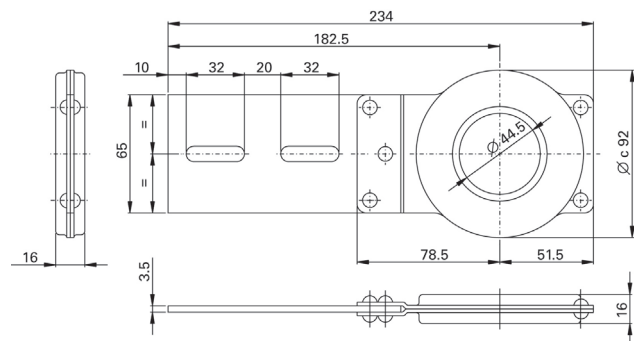
Curved racks are also available to reduce the projection in the case of obstacles or low windows.



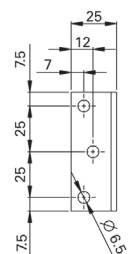
BRACKET AND COUNTER-BRACKET SPECIFICATIONS



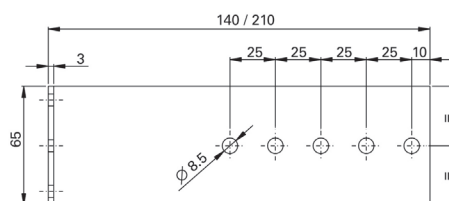
Bracket \varnothing 27-37 mm



Bracket \varnothing 42 mm



Counter-bracket 140/210 mm



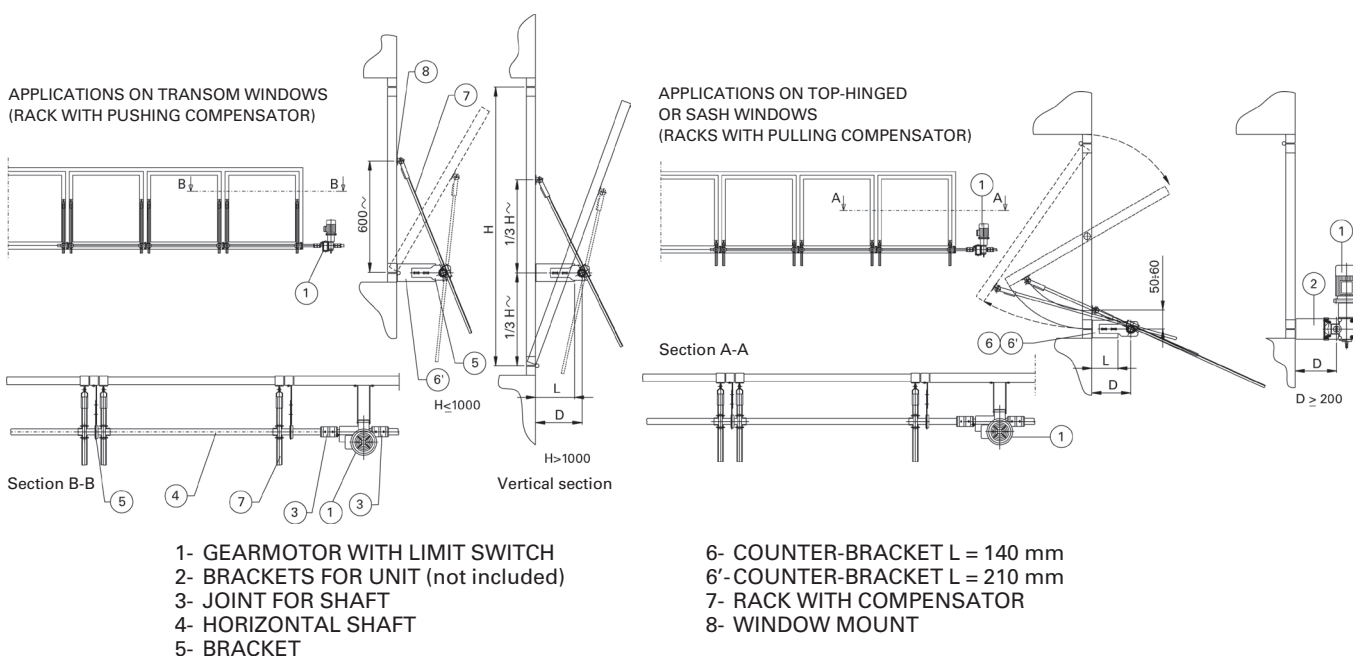


520/600RF - 520/700RF

MOTOR SPECIFICATIONS

SERIE R= WITHOUT ROTARY LIMIT SWITCH RF= WITH ROTARY LIMIT SWITCH	Kw (CV)	POLI (Size)	MOTOR TENSION	SHAFT Ø mm	TORQUE N (HP 1')	ADJUSTABLE TURNS AT LIMIT SWITCH		RACK MAX. THRUST N	WINDOW EXTENS. m	PROTEC. CLASS IP
						Min.	Max.			
APRICOP	0,52 (0,70)	4	Single-phase	33	5 (15)	1	12	1450	25	30
520/600R 520/600RF	0,18 (0,25)	6 (63)	Three-phase	33	115 (5,8)	1	11	4200	50	55
520/600R 520/600RF	0,18 (0,25)	6 (63)	Three-phase	42	115 (5,8)	1	11	3000	50	55
520/700R 520/700RF	0,37 (0,5)	6 (71)	Three-phase	33	250 (7)	1	11	11760	100	55
520/700R 520/700RF	0,37 (0,5)	6 (71)	Three-phase	42	250 (7)	1	11	9400	120	55

DIAGRAMS OF APPLICATIONS WITH TRANSOM WINDOWS AND TOP-HINGED/SASH WINDOWS



SPECIFICATIONS OF RACKS AND BRACKETS

COMPENSATOR		Ø SPROCKET	SECTION mm	RACK		BRACKET	
PULL CLOSED	PUSH CLOSED			LENGTH mm	CAPACITY kg	CAPACITY kg*	
Mod. 377	Mod. 387	27	30 x 14	800 / 1200	40	50	
Mod. 379	Mod. 389	33	30 x 14	800 / 1200	50	50	
Mod. 380	Mod. 390	42	30 x 18	1000 / 1200	70	60	

* Maximum capacity at 18°C

NOTE: The number of racks to mount for each single window must allow for the dimensions and rigidity of the window, as well as the necessary thrust.

NOTE: Various lengths of racks are available on request.

Thrust necessary for operating	Top-hinged windows	Sash windows	Transom windows
	From 1/3 to 1/2 weight of window	Roughly 1/4 weight of window	From 1/3 to 1/2 weight of window



520/600RF - 520/700RF

DESCRIPTION	CODE	EURO
APRICOP single-phase motor (*) Ø 33 mm with limit switch	43550/001	254,50
(*) To be used with adaptor for round Apricop tube	43550/051	20,00
Three-phase Ø 33 mm 520/600RF motor (with limit switch)	43562/002	846,50
Three-phase Ø 33 mm 520/600R motor (no limit switch)	43562/001	630,50
Three-phase Ø 42 mm 520/600RF motor (with limit switch)	43562/006	845,50
Three-phase Ø 42 mm 520/600R motor (no limit switch)	43562/005	630,50
Three-phase Ø 33 mm 520/700RF motor (with limit switch)	43562/004	976,50
Three-phase Ø 33 mm 520/700R motor (no limit switch)	43562/003	760,00
Three-phase Ø 42 mm 520/700RF motor (with limit switch)	43562/008	976,50
Three-phase Ø 42 mm 520/700R motor (no limit switch)	43562/007	760,00

RF: with rotary limit switch - R: without rotary limit switch

NOTE: For applications with over 20m of windows, the unit must be installed in the centre or off-centre, to limit the elastic deformation of the shaft.

APPLICATION ON TOP-HINGED OR SASH WINDOWS (Racks with pull compensator)	CODE	EURO
Straight version - Mod. 377 - Rack Ø 27 mm - L = 800 mm	43563/001	25,00
Straight version - Mod. 377 - Rack Ø 27 mm - L = 1000 mm	43563/002	26,00
Straight version - Mod. 377 - Rack Ø 27 mm - L = 1200 mm	43563/003	27,00
Straight version - Mod. 377 - Rack Ø 27 mm - L = 1400 mm	43563/004	28,00
Curved version - Mod. 377 - Rack Ø 27 mm - L = 800 mm	43563/021	26,00
Curved version - Mod. 377 - Rack Ø 27 mm - L = 1000 mm	43563/022	27,00
Curved version - Mod. 377 - Rack Ø 27 mm - L = 1200 mm	43563/023	28,00
Curved version - Mod. 377 - Rack Ø 27 mm - L = 1400 mm	43563/024	29,00
Straight version - Mod. 379 - Rack Ø 33 mm - L = 800 mm	43563/005	22,00
Straight version - Mod. 379 - Rack Ø 33 mm - L = 1000 mm	43563/006	23,00
Straight version - Mod. 379 - Rack Ø 33 mm - L = 1200 mm	43563/007	25,00
Straight version - Mod. 379 - Rack Ø 33 mm - L = 1400 mm	43563/008	25,00
Curved version - Mod. 379 - Rack Ø 33 mm - L = 800 mm	43563/025	23,00
Curved version - Mod. 379 - Rack Ø 33 mm - L = 1000 mm	43563/026	24,00
Curved version - Mod. 379 - Rack Ø 33 mm - L = 1200 mm	43563/027	25,00
Curved version - Mod. 379 - Rack Ø 33 mm - L = 1400 mm	43563/028	26,00
Straight version - Mod. 380 - Rack Ø 42 mm - L = 800 mm	43563/009	44,50
Straight version - Mod. 380 - Rack Ø 42 mm - L = 1000 mm	43563/010	45,50
Straight version - Mod. 380 - Rack Ø 42 mm - L = 1200 mm	43563/011	46,50
Straight version - Mod. 380 - Rack Ø 42 mm - L = 1400 mm	43563/012	47,50
Curved version - Mod. 380 - Rack Ø 42 mm - L = 800 mm	43563/029	45,50
Curved version - Mod. 380 - Rack Ø 42 mm - L = 1000 mm	43563/030	46,50
Curved version - Mod. 380 - Rack Ø 42 mm - L = 1200 mm	43563/031	47,50
Curved version - Mod. 380 - Rack Ø 42 mm - L = 1400 mm	43563/032	48,50
Complementary fitting, pin and rack spring package.	43562/052	2,60

NOTE: A complementary fitting, pin and rack spring package must be ordered for each rack. Code 43562/052.

NOTE: Always indicate the radius required for curved racks (minimum radius 750 mm).
Oversize racks are available on request (max. length 2200 mm).
Delivery - 5 weeks from date of order.
Contact customer service for an estimate and availability.



520/600RF - 520/700RF

APPLICATION ON TRANSOM WINDOWS (Racks with push compensator)	CODE	EURO
Straight version - Mod. 387 - Rack Ø 27 mm - L = 800 mm	43564/001	26,00
Straight version - Mod. 387 - Rack Ø 27 mm - L = 1000 mm	43564/002	27,00
Straight version - Mod. 387 - Rack Ø 27 mm - L = 1200 mm	43564/003	28,00
Straight version - Mod. 387 - Rack Ø 27 mm - L = 1400 mm	43564/004	29,00
Curved version - Mod. 387 - Rack Ø 27 mm - L = 800 mm	43564/021	27,00
Curved version - Mod. 387 - Rack Ø 27 mm - L = 1000 mm	43564/022	28,00
Curved version - Mod. 387 - Rack Ø 27 mm - L = 1200 mm	43564/023	29,00
Curved version - Mod. 387 - Rack Ø 27 mm - L = 1400 mm	43564/024	30,00
Straight version - Mod. 389 - Rack Ø 33 mm - L = 800 mm	43564/005	22,00
Straight version - Mod. 389 - Rack Ø 33 mm - L = 1000 mm	43564/006	23,00
Straight version - Mod. 389 - Rack Ø 33 mm - L = 1200 mm	43564/007	24,00
Straight version - Mod. 389 - Rack Ø 33 mm - L = 1400 mm	43564/008	25,00
Curved version - Mod. 389 - Rack Ø 33 mm - L = 800 mm	43564/025	23,00
Curved version - Mod. 389 - Rack Ø 33 mm - L = 1000 mm	43564/026	24,00
Curved version - Mod. 389 - Rack Ø 33 mm - L = 1200 mm	43564/027	25,00
Curved version - Mod. 389 - Rack Ø 33 mm - L = 1400 mm	43564/028	26,00
Straight version - Mod. 390 - Rack Ø 42 mm - L = 800 mm	43564/009	44,50
Straight version - Mod. 390 - Rack Ø 42 mm - L = 1000 mm	43564/010	45,50
Straight version - Mod. 390 - Rack Ø 42 mm - L = 1200 mm	43564/011	46,50
Straight version - Mod. 390 - Rack Ø 42 mm - L = 1400 mm	43564/012	47,50
Curved version - Mod. 390 - Rack Ø 42 mm - L = 800 mm	43564/029	45,50
Curved version - Mod. 390 - Rack Ø 42 mm - L = 1000 mm	43564/030	46,50
Curved version - Mod. 390 - Rack Ø 42 mm - L = 1200 mm	43564/031	47,50
Curved version - Mod. 390 - Rack Ø 42 mm mm - L = 1400 mm	43564/032	48,50
Complementary fitting, pin and rack spring package.	43562/052	2,60

NOTE: A complementary fitting, pin and rack spring package must be ordered for each rack. Code 43562/052.

NOTE: Always indicate the radius required for curved racks (minimum radius 750 mm).
Oversize racks are available on request (max. length 2200 mm).
Delivery - 5 weeks from date of order.
Contact customer service for an estimate and availability.

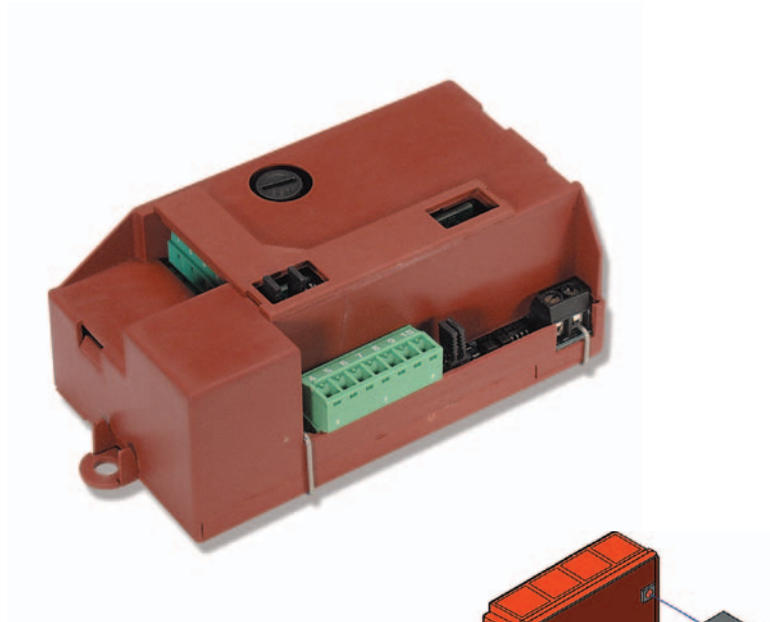
DESCRIPTION OF ACCESSORIES FOR RACKS	CODE	EURO
Standard bracket for Ø 27 mm	43562/055	8,30
Standard bracket for Ø 33 mm	43562/054	8,30
Standard bracket for Ø 42 mm	43562/057	11,50
Counter-bracket L = 140 mm	43562/058	4,20
Counter-bracket L = 210 mm	43562/059	5,20

DESCRIPTION OF ACCESSORIES FOR TUBE	CODE	EURO
Steel joint for Ø 33 mm shaft	43562/062	4,20
Steel joint for Ø 42 mm shaft	43562/061	5,20
Key for Ø 33 mm shaft	43562/060	1,00
Key for Ø 42 mm shaft	43562/063	1,00



ADI MODULES - MOTOR CONTROL

Radio controlled equipment for automating doors and windows, rolling shutters, lights, fans, solenoids and small domestic loads powered at 230 Vac.



Masonry box for 4 modules

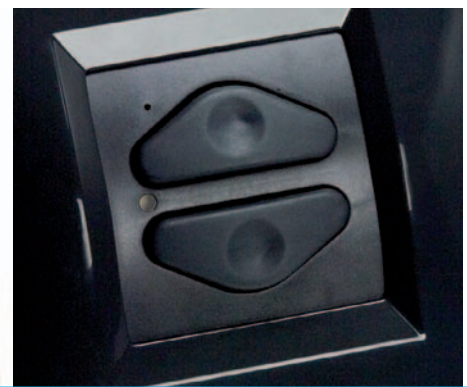
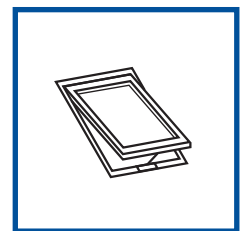
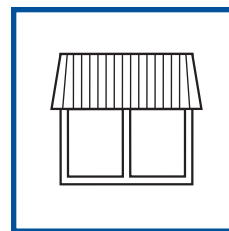
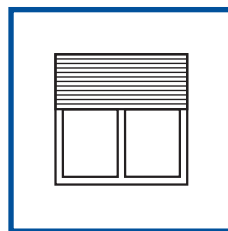
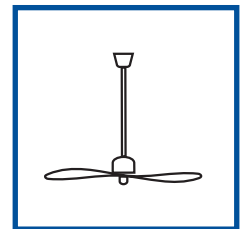
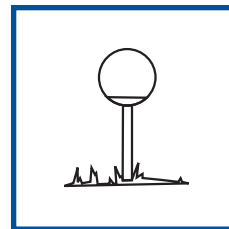
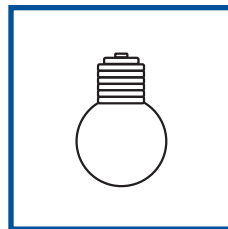
Economical solutions for most common automation residential and commercial requirements (homes, offices, shops, hotels, etc.).

Interior modules can be installed in 4 module masonry boxes using the fixing fins provided.

Suitable for all levels of complexity from individual automations to coordinated systems.

Facilitates installation and start-up built-in antenna.

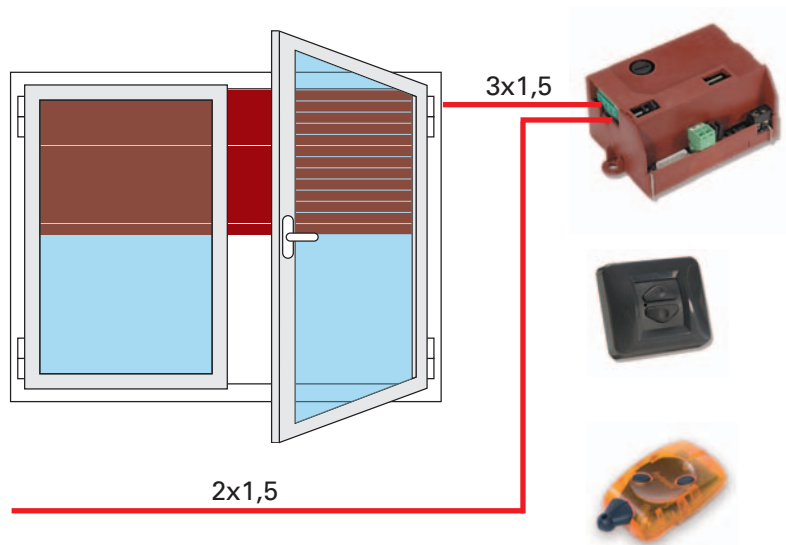
Central cabled or radio control.



ADI ADI MODULES - MOTOR CONTROL

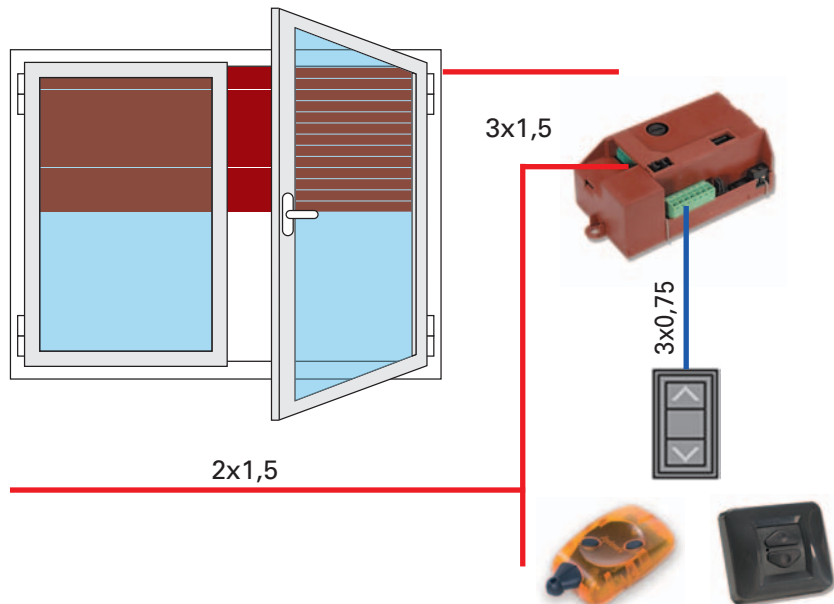
Individual radio control: M230HR.

Radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).



Individual cable and radio control: M230HR.

