



# SEA

electronic opening system



Pricelist 2012  
Validity from 1 st April 2012

SEA

## The choice to invest in the sun

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In May 2010 was inaugurated the solar system of over 2000 photovoltaic panels installed on the roofs of the establishments supplying the energy needs of the company and providing additional economic benefits selling the produced energy to the local electricity provider. The network produces electricity from the sun in a silent and environment- friendly way, thanks to the system of fully integrated photovoltaic panels.



# Green Energy



# The quality of the real manufacturer

In slightly more than twenty years SEA has established itself in the field of automated doors and gates as a new reality equipped with an up-to date manufacturing system located in a plant extending on a covered surface of more than 11.000 sqm. the successful strategy that made it possible to meet requirements and to achieve the loyalty of customers throughout over 50 countries is the high flexibility ensured by a unique manufacturing system which is fully internalized.

In SEA the purchased raw material is processed according to all the phases of the manufacturing process and it becomes a finished product after a series of progressive control



Design



Mechanical production



Mechanical production



The robots



Climatic room:  
for test of functioning of the products under different climatic conditions



# Our most important years



<b>1991</b> <ul style="list-style-type: none"> <li>• First factory fo 3000m<sup>2</sup></li> <li>• Standard of hydraulic production</li> </ul>	<b>1993</b> <ul style="list-style-type: none"> <li>• Establishment of a commercial branch SEA France (Lyone)</li> </ul>	<b>1996</b> <ul style="list-style-type: none"> <li>• Company Quality certification, ISO9001</li> <li>• Product certification GHOST-R for Russian market</li> </ul>	<b>1998</b> <ul style="list-style-type: none"> <li>• Second plant for assembly and warehouse</li> </ul>	<b>2000</b> <ul style="list-style-type: none"> <li>• UL 325 Certification for United States of America</li> <li>• New location SEA France</li> </ul>	<b>2002</b> <ul style="list-style-type: none"> <li>• SEADOBLES ! start of the hydraulic production line, which soon becomes the core business of the company</li> <li>Start the electomechanical line</li> </ul>	<b>2003</b> <ul style="list-style-type: none"> <li>• Third processing/ commercial plant, with a showroom of 500 m<sup>2</sup></li> <li>• The company's production area exceeds 11.000m<sup>2</sup>.</li> <li>• Opening of the commercial branch in Miami SEA (USA)</li> </ul>	<b>2008</b> <ul style="list-style-type: none"> <li>• Production of hydraulic bollards for the management of car parks and public areas</li> </ul>	<b>2011</b> <ul style="list-style-type: none"> <li>• THE GREEN ECONOMY: 1,5 million euros invested in the construction of over 2000solar panels supplying the energy needs of the company</li> </ul>	<b>2012</b> <ul style="list-style-type: none"> <li>• S.P.A. SEA becomes a joint-stock company</li> </ul>
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TOTAL QUALITY is the final result wich can be guaranteed only by an "OWN PRODUCTION".

- **Italian product 100%**
- **Hydraulic line**
- **Electromechanical line**
- **Dedicated distribution net**
- **Updating courses on standards and products**
- **Quality/Price competitiveness**
- **Product certifications EN 12445-12453**



Thanks to this strategy, SEA has managed to produce a wide range of reliable products, to gasin immediately important shares on the main markets worldwide and to achieve product and system certifications such as CE, UL, and ISO 9001 respectively.

Today SEA is a leading and a constantly growing group with customers' service centers located on all sales markets.Its CODE BUSINESS is the manufacturing of hidraulic products, its differentiation factor against competitors is the direct supervision on the whole manufacturing cycle.



For 20 years the distributor and the pump are the hydraulic core production inside the SEA plants .



Quality control



Assembling



Final test on each product



Formation courses and technical updates



# NEWS

On board LCD display allowing to set and to visualize all the functions in a simple way  
Standardized programming same for all digital control units

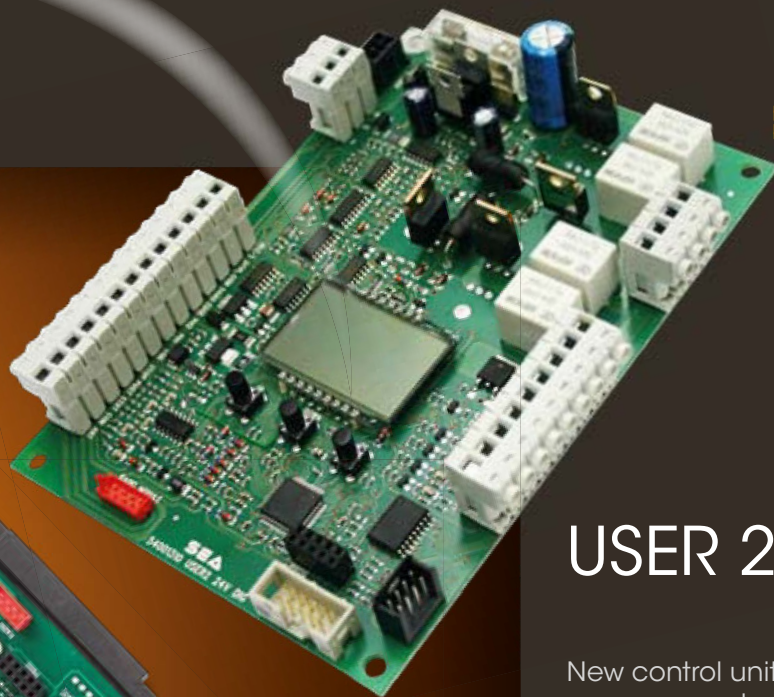


## GATE 1 DG



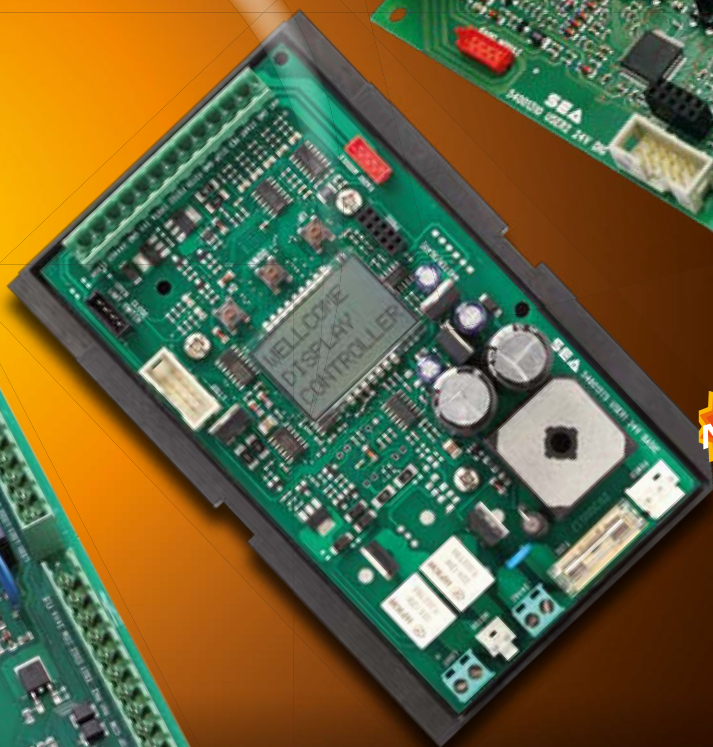
New control unit for the management of one 230 Vac motor with or without limit switch

# STANDARDIZED PROGRAMMING



## USER 2 24V DG

New control unit for the management of two 24V swing gates motors with or without limit switch



## USER 1 24V DG

New control unit for the management of one 24V motor with or without limit switch



## GATE 2 DG



New control unit for the management of two 230 Vac swing gates motors with or without limit switch

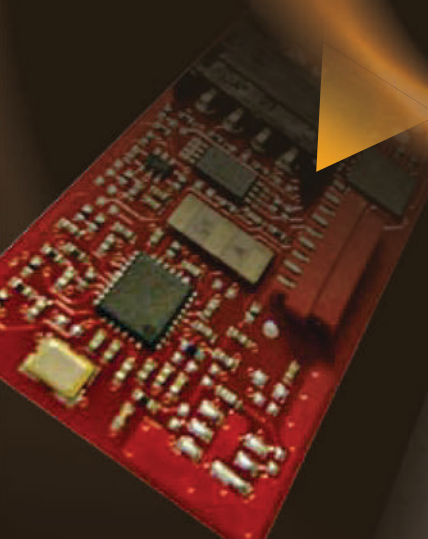
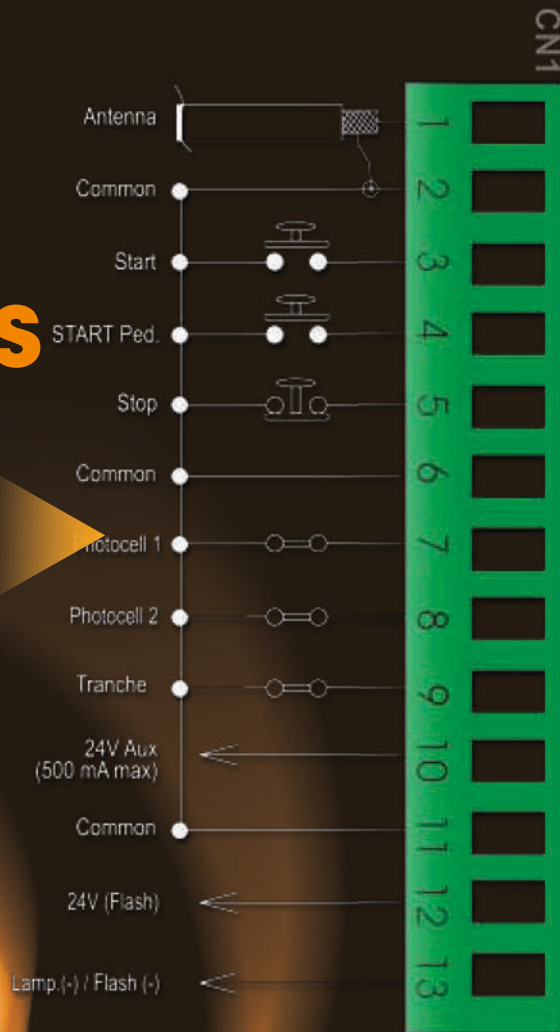
**SEA**<sup>®</sup>  
electronic opening system

New digital control units

# Advantages

STANDARDIZED INPUTS  
WITH THE SAME  
NUMBER

Standardized programming through LCD display



Univeras radio module  
compatible with fixed code  
or Rolling Code Plus  
Transmitters



JOLLY  
Standardized programmer

Firmware upgrade through  
download



# Universal Radio Module

RF UNI  
433 - 868 MHz



NEW

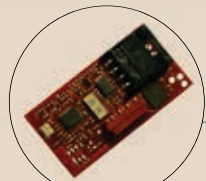
compatible with fixed  
code or Rolling Code  
Plus\* transmitters

## Simple frequency

changing just replacing the  
RF module



Flex UNI  
433 - 868 MHz

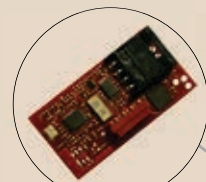


RF UNI

NEW

RF UNI inside

Signal Box UNI  
433 - 868 MHz



RF UNI

NEW

RF UNI inside

\*THE ROLLING CODE OR FIXED CODE CODIFICATION WILL BE ESTABLISHED BY THE FIRST MEMORIZED TRANSMITTER

**SEA**<sup>®</sup>  
electronic opening system



## Eyes

Synchronized photocell for outside mounting  
Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes  
Ideal for installations on gates or leaves with limited space for photocells

## Eyes Bat

Synchronized photocell for outside mounting  
Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes  
Ideal for installations on gates or leaves with limited space for photocells  
(2x1,2V) Battery-powered transmitter with charge through mini solar panel, included in the package



Optional anti-vandalism metal protection cover



## Aster RF Roll Plus

Wireless key-switch for surface mounting with standard cylinder  
Rolling code PLUS code  
Out of shock-resistant strong material  
2x3V lithium batteries



### Rock RF - RF Roll Plus

Wireless keypad for outside mounting with 12 lit buttons (only when used)  
Aluminium cover  
Rolling code PLUS

### Rock W

Keypad for outside mounting via cable with 12 ever-lit buttons  
Aluminium cover  
WIEGAND protocol



### Cube

Anti-vandalism STAND-ALONE aluminium keypad for access control management with up to 500 users through numerical codes up to four digits  
12 blue back-lit aluminium buttons

9

### Cube W

Anti-vandalism aluminium keypad for access control management with up to 250 or 800 users through numerical codes  
12 blue back-lit aluminium buttons  
WIEGAND Protocol  
Resinated electronic circuit



### K 250

Access control decoder for the management of one access with up to 250 users-codes  
Data reception through WIEGAND format reader (accessory necessary for CUBE W and ROCK W keypad)

For those who have a passion for racing cars  
and chose a unique style



Coccinella Carbon Look

New radio transmitter with technological and sporty design  
with carbon - look shiny plastic wings



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# KIT MINI TANK



\*Available summer 2012

KIT MINI TANK SC	KIT MINI TANK AC	KIT MINI TANK SC PLUS
2 Hydraulic operators MINI TANK SC 1 Control unit SWING 2 with RF UNI 433 Mhz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK AC 1 Control unit SWING 2 with RF UNI 433 Mhz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna per FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK SC 1 Control unit GATE 2 DG * with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna per FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
<b>10112009</b>	<b>10103120</b>	<b>10112045</b>

# KIT MINI TANK TOP



\*Available summer 2012

KIT MINI TANK SC TOP (with ball joint)	KIT MINI TANK AC TOP (with ball joint)	KIT MINI TANK SB TOP (with ball joint)
2 Hydraulic operators MINI TANK SC with ball joint 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK AC with ball joint 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK SB with ball joint 1 Control unit GATE 2 DG * with RF UNI 433 MHz receiver 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
<b>10112055</b>	<b>10103125</b>	<b>10103130</b>

# KIT ALPHA 330 PLUS



<p><b>KIT ALPHA 330 PLUS (with limit switch)</b></p> <p>2 Electromechanical operators ALPHA 330 PLUS          1 Control unit SWING 2          with RF UNI 433 MHz receiver          1 2 ch. 433 MHz transmitter Roll PLUS          1 Kit Antenna per FLASH          1 Key switch ASTER          1 Pair of photocells SUNSET          1 Flashing lamp FLASH          1 Warning signboard</p>
<p><b>1093323 PK</b></p>

# KIT ALPHA 330



<p><b>KIT ALPHA 330</b></p> <p>2 Electromechanical operators ALPHA 330          1 Control unit SWING 2          with RF UNI 433 MHz receiver          1 2 ch. 433 MHz transmitter Roll PLUS          1 Kit Antenna per FLASH          1 Key switch ASTER          1 Pair of photocells SUNSET          1 Flashing lamp FLASH          1 Warning signboard</p>
<p><b>10933230 K</b></p>

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)



# KIT SURF



\*Available summer 2012

KIT SURF 250	KIT SURF 350	KIT SURF 350 X (with limit switch)
2 Electromechanical operators SURF 250 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Electromechanical operators SURF 350 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Electromechanical operators SURF 350 with electronic and mechanical limit switches 1 Control unit GATE 2 DG* with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
<b>11005100</b>	<b>11005165</b>	<b>11005150</b>

# KIT SURF 24V



KIT SURF 250 24V	KIT SURF 350 24V X (with limit switch)
2 Electromechanical operators SURF 250 24V 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard	2 Electromechanical operators SURF 350 24V with electronic and mechanical limit switch 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard
<b>11005120</b>	<b>11005155</b>



NOTE: X version with mechanical and electronic limit switch to be combined with a control unit with limit switch management (GATE ROLL OR USER ROLL) and standard manual release with metal lock.



# KIT BETA 24V



KIT BETA 24V
2 Electromechanical operators BETA 24V 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard
<b>11002005</b>

# KIT FLIPPER 24V



KIT FLIPPER SINGLE 24V PLUS	KIT FLIPPER DOUBLE 24V PLUS	KIT FLIPPER DOUBLE 24V BASIC
1 Electromechanical operator FLIPPER 24V with mechanical/electronic limit switch, control unit USER 2- 24V DG and with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard	2 Electromechanical operators FLIPPER 24V with mechanical/electronic limit switch, control unit USER 2- 24V DG and with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard	2 Electromechanical operators FLIPPER 24V with mechanical limit switch, control unit USER 2- 24V DG and with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard
<b>10854505</b>	<b>10854500</b>	<b>10854525</b>

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)



# KIT FIELD



\*Available summer 2012

KIT FIELD	KIT FIELD OIL
2 Electromechanical operator FIELD with box 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 2 Standard release 1 Warning signboard	2 Electromechanical operator FIELD OIL with box 1 Control unit GATE 2 DG* with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 2 Plus release 1 Warning signboard
<b>12301070</b>	<b>12301035</b>

# KIT FIELD 24V



KIT FIELD 24V	KIT FIELD OIL 24V
2 Electromechanical operator FIELD 24V with box 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 2 Standard release 1 Warning signboard	2 Electromechanical operator FIELD OIL with box 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 2 Plus release 1 Warning signboard
<b>12301085</b>	<b>12301040</b>

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

# KIT CORONA S



KIT CORONA 60 S (aluminium guide 3 x 1 m)	KIT CORONA 110 S (aluminium guide 3 x 1 m)
1 Gearmotor CORONA 60 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 3 Pieces 1 m aluminium guide (total 3 meters) 1 Internal release with rope + accessories 1 Warning signboard	1 Gearmotor CORONA 110 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 3 Pieces 1 m aluminium guide (total 3 meters) 1 Internal release with rope + accessories 1 Warning signboard
<b>13320065</b>	<b>13320070</b>

# KIT CORONA RP



KIT CORONA RP 60 Quick coupling motor mounting on unique guide	KIT CORONA RP 110 Quick coupling motor mounting on unique guide
1 Gearmotor CORONA 60 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 3 m piece of aluminium guide 1 Internal release with rope + accessories 1 Warning signboard	1 Gearmotor CORONA 110 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 3 m piece of aluminium guide 1 Internal release with rope + accessories 1 Warning signboard
<b>13320045</b>	<b>13320050</b>

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)



Note: On request KIT CORONA RP2 with two 1,5m modular guides or version with guide with belt



# KIT ERG



KIT ERG G1	KIT ERG G1 PLUS	KIT ERG G1 + square tube
1 Operator ERG with limit switches, control unit GATE 1 and RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna with cable 1 Installation Kit for 1 ERG with straight arms and accessories to be weld 1 Warning signboard	1 Operator ERG with limit switches, control unit GATE 1 and RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Warning lamp FLASH 1 Key switch ASTER 1 Installation Kit for 1 ERG with straight arms and accessories to be weld 1 Pair of photocells SUNSET 1 Support for warning lamp 1 Warning signboard	1 Operator ERG with limit switches, control unit GATE 1 and RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna with cable 1 Installation Kit for 1 ERG with square tube (25x25mm), straight arms and accessories to be screwed 1 Warning signboard
<b>11316025</b>	<b>11316030</b>	<b>11316045</b>