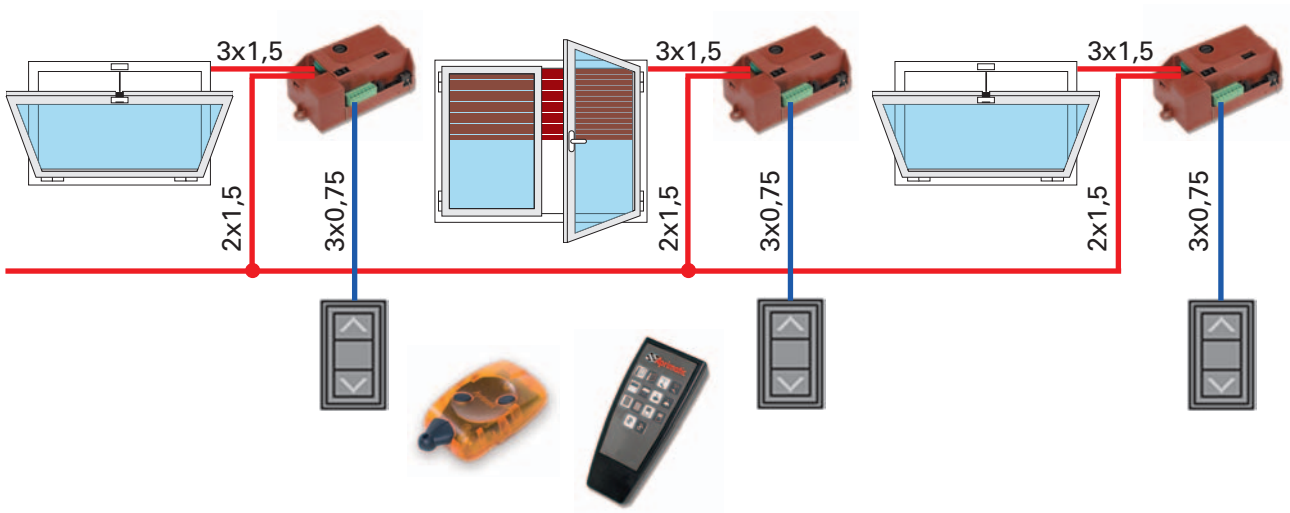
Low voltage cable control with standard, even existing push-buttons and radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).



ADI ADI MODULES - MOTOR CONTROL

Individual cable controls and multiple radio controls: M230HR.

Individual low voltage cable control with standard, even existing push-buttons and radio control with portable multi-channel transmitters (TR4, TR14). Simple programming allows all modules to be controlled from a single remote control.



Central cable and radio controls: M230HR.

Interior modules can mount individual controls and centralised priority cable controls.

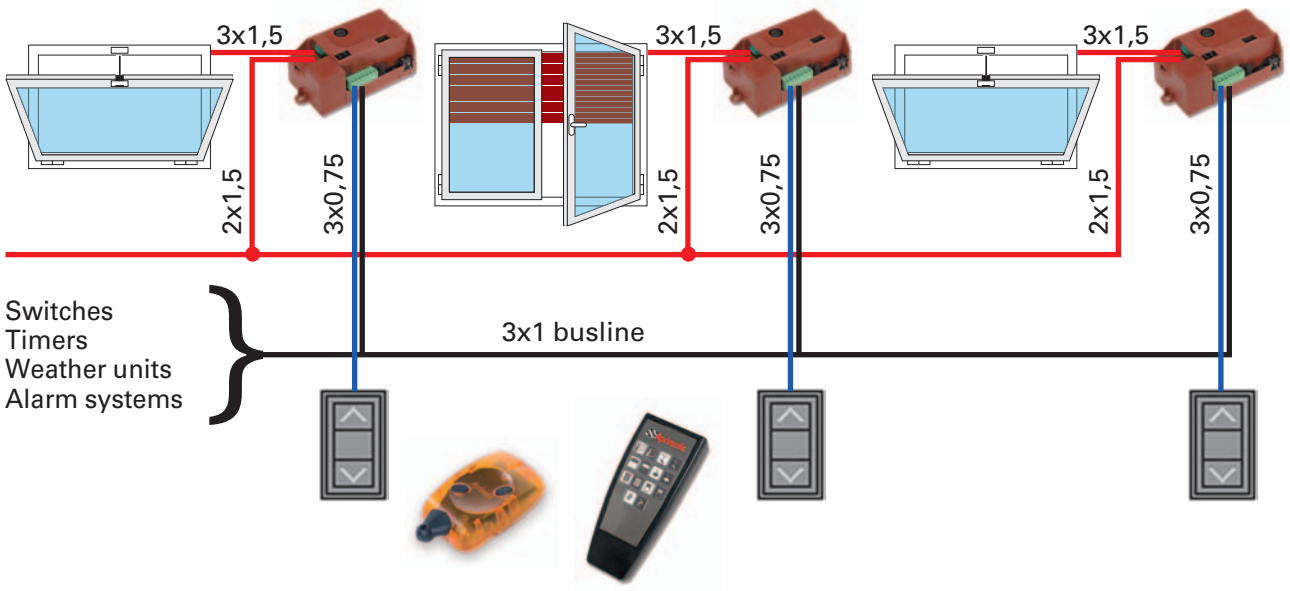
Operating signals can come from timers, weather units, or alarm systems etc. as well as from simple manually operated switches.

Priority centralised controls take precedence over local controls as long as they remain active or until the end of the operation. Priority centralised controls can be used to create simple but effective coordinated control "scenarios".

E.g. in an office a single command could trigger all the operations required for an "end of day scenario", closing all windows and switching off all lights.

The same functions can be achieved by radio control too, simply by programming the control modules.

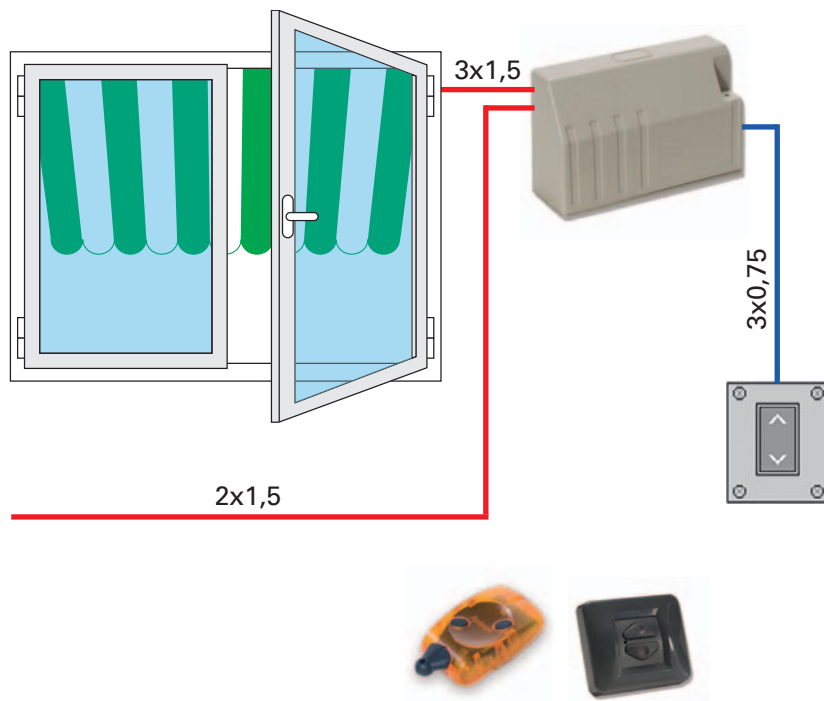
For example a TR14 remote control can be used to control "scenarios" as well as controlling individual operators.



ADI ADI MODULES - MOTOR CONTROL

Individual cable and radio: M230S.

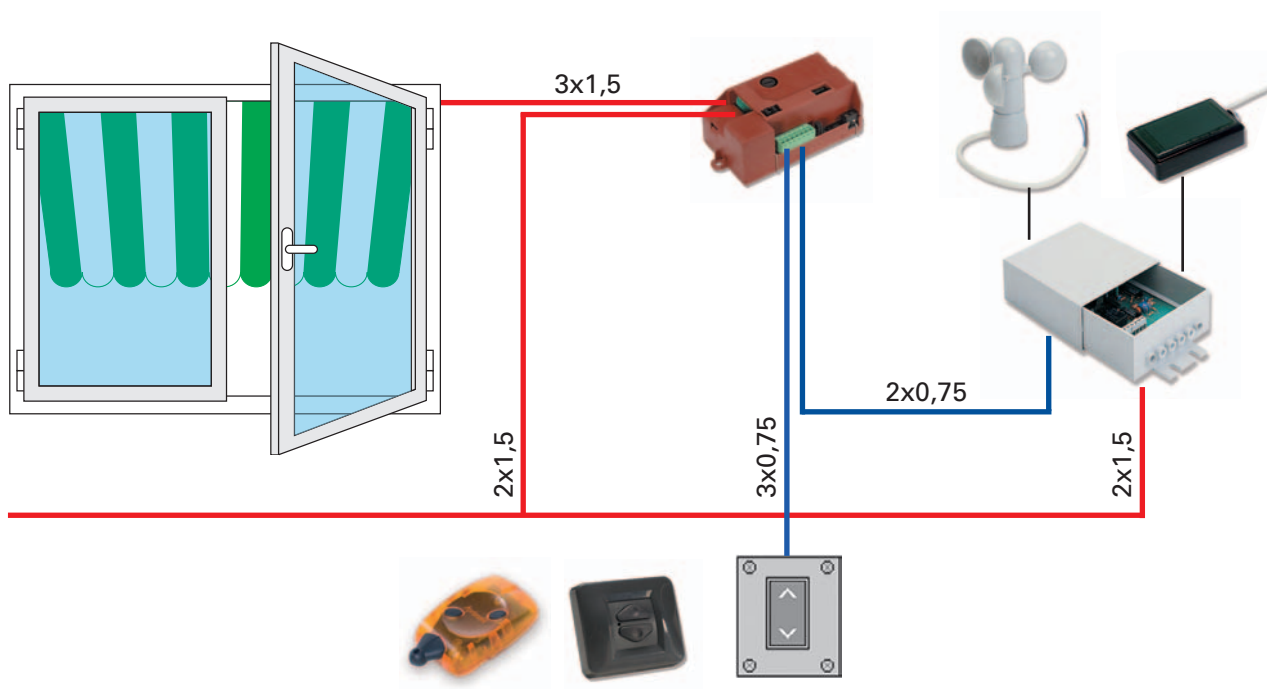
Low voltage cable control with standard outdoor switch and radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).



Application with weather unit: M230HR.

Closing is automatically controlled by the weather unit via a dedicated priority input.

Low voltage cable control with standard outdoor switch and radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).

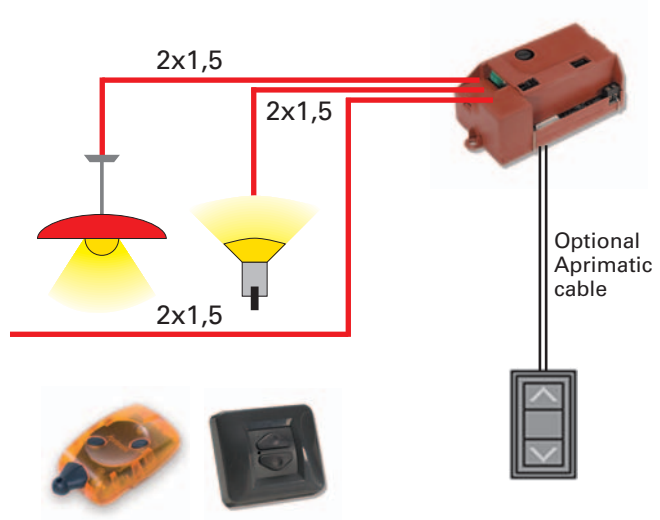


Interior cable and radio control: R230H2.

Low voltage cable control with standard, even existing push-buttons and radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).

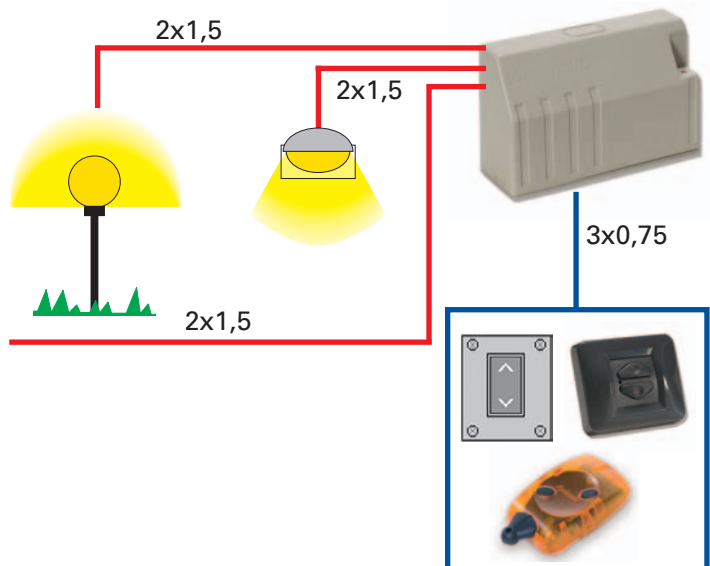
For controlling most common types of light, including ceiling and wall lamps, using the existing wiring and adding only the necessary control units.

Loads can be radio controlled with ON/OFF logic or programmable timer logic or switched on only while a button is held down.



Outdoor cable and radio control: R230E.

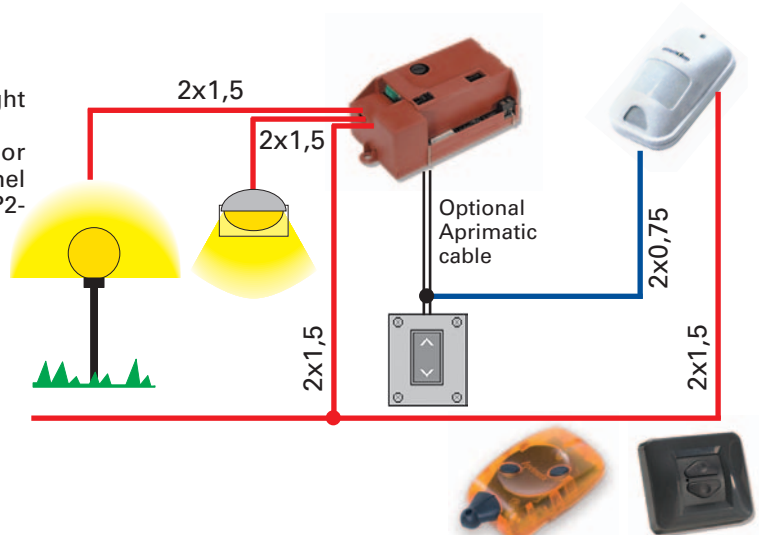
Low voltage cable control with standard outdoor switch and radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).



Application with twilight sensors: R230H2.

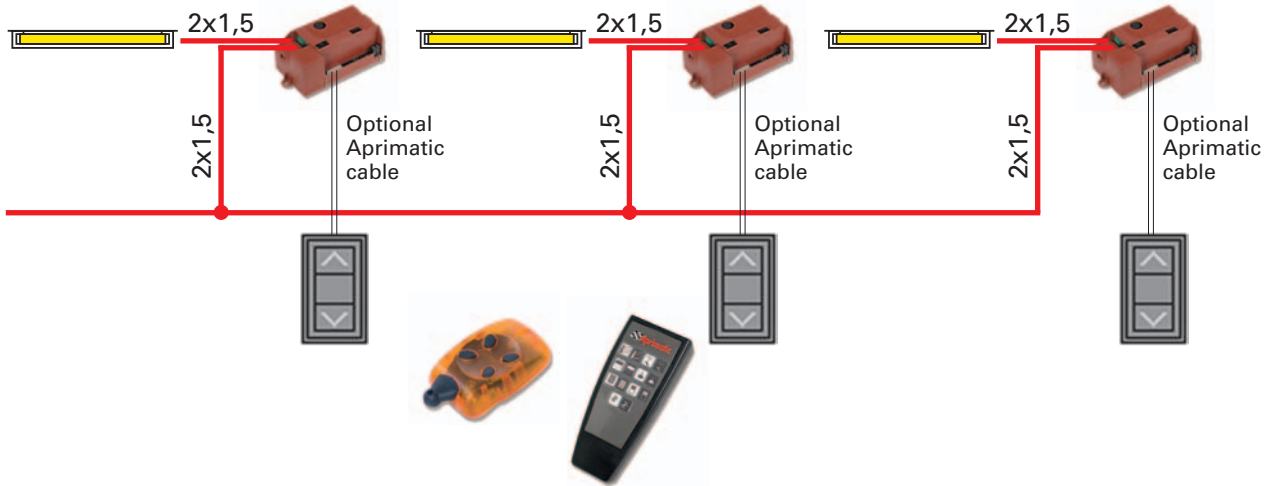
Switching on controlled automatically by a twilight sensor over a dedicated priority input.

Low voltage cable control with standard outdoor switch and radio control with portable two channel transmitters (TR2) or wall mounted transmitters (TP2-BN, TP2-NR).



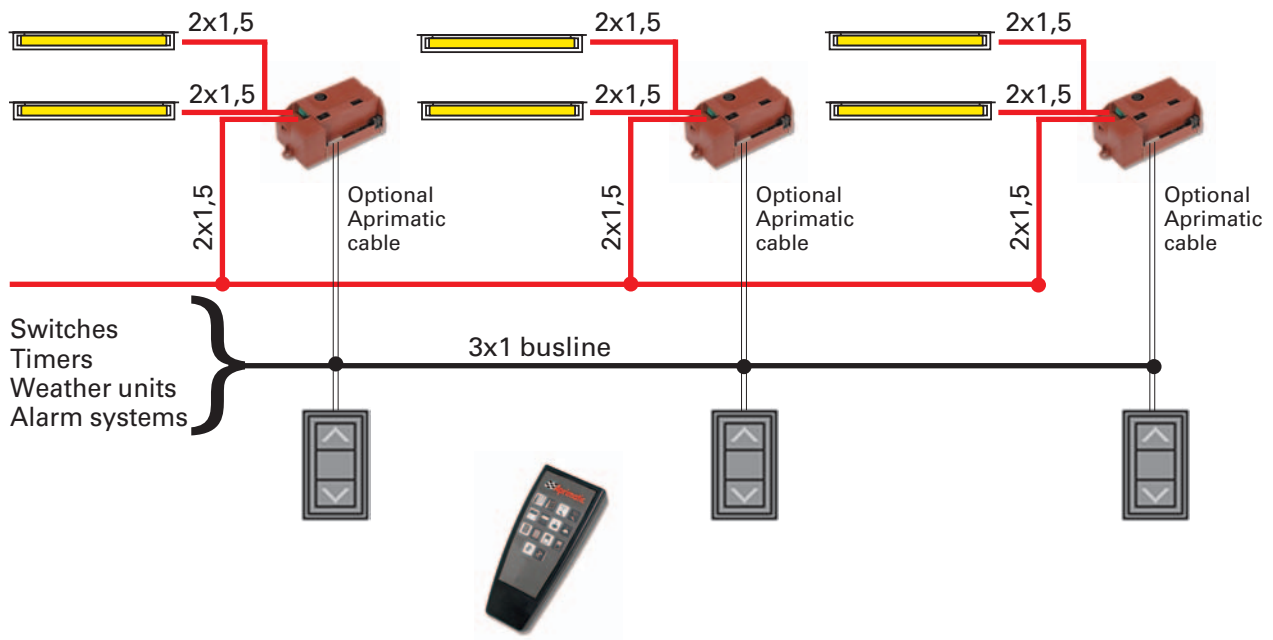
Individual cable and multiple radio control: R230H2.


Individual low voltage cable control with standard, even existing push-buttons and radio control with portable multi-channel transmitters (TR4, TR14). Simple programming allows all modules to be controlled from a single remote control.



Centralised controls – cable and radio: R230H2.

Interior modules can mount individual controls and centralised priority cable controls. Operating signals can come from timers or alarm systems etc. as well as from simple manually operated switches. Priority centralised controls take precedence over local controls as long as they remain active or until the end of the operation. Priority centralised controls can be used to create simple but effective co-ordinated control "scenarios". The same functions can be achieved by radio control too, simply by programming the control modules. For example a TR14 remote control can be used to control "scenarios" as well as controlling individual operators.



SPECIFICATIONS	M230HR	M230S
Power supply	Single-phase 230 Vac (+6% -10%) - 50/60 Hz	
Motor voltage	230 Vac	230 Vac
Protection fuses	5 A	5 A
Max power W	600	650
Unit consumption	2 W max.	2 W max.
24 Vdc accessories power	Unavailable	300 mA max.
Accessory protection fuses	Unavailable	500 mA
Max. power supply cable section	1,5 mm ²	2,5 mm ²
Max. motor cable section	1,5 mm ²	2,5 mm ²
Max. control cable section	1 mm ²	2,5 mm ²
Radio frequency	433.92 Mhz	433.92 Mhz
Useful range	120 metres unobstructed view with optional antenna	
Operating temperature	-20°C to +70°C	-20°C to +70°C
Storage temperature	-40°C to +85°C	-40°C to +85°C
Relative humidity	90% max. (non condensing)	90% max. (non condensing)
Protection rating	IP20	IP44
Installation	Interior, in dry, dust-free environments	also outdoors
Case:		

CABLE INPUTS	M230HR	M230S
Local open	pull-out terminals	terminal board
Local close	pull-out terminals	terminal board
Centralised open	pull-out terminals	not available
Centralised close	pull-out terminals	not available
Stop	pull-out terminals	terminal board
Safety device	pull-out terminals	terminal board

RADIO INPUTS	M230HR	M230S
Local open	Yes	Yes
Local close	Yes	Yes
Centralised open	Yes	-
Centralised close	Yes	-
Stop	Yes	Yes




OUTPUTS	M230HR	M230S
Outputs	2 motor control relays with HW and SW interlocking	

FUNCTIONING LOGIC	M230HR	M230S
Dead man	Yes	Yes
Semiautomatic Open/Close	Yes	Yes
Semiautomatic Step-by-step	Yes	Yes
Automatic	Yes	Yes

OTHER FUNCTION	M230HR	M230S
Radio control memory:	Radio self-teaching - Max. 496 different users.	