# KIT ERG 24V



KIT ERG 24V	KIT ERG 24V PLUS
1 Operator ERG 24V, control unit USER 1 - 24V DG with RF UNI receiver 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna with cable 1 Installation Kit for 1 ERG with straight arms and accessories to be welded 1 Warning signboard	1 Operator ERG 24V with limit switches, control unit USER 1 - 24V DG with RF UNI receiver 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Flashing lamp FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Support for FLASH 24V 1 Installation Kit for 1 ERG with straight arms and accessories to be welded 1 Warning signboard
<b>11316015</b>	<b>11316020</b>

# KIT MERCURY



KIT MERCURY 400 G1	KIT MERCURY 600 G1	KIT MERCURY 800 G1	KIT MERCURY 400 E
1 Gearmotor MERCURY 400 with foundation plate and control unit GATE 1 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor MERCURY 600 with foundation plate and control unit GATE 1 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor MERCURY 800 with foundation plate and control unit GATE 1 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor MERCURY 400 with foundation plate and control unit SLIDE 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH with flashing card 1 Warning signboard
<b>11304500</b>	<b>11304510</b>	<b>11304700</b>	<b>11304565</b>

# KIT MERCURY 24V



KIT MERCURY 400 24V	KIT MERCURY 600 24V	KIT MERCURY 800 24V
1 Gearmotor MERCURY 400 with foundation plate and control unit USER 1 - 24 V DG 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 24V 1 Flashing lamp FLASH 24V 1 Warning signboard	1 Gearmotor MERCURY 400 with foundation plate and control unit USER 1 - 24 V DG 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 24V 1 Flashing lamp FLASH 24V 1 Warning signboard	1 Gearmotor MERCURY 400 with foundation plate and control unit USER 1 - 24 V DG 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 24V 1 Flashing lamp FLASH 24V 1 Warning signboard
<b>11304505</b>	<b>11304605</b>	<b>11304705</b>

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)



# KIT SATURN 600



<b>KIT SATURN 600 OIL Inductive limit switch</b>	<b>KIT SATURN 600 OIL Mechanical limit switch</b>	<b>KIT SATURN 600 G1</b>
<ul style="list-style-type: none"> <li>1 Gearmotor SATURN 600 OIL with inductive limit switch, foundation plate and GATE 1 control unit</li> <li>1 RF UNI 433 MHz receiver</li> <li>1 2 ch. 433 MHz transmitter Roll PLUS</li> <li>1 Key switch ASTER</li> <li>1 Pair of photocells SUNSET</li> <li>1 kit Antenna for FLASH</li> <li>1 Flashing lamp FLASH</li> <li>1 Warning signboard</li> </ul>	<ul style="list-style-type: none"> <li>1 Gearmotor SATURN 600 OIL with mechanical limit switch, foundation plate and GATE 1 control unit</li> <li>1 RF UNI 433 MHz receiver</li> <li>1 2 ch. 433 MHz transmitter Roll PLUS</li> <li>1 Key switch ASTER</li> <li>1 Pair of photocells SUNSET</li> <li>1 kit Antenna for FLASH</li> <li>1 Flashing lamp FLASH</li> <li>1 Warning signboard</li> </ul>	<ul style="list-style-type: none"> <li>1 Gearmotor SATURN 600 OIL with foundation plate and GATE 1 control unit</li> <li>1 RF UNI 433 MHz receiver</li> <li>1 2 ch. 433 MHz transmitter Roll PLUS</li> <li>1 Key switch ASTER</li> <li>1 Pair of photocells SUNSET</li> <li>1 kit Antenna for FLASH</li> <li>1 Flashing lamp FLASH</li> <li>1 Warning signboard</li> </ul>
<b>12401020</b>	<b>12401015</b>	<b>12401005</b>

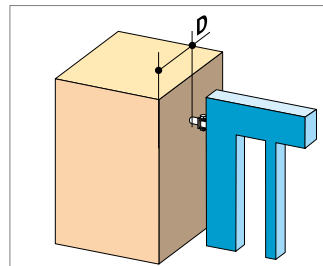




MAX DIMENSIONS BETWEEN PIVOT HINGE AND END OF PILLAR

OPERATOR	STROKE (mm)	D MAX (mm)	D MAX RECOMMENDED (mm)
BETA 24V	290	155	95
ALPHA 330	400	165	135
ALPHA 550	550	255	215
MINITANK	270	125	75
SURF	400	160	100
FLIPPER 24V	-	230	-
GER	-	380	-
HALF TANK 100	270	125	75
HALF TANK 200	390	240	130
FULL TANK 100	270	125	75
FULL TANK 200	390	240	130

## Pantograph Arm



PANTOGRAPH ARM	CODE	D MAX (mm)
95° HALF TANK 270	12710500	300
130° HALF TANK 270	12710515	150
95° MINI TANK 100	12710530	50
130° MINI TANK 100	12710535	155



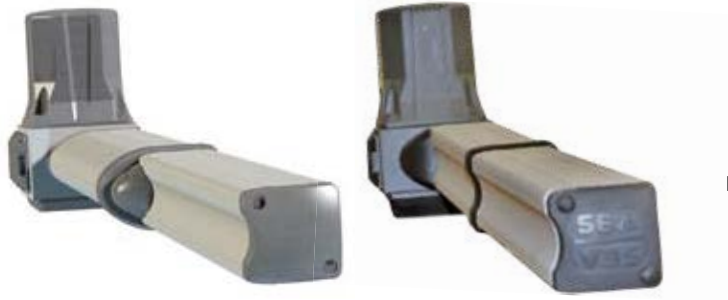


# Electromechanical, surface mounted Swing Gate Operators

## Alpha

330-550  
550 24V

up to 3,3 m  
up to 5,5 m



Alpha Plus

Alpha

pag. 32

## Beta

24V

up to 2 m



pag. 33

## Surf

250(230V) - 350 (230V)

up to  
2,5 - 3,5 m



pag. 34

250(24V) - 350(24V)

up to 3,5 m

## Flipper

24V

up to 2,0 m



pag. 35

## Ger

230V  
24V

up to 3,0 m  
up to 3,0 m



pag. 36





## Mini Tank

270 SC  
270 SB  
270 AC

up to 1,8 m  
up to 3,0 m\*  
up to 3,0 m\*



pag. 28

## Half Tank

270/390 AC  
270/390 SC  
270/390 SA  
270/390 SB

up to 1,8 m  
up to 1,8 m  
up to 1,8 m  
up to 6,0 m\*



pag. 29

## Half Tank 24V HYDRAULIC

270 AC  
390 AC

up to 1,8 m  
up to 2,2 m



pag. 30

## Full Tank

270/390 SC  
270/390 AC  
270/390 SA  
270/390 SB

up to 2,2 m  
up to 2,2 m  
up to 2,2 m  
up to 7,0 m\*



pag. 31



# Underground Swing Gate Operators

## Lyra HYDRAULIC DEVICE + CENTRAL - UP TO 800 Kg

800 CP AC  
800 AC  
800 CP SB  
800 SB

up to 2,0 m  
up to 2,0 m  
up to 4,0 m  
up to 4,0 m



Jack  
800 CP AC  
800 CP SB

pag. 38



Jack  
800



Lyra  
AC  
SB

## Field ELECTROMECHANICAL

220V	Max 350 kg	up to 2,5 m
24V	Max 350 kg	up to 2,5 m
OIL	Max 600 kg	up to 3,5 m
FAST OIL	Max 200 kg	up to 1,5 m
24V OIL	Max 600 kg	up to 3,5 m



pag. 37

## Compact HYDRAULIC COMPACT VERSIONS

400 AC	Max 400 kg	up to 2,0 m
400 SB	Max 400 kg	up to 4,0 m *
800 AC	Max 800 kg	up to 2,0 m
800 SB	Max 800 kg	up to 4,0 m

pag. 39

## Compact ELECTROHYDRAULIC 24V COMPACT VERSION

800 AC    Max 800 kg    up to 2,0 m



pag. 40



\*N.B: Over 2 m SEA recommends to use versions without lock (SB) but with electrolock

# Technical Specifications

SPECIFICATIONS	MINI TANK	HALF TANK 270 / 390 HT ELECTROHYDRAULIC	FULL TANK 270 / 390	GER 230 V AC	BETA 24V	SURF 250 / 350 SURF 250 / 350 24V
Power supply	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±10% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor Power	180 W	220 W / 40 W	220 W	200 W	48 W	180 W / 70W
Shaft Stroke	270 mm	270 / 390 mm	270 / 390 mm	-	290 mm	*400 mm
Cycles/Hour Max	40	55/70	70	15	5	15/ 25
Operating temp*	-40°C /+ 60°C	-40°C /+ 60°C -20°C /+ 55°C	-20°C /+ 55°C	-20°C /+ 55°C	-20°C /+ 55°C	-20°C /+ 50°C
Weight	10 kg	11,4 / 13,6/15 kg	12,8 / 15,2 kg	11,5 kg	3,4 kg	7,5/7,8 kg
Max leaf length	3,0 m	6,0(HT 270) / 7,0 m (HT 390)	6,0 / 7,0 m (FT 390)	3,0 m	2,0 mt	2,5 / 3,5 mt
Opening degrees	90°- 110°	90°- 125°	90°- 125°	90°- 125°	90°- 110°	90°- 120°
Shaft speed	1,5cm/sec (1L pump)	1 cm / sec (1L pump)  1,5cm / sec (1,5L pump)	1 cm/sec (1L pump)  1,5cm/sec (1,5L pump)	-	1,7cm / sec	adjustable (24V) 1,6 cm / sec
Protection class	IP55	IP55	IP55	IP44	IP54	IP44
Starting capacitor	6,3µF	12,5µF/-	12,5µF	16/ - µF	-	6,3µF / - / -
Max thrust	250 Nm	640 Nm	640 Nm	-	1550 daN	2000 daN

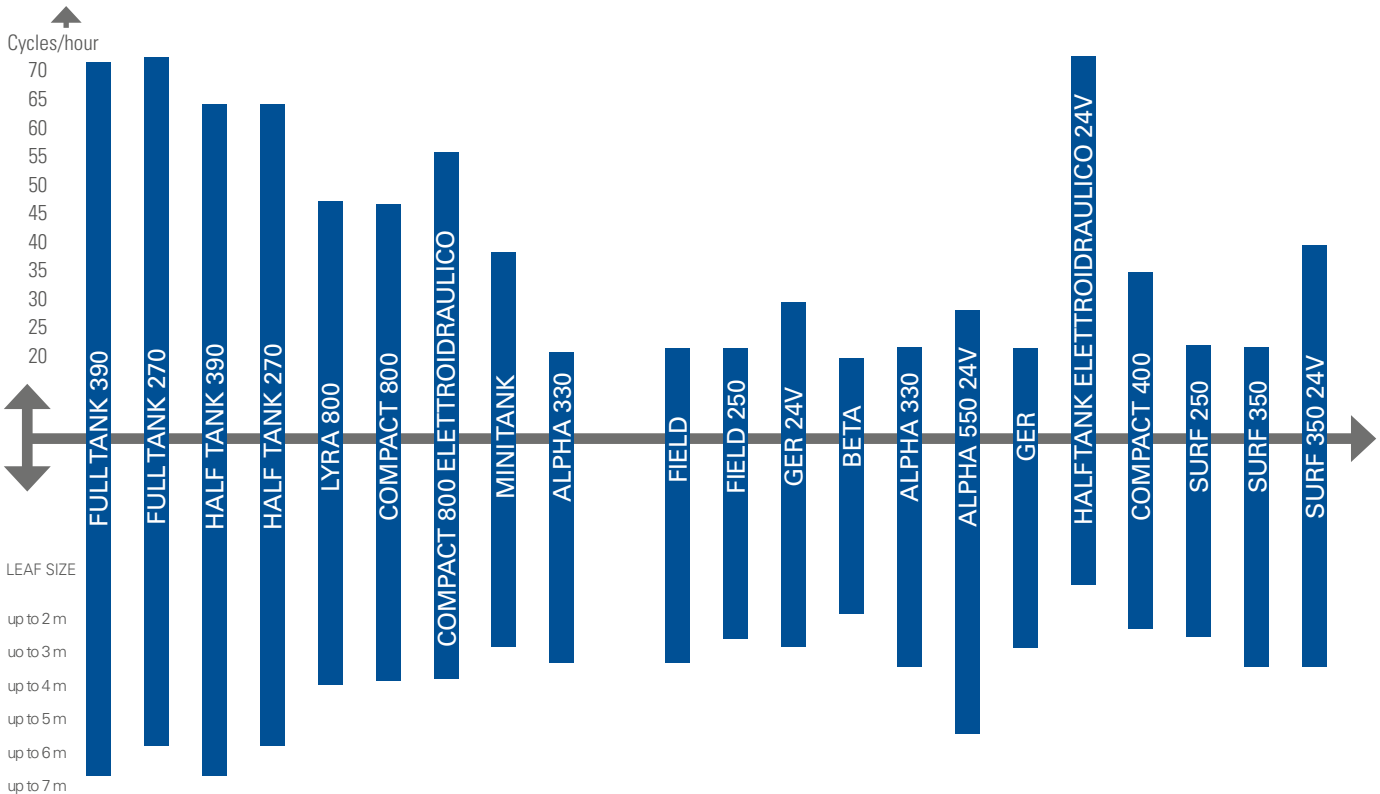
When choosing the operator it is necessary to decide which type of lock you desire to have on the gate (opening and closing, only in opening, without lock)

\* with electronic limit switch in openig and closure

OPERATOR	AC (double lock)	SB (without lock)	SC (lock only in closure)	SA (lock only in opening)
MINI TANK	•	•	•	-
HALF TANK - FULL TANK	•	•	•	•
LYRA800	•	•	-	-
HT ELECTROHYDRAULIC COMPACT 800 ELECTOHYDRAULIC	•	-	-	-
COMPACT 800	•	•	-	-
COMPACT 400	•	•	-	-

(•) lock available (-) lock not available

N.B: In case of installations in very windy places or with closed panelled gates SEA recommends to choose operators without lock (SB)



Note: Operation frequency valid only for the first hour. Starting from the second hour the frequency decreases to 60% of the declared performance (only for 220V operators).

\* In countries where the temperature often falls under 0°C/32°F it is recommended to use the THERMO accessory on page 126.

\* When using the control unit with NOT AUTOMATIC logic or with TIMER do not install hydraulic products with lock.

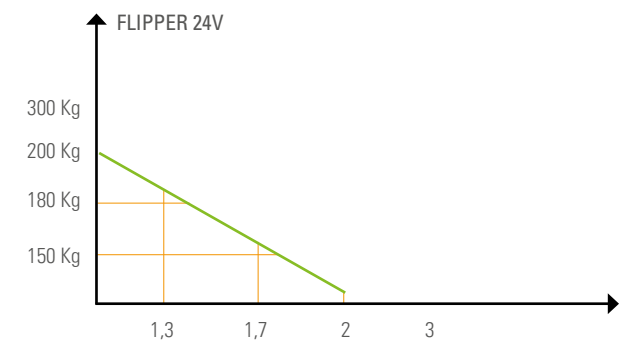
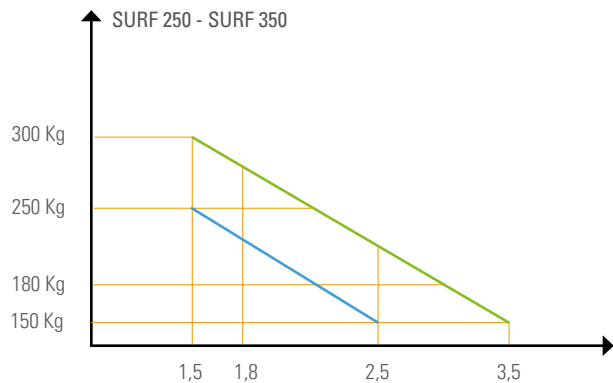
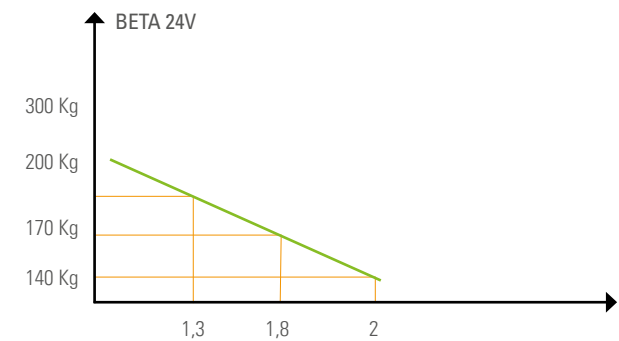
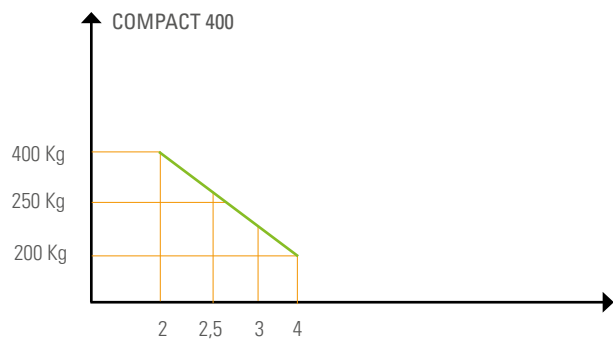
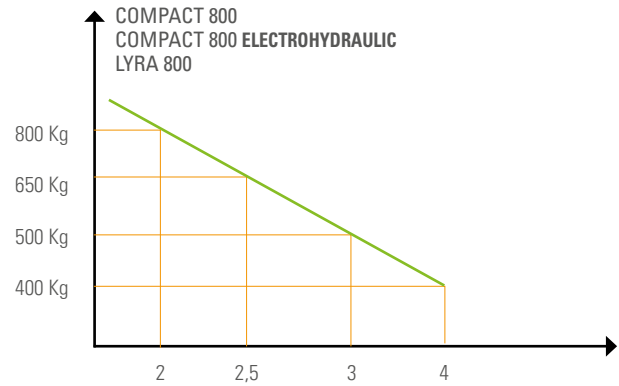
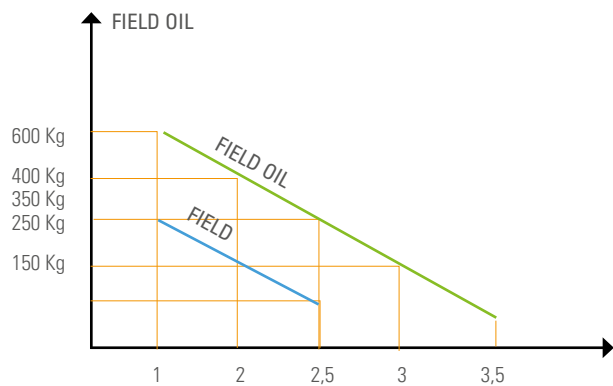
Note: Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V oper.)

In case of installations in cold countries it is recommended to install the heater THERMO for both hydraulic and oil bath products.