PROGRAMMING	M230HR	M230S
Movement time	On module and by radio	On module and by radio
Pause time	On module and by radio	On module and by radio
TX keys – radio control	On module and by radio	On module and by radio

SETTINGS	M230HR	M230S
Functioning logic	Semiautomatic Open/Close	
Movement time	45 s (programmable from 0 to 180 seconds)	
Pause time	45 s (programmable from 0 to 180 seconds)	
Stop input	Disabled (JP6 closed)	
Safety device input	Disabled (JP6 closed)	

SPECIFICATIONS	R230H2	RX230	R230E
Power supply	Single-phase 230 Vac (+6% -10%) - 50/60 Hz		
Load voltage	230 Vac	0-24 Vdc/Vac	230 Vac
Protection fuses	5 A	3,15 A	5 A
Control unit absorption	2 W max.	2 W max.	2 W max.
Max. power supply cable section	1,5 mm ²	1,5 mm ²	2,5 mm ²
Max. load cable section	1,5 mm ²	1,5 mm ²	2,5 mm ²
Max. control cable section	Use an Aprimatic control cable		2,5 mm ²
Radio frequency	433.92 Mhz	433.92 Mhz	433.92 Mhz
Useful range	120 metres unobstructed view with optional antenna		
Operating temperature	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Storage temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Relative humidity	90% max. (non condensing)	90% max. (non condensing)	90% max. (non condensing)
Protection rating	IP20	IP20	IP44
Installation	Interior, in dry, dust-free environments		also outdoors
Case:			

LOAD CONTROL	R230H2	RX230	R230E
Number of relays	2	2	2

MAX. APPLICABLE LOADS

Induction motor or transformer	300 W - 2 x 300 W	1 A	2 x 300 W
Resistive load	3 A - 2 x 3 A	1 A	2 x 3 A
Incandescent lamp	200 W - 2 x 200 W	1 A	2 x 200 W
Fluorescent lamp	250 W - 2 x 250 W	1 A	2 x 250 W

CABLE INPUTS

Channel 1 control	Connector	-	Terminal board
Channel 2 control	Connector	-	Terminal board
Centralised control enable	Connector	-	Not available
Centralised control disable	Connector	-	Not available

RADIO INPUTS

Channel 1 control	Yes	Yes	Yes
Channel 2 control	Yes	Yes	Yes
Centralised control enable	Yes	-	-
Centralised control disable	Yes	-	-

FUNCTIONING LOGIC

ON/OFF	Yes	Yes	Yes
Timer 1-255 seconds	Yes	Yes	Yes
Timer 1-255 minutes	Yes	Yes	Yes
Dead man	Yes	Yes	Yes

OTHER FUNCTIONS

Radio control memory:	Radio self-teaching - Max. 496 different users		
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PROGRAMMING

Channel 1 timer	On module and by radio	On module and by radio	On module and by radio
Channel 2 timer	On module and by radio	On module and by radio	On module and by radio
TX keys – radio controls	On module and by radio	On module and by radio	On module and by radio






SETTINGS

Functioning logic	ON/OFF	ON/OFF	ON/OFF
Channel 1 timer	45 sec. / min.	1 second	45 sec. / min.
Channel 2 timer	45 sec. / min.	1 second	45 sec. / min.

MOTOR CONTROL MODULES

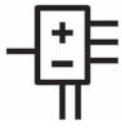
DESCRIPTION		CODE	EURO
	M230HR - Vac motor control module, cable and radio control, interior installation, suitable size for installation in "504" masonry box	43665/004	103,00
	M230S - Vac motor control module, cable and radio control, max. 300 mA accessory power, outdoor installation in IP44 box	43665/015	100,00
	MCT - Centralised control module for tubular motors with interface card specifically for the parallel control of more than one tubular motor	43645/004	35,50

LIGHT CONTROL MODULES

DESCRIPTION		CODE	EURO
	R230H2 - Vac two channel light control module, cable and radio control, interior installation, suitable size for installation in "504" masonry box	43665/010	 112,50
	R230E - Vac two channel light control module, cable and radio control, outdoor installation, IP44 box	43665/016	 99,00
	RX230 - Two channel radio receiver module for low voltage loads, gate opening and security control units etc., suitable size for installation in "503" masonry box	41923/055	98,00

ACCESSORIES














DESCRIPTION	CODE	EURO
 C6P - 6 core cable with press-fit connector, length 3 metres optional for cable controls with modules M230LR, R230L1, R230L2, R230H1, R230H2	43665/050	8,50
 ANT 433 - Optional 433.92 Mhz outdoor antenna with 4.5 m coax cable and earth plate	41929/001	16,50
 AL 24 - 24 Vdc 250 mA power supply, dimensions: diam. 50 mm h. 30 mm	41703/001	40,50
 TR2 - 433.92 Mhz twin channel rolling code remote control	41903/002	31,00
 TR4 - 433.92 Mhz four channel rolling code remote control	41903/004	33,00
 TR14 - 433.92 Mhz 14 channel remote control	41903/014	168,00
 TP2-BN - White wall-mounted two channel 433.92 Mhz remote control, compatible with BTicino Living International/Light civil product series	41905/001	40,50
 TP2-NR - Black wall-mounted two channel 433.92 Mhz remote control, compatible with BTicino Living International/Light civil product series	41905/002	40,50
 PP-BN - Wall plate for white wall-mounted remote control	43701/050	8,50
 PP-NR - Wall plate for black wall-mounted remote control	43701/051	8,50





MOTOR CONTROL UNITS, WEATHER SENSORS AND ACCESSORIES

24 V and 230 V motor control units, weather units,
rain, wind, smoke and heat sensors, thermostats.

COMBINING MOTOR CONTROL UNITS WITH OPERATORS AND WEATHER UNITS

		24 V			230 V
		CV1N	CV10	CF10/2 *	5M
OPERATOR					
APRILINEARE 24 V		1 Motor	10 Motors	10 Motors	
APRICOLOR VARIA 24 V		1 Motor	5 Motors	5 Motors	
APRILINEARE DUO SYSTEM 24 V		1 Motor	10 Motors	10 Motors	
APRILINEARE 230 V					5 Motors
O2M					5 Motors
APRICOLOR VARIA - VARIA T 230 V					5 Motors
ST 450N					5 Motors
APRILINEARE DUO SYSTEM 230 V					5 Motors
TUBOLARI REVOLUX					5 Motors

WEATHER UNITS					
PV1 230 V		•	•	•	•
PV2 24 V		•		•	

NOTE: PV1 and PV2 control units can be used with:

NOTE: *CF 10/2 control units can be used with:



RV - Anemometer



SP1 - Rain sensor







Detection sensor:
Smoke, Heat or Smoke/Heat









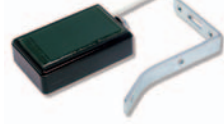
Backup battery



MOTOR CONTROL UNITS, WEATHER SENSORS AND ACCESSORIES

DESCRIPTION - MOTOR CONTROL UNITS	CODE	EURO
 <p>CV1N - 24 Vdc max. 1A motor control unit, inputs for local and centralised open and close commands, current output adjustment potentiometer 300 mA to 600 mA, 24 Vdc accessories power, can be connected in parallel with other CV1N units</p>	43660/002	116,50
 <p>CV10 - 24 Vdc max. 8A motor control unit, inputs for local and centralised open and close commands, can be connected in parallel with other CV10N units</p>	43660/007	142,50
 <p>4M - 230 Vac motor control unit for simultaneous control of 4 motors, inputs for local and centralised open and close commands, can be connected in parallel with other 4M units</p>	43645/005	184,50
 <p>CF10/2 - 24 Vdc max. 8A motor control unit, 24Vdc max. 500 mA accessory power output, provision for backup battery and recharge circuit, built-in control panel for operators, rain/wind sensors and thermostat, status LEDs, internal emergency thermostat triggered at + 70° C, 2.2 KOhm balance line for max. 24 smoke and heat detectors, remote alarm signalling output</p>	43660/006	416,50

DESCRIPTION - CF 10/2 ACCESSORES	CODE	EURO
 <p>CF10/2 - Backup battery</p>	43660/101	149,00
 <p>RFC - Optical smoke detector with differential heat sensor, conforms to EN54 standards (for area max 60 m² and height 12 m)</p>	43701/063	168,00

DESCRIPTION - WEATHER UNITS AND SENSORS	CODE	EURO
 <p>PV1 (230 Vac power supply)</p>	43665/018	64,00
 <p>PV2 (24 Vdc power supply)</p>	43660/008	58,00
 <p>PV1 and PV2 weather units can be connected to an anemometer and/or rain sensor to provide an alarm signal output (normally open relay with no-voltage contacts) that can be used to control window closing</p>		
 <p>RV - Anemometer</p>	43701/055	36,50
 <p>SP1 - Rain sensor</p>	43701/052	72,50





SLIDING DOORS AUTOMATIONS

Smooth, precise, silent movement.

Aprimatic offers a wide range of automation solutions for sliding doors. Products designed to provide top reliability in a wide range of application in offices, shops and supermarkets. All automation and frame components are housed inside compact, attractively designed extruded aluminium profile.

Units are easy to install and do not require specialist skills or masonry work.

The automation units are equipped with intelligent electronic control systems.

Modern electronics reduces the need for adjustment.

This reduces installation, set-up and maintenance times.

It is also your guarantee of total safety.

Our systems are equipped with the very latest obstacle detection systems designed to ensure total safety.



Wing NK

Reversible single-motor automation for sliding doors. Suitable for shops, supermarkets and offices with high traffic levels. Designed for medium-heavy loads.

Max. load for heavy duty use (4 cycles/min.):
100 kg for 2 wings, 100 kg for 1 wing.

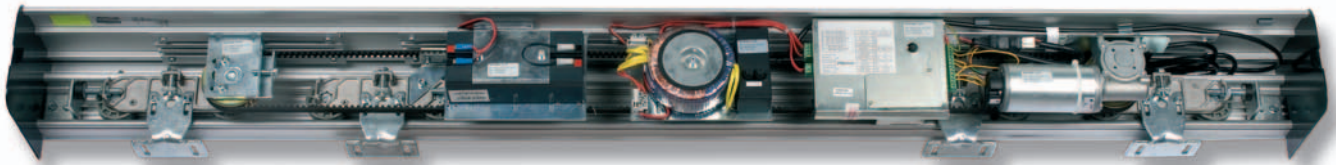
Max. load for continuous use (6 cycles/min.):
80 kg for 2 wings, 130 kg for 1 wing.

Wing NK H150

Reversible single-motor automation for sliding doors. Suitable for shops, supermarkets and offices with high traffic levels. Designed for medium-heavy loads.

Max. load for heavy-duty use (4 cycles/min.):
150 kg for 2 wings, 150 kg for 1 wing.

Max. load for continuous use (6 cycles/min.):
130 kg for 2 wings, 150 kg for 1 wing.



Wing NK





SLIDING DOORS AUTOMATIONS

Drive system with a toothed HPPD rubber drive belt. The belt is reinforced with a glass fibre core and has a non-slip coating.

Modular carriages with large diameter, reinforced-nylon wheels running on upper and lower rails. Rails have a semi-circular cross-section. The carriage modules feature a derailment-proof, tip-proof, load balancing system.

Gear motor reversible featuring DC motor with PWM (pulse width modulation) electronic control.

Optical encoder with 2 channel system for electronic position and speed control and for obstacle detection (auto-reverse safety).

Control unit ensuring the highest levels of safety and reliability. Performance features include: self-teach function for stroke length, wing weight, braking force and braking distance; continuous adjustment of braking distance to match external operating conditions; automatic adjustment of opening and closing speed to match wing weight; highly sensitive electronic auto-reverse safety device on opening and closing strokes (max. 150 N).

The control unit also incorporates the emergency battery recharging circuit.



Slim SNK

Non reversible single-motor automation for sliding doors. Suitable for shops, supermarkets and offices with medium traffic levels.

Designed for medium-light loads.

Max. load for NOT heavy-duty use (<3 cycles/min.):

70 kg for 2 wings, 100 kg for 1 wing.

Max. load for heavy-duty use (4 cycles/min.):

50 kg for 2 wings, 70 kg for 1 wing.

Twin

Automation for telescopic sliding doors.

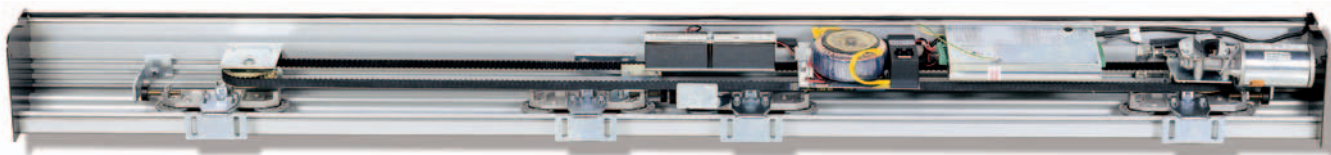
Designed to provide a wider door opening for the same beam length.

Max. load for intensive use (4 cycles/min.):

50 kg for 4 wings, 75 kg for 2 wings.

Max. load for continuous use (6 cycles/min.):

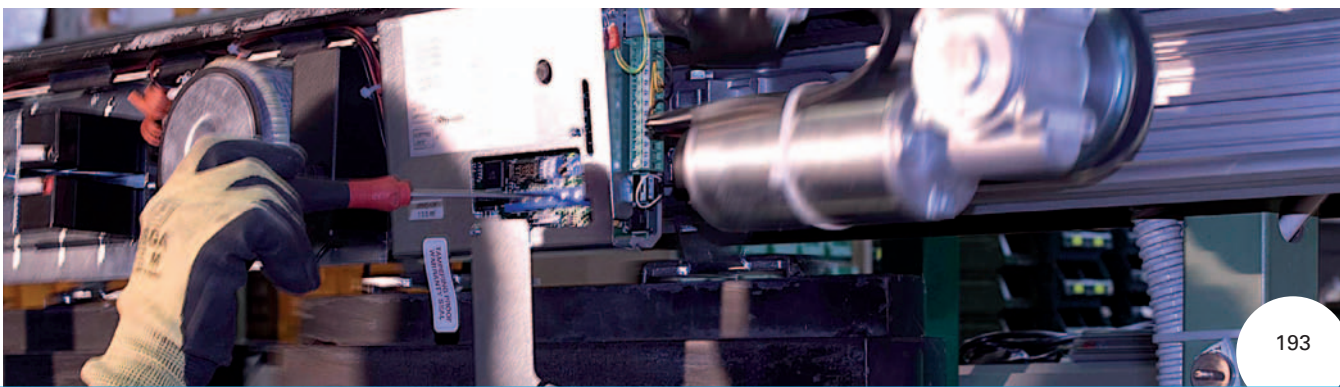
40 kg for 4 wings, 60 kg for 2 wings.



Slim



Twin





SLIDING DOORS AUTOMATIONS

TECHNICAL DATA

WING NK 1 WING NK H150 1 SLIM SNK 1 TWIN single-side
WING NK 2 WING NK H150 2 SLIM SNK 2 TWIN two-side

GENERAL

Automation power supply	Single-phase 230 Vca (+/- 10%) – 50/60 Hz			
Motor power supply	24 Vcc with high performance toroidal transformer			
Accessories power supply	24 Vdc/Vac	24 Vdc/Vac	24 Vdc/Vac	24 Vdc/Vac
Operating temperature	-20° +70° C	-20° +70° C	-10° +60° C	-10° +60° C
Installed power (max.)	300 W	300 W	130 W	210 W

DIMENSIONS IN mm

Overall (h x d) mm	152 x 172	152 x 172	152 x 172	270 x 205
Beam lenght, min.-max. mm	1810 - 6010	1810 - 6010	1810 - 5410	1410 - 6010 2810 - 6010
Passage span, min.-max. mm	850 - 2950	850 - 2950	850 - 2650	800-3900 1800-3900

WING LOAD CAPACITY IN kg

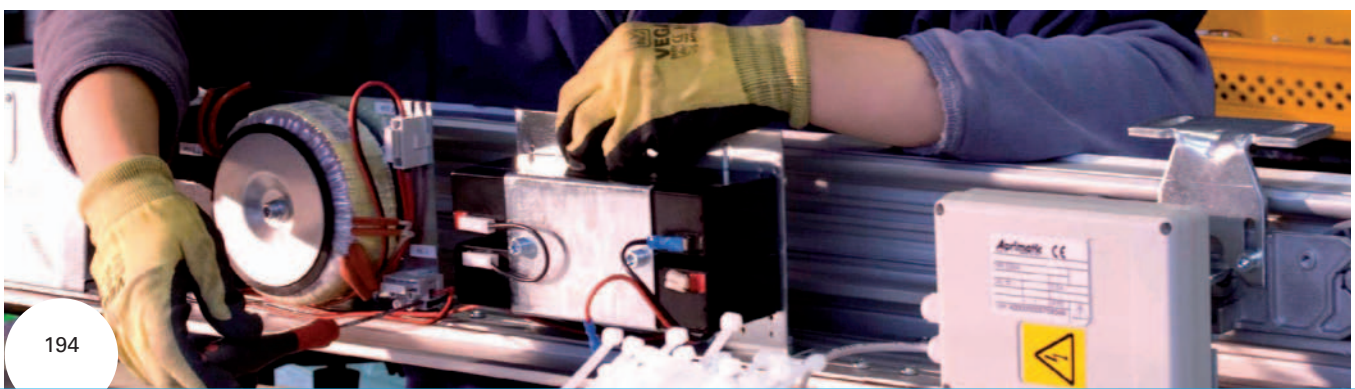
Max. load capacity (kg)	100x1 - 100x2	150x1 - 150x2	100x1 - 70x2	50x4 - 75x2
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SPEED IN cm/sec.

Opening speed min.-max.	11-75 (1 wing)	11-75 (1 wing)	40 - 60	60
	22-150 (2 wing)	22-150 (2 wing)	80 - 120	120
Closing speed min.-max.	11-75 (1 wing)	11-75 (1 wing)	11 - 50	40
	22-150 (2 wing)	22-150 (2 wing)	22 - 100	80
Approach speed	6	6	6	6

DRIVE TRASMISSION

Transmission	Toothed HPPD belt			
Carriage type	Modular, 3-wheel carriages (2 each wing)			
Protection class	IP23	IP23	IP23	IP23





SLIDING DOORS AUTOMATIONS

OPERATING CHARACTERISTICS

	WING NK 1 WING NK 2	WING NK H150 1 WING NK H150 2	SLIM SNK 1 SLIM SNK 2	TWIN single-side TWIN two-side
SELF-TEACH FUNCTIONS (at power on or after a reset)				
Opening stroke length	Yes	Yes	Yes	Yes
Closing stroke length	Yes	Yes	Yes	Yes
Wing weight	Yes	Yes	Yes	Yes
Braking space (adaptive)	Yes	Yes	Yes	Yes
Opening speed	Yes	Yes	Yes	Yes
Closing speed	Yes	Yes	Yes	Yes
STANDARD FUNCTION (selected from key switch or keypad)				
Night lock	Yes	Yes	Yes	Yes
Automatic two-way	Yes	Yes	Yes	Yes
Automatic exit only	Yes	Yes	Yes	Yes
Automatic entry only	Yes	Yes	Yes	Yes
Completely open	Yes	Yes	Yes	Yes
Automatic partial opening	Yes	Yes	Yes	Yes
Manual opening	-	-	-	-
Night service opening-	-	-	-	-
Reset	Yes	Yes	Yes	Yes
Master/Slave	Yes	Yes	-	-
Eco function	-	-	-	-
HDCP function	-	-	-	-
EMERGENCY FUNCTIONS				
Input for emergency push button	Yes	Yes	Yes	Yes
Electric emergency opener with battery	Yes	Yes	Yes	Yes
Emergency operation with battery	Yes	Yes	Yes	-
Stop input	Yes	Yes	Yes	-
Fire alarm input	-	-	-	-
Fire alarm output	-	-	-	-
SAFETY FUNCTIONS				
Input for safety photocell	Yes	Yes	Yes	Yes
Obstacle detection (adaptive)	Yes (adaptive)	Yes (adaptive)	Yes (adaptive)	Yes (adaptive)
ADJUSTABLE PARAMETERS				
Opening speed	Yes	Yes	Yes	Yes
Closing speed	65% opening speed (dipswitch)	Yes	Yes	-
Approach speed	Yes	Yes	Yes	Yes
Open pause time	Yes	Yes	Yes	Yes
Thrust force	Yes	Yes	Yes	Yes
Electric lock actuation delay	Yes	Yes	Yes	Yes
Partial opening percentage	Yes	Yes	-	-
DIAGNOSTIC				
Identification of alarm types	Yes	Yes	Yes	Yes
ADDITIONAL FUNCTION (optionals)				
Bistable electric lock with self-test	Yes	Yes	Yes	Yes
Built-in emergency opener	Yes	Yes	Yes	-
Interlock function	Yes	Yes	Yes	Yes
Manual release	Yes	Yes	Yes	Yes



SLIDING DOORS AUTOMATIONS

EXAMPLE OF AUTOMATION DIMENSIONING

	Two-wing automation: Wing NK, Wing NK H150			RH single-wing automation: Wing NK, Wing NK H150			LH single-wing automation: Wing NK, Wing NK H150		
	Known A	Known VP	Known T	Known A	Known VP	Known T	Known A	Known VP	Known T
T	$4A-2S+10$	$2VP+2S+10$	-	$2A-2S+10$	$2VP+2S+10$	-	$2A-S+10$	$2VP+S+10$	-
VP	$2(A-S)$	-	$(T-2S-10)/2$	$A-2S$	-	$(T-2S-10)/2$	$A-S$	-	$(T-S-10)/2$
A	-	$(VP+2S)/2$	$(T+2S-10)/4$	-	$VP+2S$	$(T+2S-10)/2$	-	$VP+S$	$(T+S-10)/2$

A= wing length in mm VP= passage span in mm T= beam length in mm S= overlap in mm

NOTE: The overlap (S) used in the formula = 50 mm (not binding). The calculations for RH and LH single-wing automation are valid for both opening directions. For RH single-wing automation, the actual passage span (VP) of the automation is reduced by the size of the overlap selected.