# Technical Specifications

SPECIFICATIONS	ALPHA 330	ALPHA 550 24V/CC	Field 24V dcc Oil Field 230 Vac Oil Field 230 Vac Fast Oil	Field	Lyra 800 Lyra 800 CP	Compact 400/ Compact 800/ Compact 800 electrohydraulic	Flipper 24V
Power supply	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor Power	260 W	70 W	150/310/380 W	280 W	220 W	220/40 W	40 W
Shaft Stroke	400 mm	550 mm	-	-	-	-	-
Cycles/Hour Max	20/40 (24V)	40	50/20/20	15	45	30/45	20
Operating temp*	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	9,5 kg	11 kg	13/12,5/12,5 kg	12 Kg	8 kg	11,6/13,8 kg	8 kg
Max leaf length	3,3 mt	5,5 mt	3/3,5/1,6 m	3 m	4,0 mt	3,0/4,0 mt	2,0 mt
Opening degrees	90°- 120°	90°- 120°	110 °- 180° optional	110 °- 180° optional	100°- 180°	140°/180°	110°
Shaft speed	1,7 cm/sec	1,7 cm/sec	-	-	-	-	-
Angle speed	-	-	3°- 6°/5°/10°/sec	6°/sec	7°/sec	10°/sec-7°/sec-7°/sec	12°/sec
Protection class	IP44	IP54	IP67	IP67	IP67	IP67	IP24
Starting capacitor	6,3 µF	-	10/12,5 µF	10 µF	12,5µF	12,5 µF/-	-
Max. thrust	350 daN	170 daN	300/300/200 Nm	250 Nm	56 daN	20/56/56 daN	-



(\*) Depending on the chosen model  
 N.B: 1 - In case of installations in very windy places or with closed panelled gates SEA recommends to choose operators without lock (SB).  
 2 - Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V operators)(\*\*)  
 (\*\*\*) When using the control unit with NON AUTOMATIC logics and with Trimmer do NOT use hydraulic products with lock





# Mini Tank

**HYDRAULIC SWING GATE OPERATOR FOR RESIDENTIAL USE OR SMALL CONDOMINIUM FOR LEAF LENGTHS UP TO MAX 3 M**



- Oil lubrication of all mechanical components
- Extremely silent and hydraulic reliability
- Available versions: (SC) with lock in closing, (SB) without lock and (AC) with double lock with a maximum stroke of 270mm.
- Internal mechanical- electronic stop for best operation in limit switch position (optional)
- Operator with external, hydraulic locks for easy replacement
- Rod cover fixing without ties
- Operator prepared for external release with box and cable
- Models with ball joint on the TOP (AC) - (SC) - (SB) versions available.
- On request MINI TANK SC pedestrian version with a stroke of 170 mm.
- 16mm stem diameter .
- Swinging back fixing fork (optional in luminum)



Internal mechanical and electronic stops kit for the optimal operation of limit switches (optional)



Metal release system PLUS, accessible through lock for max security (optional)



Bypass Valves



Round joint for stroke adjustment (only versions MINI TANK TOP)

28

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
10103505	MINI TANK 270 AC	400	1,8	120°	40	40
10111505	MINI TANK 270 SC	400	1,8	120°	40	40
10101505	MINI TANK 270 SB	400	3,0	120°	40	40
10112035	MINI TANK DOUBLE SC	400	1,8	120°	40	12
10102005	MINI TANK DOUBLE SB	400	3,0	120°	40	12
10103010	MINI TANK DOUBLE AC	400	1,8	120°	40	12
10111030	MINI TANK DOUBLE PLUS SC	400	1,8	120°	40	12
10101015	MINI TANK DOUBLE PLUS SB	400	3,0	120°	40	12
10103005	MINI TANK DOUBLE PLUS AC	400	1,8	120°	40	12
10103135	MINI TANK AC TOP with round joint	400	1,8	120°	40	40
10112060	MINI TANK SC TOP with round joint	400	1,8	120°	40	40
10112065	MINI TANK SB TOP with round joint	400	3,0	120°	40	40

N.B: The versions DOUBLE are with n°2 operators and one SWING 2 control unit + 433 Mhz receiver  
The PLUS versions are equipped with GATE 2 DG control unit + 433 MHz receiver

## ACCESSORIES



12715115

PSM mechanical stop kit



12710060

SECHT external release kit with box, lock and 2,5 m cable



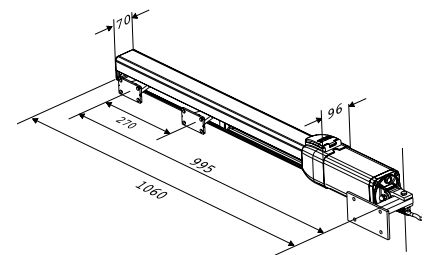
65000045

OILH green oil for hydraulic motors (5 liters)



12710345

HTLOCK manual release PLUS with lock



23105345(\*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)



23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management



12715070

BRA adjustable back bracket to screw n.2 pcs



12715270

LSMT270 ki mechanical/electronic limit switch for HT 270



12710855

Aluminium oscillating back fixing fork



(\*) in case of side wall



# Half Tank

## HYDRAULIC SWING GATE OPERATOR FOR CONDOMINIUM USE MAX LEAF LENGTH 7M



- Oil lubrication of all mechanical components
- Extremely silent and hydraulic reliability
- Anti crushing guaranteed through by-pass valves for max. thrust setting
- On request version with hydraulic slowdown only in closing or in opening/closing.
- Version (AC) with lock in closing and opening, (SB) only in closing), (SC) only in closing, (SA) only in opening or (SB) without lock
- 270mm or 390mm stroke.
- Optional mechanical - electronic stops Kit
- 20mm rod diameter
- Standard ball joint on all versions for precise adjustment of the stroke
- Aluminium standard oscillating back fixing fork
- PLUS metal release standard on 390 versions and optional on 270 versions



Internal mechanical and electronic stops kit for the optimal operation of limit switches (optional)



Metal release system PLUS, accessible through lock for max security (optional)



Round joint for stroke adjustment



On request versions with hydraulic slowdown for a smooth approach of the leaves in closing

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
10401026	HALF TANK 270 AC	700	1,8	120°	55	40
10431006	HALF TANK 270 SC	700	1,8	120°	55	40
10411011	HALF TANK 270 SA	700	6,0	120°	55	40
10421026	HALF TANK 270 SB	700	6,0	120°	55	40
10401051	HALF TANK 270 DOUBLE AC	700	1,8	120°	55	12
10421041	HALF TANK 270 DOUBLE SB	700	6,0	120°	55	12
10501036	HALF TANK 390 AC*	700	2,2	120°	55	40
10531006	HALF TANK 390 SC*	700	2,2	120°	55	40
10511011	HALF TANK 390 SA*	700	7,0	120°	55	40
10521016	HALF TANK 390 SB*	700	7,0	120°	55	40

N.B: Double version include GATE 2 ROLL control unit + 433 MHz receiver and n° 2 HT LOCK PLUS metal release with lock  
\* With metal PLUS release

### ACCESSORIES



12715105

PS270 Kit mechanical stop for HALF TANK 270



12715110

PS390 Kit mechanical stop for HALF TANK 390



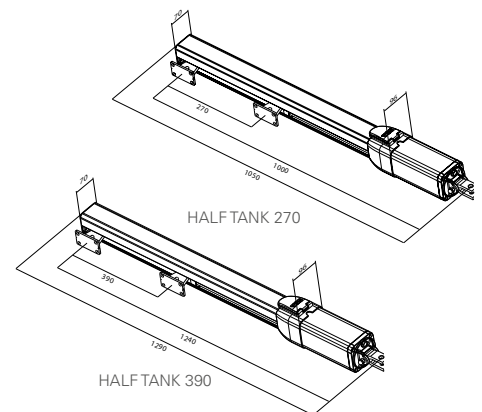
12710060

SECHT external release kit with box, lock and 2,5 m cable



12710345

HTLOCK metal release PLUS with lock



23105345(\*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)



23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management



12715070

BRA Adjustable back bracket to screw n.2 pcs



65000045

OILH green oil for hydraulic motors (5 liters)



12710490

LSHT270 ki mechanical/electronic limit switch for HALF TANK 270



12710495

LSHT390 ki mechanical/electronic limit switch for HALF TANK 390



(\*) in case of side wall



# Half Tank 24V

**LOW VOLTAGE (24V) HYDRAULIC SWING GATE OPERATOR MAX LEAF LENGTH 5M**



- Oil lubrication of all mechanical components
- Noiseless and hydraulic reliability
- High anti-crushing safety thanks to the control unit with amperometric detection.
- Force and slowdown adjustment on USER 2 - 24V DG HYDRO control unit
- (AC) Versions with lock in opening and closing
- Emergency batteries and solar panel SUNNY KIT for recharge can be applied
- Standard, mechanical and electronic limit switches in opening and closing
- Standard PLUS metal release system
- 20mm rod diameter.
- Standard aluminum oscillating back fixing fork



Internal mechanical and electronic stops kit for the optimal operation of limit switches



Metal release system PLUS, accessible through lock for max security



Round joint for stroke adjustment

30

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
10403000	HALF TANK AC 270 24V DC	700	1,8	120°	70	40
10503000	HALF TANK AC 390 24V DC	700	2,2	120°	70	27

NB: Complete with mechanical and electronic stops and metal release  
N.B. l'installation through JOLLY is recommended

## ACCESSORIES



23106305

**BAT7**  
battery kit with box (7AH)



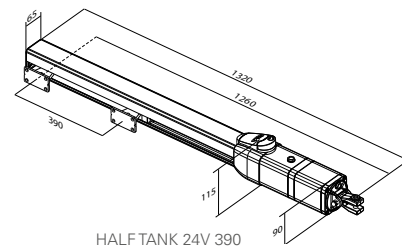
12715070

**BRA** Adjustable back bracket to screw n.2 pcs

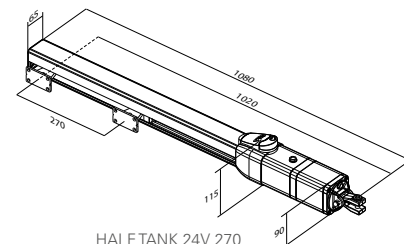


65000045

**OILH** green oil for hydraulic motors (5 liters)



HALF TANK 24V 390



HALF TANK 24V 270



23105276

**JOLLY** palm for control unit DG functions management



23101105

**ESUN** solar panel's control unit and battery - charger



23106370(\*)

**Kit SUNNY**  
20W solar panel + control unit + battery



NB: 23101105 to combine with 23106305 (\*)KIT SUPER SUNNY for more power





# Full Tank

**HYDRAULIC SWING GATE OPERATOR FOR CONDOMINIUM /INDUSTRIAL USE FOR LEAF LENGTHS UP TO 7M**



- Oil lubrication of all mechanical components
- Noiseless and hydraulic reliability
- Anti crushing guaranteed through by-pass valves for max. thrust adjustment
- 270mm or 390mm stroke
- Available versions with hydraulic slowdown in closing (on request also adjustable)
- Versions (AC) with lock in opening and closing, (SC) only in closing, (SA) only in opening, (SB) without lock.
- 20mm rod diameter
- Standard, oscillating aluminium fork back fixing
- Hydraulic distributor out of strong aluminium



Release with lock in case of electric power cut



Round joint for stroke adjustment



On request versions with hydraulic slowdown for a smooth approach of the leaves in closing

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
10601005	FULL TANK 270 AC	1000	1,8	120°	70	40
10631005	FULL TANK 270 SC	1000	1,8	120°	70	40
10611005	FULL TANK 270 SA	1000	7,0	120°	70	40
10621010	FULL TANK 270 SB	1000	7,0	120°	70	40
10601060	FULL TANK 270 DOUBLE AC	1000	1,8	120°	70	12
10621050	FULL TANK 270 DOUBLE SB	1000	7,0	120°	70	12
10701010	FULL TANK 390 AC	1000	2,2	120°	70	27
10731005	FULL TANK 390 SC	1000	2,2	120°	70	27
10711005	FULL TANK 390 SA	1000	7,0	120°	70	27
10721005	FULL TANK 390 SB	1000	7,0	120°	70	27

N.B: DOUBLE version includes GATE 2 ROLL control unit + 433 MHz receiver

## ACCESSORIES



12715105

**PS270** Kit mechanical stop for FT 279



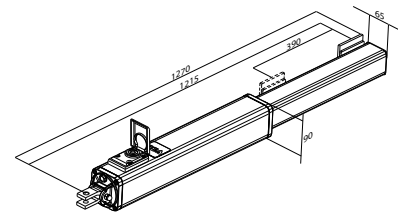
12715110

**PS390** Kit mechanical stop for FT 390

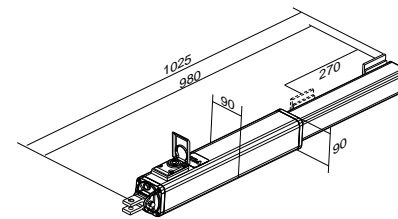


12715070

**BRA** Adjustable back bracket to screw n.2 pcs



FULL TANK 390



FULL TANK 270



23105345(\*)

**SAFETYGATE** linear encoder kit for 220V swing operator for control units with encoder management (side wall)



23105335

**SAFETYGATE** encoder kit for 220V swing operator for control units with encoder management



65000045

**OILH** green oil for hydraulic motors (5 liters)

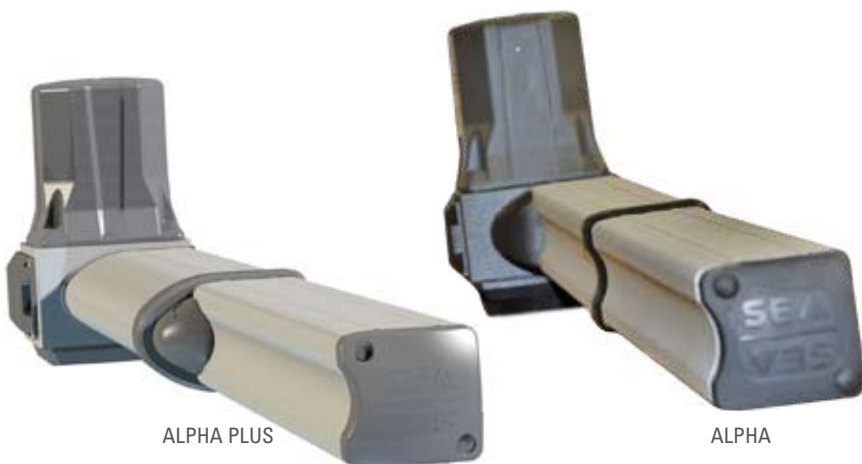


(\*)in case of opening with lateral wall



# Alpha 330 - 550

**ELECTROMECHANICAL SWING GATE OPERATOR**  
NON REVERSING, STRONG, SECURE AND EASY TO INSTALL



ALPHA PLUS

ALPHA

- High quality electromechanical operator for leaf lengths of max. 5,5m.
- 230V or 24V available, in the versions: standard and PLUS
- Strong die-cast aluminum body for longer life
- Simple and fast installation, thanks to a front lid hiding the power cable terminal.
- Two models available: 330 for max. leaf length of 3,3m and 550 for max. leaf length of 5,5m.
- Cables and capacitors inside the operator, reachable through front lid
- On request adjustable, mechanical stop in opening and closing Kit (only for basic version) Recommended in case of no limit stops on the ground
- Emergency batteries and KIT SUNNY solar panel for recharge can be applied (Optional for ALPHA 550 24V)
- Standard, oscillating aluminium fork back fixing
- Stainless steel rod
- On request version without housing for installations closer to the gate tip
- Optional, oscillating aluminium fork back fixing (standard on ALPHA 550)



Release with key (serialon PLUS version, optional on the basic version)



Adjustable, electronic limit switch (only PLUS version)



Release with SEA personalized key (standard version)

32

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
10933230D-1	ALPHA 330 right	330	3,3	120°	20	24
10933230S-1	ALPHA 330 left	330	3,3	120°	20	24
1093323PD-1	ALPHA 330 PLUS right	330	3,3	120°	20	24
1093323PS-1	ALPHA 330 PLUS left	330	3,3	120°	20	24
10955230D-1	ALPHA 550 right	550	5,5	120°	20	27
10955230S-1	ALPHA 550 left	550	5,5	120°	20	27
1095524PD-1	ALPHA 550 24V DC PLUS right	550	5,5	120°	20	27
1095524PS-1	ALPHA 550 24V DC PLUS left	550	5,5	120°	20	27

N.B: PLUS version is provided with electronic limit switch with micro switch and release lever with lock

## ACCESSORIES



23106305

**BAT7** battery kit with box (7AH)



12715070

**BRA** Adjustable back bracket to screw n.2 pcs



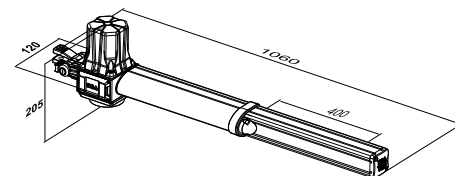
23105345(\*)

**SAFETYGATE** linear encoder kit for 220V swing operator for control units with encoder management (side wall)

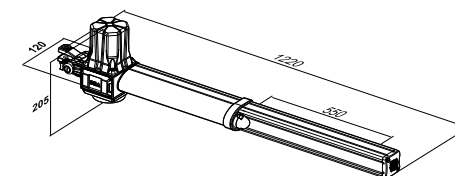


23105335

**SAFETYGATE** encoder kit for 220V swing operator for control units with encoder management



ALPHA 330



ALPHA 550



10900230

**ENCALPHA** Encoder kit for ALPHA 230V



12710306

**PSA** Kit mechanical stop for ALPHA 330



23106370(\*\*)

**Kit SUNNY** 20W solar panel + control unit +battery



23101105

**ESUN** solar panel's control unit and battery -charger



12715100

**KEY ALPHA** release key (for ALPHA basic)



12710855

Aluminium oscillating fork back fixing fork



NB: ESUN 23101105 to combine with BAT7 23106305 (\*)in case of opening with lateral wall

(\*\*) KIT SUPER SUNNY for more power



# Beta 24V

## ELECTROMECHANICAL SWING GATE OPERATOR NON REVERSING 24V LOW TENSION FOR RESIDENTIAL USE



- Ideal for swing gates of small dimensions (2 m or 200Kg) with few opening cycles/ day
- Simple, secure and easy to install
- Adjustable back fixings with holes for easy installation
- 24V DC power supply for max. safety and easy adjustment during installation
- Slowdowns in opening and closing with control units (USER 2-24V DG)
- Reversing on obstacle through amperometric system on control unit
- Emergency batteries and KIT SUNNY solar panel for recharge can be applied
- On request BETA FM version with standard mechanical stops



Release with personalised key accessible through door



Adjustable, mechanical limit switch in opening and closing (standar on BETA FM versions)



Adjustable back fixing with holes

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
11001005	BETA 24V	200	2,0	110	20	80
11002020	BETA DOUBLE 24V	200	2,0	110	20	12
11002025	Kit BETA 24V	200	2,0	110	20	12

Note: BETA FM version available on request

### ACCESSORIES



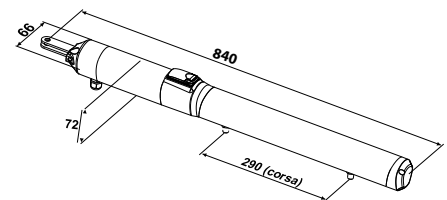
23105276

**JOLLY** palm for Control Unit DG functions management



23106305

**BAT7** battery kit with box (7AH)



23101105

**ESUN** solar panel's control unit and battery -charger



23106370(\*)

**Kit SUNNY** 20W solar panel + control unit +battery



NB: ESUN 23101105 to combine with BAT7 23106305 (\*) KIT SUPER SUNNY for more power