WING NK automation with anodized silver finish

Beam	Passage span	LH Single-wing	RH Single-wing	Price Euro	Double wing	Price Euro
1810	850	42710/181.1	42710/181.0	1.781,00	42710/181.2	1.885,00
2010	950	42710/201.1	42710/201.0	1.804,00	42710/201.2	1.900,50
2410	1150	42710/241.1	42710/241.0	1.839,00	42710/241.2	1.943,00
2510	1200	42710/251.1	42710/251.0	1.851,00	42710/251.2	1.952,00
2810	1350	42710/281.1	42710/281.0	1.886,00	42710/281.2	1.987,00
3010	1450	42710/301.1	42710/301.0	1.908,00	42710/301.2	2.011,00
3210	1550	42710/321.1	42710/321.0	1.932,50	42710/321.2	2.032,50
3610	1750	42710/361.1	42710/361.0	1.977,00	42710/361.2	2.081,00
4010	1950	42710/401.1	42710/401.0	2.023,00	42710/401.2	2.126,00
4410	2150	42710/441.1	42710/441.0	2.067,50	42710/441.2	2.171,50
4810	2350	42710/481.1	42710/481.0	2.115,00	42710/481.2	2.217,00
5410	2650	42710/541.1	42710/541.0	2.182,00	42710/541.2	2.285,00
6010	2950	42710/601.1	42710/601.0	2.252,00	42710/601.2	2.355,00

Automation with anodised black finish surcharge: see export price list.

Automation with non-standard lengths: surcharge of Euro 40. Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with 0 or 5. The standard supply includes the emergency battery unit.

WING NK H150 automation with anodized silver finish

Beam	Passage span	LH Single-wing	RH Single-wing	Price Euro	Double wing	Price Euro
1810	850	42715/181.1	42715/181.0	2.066,50	42715/181.2	2.168,50
2010	950	42715/201.1	42715/201.0	2.089,00	42715/201.2	2.191,00
2410	1150	42715/241.1	42715/241.0	2.135,50	42715/241.2	2.236,50
2510	1200	42715/251.1	42715/251.0	2.147,00	42715/251.2	2.248,50
2810	1350	42715/281.1	42715/281.0	2.181,00	42715/281.2	2.282,50
3010	1450	42715/301.1	42715/301.0	2.202,50	42715/301.2	2.306,50
3210	1550	42715/321.1	42715/321.0	2.226,00	42715/321.2	2.328,50
3610	1750	42715/361.1	42715/361.0	2.271,50	42715/361.2	2.374,50
4010	1950	42715/401.1	42715/401.0	2.317,50	42715/401.2	2.420,50
4410	2150	42715/441.1	42715/441.0	2.361,00	42715/441.2	2.466,00
4810	2350	42715/481.1	42715/481.0	2.409,50	42715/481.2	2.502,00
5410	2650	42715/541.1	42715/541.0	2.477,50	42715/541.2	2.569,00
6010	2950	42715/601.1	42715/601.0	2.547,50	42715/601.2	2.648,50

Automation with anodised black finish surcharge: see export price list.

Automation with non-standard lengths: surcharge of Euro 40. Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with 0 or 5. The standard supply includes the emergency battery unit.



SLIDING DOORS AUTOMATIONS

SLIM SNK automation with anodized silver finish

Beam	Passage span	LH Single-wing	RH Single-wing	Price Euro	Double wing	Price Euro
1810	850	42705/181.1	42705/181.0	1.429,00	42705/181.2	1.531,00
2010	950	42705/201.1	42705/201.0	1.453,50	42705/201.2	1.553,50
2410	1150	42705/241.1	42705/241.0	1.498,00	42705/241.2	1.599,00
2510	1200	42705/251.1	42705/251.0	1.508,00	42705/251.2	1.610,00
2810	1350	42705/281.1	42705/281.0	1.543,00	42705/281.2	1.644,00
3010	1450	42705/301.1	42705/301.0	1.572,00	42705/301.2	1.669,00
3210	1550	42705/321.1	42705/321.0	1.587,50	42705/321.2	1.704,00
3610	1750	42705/361.1	42705/361.0	1.634,00	42705/361.2	1.738,00
4010	1950	42705/401.1	42705/401.0	1.680,00	42705/401.2	1.782,00
4410	2150	42705/441.1	42705/441.0	1.724,50	42705/441.2	1.828,50
4810	2350	42705/481.1	42705/481.0	1.771,00	42705/481.2	1.875,00
5410	2650	42705/541.1	42705/541.0	1.840,00	42705/541.2	1.942,00

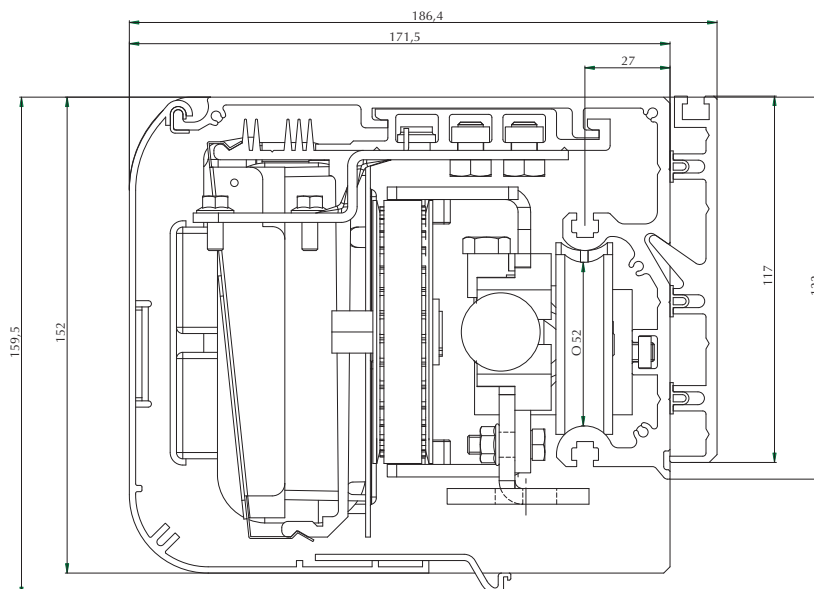
Automation with anodised black finish surcharge: see export price list.

Automation with non-standard lengths: surcharge of Euro 40. Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with 0 or 5.
The standard supply includes the emergency battery unit.

Covers for WING NK, WING NK H150, SLIM SNK automation

Beam	Natural finish	Price Euro	Silver finish	Price Euro	Black finish	Price Euro
1800	42102/180	79,50	42100/180	96,00	42101/180	107,50
2000	42102/200	84,50	42100/200	99,00	42101/200	114,50
2400	42102/240	93,00	42100/240	111,50	42101/240	128,00
2500	42102/250	95,00	42100/250	115,50	42101/250	131,00
2800	42102/280	102,00	42100/280	122,00	42101/280	142,50
3000	42102/300	106,50	42100/300	127,00	42101/300	149,50
3200	42102/320	111,50	42100/320	133,00	42101/320	156,00
3600	42102/360	119,50	42100/360	145,50	42101/360	168,00
4000	42102/400	129,00	42100/400	157,00	42101/400	182,50
4400	42102/440	139,50	42100/440	168,00	42101/440	196,00
4800	42102/480	147,50	42100/480	179,50	42101/480	209,50
5400	42102/540	161,00	42100/540	200,00	42101/540	230,00
6000	42102/600	175,00	42100/600	218,50	42101/600	247,50

WING NK - WING NK H150 - SLIM SNK CROSS SECTION





SLIDING DOORS AUTOMATIONS

EXAMPLE OF AUTOMATION DIMENSIONING

	Telescopic, four-wing automation: TWIN			Telescopic, two-wing automation: TWIN		
	Known A	Known VP	Known T	Known A	Known VP	Known T
T	$(6 * A - 2 * S) + 10$ Round down the result in brackets to the nearest hundred	$(3/2 * VP + 2S) + 10$ Round up the result in brackets to the nearest hundred		$(3 * A - S) + 10$ Round down the result in brackets to the nearest hundred	$(3/2 * VP + 2S) + 10$ Round up the result in brackets to the nearest hundred	
VP	$4 * (A - S)$		$[(T - 2 * S - 10) * (2/3)]$ Round down the result in brackets to the nearest hundred	$2 * (A - 2S)$		$[(T - 2 * S - 10) * (2/3)]$ Round down the result in brackets to the nearest hundred
A		$1/4 * (VP + 4 * S)$	$S + 1/4 * [(T - 2 * S - 10) * (2/3)]$ Round up the result in square brackets to the nearest hundred		$1/2 * (VP + 4 * S)$	$S + 1/2 * [(T - 2 * S - 10) * (2/3)]$ Round up the result in square brackets to the nearest hundred

A= wing length in mm VP= passage span in mm T= beam length in mm S= overlap in mm

NOTE: The overlap (S) used in the formula = 50 mm (not binding).

TWIN automation with anodised silver finish

Beam	Passage span	1 + 1 LH Wing	1 + 1 RH Wing	Price Euro	2 + 2 Wing	Price Euro
1410**	800	42800/141.1	42800/141.0	2.440,50	-	-
1810**	1100	42800/181.1	42800/181.0	2.507,50	-	-
2010**	1200	42800/201.1	42800/201.0	2.540,00	-	-
2410*	1500	42800/241.1	42800/241.0	2.605,00	-	-
2810*	1800	42800/281.1	42800/281.0	2.673,00	42800/281.2	2.950,00
3210	2000	42800/321.1	42800/321.0	2.740,00	42800/321.2	2.964,50
3610	2300	42800/361.1	42800/361.0	2.806,00	42800/361.2	3.016,00
4010	2600	42800/401.1	42800/401.0	2.872,00	42800/401.2	3.151,00
4410	2800	42800/441.1	42800/441.0	2.941,00	42800/441.2	3.217,00
4810	3100	42800/481.1	42800/481.0	3.007,00	42800/481.2	3.283,00
5410	3500	42800/541.1	42800/541.0	3.106,50	42800/541.2	3.383,00
6010	3900	42800/601.1	42800/601.0	3.205,50	42800/601.2	3.484,50

The TWIN series automations are not fitted with emergency batteries as standard.

** Automations marked with two asterisks CANNOT be fitted the electric lock EB2 and must have the emergency battery unit fitted outside the beam.

* Automations marked with one asterisk CAN be fitted with electric block EB2 on the beam but the emergency battery unit NS48 must be fitted outside the beam.

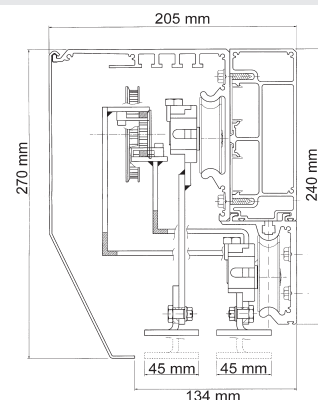
Automation with anodised black finish surcharge: see export price list.

Automation with non-standard lengths: surcharge of Euro 40. Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with 0 or 5.

Carter for TWIN automation

Beam	Natural finish	Price Euro	Silver finish	Price Euro	Black finish	Price Euro
1400	42112/140	144,50	42110/140	245,50	42111/140	267,00
1800	42112/180	162,00	42110/180	268,00	42111/180	288,50
2000	42112/200	171,00	42110/200	279,50	42111/200	300,00
2400	42112/240	190,00	42110/240	300,00	42111/240	321,50
2800	42112/280	207,50	42110/280	321,50	42111/280	343,00
3200	42112/320	225,00	42110/320	344,50	42111/320	366,00
3600	42112/360	242,50	42110/360	366,00	42111/360	388,50
4000	42112/400	260,00	42110/400	387,50	42111/400	410,00
4400	42112/440	279,50	42110/440	412,00	42111/440	432,00
4800	42112/480	297,00	42110/480	426,50	42111/480	455,50
5400	42112/540	322,50	42110/540	467,00	42111/540	490,50
6000	42112/600	348,50	42110/600	500,00	42111/600	523,50

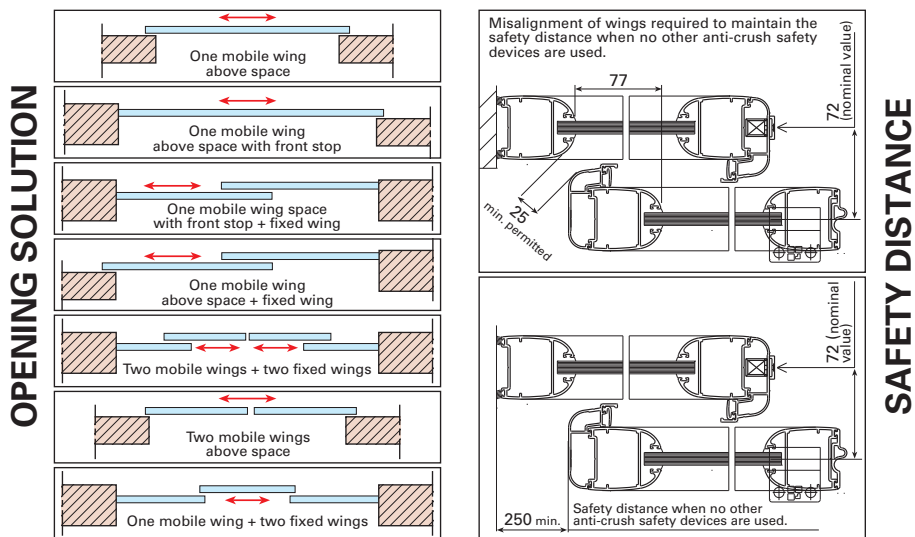
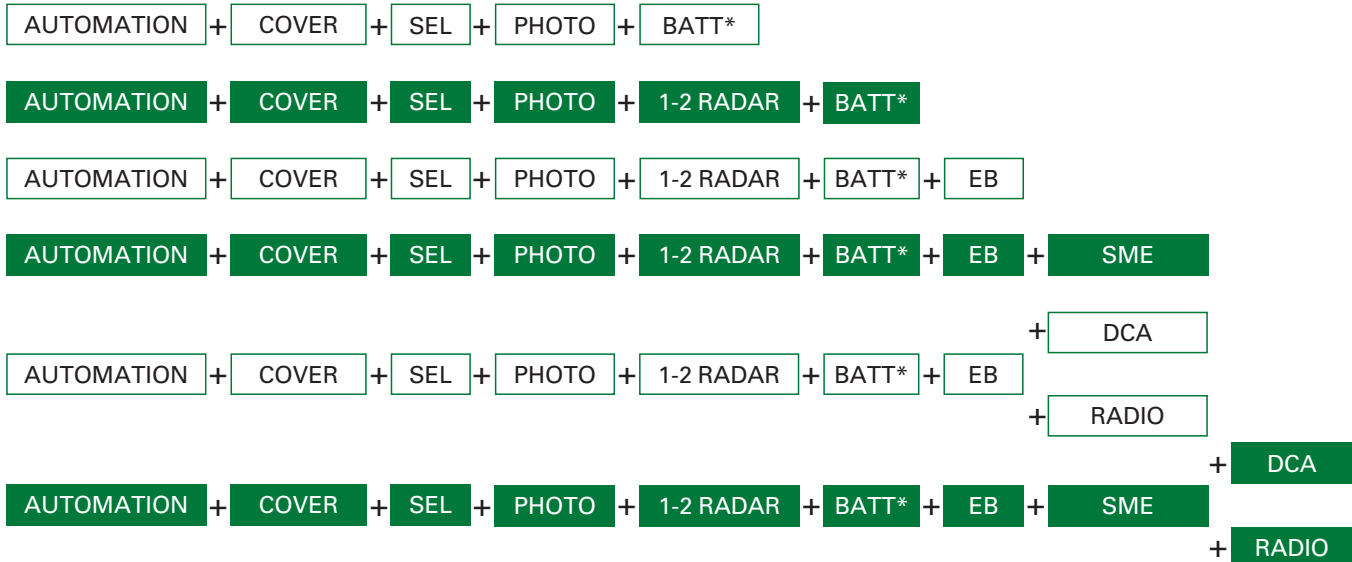
TWIN CROSS-SECTION





POSSIBLE CONFIGURATIONS

EXAMPLE FOR POSSIBLE CONFIGURATIONS



LEGEND

AUTOMATION

Choose the model (complete operator assembly or beam system plus module) from the available range: **WING NK - WING NK H150 - SLIM SNK - TWIN**

COVER

Choose the guard with the desired surface finish from one of the following: **natural aluminium (NAT), silver (A/A), black (A/N)**

SEL

Choose the key selector (REQUIRED): **SC6 WIRELESS - SC6 EC - SC6**

PHOTO

Choose the photocells: **ER6 UNI - ER6/N**

1-2 RADAR

Choose the radar: **DM-H21, DM-H22, DM-H82, RI-H3 SAFE, RI-H3 ACTI, RI-H5**

BATT*

*Batteries OPTIONAL only on **TWIN**: are provided as standard with all other models.

EB

Electric lock: **EB2**

SME

Choose the Emergency Manual Release device: **SME/E - SME/I**
installable only in conjunction with EB2

ACD

Choose Alternative Control Devices, if necessary : **PC12E - PR5 - LB4 - CT3**

RADIO

Choose the remote control and receiver: **TR2 - TR4 ; PLUS SC6 WIRELESS**





MODULES AND KIT SOLUTIONS

You can use these modules to construct any type of "Wing NK" or "Wing NK H150" or "SLIM SNK" automation with the same technical characteristics and functions as described above.

The NK module profile is supplied ready for installation, complete with the control unit, power supply unit, motor

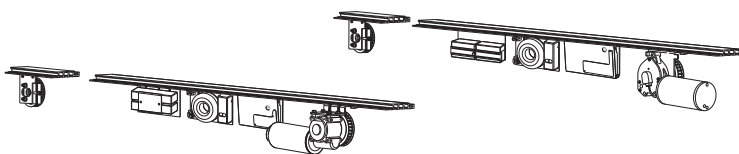
and batteries ready-assembled.

To complete an automation you will need the following: the "L" beam (of convenient length), the hardware kit; the toothed belt and the cover.

	DESCRIPTION	Beam		Passage span	
		MIN.	MAX.	MIN.	MAX.
	Module Wing NK L=1100 mm	1810	6010	850	2950
	Module SLIM SNK L=1100 mm	1810	5410	850	2650

Modules WING NK / SLIM SNK

Configuration



The WING NK and SLIM SNK modules consists of a module profile L=1100 mm complete with the pre-assembled components: control unit, power supply unit, motor with encoder, emergency batteries.

The Modules pack also includes an idle pulley and two side flanges.

AVAILABLE NK MODULES AND COMPULSORY AND OPTIONAL COMPONENTS

DESCRIPTION	CODE	EURO
 Module WING NK L=1100 mm	42902/003	1.351,50
 Module SLIM SNK L=1100 mm	42900/002	1.128,00
 L shaped beam* with anodized silver finish L=7000 mm L shaped beam* with anodized black finish L=7000 mm	42910/006 42910/007	63,00/m 69,50/m
 Cover* with natural finish L=7000 mm Cover* with silver finish L=7000 mm Cover* with black finish L=7000 mm	42000/010 42000/001 42000/006	29,00/m 35,50/m 40,50/m
 Drive belt for modules L=1100 (in pack of 55 m) Thoted belt 7 m / RR	42280/068 42710/100	666,50 177,00
 Sound-proofing gasket for cover (pack of 300 m) Sound-proofing gasket for cover (pack of 1 m) (not included in the module cod. 42902/003 and cod. 42900/002)	42280/056 42280/098	136,00 3,50
Hardware Kit for SLIM SNK and WING NK modules The kit consists of all the mechanical components needed to assembly the automation and includes: carriage units, connection plates, mechanical stop plates and a pack of nuts/bolts/screws.	Single Wing 42902/053 Double Wing 42902/051	116,50 162,00
Hardware Kit for WING NK H150 The kit consists of all the mechanical components needed to assembly and includes: carriage units, connection plates, mechanical stop plates and a pack of nuts/bolts/screws.	Single Wing 42902/054 Double Wing 42902/055	173,50 240,00
 NK 250 accessory mounting profile. Every accessories requires one NK 250 mm profile.	42902/056	18,00

* All profiles are supplied in lengths of 7 m which cannot be split. Prices and codes are per metre.

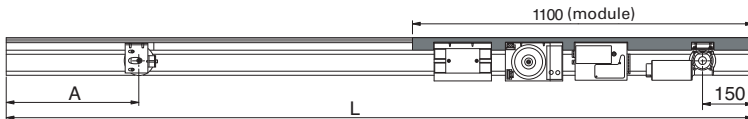


MODULES SOLUTIONS

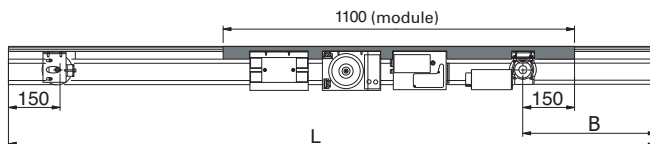
EXAMPLES OF AUTOMATION DIMENSIONING

MODULES WING NK - WING NK H150

**Modules WING NK / NK H150:
RH single wing and double wing**



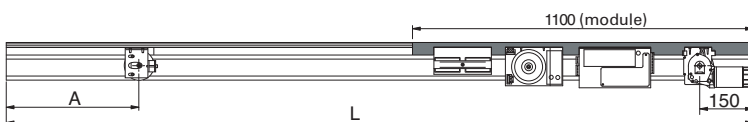
**Modules WING NK / NK H150:
LH single wing**



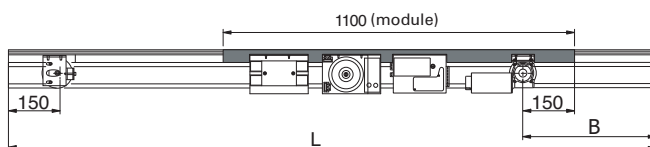
"L" (mm)	"A" (mm)	"B" (mm)
1800	300	300
2000	350	350
2400	450	450
2500	475	475
2800	550	550
3000	600	600
3200	650	650
3600	750	750
4000	850	850
4400	950	950
4800	1050	1050
5400	1200	1200
6000	1350	1350

MODULE SLIM SNK

**Module SLIM SNK:
RH single wing and double wing**



**Module SLIM SNK:
LH single wing**



"L" (mm)	"A" (mm)	"B" (mm)
1800	275	300
2000	325	350
2400	425	450
2500	450	475
2800	525	550
3000	575	600
3200	625	650
3600	725	750
4000	825	850
4400	925	950
4800	1025	1050
5400	1175	1200



KIT UPGRADE WING NK

The **Upgrade KIT** allows all Aprimatic automatic door customers (Wing and Wing Evo series) to replace the basic components to adapt the "old" system to the new performance levels of the new WING NK series automation. The mechanical operations required for the replacement are extremely simple (the same bolts and component measurements are used) while the electronic operations are even simpler: just disconnect the old control unit and the peripheral units from the terminals and insert the new control unit. Once it is powered up, the new Wing NK control board will do all the rest: the new HIGH-TECH software requires no manual operations and will automatically learn all the regulations required (such as the various weights) and will calibrate itself as efficiently as possible.



Application range:

The WING NK Upgrade Kit is only for: Aprimatic WING and WING EVO automatic doors on catalogue from year 2003.



DESCRIPTION	CODE	EURO
KIT UPGRADE WING NK	42902/052	916,00
The pack includes: motor unit; Wing NK control unit; idle pulley and fixing screws		



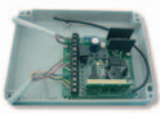



TECHNICAL DATA	
Automation Power Supply	230 Vac single-phase (+/- 10%) -50/60 Hz
Motor Power Supply	24 Vdc
Temperature	-10°/+60°C
Battery Charger	Built into Wing NK control unit
Automatic Diagnostics	Several types of buzzer alarms
Communication port	Serial RS 232 standard
Adjustable parameters:	Approach speed during opening and closing Door open pause time Thrust force Electric lock intervention delay Partial opening percentage Master/Slave Emergency Opening Photocells used Settings for tampering, emergency, electric lock and power failure





CONTROL AND SAFETY DEVICE

Aprimatic control devices have a stylish, functional design.
 The key selector units can be used to set and select 6 operating modes for automatic sliding doors.
 The SC6EC and SC6 WIRELESS key selector units can be installed wall-mounted or recessed, flush fitting in a standard 503 electrical box.
 The Reset pushbutton on the key selector unit is small and recessed to prevent accidental operation.



DESCRIPTION	CODE	EURO
 <p>SC6 WIRELESS - 6-way key selector unit for setting standard functions, it operates by radio waves with a frequency of 433.92 Mhz, installation: wall-mounted or recessed, flush 503 box, only work with PLUS SC6 WIRELESS receiver</p>	42282/078	101,00
 <p>SC6EC - 6-way key selector unit for setting standard function, installation: wall-mounted or recessed, flush 503 box, 4-metre cable complete with connector</p>	42282/073	95,00
 <p>PLUS SC6 WIRELESS RECEIVER - Installation on NK beams requires the NK 250 mm accessory profile, only works with SC6 WIRELESS key selector, or with TR2 or TR4 transmitter</p>	41923/007	103,00
 <p>SC6 - 6-way key selector unit for setting standard functions installation: wall-mounted - 4-metre cable complete with connector</p>	42282/070	71,50
 <p>TR2 - 433.92 Mhz twin channel transmitter</p>	41903/002	31,00
 <p>TR4 - 433.92 Mhz four channel transmitter</p>	41903/004	33,00

PHOTOCELLS

DESCRIPTION	CODE	EURO
 <p>ER6/N - Self-aligning, miniaturized, modulated infrared photocells Range of 6 metres at full power and 3 metres at half power, unit consists of: amplifier card for two pairs of photocells self-test function (fault signal relay output) and twin relay output with series contacts, pair of transmitter / receiver photocells complete with 8-metre shielded cable, fittings for assembly on aluminium support, installation on NK beams requires the NK 250 accessory profile</p>	42300/007	123,00
ER6/N Prem. - Pair of photocells pre-assembled and mounted (only for Twin model)	42300/001	147,50
ER6/N Premounted NK (only for NK series)	42300/002	165,00
 <p>Kit of extra ER6/N photocells</p>	42300/006	34,00

Note: If you require the ER6N photocells pre-assembled and mounted on the beam, tick the box on the order form.



CONTROL AND SAFETY DEVICE

RADAR

This range of radar units incorporates all the most commonly used methods for automatic door control units, i.e. microwave, active infrared and passive infrared.

DESCRIPTION	CODE	EURO
 DM-H21 - Uni directional door activation sensor (microwave technology) DM-H22 - Bi directional door sensor (microwave technology)	42282/093 42282/090	208,50 173,50
 RI-H5 - Medium range combined door activation and safety sensor with 4 rows of detection (active infrared technology)	42282/092	200,00
 RI-H3 SAFE - Side screen or door threshold safety sensor with 1 row of presence detection (active infrared technology)	42282/095	199,00
 RI-H3 ACTI - Long range door activation sensor with 2 rows of detection (active infrared technology)	42282/094	168,00
 DM82 - Mixed microwave/infrared radar	42282/064	412,00
 DM-H82 - Long range dual relay output combined door activation and safety sensor, separate adjustment of activation and safety detection zones possible (active infrared technology)	42282/091	404,00
 RSH - Door leaf mounted swing door safety sensor, (active infrared distance measurement technology)	42282/096	324,50
 TLHC - Illuminated touchless switch with a diameter of 100 mm and detection distance of up to 100 mm (capacitance technology)	42282/098	150,50
 TLHI - Touchless wall mounting switch (dim. 70x114x32 mm) with detection distance of up to 760 mm (active infrared technology)	42282/099	273,00
 PBH - Hardwired stainless steel (dim.115x115x44 mm)	42282/097	135,50

TECHNICAL DATA	DM-H21 / DM-H22	DM-H82	DM82	RI-H5	RI-H3 Acti/RI-H3 Safe	RS-H
Technology	Microwave	Infrared	Microwave Infrared	Active infrared	Active infrared	Active infrared
Installation height	4 m max.	2,7 m max.	Da 1,8 a 4 m max.	3 m max.	3 m max.	2,6 m max.
Detection mode	Movement and movement	Presence and movement	Presence and movement	Presence and movement	Presence	Presence
Power supply	12-36 Vac +/-10% (DM-H21) 12-30 Vdc +/-10% (DM-H22)	12-24 Vac 12-24 Vdc	12 V +/-5%	12-32 Vac +/-10% 12-32 Vdc +/-10%	12-32 Vac +/-10% 12-32 Vdc +/-10%	12-24 Vac/dc +/-10%
Consumption	< 1 W (a 24 V)	1,45 W (a 24 V)	< 3 W (a 24 V)	1,45 W (a 24 V)	1,45 W (a 24 V)	< 1 W (a 24 V)
Temperature range	-20°C +60°C	-20°C +60°C	-20°C +60°C	-20°C +60°C	-20°C +60°C	-20°C +60°C
Dimensions (LxPxH)	123 x 57 x 65	230 x 44 x 70	260 x 44 x 55	210 x 65 x 30	210 x 65 x 30	340 x 47 x 47
Cable	Yes	Yes	Yes	Yes	Yes	-




ACCESSORIES FOR INSTALLATIONS

EMERGENCY PUSHBOTTOM

The PE ensures that a door can be opened whenever necessary. The PE is an highly-visible, red mushroom-head pushbutton with a twist-to-release action.







Emergency door opening is controlled from the electronic control device and can be set for opening or closing as required.

DESCRIPTION	CODE	EURO
 PE - Red mushroom-head emergency pushbutton with twist-to-release action	42282/082	41,50

ELECTRIC LOCK AND MANUAL RELEASE UNITS


The electric lock has been designed specifically for locking sliding wings. It is supplied complete with a diagnostics card. The system is not electrically powered when it is in the open or closed position. The EB2 electrical lock can be fitted (on request) with me-

chanical release systems which is used to release the lock in the event of an operating fault, a mains power failure or a backup battery failure. An external release drive is also available. This is mounted inside a recessed, wall-mounted, lockable box to protect against unauthorised operation.

DESCRIPTION	CODE	EURO
 EB2 - Electric lock for LH and RH doors, controlled from an electronic card, dalla scheda elettronica, completo di cavi da 0,9 m - 1,5 m - 2,5 m, installazione su travi Nk mediante profilo NK 250 mm	42282/076	158,00
EB2 Prem (for Twin)	42282/074	158,00
 EB2 NK Prem (for Slim SNK, Wing NK, Wing NK H150)	42282/077	176,50
 SME - Mechanical release system for EB2 electric lock, for use in the event of faults or power supply failures	42280/084	57,00
 Box for external release drive complete with cable 5 m	42280/085	110,50
 CS - External strong box	41704/002	64,00
 CSP - Wall-mounted external strong box	41704/004	53,00

NOTE: If you require the EB2 electric lock unit pre-assembled and mounted on the beam, tick the box on the order form. There is no extra charge for pre-assembly.

NS 48


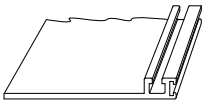
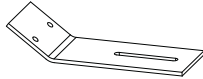

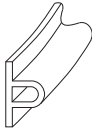
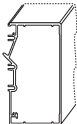
DESCRIPTION	CODE	EURO
 NS48 (battery units are pre-assembled on automation, except for the TWIN model doors) Battery unit (the charging and diagnostic functions are incorporated in the door control device), the units has two functions: 1) Emergency electrical opener 2) Backup battery (autonomy of 1 hour, half-charged)	42282/075	112,50

For Twin series automation only. If you require the NS48 battery unit pre-assembled and mounted on the beam, tick the box on the order form. There is no extra charge for pre-assembly. The automation units are supplied with a battery unit as standard, except for the Twin model Doors.



ACCESSORIES FOR LEAF INSTALLATION

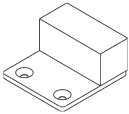
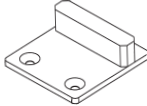
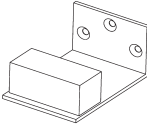
BEAM AND COVER OPTIONAL ACCESSORIES

DESCRIPTION	CODE	EURO	
	Telescopic cover* with natural finish L=7000 mm	42910/008	11,50/m
	Telescopic cover* with silver finish L=7000 mm	42910/009	18,00/m
	Telescopic cover* with black finish L=7000 mm	42910/010	23,00/m
	Telescopic cover* with natural finish L=7000 mm	42000/011	10,50/m
	Telescopic cover* with silver finish L=7000 mm	42000/002	16,50/m
	Telescopic cover* with black finish L=7000 mm	42000/007	22,00/m
	Cover fixing bracket, in pack of 10 pcs	42280/067	36,50
	Cover fixing bracket, in pack of 100 pcs	42280/066	312,50
	Rear profile* with silver finish L=7000 mm	42910/003	43,50/m
	Sound-proofing gasket for rear profile (pack of 300 m)	42280/060	180,50
	Sound-proofing gasket for rear profile (pack of 1 m)	42280/061	3,50
	Beam* for mounting automation units L=7000 mm (also complete automations)	42910/001	57,00/m

* All profiles are supplied in lengths off 7m wich cannot be split. Prices and codes are per metre.

ACCESSORIES FOR WINGS WITH ALUMINIUM PROFILE FRAMES

Floor guides and guides for fitting between the fast and slow mobile wings on Twin units.
Used for fixing the mobile wings.

DESCRIPTION	CODE	EURO	
	SPT - Floor guide set for wing with Large profile frame (Can be used with other types of aluminium profile) Compatible with NS 100 sistem	42201/051	9,50
	SPS - Floor guide set for wing with Small profile frame (Can be used with other types of aluminium profile) Compatible with NS 100 sistem	42200/050	12,50
	SPM - Floor guide set for connecting two mobile wings on telescopic automatic doors (Twin) Compatible with NS 100 sistem	42280/082	18,00



ACCESSORIES FOR LEAF INSTALLATION

ACCESSORIES FOR GLASS WINGS

Fitting to be used for the assembly of glass-only wings (i.e. those without aluminium frames).
New system with cuts assembly work to the minimum and facilitates working with glass panels.

DESCRIPTION	CODE	EURO
<p>PCR - Clamps for glass doors (3 m raw profile) For glass 10 mm tempered, max leaf weight 80 kg max leaf width 1500 mm</p>	42281/061	216,00
<p>Set of fitting for mounting glass wings</p>	42281/062	54,80
<p>Additional reinforcement bracket (nr. 1 pc) 1 pc for leaf length 900/1200 mm 2 pc for leaf length 1200/1500 mm</p>	42281/063	17,30
<p>Cap for PCR (nr. 1 pc)</p>	42281/064	7,20/pc
<p>GTC - Floor guide set for glass wings</p>	42280/079	6,50

UNIVERSAL ACCESSORIES FOR ALL TYPES OF WINGS

Accessories for rapidly fixing new or existing mobile wings to the carriages of APRIMATIC automatic doors.

DESCRIPTION	CODE	EURO
<p>15 mm 50 mm 15 mm</p> <p>PDA - Aluminium adapted profile (L=1500 mm) for one wing, for joining the carriages to the framed wing (standard on theTWIN series), requires the attachment plates</p>	42280/077	31,00
<p>CPA - Set of 2 attachment plates for on wing, complete with fixing screws (standard on theTWIN series)</p>	42280/071	7,50
<p>Set of fixing screws for a small wing, the set of fixing screws contains all the screws and fittings needed to fix the door wing to the automation carriage</p>	42200/052	4,50



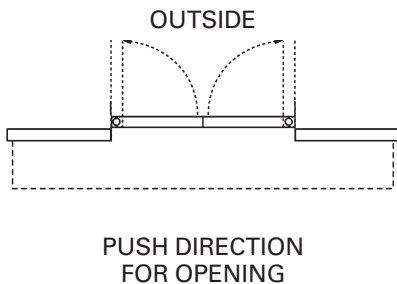
EMERGENCY DOOR OPENER

ASM-N mechanical emergency door opener system (full or partial).

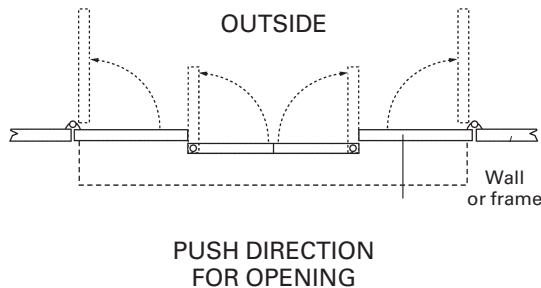
The ASM-N mechanical emergency door opener system is a safety device enabling mobile and semi-fixed wings of all types to be opened mechanically in the event of an emergency. Certificate by the Giordano S.p.A. Institute with n. 171823 for large profile only.



PARTIAL EMERGENCY OPENING



FULL EMERGENCY OPENING

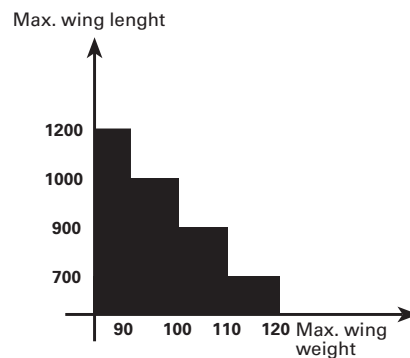


IMPORTANT:
Configurations where mobile wings equipped with ASM are joined to semi-fixed wings also equipped with emergency openers (full emergency opening).
On these configurations you must fix the wings using the fittings supplied in the special set (OPTIONAL).
New - The spinning point for mobile wing and semi-fixed wing is located inside the profile.
The set of fittings for semi-fixed wing are non visible and located inside the covering profile.

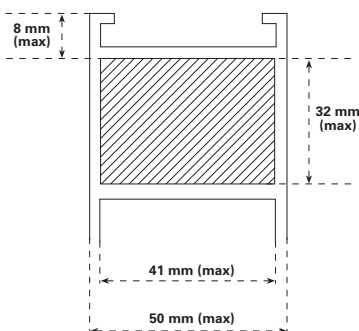
The ASM-N mechanical emergency opener system can be used on wings with a maximum width of 1200 mm and max. weight of 90 kg; and on wings with a minimal width of 700 mm and max. weight of 1200 kg (according to the table below).

Wing length in mm	700	900	1000	1200
Max.wing weight*kg	120	110	100	90
ASM-N weight	7 kg			

*Total weight including ASM-N



The ASM-N can be used with the following types of profiles:



PROFILES COMPATIBLE WITH ASM-N (NOT CERTIFIED)

- Domalstopper PG
- Formula F40 system
- Metra NC 45 International
- Metra NC 55 International
- R50
- Large Profile APRIMATIC*

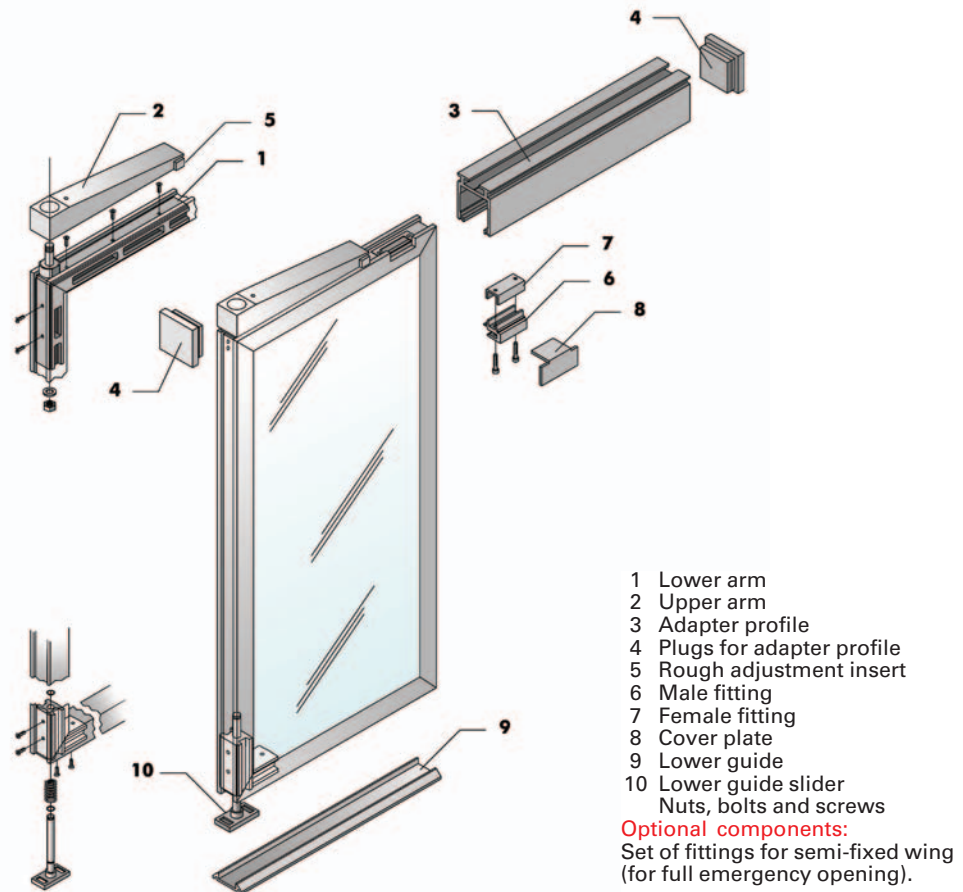
If you cannot use the compatible profiles listed above, ensure that the profiles you use have the dimensions indicated above.