# Surf 250 / 350

**ELECTROMECHANICAL SWING GATE OPERATOR**  
FOR LEAF LENGTH UP TO 3,5M OR MAX. 300KG WEIGHT



- Robust, electromechanical operator with die-cast aluminium body, weather resistant polyester paint.
- Outside release with cable and safety box (optional only for X versions)
- Versatile: 230V or 24V low tension power supply.
- Convenient terminal in a separate compartment for cabling
- X version equipped with mechanical and electronic limit switches and metal release lock.
- Adjustable back fixing with holes
- Emergency batteries and recharge solar panel KIT SUNNY (Surf 24V) can be applied
- Operator with small width for installations also in reduced spaces
- Reversing version available
- Robust endless screw supported by bearings for max. resistance



Metal manual release (standard series **X**)



Mechanical/electronic stops (standard series **X**)



Gears with bearings

34

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
11005020	SURF 250 X	250	2,5	120°	15	36
11005010	SURF 250 24V	250	2,5	120°	25	36
11005000	SURF 250	250	2,5	120°	15	36
11005085	SURF 350	300	3,5	120°	20	36
11005060	SURF 350 reversible	300	3,5	120°	20	36
11005070	SURF 350 X	300	3,5	120°	20	36
11005065	SURF 350 24V X	300	3,5	120°	25	36
11005075	SURF 350 X con encoder	300	3,5	120°	20	36

NB: **X** with mechanical and electronic limit switch to combine with limit switch's management control unit (GATE or USER) and manual release with metal lock

## ACCESSORIES



23106305

**BAT7** battery kit with box (7AH)



23105276

**JOLLY** palm for Control Unit DG functions management



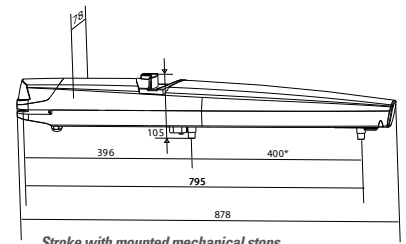
12715235

**PSS** mechanical stops (2pcs)



12715200

**SECSURF** external release (box + 2,5 m cable)



23101105

**ESUN** solar panel's control unit and battery -charger



23106370(\*)

**Kit SUNNY** 20W solar panel + control unit + battery



12715265

**BRASU** adjustable back fixation bracket no welding (2 pcs)



12715205

**KEY SURF** metal lock cylinder with key and lever for release



12710805

**BRASS** back attacks before joined with holes for SURF



NB: ESUN 23101105 to combine with BAT7 23106305

(\*) KIT SUPER SUNNY for more power



# Flipper

**ELECTROMECHANICAL NON REVERSING SWING GATE OPERATOR FOR LARGE PILLARS AND LEAF LENGTH UP TO 2M OR MAX. 200KG WEIGHT**



Adjustable mechanical and electronic limit switches in opening and closing



Release system through aluminium lever and safety lock

- Suitable for installations where the dimension between gate pivot and fixing wall is less than 23cm
- Width of max. 16,5cm for installations in reduced spaces
- Standard mechanical and electronic limit switches on FLIPPER PLUS
- Mechanical limit switch in opening (KIT FLIPPER DOUBLE, BASIC version)
- Release with personalized key (Metal lock FLIPPER PLUS)
- Emergency batteries Integrable into the operator to ensure operation in case of power cut (Special batteries compartment)
- Micro-switch for stop function in case of release activation during service (Optional on KIT FLIPPER DOUBLE 24V BASIC)
- Low tension version (24V) available for max. safety during operation and for easy adjustment of the approach speed and electronic obstacle detection
- Separate central unit compartment. USER 2-24V DG control unit, programmable with display
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied
- Optional external release with stainless steel cable and safety box
- On request longer arm out of steel and sliding arm for side wall installation

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
10854110	FLIPPER DOUBLE BASIC	200	2,0	120°	20	12
10854005-1	FLIPPER SLAVE PLUS*	200	2,0	120°	20	12
10854000-1	FLIPPER MASTER PLUS**	200	2,0	120°	20	12

\* Without control unit with articulated arm \*\*With control unit and articulated arm  
 NB: KIT FLIPPER DOUBLE 24V BASIC without microswitch on release lever with mechanical limit switch in opening, provided with manual release with nylon lock  
 KIT FLIPPER PLUS are provided of manual release with metal lock of line. The PLUS version are provided of mechanical and electronic limit switch and micro on release's lever

## ACCESSORIES



23106305

**BAT7** battery kit with box (7AH)



23105276

**JOLLY** palm for control unit DG functions management



12710412

**LSFM** kit mechanical limit switch in opening and closing for one FLIPPER DOUBLE 24V BASIC



12710610

**Lock** with key DIN and lock cover for FLIPPER DOUBLE 24V BASIC



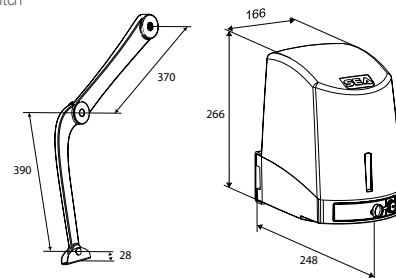
12710615

**Lock cover** for basic lock for FLIPPER DOUBLE 24V BASIC



23106340

**BAT 1,2** small batteries for FLIPPER 1,2 AH



12710810

Long arm for FLIPPER



23101105

**ESUN** solar panel's control unit and battery - charger



23106370(\*)

**Kit SUNNY** 20W solar panel + control unit + battery



12710470

**SECFM** external release kit (with lock case and 2,5 m cable)



12710219

**CLI** sliding arm for opening in case of wall side (for one motor)



12710410

**LSFL** er KIT mechanical/electronic limit switch for FLIPPER DOUBLE 24V BASIC



12710475

**MSFL** Microswitch lock for kit FLIPPER DOUBLE 24V BASIC



NB: ESUN 23101105 to combine with BAT7 23106305

(\*) KIT SUPER SUNNY for more power



Ger

**ELECTROMECHANICAL, RESIDENTIAL SWING GATE OPERATOR FOR LARGE PILLARS AND LEAF LENGTH UP TO 3M**



- Ideal for gates with large pillars
- Suitable for installations where the dimension between gate pivot and fixing wall is less than 38cm
- Release with personalized key
- Simple and quick installation
- Low tension version (24V) available for max. safety during operation and for easy adjustment of the approach speed and electronic obstacle detection
- Optional encoder kit for reversing on obstacle (220V)
- Optional stop micro-switch in opening and closing for quick and punctual leaf adjustment



Jointed arm



Internal foto

36

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/HOUR	PCS FOR PALLETS
1131023DX	GER DX*	400	3,0	125°	15	45
1131023SX	GER SX*	400	3,0	125°	15	45
1131024DX	GER 24V DX*	400	3,0	125°	15	45
1131024SX	GER 24V SX*	400	3,0	125°	15	45

\* Without control unit with articulated arm

**ACCESSORIES**



23106305

**BAT7**  
battery kit with box (7AH)



23106370(\*)

**Kit SUNNY**  
20W solar panel + control unit + battery



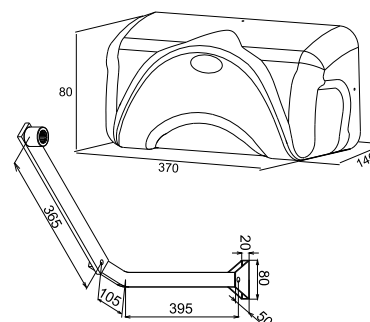
12710135

**LSGER** limit switch for GER motor 220V



11303005

**ENCGER** encoder kit for GER motor 220V



23101105

**ESUN** solar panel's control unit and battery -charger



NB: ESUN 23101105 to combine with BAT7 23106305



# Field • Field Oil

## ELECTROMECHANICAL UNDERGROUND NON REVERSING OPERATOR IN OIL BATH FOR RESIDENTIAL SWING LEAVES WITH SINGLE-LEAF LENGTH OF 3,5M OR 600KG MAX. WEIGHT



- Noiseless, secure and reliable
- Oil bath lubrication of the gears for longer life (only FIELD OI L)
- Slow or fast also 24V low tension versions available for max. operation safety.
- Adjustable slowdown in opening and closing through GATE / USER control units
- Right/ left
- Cataphoresis treated foundation box
- On request stainless steel foundation box available
- Adjustable mechanical stops in closing and opening (optional in opening on FIELD)\*
- Electronic limit switch kit optional only if combined with a control unit with limit switch administration (GATE 2 D G or USER 2-24V D G )
- On request 180° version with chain transmission available
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied. (for FIELD 24V)
- OIL version with sturdy gear crown out of processed steel



Adjustable mechanical stop in opening and closing

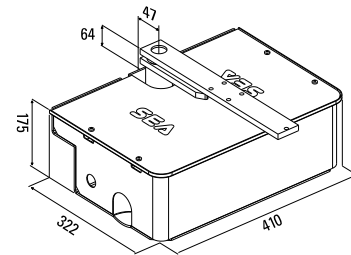


Plus release with lever and security lock

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	OPENING TIME	MAX CYCLES/HOUR	PCS FOR PALLETS
12300240	FIELD*	250	2,5	20 sec/90°	15	45
12300006	FIELD 24V*	250	2,5	Adjustable	25	45
12300215	FIELD OIL**	600	3,5	20 sec/90°	20	45
12300010	FIELD 24V OIL**	600	3,5	Adjustable	40	45
12300220	FIELD FAST OIL**	200	1,5	10 sec/90°	30	45
12301065	FIELD DOUBLE*	250	2,5	20 sec/90°	15	45
12301030	FIELD DOUBLE OIL**	600	3,5	20 sec/90°	20	45
12301090	FIELD DOUBLE 24V*	250	2,5	Adjustable	25	45
12301025	FIELD DOUBLE 24V OIL**	600	3,5	Adjustable	40	45