* For instructions on machining the "Large" profiles, request the cutting list.



EMERGENCY DOOR OPENER

EMERGENCY DOOR OPENER



MECHANICAL EMERGENCY DOOR OPENER

DESCRIPTION	CODE	EURO
(*) Mechanical emergency door opener set for 1 mobile wing, device weight 7 kg	42280/088	283,50
(*) Guide (L=1500 mm) and adapter (L=1200 mm)	42280/081	65,00
Set of fittings for 1 semi-fixed wing	42280/070	27,00

NOTE: You should include the weight of the emergency opener when calculating the wing weight.
 Max. wing weight = 90 kg for a length of 1200 mm, including the emergency opener system (7 kg).
 (*) Both required for installation.

MECHANICAL EMERGENCY DOOR OPENER ACCESSORIES

Accessories used to stop wing movement in the event of emergency opening.

DESCRIPTION OPTIONAL ACCESSORIES	CODE	EURO
SMI - Magnetic lock sensor, recess mounted, to be connected as a N.C. contact in series with the reset button, on full emergency opening systems, to be fitted on all semi-fixed wing	42280/076	8,50
SMS - Magnetic lock sensor, surface mounted, to be connected as a N.C. contact in series with the reset button, on full emergency opening systems, to be fitted on all semi-fixed wing	42280/075	8,50
ER6/N - Pair of photocells	42300/007	123,00

NOTE: For technical details about the ER6N photocells, (see the page "Electronic control devices").



SMALL PROFILE

Profiles for automatic doors suitable for glazing 10/11 mm thick.

"SMALL" series profiles can be used to make the wings for automatic sliding doors.

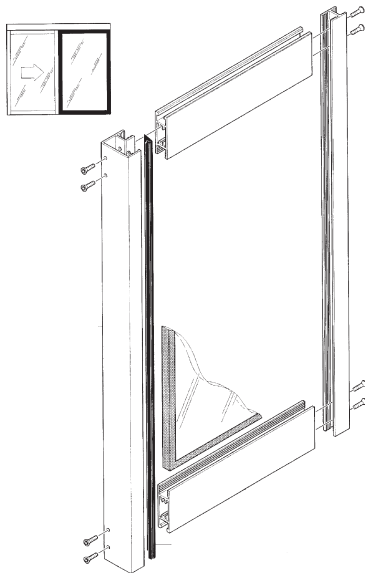
This profile has been designed and manufactured specifically for making mobile wings, fixed side wings and semi-fixed side wings.

The outstanding feature of this profile is its compactness. Despite its compact size it can take glazing up to 10 mm thick. Using the special profile, "Small" can also be fitted with a mechanical emergency wing opener.

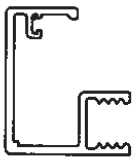
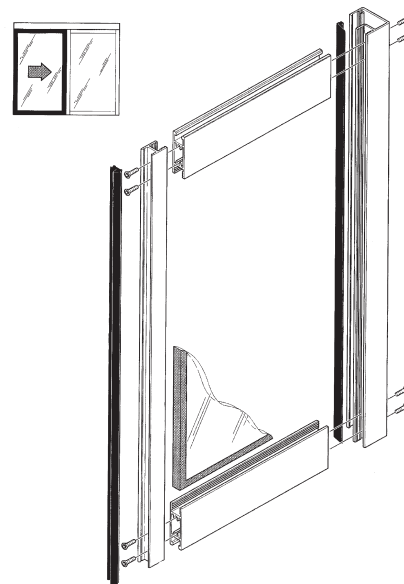


AN EXAMPLE OF ONE OF THE POSSIBLE CONFIGURATIONS

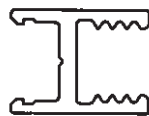
FIXED WING



MOBILE WING



FIXED/MOBILE WING UPRIGHT



CENTRAL UPRIGHT



TOP AND BOTTOM RAIL



SINGLE WING STOP



CENTRAL SEAL



DRAUGHT-PROOF SEAL


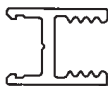




SIDE SEAL





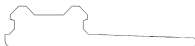
SMALL PROFILE

"SMALL" SERIES PROFILES

DESCRIPTION		CODE	EURO
	"Small" mobile/fixed wing upright (srm)	42200/012	60,00
	"Small" central upright (L = 5050)	42200/013	32,00
	"Small" top and bottom rail (L = 5050)	42200/014	74,50
	"Small" single wing stop (L = 5050)	42200/015	19,00

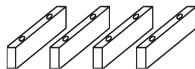
NOTE: All aluminium profiles are supplied non-anodized in lengths of 5050 mm.

SEALS

DESCRIPTION		CODE	EURO
	"Small" central seal (pack of 100 m)	42200/016	4,50/m
	Draught-proof seal (pack of 1 m)	42281/060	3,50/m
	"Small" side seal (pack of 80 m)	42200/054	6,50/m
	Adesive seal for fitting glazing to "Small" profiles (pack of 50 m / h 5 cm)	42200/055	57,00

NOTE: All the seals necessary for wing assembly are can be purchased to size in multiples of 1 metre. This does not apply to adhesive seals; these are sold exclusively in packs of 50 metres.

FITTING ACCESSORIES

DESCRIPTION		CODE	EURO
	Pack of screws for "Small" wing, this "Pack of screws" is required to assemble the profiles of an automatic door	42200/053	4,50
	Pack of inserts for assembling a fixed wing with "Small" profile	42200/051	21,00

NOTE: For the fittings used to attach the mobile wing to the carriage and for the floor guide to be used with Small profiles, see the catalogue on page 26 (SPM and Floor guide set for wing with Small profile frame).



LARGE PROFILE

Profiles for automatic doors suitable for safety glazing 10/11 mm and double glazing up to 20 mm.

“LARGE” series profiles can be used to make the wings for automatic sliding doors.

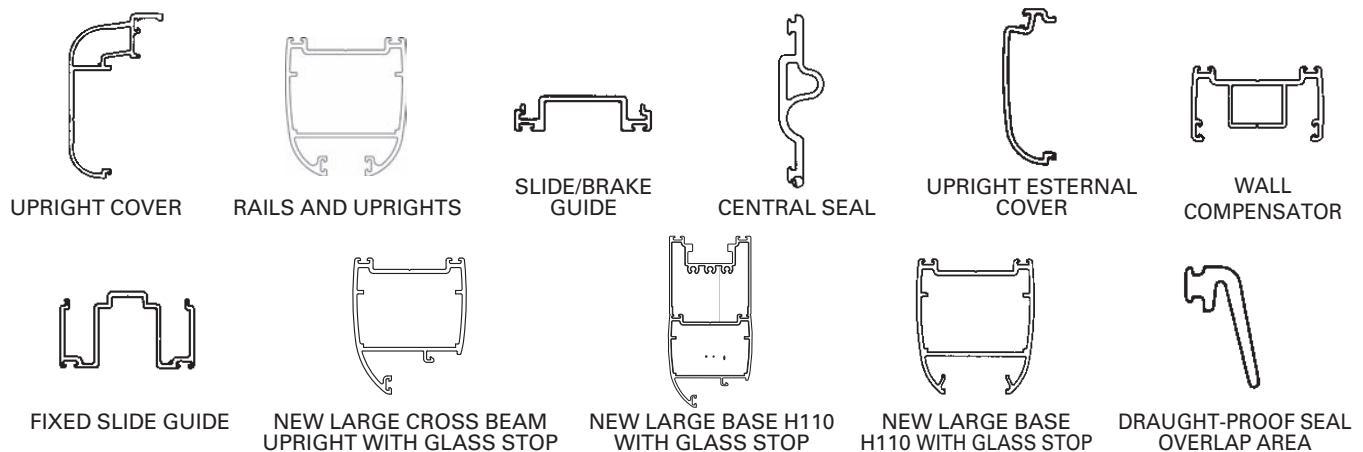
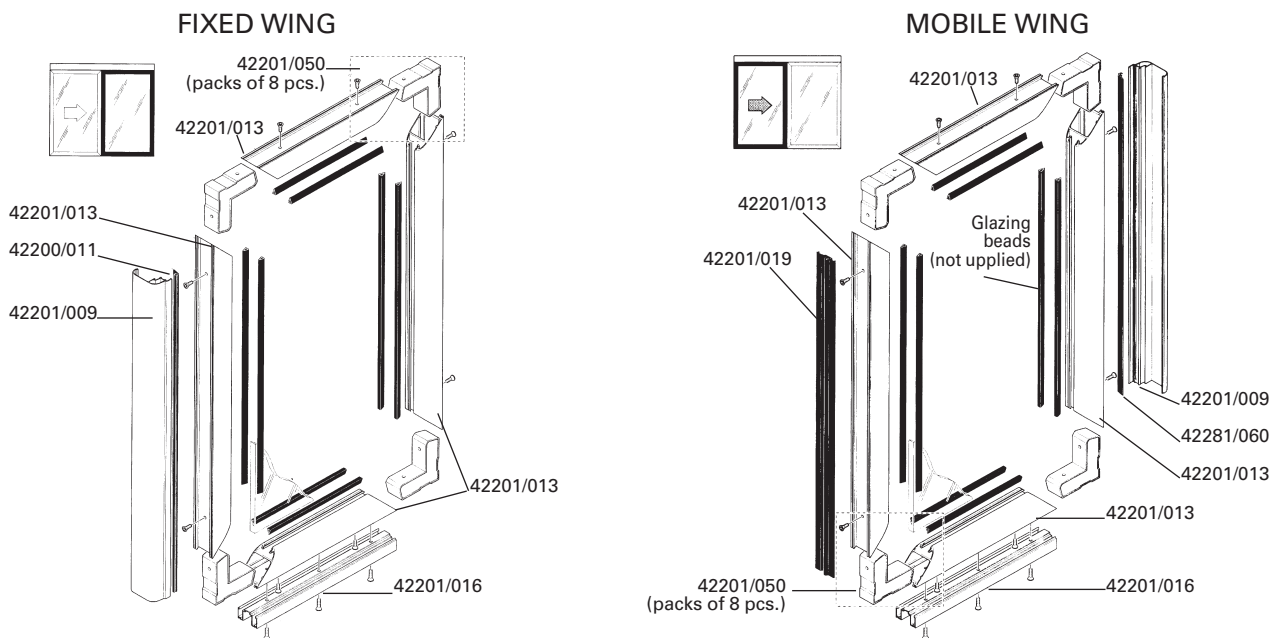
This profile has been designed and manufactured specifically for making mobile wings, fixed side wings and semi-fixed side wings. This is a medium-sized profile and can hold 10/11 mm safety glazing and double glazing up to 20 mm.

With “LARGE” series profile it is possible to install the mechanical emergency door opening system (AMS-N).

This system is studied to facilitate and simplify the operation of accessories and antipanic system installation.



AN EXAMPLE OF ONE OF THE POSSIBLE CONFIGURATIONS





LARGE PROFILE

"LARGE" SERIES PROFILES

DESCRIPTION		CODE	EURO
	"Large" upright cover (L = 5050)	42201/009	57,00
	"Large" rails/uprights (L = 5050)	42201/013	83,50
	"Large" Slide/Brake guide (L = 5050)	42201/014	31,00
	"Large" wall-mounted compensator (L = 5050)	42201/015	65,00
	"Large" fixed slide guide (L = 5050)	42201/016	43,50
	"Large" rails/uprights for double glazing (L = 5050)	42201/017	98,00
	"Large" upright external cover (L = 5050)	42201/018	27,00
	New large crossbeam upright with glass stop (L = 5050)	42201/001	74,50
	New large base (H.110) with glazing bead	42201/012	85,50
	New glazing bead (L = 5050)	42201/002	16,50

NOTE: All aluminium profile are supplied non-anodized in lengths of 5050 mm.

SEALS

DESCRIPTION		CODE	EURO
	"Large" central seal	42201/019	6,50/m
	Draught-proof seal overlap area	42281/060	3,50/m
	Internal seal for glazing bead (pack of 200 m)	42281/055	2,50/m
	External seal for glazing bead (pack of 25 m)	42281/056	2,50/m

NOTE: All the seals necessary for wing assembly can be purchased to size in multiples of 1 metres.

FITTING ACCESSORIES

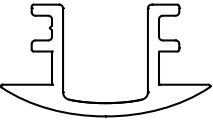
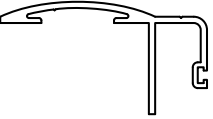
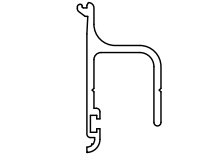
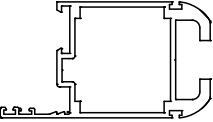
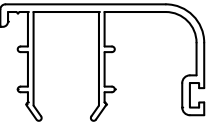
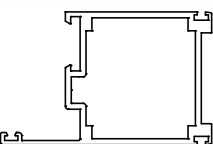
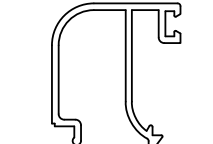
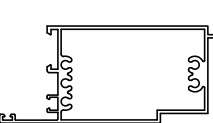
DESCRIPTION		CODE	EURO
Draught-proofing brush (pack of 20 m)		42281/057	2,50/m
Corner plates (including fixing screws) in pack of 8 pcs.		42201/050	46,50
Set hinges 1 semi-fixed wing profile H.110		42281/058	214,50
Set hinges 1 semi-fixed wing profile standard		42281/059	206,00



MODULAR PROFILE

Profiles for automatic doors of 9/13 mm and 20/23 mm.


You can create the wings of your automatic sliding door by using the “MODULAR” series special profile. The profile has been specially designed for mobile and fixed wings, with or without mechanical emergency door opening system (AMS), as it perfectly fits glass wings and curtain walling, providing a comprehensive range of solutions. Thanks to their modularity, it is possible to obtain high visual impact finishes. The “MODULAR” profiles complete the range of extruded profiles for wings, thus providing solutions to meet any needs.

DESCRIPTION	CODE	EURO
 Upright cover (L = 5050)	42205/001	19,50
 Wing mounting profile without fixed slide guide (L = 5050)	42205/002	44,50
 Mobile wing mounting profile + fixed slide guide (L = 5050)	42205/003	32,00
 Upright profile (L = 5050)	42205/004	112,50
 Photoelectric cells profile (L = 5050)	42205/005	28,00
 Upper frame (L = 5050)	42205/006	85,50
 Snap-type rounded glass beading (L 23) (L = 6500)	42205/007	26,00
 Lower additional transom (L = 6500)	42205/008	127,00



MODULAR PROFILE

Profiles for automatic doors of 9/13 mm and 20/23 mm.

DESCRIPTION	CODE	EURO
 <p>Horizontal transom (L = 6500)</p>	42205/009	178,00
 <p>Lower transom 160 mm (L = 6500)</p>	42205/010	186,50
 <p>Snap-type rounded glass beading (L13) (L = 6500)</p>	42205/011	22,00
 <p>Vertical wall-mounted compensator (L = 6500)</p>	42205/012	49,50
 <p>"L" oversized fixed frame (L = 6500)</p>	42205/015	90,00
 <p>"R" oversized fixed frame (L = 6500)</p>	42205/016	101,00
 <p>External opening oversized wing (L = 6500)</p>	42205/017	101,00
 <p>Blind glass beading (L = 6500)</p>	42205/019	27,00



MODULAR PROFILE

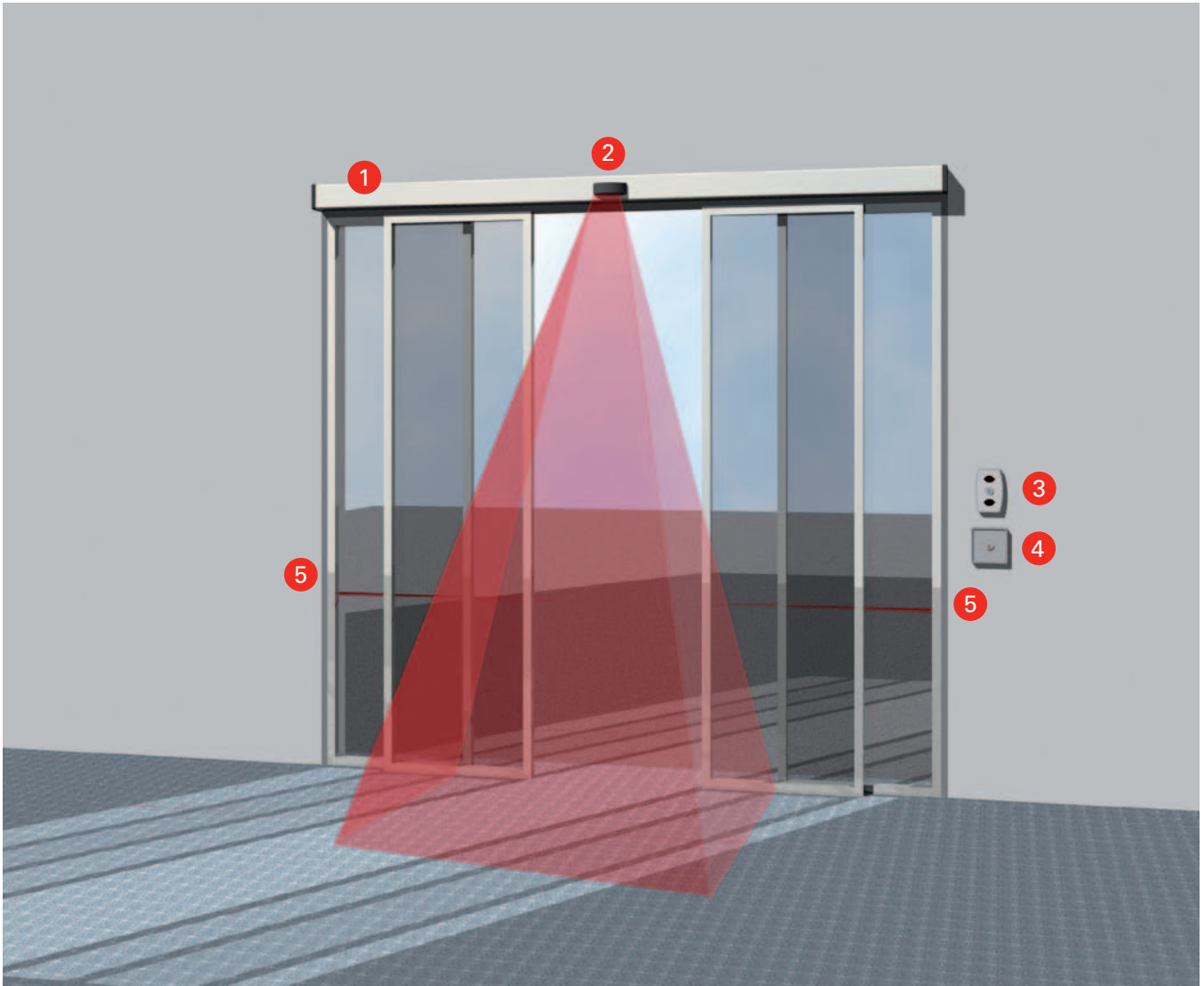
Profiles for automatic doors of 9/13 mm and 20/23 mm.

DESCRIPTION	CODE	EURO
Black comb hinge 2.0 (10 pcs pack)	42205/050	148,50
Alumium brush seal 2,5 m	42205/051	24,00
Brush 38 x 33 x 2500 mm	42205/052	29,00
Angle for glass beading (160 pcs pack)	42205/053	367,00
Aluminium T-joint (150 pcs pack)	42205/055	115,50
Bracket bolt (10 pcs pack)	42205/056	562,50
 Glass beading seal A = 3 mm (250 m)	42205/057	241,00
 Glass beading seal B = 2 mm (350 m)	42205/058	262,00
 Glass beading seal D = 5:6 mm (120 m)	42205/059	235,00
 Glass beading seal F = 3 mm (180 m)	42205/060	244,00
 Central seal (100 m)	42205/061	319,50



MODULAR PROFILE

Profiles for automatic doors of 9/13 mm and 20/23 mm.



- 1 Door automation
- 2 Radar
- 3 Manual key release
- 4 Control device: key selector / proximity sensor access control / electronic key-pad / tamper-proof card / magnetic key reader
- 5 Pair of photocells



NUT

Automation for interior recessed sliding doors of up to max 50 kg (max. door width 1200 mm) for light duty use (1 cycle/min).



NUT is practical because it can be fitted to doors that have already been installed without the need for large-scale structural modifications or other building work. Nut has a simple and refined design and is covered with an elegant guard. The look of the door is left unaltered thanks to a slender, compact operator.

NUT is very safe thanks to the auto-reverse sensor which detects obstacles and immediately inverts the direction of door movement.

NUT is an intelligent system thanks to the self-teach function which is actuated during the first opening cycle. This enables the approach speed of the door to be reduced during opening and closing.

In the event of a power failure, the door can be opened manually without causing damage to the operator. Automatic functioning is reset automatically when the power supply returns. NUT uses the standard microwave radar (DM-H22) or push button control devices. The unit has a single motor to drive both left-hand and right-hand opening; a switch sets the motor rotation direction. A standard, commercial operating switch is supplied.



TECHNICAL DATA	
POWER SUPPLY	230 Vca (+/- 10%) - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ACCESSORY POWER SUPPLY	24 Vdc
THRUST	35 N
SPEED	0,35 m/s (opening) 0,22 m/s (closing)
MAX. WING WEIGHT	50 kg
MAX. WING WIDTH	1200 mm
MIN. WING WIDTH	600 mm
CONTROL CARD	Microprocessor control card with two-channel optical encoder opening stroke self-teaching and auto-reverse on detection of obstacles



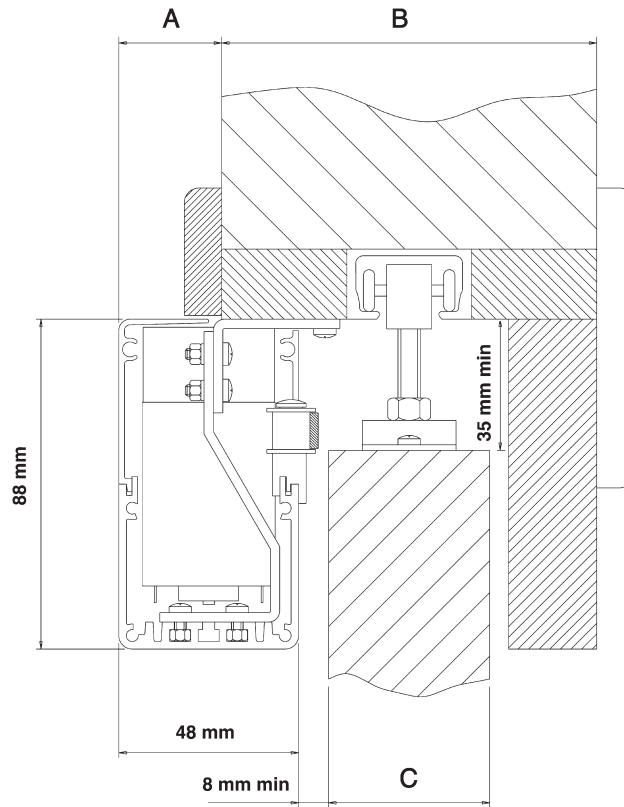
DM-H22 - Bi directional door sensor (microwave technology).





NUT

DIMENSIONS



DESCRIPTION INTERNAL RECESSED SLIDING DOOR AUTOMATION

NUT

The NUT system includes:

1 sliding door automation system, 1 set of control accessories comprising,
1 single pole switch, 1 single pole push-button, 1 masonry box, 1 two block white plate,
RH or LH opening selector switch

CODE

42601/004

EURO

546,00

ACCESSORIES DESCRIPTION

DM-H22 - Bi directional door sensor (microwave technology)

42282/090

173,50

PBH - Hardwired stainless steel switch (dim.115x115x44 mm)

42282/097

135,50

TLHC - Illuminated touchless switch with a diameter of 100 mm and detection distance of up to 100 mm (Capacitance technology)

42282/098

150,50

TLHI - Touchless wall mounting switch (dim.70x114x32 mm) with detection distance of up to 760 mm (Active infrared technology)

42282/099

273,00



OVER

Automation for interior side-hung doors
of maximum weight: 80 kg (max. wing width 1200 mm).
Intensive use.



The **LOW POWER** mode enables the operator to function at slower speed. This is a very useful function when the door is used by disabled people.

Maximum safety conditions are ensured by the numerous functions of OVER.

The **OBSTACLE DETECTION** function, available thanks to the encoder, stops the door and/or reverses the movement direction when an obstacle is detected.

The **OVER operator** reduction gear includes a patented mechanical clutch enabling the operator to open the door without any damage to mechanical components if the door is subject to violent impact.

The **PUSH&GO function** enables OVER to recognise when the door is pushed by hand and therefore allow door opening.

The **automation is flexible and self-sufficient** in that can operate also without a selector thanks to specific base settings which can be modified using the dip switches on the control board.

Furthermore the optional KIBO/KIBOPRO digital selector/programmer or a PC can be used to set all parameters required for specific applications.

TECHNICAL DATA

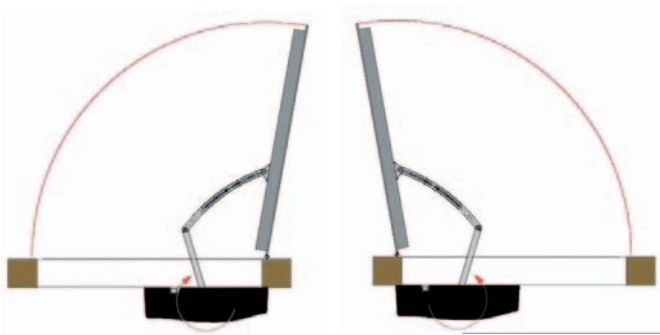
POWER SUPPLY	230 Vca (+/- 10%) - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ACCESSORY POWER SUPPLY	12 Vdc - 2,5 W max.
THRUST	35 Nm
MAX. WING WEIGHT	80 kg with L=700/1000 mm
MOTOR POWER	60 W
MAX. WING WIDTH	L=1200 mm with 80 kg
OPERATING FREQUENCY	Continuous
AUTOMATION WEIGHT	6,7 kg
MAX. OPENING ANGLE	100° max.
OBSTACLE DETECTION	YES
EMERGENCY BATTERY	12 V - 1,3 Ah





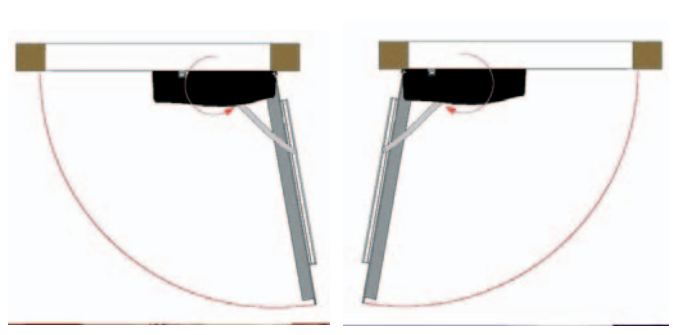
OVER

ARTICULATED ARM



Use the ARTICULATED ARM for doors that open outwards from the automation side.

SLIDING ARM



Use the SLIDING ARM for doors that open inwards from the automation side.

DRIVE SYSTEM FOR INTERNAL SIDE-HUNG DOORS

OVER (gray cover), fitted with dedicated input for safety devices, back-up battery fitted as standar

CODE

42602/001

EURO

737,50

OVER (black cover), fitted with dedicated input for safety devices, back-up battery fitted as standard

42602/002

737,50

OBLIGATORY CONTROL ACCESSORIES

Articulated arm: (Silver color)

If necessary to open a side-hung door from the opposite side to the automation

CODE

42602/050

EURO

95,00

Sliding arm: (Silver color)

If necessary to open a side-hung door from the same side as the automation

42602/051

70,50

ACCESSORIES DESCRIPTION

Adapter plate OVER (optional)

CODE

42602/053

EURO

72,50

433,92 Mhz Radio receiver Moxel 12V

41923/008

64,00

RSH - Door leaf mounted swing door safety sensor (active infrared distance measurement technology)

42282/096

324,50

RADAR:

DM-H21 - Uni directional door activation sensor (microwave technology)

42282/093

208,50

DM-H22 - Bi directional door sensor (microwave technology)

42282/090

173,50

RI-H3 Acti - Long range door activation sensor with 2 rows of detection (active infrared technology)

42282/094

168,00

Kibo - Basic selector

42602/052

106,50

Kibo Pro - Professional selector

42602/053

238,00

NOTE: For other control and safety devices see page 206

KIBO

Select the operation logics of the door and reset the system.



KIBO PRO

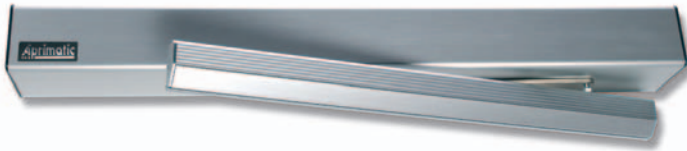
Select the operation logics of the door and reset the system.
Set many types of parameters.
Set a password to protect the system.
Setup of 4 daily events.
Diagnostic and service functions.





OVER PLUS

Automation for interior side-hung doors
of maximum weight: 200 kg (max. wing width 1200 mm).
Continuous use.



The **LOW POWER** mode enables the operator to function at slower speed. This is a very useful function when the door is used by disabled people.

Maximum safety conditions are ensured by the numerous functions of OVER PLUS.

The **OBSTACLE DETECTION** function, available thanks to the encoder, stops the door and/or reverses the movement direction when an obstacle is detected.

The **OVER PLUS operator** reduction gear includes a patented mechanical clutch enabling the operator to open the door without any damage to mechanical components if the door is subject to violent impact.

The **PUSH&GO function** enables OVER PLUS to recognise when the door is pushed by hand and therefore allow door opening.

The **automation is flexible and self-sufficient** in that can operate also without a selector thanks to specific base settings which can be modified using the dip switches on the control board.

Furthermore the optional KIBO/KIBOPRO digital selector/programmer or a PC can be used to set all parameters required for specific applications.

TECHNICAL DATA

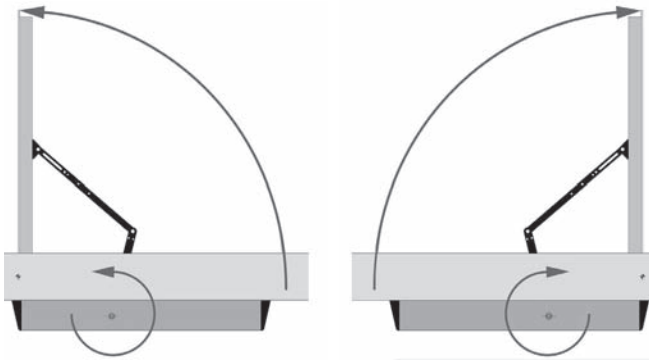
POWER SUPPLY	230 Vca (+/- 10%) - 50/60 Hz
MOTOR POWER SUPPLY	24 Vdc
ACCESSORY POWER SUPPLY	12 Vdc - 2,5 W max.
THRUST	35 Nm
MAX. WING WEIGHT	200 kg with L=700/1000 mm
MOTOR POWER	60 W
MAX. WING WIDTH	L=1200 mm with 200 kg
OPERATING FREQUENCY	Continuous
AUTOMATION WEIGHT	6,7 kg
MAX. OPENING ANGLE	100° max.
OBSTACLE DETECTION	YES
EMERGENCY BATTERY	12 V - 1,3 Ah





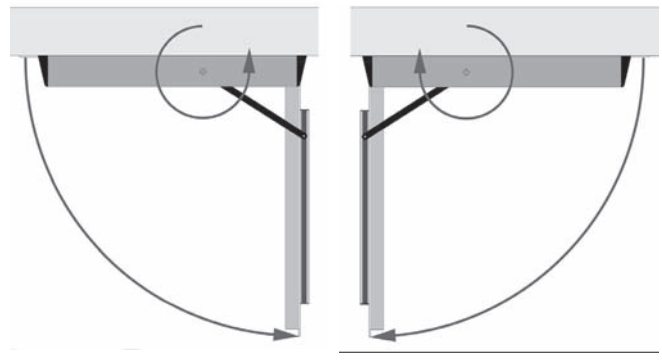
OVER PLUS

ARTICULATED ARM



Use the ARTICULATED ARM for doors that open outwards from the automation side.

SLIDING ARM



Use the SLIDING ARM for doors that open inwards from the automation side.

DRIVE SYSTEM FOR INTERNAL SIDE-HUNG DOORS

OVER PLUS, fitted with dedicated input for safety devices, back-up battery fitted as standard

CODE

42603/001

EURO

1.212,50

OBLIGATORY CONTROL ACCESSORIES

Articulated arm: (Silver color)
If necessary to open a side-hung door from the opposite side to the automation

CODE

42603/050

EURO

83,50

Sliding arm: (Silver color)
If necessary to open a side-hung door from the same side as the automation

CODE

42603/051

EURO

81,50

ACCESSORIES DESCRIPTION

Stopper for articulated arm

CODICE

42603/052

EURO

42,50

433,92 Mhz Radio receiver Molex 12V

CODICE

41923/008

EURO

64,00

RSH - Door leaf mounted swing door safety sensor (active infrared distance measurement technology)

CODICE

42282/096

EURO

324,50

RADAR:

DM-H21 - Uni directional door activation sensor (microwave technology)

CODICE

42282/093

EURO

208,50

DM-H22 - Bi directional door sensor (microwave technology)

CODICE

42282/090

EURO

173,50

RI-H3 Acti - Long range door activation sensor with 2 rows of detection (active infrared technology)

CODICE

42282/094

EURO

168,00

Kibo - Basic selector

CODICE

42602/052

EURO

106,50

Kibo Pro - Professional selector

CODICE

42602/053

EURO

238,00

NOTE: For other control and safety devices see page 206

KIBO

Select the operation logics of the door and reset the system.



KIBO PRO

Select the operation logics of the door and reset the system.
Set many types of parameters.
Set a password to protect the system.
Setup of 4 daily events.
Diagnostic and service functions.



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Cost estimate n° Date

INSTALLER'S COMPANY NAME
Name.....
Address
Post Code City..... Country.....
Tel..... Cell.....

Branch.....
Contact name.....
Retailer's Stamp
Agent's Stamp

SLIDING GATES

Gate characteristics:
 Weight: approx..... kg
 Length: approx..... m

Cycles for day (n° opening and closing cycles):

Low (< 50 cycles/day approx)
 Condominium (> 50 and < 300 cycles/day approx)
 Intensive (> 300 e < 800 cycles/day approx)
 Continuos (> 800 cycles/day approx)

Installation accessories:

Galvanised STEEL rack, length 5m.
 PLASTIC rack, length 5 m (MAX gate weight 500 kg).

Command unit:

Key switch
 Other (card reader, keypad, etc.):

Photocells post:..... pcs
 Flasher unit

Remote control:

2 key remote controls:.....pcs
 4 key remote controls:.....pcs

Additional security:
 Photocells:..... pcs (1 pcs is one pair)
 Anti-crush: Autoreverse card

Safety edges:

1,5 m:.....pcs
 2,0 m:.....pcs
 2,5 m:.....pcs

Other:

SWING GATES

External automation:

Electro-mechanical operator
 Hydraulic operator

Underground automation:

Electro-mechanical operator
 Hydraulic operator
 Drive release

Gate comprises:

Single wing
 Double wing

Gate characteristics:
 Weight of individual wing: approx.....kg
 Width of individual wing: approx.....kg

Cycles for day (n° opening and closing cycles):

Low (< 50 cycles/day approx)
 Condominium (> 300 cycles/day approx)
 Intensive (> 300 and < 400 cycles/day approx)
 Continuos (> 400 cycles/day approx)

Installation accessories:
 Command unit

Key switch
 Other (card reader, keypad, etc.):

Photocells post:.....pcs
 Flasher unit
 Electric lock

Remote control:

2 key remote controls:.....pcs
 4 key remote controls:.....pcs

Additional security:
 Photocells:..... pcs (1 pcs is one pair)
 Other:

Note: To receive your customised quotation, please fax the completed form back to your local Aprimatic distributor.

Cost estimate n° Date

INSTALLER'S COMPANY NAME
.....

Name
Address
.....

Post Code City Country

Tel. Cell.

Branch

Contact name

Retailer's Stamp
.....

Agent's Stamp
.....

GARAGE DOORS

- Counterweight up-and-over doors
 Sectional doors
 Spring doors

For counterweight up-and-over doors:

Width.....m; Height.....m; Weight.....m;

- With pedestrian door
 Hydraulic operator (recommended for > 50 cycles/day)
 Electro-mechanical operator (recommended for < 50 cycles/day)
 External release: if there are no other ways in to the garage

For sectional doors:

Width.....m; Height.....m; Weight.....m approx;

For spring doors:

Width.....m; Height.....m; Weight.....m approx;

Common installation accessories:

Command unit

- Key switch
 Other (card reader, keypad, etc.):

- Flasher unit
 Only for sectional doors weighing between 80 and 120 kg

Remote control:

- 2 key remote controls:.....pcs
 4 key remote controls:.....pcs

Additional security:

Photocells:..... pcs (1 pcs is one pair)

Safety edges:

- 1,5 m:.....pcs
 2,0 m:.....pcs
 2,5 m:.....pcs

BARRIERS

Barrier construction technology:

- Electro-mechanical barrier
 Hydraulic barrier

Cycles for day (n° opening and closing cycles):

- Condominium (> 300 cycles/day approx)
 Intensive (> 300 and < 400 cycles/day approx)
 Continuous (> 400 cycles/day approx)

Installation comprises:

- Single barrier
 Double barrier

Road span:

Roads span:.....m

Installation accessories:

- Base plate
 Skirt
 Swinging tip support
 Articulated beam conversion kit
 (not available for all barriers)
 Beam support fork

Command unit

- Key switch
 Other (card reader, keypad, etc.):

Photocells:..... pcs (1 pc is one pair)

- Photocells:.....pcs
 Magnetic vehicle detector
 Flasher unit

Radio System:

- 433 frequency rolling code radio receiver
 40.685 frequency rolling code quartz radio receiver
 2 key remote controls:.....pcs
 4 key remote controls:.....pcs

Other:

Note: To receive your customised quotation, please fax the completed form back to your local Aprimatic distributor.

ORDER FORM "SLIM SNK" AUTOMATION

Name _____ City/Town _____
 Surname _____ Postcode _____ District _____
 Company name _____ Tel. _____ Mobile _____
 Address _____ E-mail _____

STANDARD AUTOMATION

Code Automation LH single wing Anodized silver	Code Automation RH single wing Anodized silver	Code Automation Double wing Anodized silver	Max Passage span (mm)	Automation Total length (mm)	Code Automation LH single wing Anodized black	Code Automation RH single wing Anodized black	Code Automation Double wing Anodized black
<input type="checkbox"/> 42705/181.1	<input type="checkbox"/> 42705/181.0	<input type="checkbox"/> 42705/181.2	850	1810	<input type="checkbox"/> 42706/181.1	<input type="checkbox"/> 42706/181.0	<input type="checkbox"/> 42706/181.2
<input type="checkbox"/> 42705/201.1	<input type="checkbox"/> 42705/201.0	<input type="checkbox"/> 42705/201.2	950	2010	<input type="checkbox"/> 42706/201.1	<input type="checkbox"/> 42706/201.0	<input type="checkbox"/> 42706/201.2
<input type="checkbox"/> 42705/241.1	<input type="checkbox"/> 42705/241.0	<input type="checkbox"/> 42705/241.2	1150	2410	<input type="checkbox"/> 42706/241.1	<input type="checkbox"/> 42706/241.0	<input type="checkbox"/> 42706/241.2
<input type="checkbox"/> 42705/251.1	<input type="checkbox"/> 42705/251.0	<input type="checkbox"/> 42705/251.2	1200	2510	<input type="checkbox"/> 42706/251.1	<input type="checkbox"/> 42706/251.0	<input type="checkbox"/> 42706/251.2
<input type="checkbox"/> 42705/281.1	<input type="checkbox"/> 42705/281.0	<input type="checkbox"/> 42705/281.2	1350	2810	<input type="checkbox"/> 42706/281.1	<input type="checkbox"/> 42706/281.0	<input type="checkbox"/> 42706/281.2
<input type="checkbox"/> 42705/301.1	<input type="checkbox"/> 42705/301.0	<input type="checkbox"/> 42705/301.2	1450	3010	<input type="checkbox"/> 42706/301.1	<input type="checkbox"/> 42706/301.0	<input type="checkbox"/> 42706/301.2
<input type="checkbox"/> 42705/321.1	<input type="checkbox"/> 42705/321.0	<input type="checkbox"/> 42705/321.2	1550	3210	<input type="checkbox"/> 42706/321.1	<input type="checkbox"/> 42706/321.0	<input type="checkbox"/> 42706/321.2
<input type="checkbox"/> 42705/361.1	<input type="checkbox"/> 42705/361.0	<input type="checkbox"/> 42705/361.2	1750	3610	<input type="checkbox"/> 42706/361.1	<input type="checkbox"/> 42706/361.0	<input type="checkbox"/> 42706/361.2
<input type="checkbox"/> 42705/401.1	<input type="checkbox"/> 42705/401.0	<input type="checkbox"/> 42705/401.2	1950	4010	<input type="checkbox"/> 42706/401.1	<input type="checkbox"/> 42706/401.0	<input type="checkbox"/> 42706/401.2
<input type="checkbox"/> 42705/441.1	<input type="checkbox"/> 42705/441.0	<input type="checkbox"/> 42705/441.2	2150	4410	<input type="checkbox"/> 42706/441.1	<input type="checkbox"/> 42706/441.0	<input type="checkbox"/> 42706/441.2
<input type="checkbox"/> 42705/481.1	<input type="checkbox"/> 42705/481.0	<input type="checkbox"/> 42705/481.2	2350	4810	<input type="checkbox"/> 42706/481.1	<input type="checkbox"/> 42706/481.0	<input type="checkbox"/> 42706/481.2
<input type="checkbox"/> 42705/541.1	<input type="checkbox"/> 42705/541.0	<input type="checkbox"/> 42705/541.2	2650	5410	<input type="checkbox"/> 42706/541.1	<input type="checkbox"/> 42706/541.0	<input type="checkbox"/> 42706/541.2

Tick the box for the size and model you want to order.

Non-standard: Tick the box for the next standard length up and then write in the exact size here in this box ending with zero or 5.

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 mm

ACCESSORIES

Q.ty	Control units	Code
<input type="checkbox"/>	SC6 6-way key selector switch	42282/070
<input type="checkbox"/>	Recessed box for SC6	41700/009
<input type="checkbox"/>	SC6EC 6-way key selector switch	42282/073
<input type="checkbox"/>	Emergency pushbutton	42282/082
Q.ty	Radar	Code
<input type="checkbox"/>	RI-H5 Active infrared sensor	42282/092
<input type="checkbox"/>	RI-H3 SAFE Active infrared safety sensor	42282/095
<input type="checkbox"/>	RI-H3 ACTI Active infrared activation sensor	42282/094
<input type="checkbox"/>	DM-H22 Microwave sensor	42282/090
<input type="checkbox"/>	DM-H82 Active infrared sensor	42282/091
<input type="checkbox"/>	TLHI Touchless wall mounting switch	42282/099
Q.ty	Accessories for glass wings	Code
<input type="checkbox"/>	Profile for mounting glass wing	42280/052
<input type="checkbox"/>	Pack of fitting accessories for glass wing	42280/087
<input type="checkbox"/>	Sealant for glass wings	42280/086
<input type="checkbox"/>	Floor guide set for glass wing	42280/079
Q.ty	Mechanical emergency door opener	Code
<input type="checkbox"/>	Mechanical emergency opener set (1 mobile wing)	42280/088
<input type="checkbox"/>	Guide and adapter set (1 mobile wing)	42280/081
<input type="checkbox"/>	Set of fittings for 1 semi-fixed wing	42280/070
<input type="checkbox"/>	SMI magnetic sensor	42280/076
<input type="checkbox"/>	SMS magnetic sensor	42280/075
Q.ty	Mechanical emergency releases	Code
<input type="checkbox"/>	Emergency manual release, internal	42280/084
<input type="checkbox"/>	Emergency manual release, external	42280/085
Q.ty	Pre-assembled beam accessories	Code
<input type="checkbox"/>	ER6/N NK mini photocells, pre-assembled	42300/002
<input type="checkbox"/>	Electric lock NK, pre-assembled	42282/077

COVERS

Net length (mm)	Code unfinished aluminium	Code anodized silver	Code anodized black
1800	<input type="checkbox"/> 42102/180	<input type="checkbox"/> 42100/180	<input type="checkbox"/> 42101/180
2000	<input type="checkbox"/> 42102/200	<input type="checkbox"/> 42100/200	<input type="checkbox"/> 42101/200
2400	<input type="checkbox"/> 42102/240	<input type="checkbox"/> 42100/240	<input type="checkbox"/> 42101/240
2500	<input type="checkbox"/> 42102/250	<input type="checkbox"/> 42100/250	<input type="checkbox"/> 42101/250
2800	<input type="checkbox"/> 42102/280	<input type="checkbox"/> 42100/280	<input type="checkbox"/> 42101/280
3000	<input type="checkbox"/> 42102/300	<input type="checkbox"/> 42100/300	<input type="checkbox"/> 42101/300
3200	<input type="checkbox"/> 42102/320	<input type="checkbox"/> 42100/320	<input type="checkbox"/> 42101/320
3600	<input type="checkbox"/> 42102/360	<input type="checkbox"/> 42100/360	<input type="checkbox"/> 42101/360
4000	<input type="checkbox"/> 42102/400	<input type="checkbox"/> 42100/400	<input type="checkbox"/> 42101/400
4400	<input type="checkbox"/> 42102/440	<input type="checkbox"/> 42100/440	<input type="checkbox"/> 42101/440
4800	<input type="checkbox"/> 42102/480	<input type="checkbox"/> 42100/480	<input type="checkbox"/> 42101/480
5400	<input type="checkbox"/> 42102/540	<input type="checkbox"/> 42100/540	<input type="checkbox"/> 42101/540
6000	<input type="checkbox"/> 42102/600	<input type="checkbox"/> 42100/600	<input type="checkbox"/> 42101/600

Tick the box for the size and model you want to order.

Non-standard:

Tick the box for the next standard length up and then write in the exact size here in this box ending with zero or 5.

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Aprimatic
THE CHAMPION OF AUTOMATION

ORDER FORM "TWIN" AUTOMATION

Name _____ City/Town _____
 Surname _____ Postcode _____ District _____
 Company name _____ Tel. _____ Mobile _____
 Address _____ E-mail _____

STANDARD AUTOMATION

Code Automation 2 LH wings Anodized silver	Code Automation 2 RH single wings Anodized silver	Code Automation 4 wings Anodized silver	Max Passage span (mm)	Automation Total length (mm)	Code Automation 2 LH wings Anodized black	Code Automation 2 RH wings Anodized black	Code Automation 4 wings Anodized black
<input type="checkbox"/> 42800/141.1	<input type="checkbox"/> 42800/141.0	-	800	1410 **	<input type="checkbox"/> 42801/141.1	<input type="checkbox"/> 42801/141.0	-
<input type="checkbox"/> 42800/181.1	<input type="checkbox"/> 42800/181.0	-	1100	1810 **	<input type="checkbox"/> 42801/181.1	<input type="checkbox"/> 42801/181.0	-
<input type="checkbox"/> 42800/201.1	<input type="checkbox"/> 42800/201.0	-	1200	2010 **	<input type="checkbox"/> 42801/201.1	<input type="checkbox"/> 42801/201.0	-
<input type="checkbox"/> 42800/241.1	<input type="checkbox"/> 42800/241.0	-	1500	2410 **	<input type="checkbox"/> 42801/241.1	<input type="checkbox"/> 42801/241.0	-
<input type="checkbox"/> 42800/281.1	<input type="checkbox"/> 42800/281.0	<input type="checkbox"/> 42800/281.2	1800	2810 *	<input type="checkbox"/> 42801/281.1	<input type="checkbox"/> 42801/281.0	<input type="checkbox"/> 42801/281.2
<input type="checkbox"/> 42800/321.1	<input type="checkbox"/> 42800/321.0	<input type="checkbox"/> 42800/321.2	2000	3210	<input type="checkbox"/> 42801/321.1	<input type="checkbox"/> 42801/321.0	<input type="checkbox"/> 42801/321.2
<input type="checkbox"/> 42800/361.1	<input type="checkbox"/> 42800/361.0	<input type="checkbox"/> 42800/361.2	2300	3610	<input type="checkbox"/> 42801/361.1	<input type="checkbox"/> 42801/361.0	<input type="checkbox"/> 42801/361.2
<input type="checkbox"/> 42800/401.1	<input type="checkbox"/> 42800/401.0	<input type="checkbox"/> 42800/401.2	2600	4010	<input type="checkbox"/> 42801/401.1	<input type="checkbox"/> 42801/401.0	<input type="checkbox"/> 42801/401.2
<input type="checkbox"/> 42800/441.1	<input type="checkbox"/> 42800/441.0	<input type="checkbox"/> 42800/441.2	2800	4410	<input type="checkbox"/> 42801/441.1	<input type="checkbox"/> 42801/441.0	<input type="checkbox"/> 42801/441.2
<input type="checkbox"/> 42800/481.1	<input type="checkbox"/> 42800/481.0	<input type="checkbox"/> 42800/481.2	3100	4810	<input type="checkbox"/> 42801/481.1	<input type="checkbox"/> 42801/481.0	<input type="checkbox"/> 42801/481.2
<input type="checkbox"/> 42800/541.1	<input type="checkbox"/> 42800/541.0	<input type="checkbox"/> 42800/541.2	3500	5410	<input type="checkbox"/> 42801/541.1	<input type="checkbox"/> 42801/541.0	<input type="checkbox"/> 42801/541.2
<input type="checkbox"/> 42800/601.1	<input type="checkbox"/> 42800/601.0	<input type="checkbox"/> 42800/601.2	3900	6010	<input type="checkbox"/> 42801/601.1	<input type="checkbox"/> 42801/601.0	<input type="checkbox"/> 42801/601.2

Tick the box for the size and model you want to order.

Non-standard: Tick the box for the next standard length up and then write in the exact size here in this box ending with zero or 5.

										mm
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ACCESSORIES

Q.ty	Control units	Code
<input type="checkbox"/>	SC6 6-way key selector switch	42282/070
<input type="checkbox"/>	Recessed box for SC6	41700/009
<input type="checkbox"/>	SC6EC 6-way key selector switch	42282/073
<input type="checkbox"/>	Emergency pushbutton	42282/082
Q.ty	Radar	Code
<input type="checkbox"/>	RI-H5 Active infrared sensor	42282/092
<input type="checkbox"/>	RI-H3 SAFE Active infrared safety sensor	42282/095
<input type="checkbox"/>	RI-H3 ACTI Active infrared activation sensor	42282/094
<input type="checkbox"/>	DM-H22 Microwave sensor	42282/090
<input type="checkbox"/>	DM-H82 Active infrared sensor	42282/091
<input type="checkbox"/>	TLHI Touchless wall mounting switch	42282/099
Q.ty	Mechanical emergency door opener	Code
<input type="checkbox"/>	SMI magnetic sensor	42280/076
<input type="checkbox"/>	SMS magnetic sensor	42280/075
Q.ty	Mechanical emergency releases	Code
<input type="checkbox"/>	Emergency manual release, internal	42280/084
<input type="checkbox"/>	Emergency manual release, external	42280/085
Q.tà	Pre-assembled beam accessories	Code
<input type="checkbox"/>	ER6/N mini photocells, pre-assembled	42300/001
<input type="checkbox"/>	NS 48 emergency battery unit	42282/075
<input type="checkbox"/>	Electric lock, pre-assembled	42282/074

COVERS

Net length (mm)	Code unfinished aluminium	Code anodized silver	Code anodized black
1400	<input type="checkbox"/> 42112/140	<input type="checkbox"/> 42110/140	<input type="checkbox"/> 42111/140
1800	<input type="checkbox"/> 42112/180	<input type="checkbox"/> 42110/180	<input type="checkbox"/> 42111/180
2000	<input type="checkbox"/> 42112/200	<input type="checkbox"/> 42110/200	<input type="checkbox"/> 42111/200
2400	<input type="checkbox"/> 42112/240	<input type="checkbox"/> 42110/240	<input type="checkbox"/> 42111/240
2800	<input type="checkbox"/> 42112/280	<input type="checkbox"/> 42110/280	<input type="checkbox"/> 42111/280
3200	<input type="checkbox"/> 42112/320	<input type="checkbox"/> 42110/320	<input type="checkbox"/> 42111/320
3600	<input type="checkbox"/> 42112/360	<input type="checkbox"/> 42110/360	<input type="checkbox"/> 42111/360
4000	<input type="checkbox"/> 42112/400	<input type="checkbox"/> 42110/400	<input type="checkbox"/> 42111/400
4400	<input type="checkbox"/> 42112/440	<input type="checkbox"/> 42110/440	<input type="checkbox"/> 42111/440
4800	<input type="checkbox"/> 42112/480	<input type="checkbox"/> 42110/480	<input type="checkbox"/> 42111/480
5400	<input type="checkbox"/> 42112/540	<input type="checkbox"/> 42110/540	<input type="checkbox"/> 42111/540
6000	<input type="checkbox"/> 42112/600	<input type="checkbox"/> 42110/600	<input type="checkbox"/> 42111/600

Tick the box for the size and model you want to order.

Non-standard: Tick the box for the next standard length up and then write in the exact size here in this box ending with zero or 5.

										mm
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**The automation labelled with two stars CANNOT mount the electro-lock EB2, whereas the emergency batteries NS48 must be installed outside the beam (used NS48 after market batteries only).
 *The automation labelled with one star CAN mount the electro-lock EB2, inside the beam whereas the emergency batteries NS48 must be installed outside the beam (used NS48 after market batteries only).



CONFORMITY CERTIFICATION

MANUFACTURER ADDRESS: APRIMATIC SPA - Via Leonardo Da Vinci, 414 - 40059 Villafontana di Medicina - Bologna - Italy.

Aprimatic S.p.A. declares that operators and electronic control units are all conform to:

Directive 2004/108/EC (EMC) replacing the previous directive 89/336/EEC.

Directive 2006/95/EC (LVD) replacing the previous directive 73/23/EEC.

Aprimatic Memory System 433.92 MHz remote controls and receivers have passed the tests stipulated by the following European Standards: Directive 1999/5/EC (R & TTE).

The remote controls and receivers have been approved by an authorised certification authority with no. 0678 (see the back of the remote control).

The company operates a policy of continuous improvement and reserves the right to make product changes without prior notice.

GENERAL SALES CONDITIONS

The purchase of Aprimatic products implies the acceptance of the following general sales conditions:

1. ORDERS

Orders received by the export sales department are subject to approval from Aprimatic S.p.A. Orders shall be binding on Aprimatic upon order confirmation only and shall never imply exclusivity rights unless otherwise agreed in writing.

Orders are only supplied in the packaging format indicated on the price list.

2. TRANSPORT AND DELIVERY

Transport of the goods sold will be at the expense and risk of the purchasers who must, in their own interest, check the quantity and the condition of the goods before accepting them from the carrier.

Any reservation should be made known directly to the carrier.

Delivery EXW Incoterms ICC 2000 unless otherwise agreed in writing.

All delivery dates given shall be deemed as purely indicative and non-binding.

Aprimatic shall not be held responsible to the Purchaser for any failure to perform, including late delivery or failure to deliver, which failure to perform is caused by occurrences beyond Aprimatic'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 material by suppliers, strikes, and other trade union actions, terrorist activities, suspension of electrical energy or difficulties in transportation.

3. OWNERSHIP

Goods are sold subject to then lien clause, i.e. they remain the property of the seller until payment for them is made in full, at which point they become the property of the purchaser. If the seller does not intend to repossess goods for which payment has not been made in full, the seller shall have the right to apply interest charges at a rate of 5% more than the current discount rate.

4. PRICES

The prices indicated on the Price List are not binding. Aprimatic S.p.A. reserves the right to change the price 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 Purchaser. If any delay in delivery of the Products occurs through the fault of the Purchaser, 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 Purchaser. Any and all taxes, duties, levies, licenses, authorizations, permits and any and all tax and administrative formalities relating to import and/or resale of the Products shall be borne and carried out exclusively by the Purchaser.

5. RETURNS AND CLAIMS

Any complaints must be sent to Aprimatic S.p.A. in writing within 8 days of receiving of the goods.

Returns must be authorised beforehand by Aprimatic S.p.A. Returns must be sent carriage paid to the Aprimatic warehouse with the purchase documents and delivery note enclosed. It will be issued a credit note for the purchase price of the goods minus 20% if the reason for the return is not attributable to Aprimatic S.p.A.

6. PRODUCTS

Aprimatic S.p.A. shall be entitled to make minor changes to the Products, without being obliged to inform the Purchaser.

The information shown in all Aprimatic publications are provided for information purposes only and are subject to modification at any time without prior warning.

Aprimatic S.p.A. does not warrant to the Purchaser that the Products comply with the applicable laws and regulations in force in the country (ies) where the Purchaser is established or where the Products are meant to be sold, delivered and/or installed.

Aprimatic shall have no obligation to modify the Products in compliance with said laws or regulations and the Purchaser shall be solely responsible for ensuring that the Products and any service of the Purchaser conform to the applicable technical and safety standards, laws and regulations in force in said country (ies).

The Purchaser acknowledges that the Products may be dangerous to persons or property when not installed or used in strict compliance with Aprimatic's written instructions for installation and used furnished by Aprimatic and with the safety requirements specified in the EN 12445 and EN 12543. Aprimatic expressly disclaim liability for any personal injury or property damage resulting from installation or use of the Products, other than in strict compliance with Aprimatic'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 Aprimatic, it being understood that the maximum liability of Aprimatic to the Purchaser or to any other person or entity, arising out of or in connection with the Products and based on a claim of breach or under warranty, shall in no case exceed the price paid to Aprimatic for the Products which gives rise to the claim, loss or damage.

In no event shall Aprimatic S.p.A. be liable for special and consequential damages, including, without limitation, loss of profit.

7. PAYMENT

Payments to Aprimatic S.p.A. must be made within the agreed expiry date and should be equal to the agreed sum.

Any delay in the payment of invoices, even if partial, beyond the agreed expiry date shall cause the purchaser to be immediately charged interest, and entitle Aprimatic S.p.A. to suspend or terminate contracts, even different from the unfulfilled one.

THE MANUFACTURER MAY NOT BE HELD RESPONSIBLE FOR ANY ERRORS CONTAINED IN THIS CATALOGUE CAUSED BY PRINTING OR TRANSCRIPTION ERRORS. THE COMPANY RESERVES THE RIGHT TO MAKE CHANGES AND IMPROVEMENTS TO THE PRODUCTS WITHOUT PRIOR NOTICE.

8. WARRANTY

Goods sold are guaranteed against manufacturing or material defects for 24 months from the date of installation. The installation date is certified by the Certificate of Guarantee which must be sent to Aprimatic S.p.A. for the goods covered by it.

The Certificate of Guarantee is only valid if completed in full and sent within 10 days of the installation date.

Products for which a certificate is not issued are guaranteed for 30 months from the date of production.

The terms of the warranty are verified exclusively by Aprimatic S.p.A. in its undisputed judgement and by the approved repair centres. Call-out fees and labour costs shall be charged to the purchaser.

Aprimatic reserves the right to declare that the warranty shall be valid only if the entire automation system has been constructed using APRIMATIC products and provided that installation has been performed correctly.

The warranty does not apply if defects in functioning are caused by structural problems or by the incompatibility of the structures for automation with APRIMATIC products. The material acknowledged as covered by the guarantee will only be accepted for repair if sent carriage paid. After repair or replacement the material will be returned freight collect.

Substituted material remains the property of Aprimatic. Furthermore the warranty does not include:

- Defects or damage caused by transport.
- Defects or damage caused by faults in the electric system and/or oversight, negligence in the use of the system or any use of the system for purposes other than the ones it was designed for.
- Defects or damage caused by omissions, negligence or bad workmanship on the part of the installer or purchaser or failure to follow the manufacturer's instructions.
- Defects or damage caused by the use of non-original spare parts.
- Defects caused by chemical agents or atmospheric conditions.
- Consumption material.
- Tampering in the event of presumed faults and intervention by unauthorised personnel.

Aprimatic guarantees exclusively the conformity of the Products to the technical specifications submitted to Buyer and published on the web site www.aprimatic.com, provided that the Products have been correctly transported, stored, installed, used and repaired by Buyer (including in compliance with the Aprimatic's manual); in case of defects, purchaser shall write a "reserve" on the delivery note and give a detailed notice thereof in writing to Aprimatic within 7 days from delivery or from discovery, in case of hidden defects and anyhow not later than two years from delivery and Aprimatic shall only be bound to, at its own choice: replace the defective Products or, totally or partially, reimburse their price. Apart from what set forth herewith, Aprimatic shall bear no other responsibility, in particular any liability for damages (including loss of profit or any other subsequent loss) hereby expressly excluded.

9. COURT OF JURISDICTION

Judgement in the event of any controversy shall be entrusted solely to the courts of Bologna, Italy.

General Recommendations:

This price list cancels and replaces all previous price lists.

In accordance with current safety standards, it is essential to install genuine APRIMATIC control units and accessories.

Aprimatic S.p.A. declines all responsibility for injury or damage, even to third parties, deriving from failure to observe these safety standards or from bad craftsmanship in the installation or operation of the goods.

SYMBOLS USED

AUTOMATION FOR SWING GATES, UP-AND-OVER GARAGE DOORS AND AUTOMATIC BARRIERS:

- A: Hydraulic locking in open position only.
- B: Hydraulic locking in open and closed positions.
- C: Hydraulic locking in closed position only.
- SF: No hydraulic locking - with brake.
- DS: No hydraulic locking - slow down in opening and closing system.
- SR: No hydraulic locking - rapid manual movement.
- 7: Pump capacity: 1.0 l/min. For light gates.
- 5: Pump capacity: 0.75 l/min.
- 4: Pump capacity: 0.6 l/min. For heavy gates.
- RR: 433.92 MHz radio receiver.
- RF: Oil flow adjustment.

AUTOMATION FOR SLIDING GATES:

- Z16: Pitch 4 pinion, 16 teeth: Slow 9.5 m/min. Heavy gates.
- Z20: Pitch 4 pinion, 20 teeth: Slow 12 m/min. Light gates.
- C: 16 tooth sprocket for chain drive.
- E: On-board electronic motor control unit.

TRANSMITTERS:

- TR: 2 or 4 channel rolling code channel remote control.
- TG: 2 channel dip-switch remote control.

DEFINITIONS USED

RESIDENTIAL: Single family occupancy

CONDOMINIUM: Multy family occupancy

INTENSIVE: Multi user - Heavy gates

INDUSTRIAL: Industry/Car parks/Heavy loads

CONTINUOS: Automatic car parks

IMPORTANT :

ALL APPLICATIONS MUST ADHERE TO THE SAFETY STANDARDS SPECIFIED IN THE MACHINERY DIRECTIVE.

urmet
IS IN YOUR LIFE