\* Versions with mechanical stops in closing

\*\* Versions with mechanical stops in closing and opening



### FIELD OIL DOUBLE FIELD OIL 24 V DOUBLE PACKAGE

- N.2 In-ground operators FIELD OIL (or FIELD OIL 24 V)
- N.2 Box with accessories
- N.2 Release system
- N.1 Mounting instructions and general notice
- N.1 Warning sign-board
- N.1 Control unit GATE 2 DG (USER 2 24V DG for FIELD 24V)

### ACCESSORIES



23106305

**BAT7** battery kit with box (7AH)



65000055

**OILGS** yellow oil for FIELD/SATURN (5 L)



23105345(\*)

**SAFETYGATE** linear encoder kit for 220V swing operator for control units with encoder management (side wall)



23105335

**SAFETYGATE** encoder kit for 220V swing operator for control units with encoder management



12715245

Electronic limit switches (only central units with limit switch)



12300315

**BOXFI** stainless steel box for FILED pre-set for adjustable opening/closing stops



12300305

**BOXF** cataphoresis treated box for FIELD pre-set for adjustable opening/closing stops



12715210

**PSFO** mechanical stops in opening for FIELD DOUBLE



23101105

**ESUN** solar panel's control unit and battery -charger



23106370(\*)

**Kit SUNNY** 20W solar panel + control unit +battery



12710275

**LOCKINTP** release PLUS with cylinder and key



12710270

**LOCKINTS** basic release



12710400

**AP180** kit for opening up to 180° for FIELD (max leaf opening 2 m)



NB: DOUBLE version includes : N.2 operators, N.2 accessories box, N.2 basic release system, N.1 control unit, N.1 433 MHz receiver UNI.  
FILED DOUBLE OIL includes N.2 operators, N.2 accessories box, N.2 plus release systems with lock, N.1 control unit , N.1 433 MHz receiver ROLL  
NB: ESUN 23101105 to combine with BAT7 23106305 (\*) KIT SUPER SUNNY for more power



# Lyra, Jack 800 - JACK 800 CP



**HYDRAULIC UNDERGROUND OPERATOR FOR RESIDENTIAL SWING LEAVES WITH MAX. LEAF LENGTH OF 4M OR 800KG MAX. WEIGHT**



Jack 800



Jack 800 CP (With carrying box)

- Noiseless and hydraulic reliability
- Version with separate underground hydraulic pump unit and hydraulic jack to be connected with copper tubes
- Oil lubrication of all mechanical components
- Release with personalized key on hydraulic pump unit LYRA in case of electric power cut
- Available versions with adjustable hydraulic slowdown for smooth leaf approach (BRAKE version)
- (Cataphoresis) steel foundation box included in the operators' code number (Jack or Jack CP)
- Available versions: (AC) with double lock or (SB) without lock.
- Lyra 800CP carrying box for easy assistance and release system with key and lever LOCKINTS or LOCKINTP (obligatory accessory)
- On request version without brake and Jack 400 (with or without brake) (see N.B.)



Force adjustable



Galvanized steel and polyester painted box (included)

38

CODE	NAME	MAX CYCLES/HOUR	PUMP (lt)	MAX LEAF LENGTH (M)	OPENING TIME (sec.)	PCS FOR PALLETS
12001005	LYRA Unit AC with box	45	0,5	2,0	7,0	-
12002005	LYRA Unit SB with box	45	0,5	4,0	7,0	-

CODE	NAME	MAX CYCLES/HOUR	ROTATION ANGLE	MAX LEAF WEIGHT (KG)	PCS FOR PALLETS
12015010	JACK 800 jack brake 100° with box	45	100°	800	-
12015050	JACK 800 jack brake 180° with box	45	180°	800	-
12015030	JACK 800 CP jack brake 100°**	45	100°	800	-
12015070	JACK 800 CP jack brake 180°**	45	180°	800	-

\*\* With carrying box

## ACCESSORIES



65000045

**OILH** green oil for hydraulic motors (5 liters)



12710270

**LOCKINTS** basic release only for JACK CP



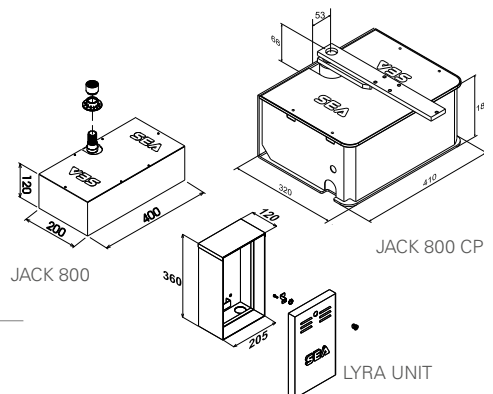
12710275

**LOCKINTP** release PLUS with cylinder and key only for JACK CP



12710425

**PSC** adjustable mechanical stops in opening and closing (2 pcs) only for JACK CP



JACK 800

JACK 800 CP

LYRA UNIT



23105345

**SAFETYGATE** linear encoder kit for 220V swing operator for control units with encoder management (side wall)



23105335

**SAFETYGATE** encoder kit for 220V swing operator for control units with encoder management



12715020

**LOP5** copper pipe Ø 8 (5 mt)

## UNIT PACKAGE

- N.1 Unit
- N.1 Box for unit
- N.1 starting Capacitor
- N.1 kit mounting accessories
- N.1 Mounting instructions and general notice MARTINETTO/CP PACKAGE
- N.1 Lyra 800 Jack
- N.1 Angular box/ Carrying box
- N.1 kit mounting accessories
- N.1 Mounting instructions and general notice
- N.1 Warning sign-board



NB: Version without box (35 Euros off from price list), version without brake JACK 800 (35 Euros off from price list), version JACK 400 available with brake or without brake  
\*Not sold on BRAKE version





# Compact

**HYDRAULIC UNDERGROUND OPERATOR FOR RESIDENTIAL SWING LEAVES WITH MAX. LEAF LENGTH OF 4M OR 800KG MAX. WEIGHT.**



- Hydraulic quality and reliability
- Compact version with hydraulic pump and jack
- Oil lubrication of all mechanical components
- Low noise. Operator compatible with old COMPACT foundation box. (on request)
- Release system on leaf with personalized key (basic release)
- PLUS release with safety lock and activation lever
- Additional release on operator
- Adjustable hydraulic slowdown for smooth leaf approach (BRAKE version)
- Adjustable mechanical limit switch in opening and closing inside the foundation box (optional)
- (Cataphoresis) steel foundation box with brushed stainless steel lid
- Stainless steel foundation box on request
- Optional mechanical/electronic limit switch for accurate operation on physical stops



Positive stops



PLUS release with lever and security

CODE	NAME	MAX CYCLES/HOUR	PUMP (lt)	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	PCS FOR PALLETS
12112105	COMPACT 400 AC 140°	30	0,5	400	4,0	45
12112110	COMPACT 400 SB 140°	30	0,5	400	4,0	45
12120167	COMPACT 800 AC 140°	30	0,5	800	4,0	45
12120175	COMPACT 800 SB 140°	30	0,5	800	4,0	45
12120165	COMPACT 800 AC BRAKE 140°	30	0,5	800	4,0	45
12120170	COMPACT 800 SB BRAKE 140°	30	0,5	800	4,0	45
12121000	COMPACT 800 AC BRAKE 180°	30	0,5	800	4,0	45
12121010	COMPACT 800 SB BRAKE 180°	30	0,5	800	4,0	45

## ACCESSORIES



12101055

**BOXCI** self-carrying box in stainless steel for COMPACT 400/800 and COMPACT 24V



12101060

**BOXC** treated box (cataphoresis) with stainless steel lid



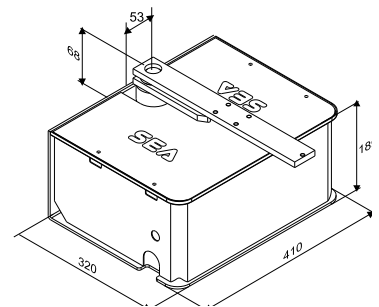
65000045

**OILH** green oil for hydraulic motors (5 liters)



12710270

**LOCKINTS** basic release



12710275

**LOCKINTP** Release PLUS with cylinder and key



23105345

**SAFETYGATE** linear encoder kit for 220V swing operator for control units with encoder management (side wall)



23105335

**SAFETYGATE** encoder kit for 220V swing operator for control units with encoder management



12710425

**PSC** adjustable mechanical stops in opening and closing (2 pcs)



12710428

**PSCE** mechanical / electronic stop (2 pcs) for better slowing down function and optimization work's time

## COMPACT 400/800 PACKAGE

- N.1 Operator
- N.1 Mounting accessories kit
- N.1 Starting capacitor
- N.1 Mounting instructions and general notice
- N.1 Warning sign-board



Note: Gates with leaf lengths over 2m require the use of an electro-lock  
\*Not sold on BRAKE version



# Compact 800 24V

**HYDRAULIC UNDERGROUND 24V DC OPERATOR FOR RESIDENTIAL SWING LEAVES WITH MAX. LEAF LENGTH OF 4M OR 800KG MAX. WEIGHT.**



- Hydraulic quality and reliability
- Compact version with 24V hydraulic pump and jack
- Oil lubrication of all mechanical components
- Low noise and max. safety through amperometric obstacle detection and reversing.
- Operator compatible with old COMPACT foundation box. (On request)
- Release system on leaf with personalized key
- PLUS release with safety lock and activation lever
- Additional release on operator
- Slowdown and force adjustment on USER 24V DG HYDRO control unit
- (Cataphoresis) steel foundation box with brushed stainless steel lid
- On request stainless steel or hot galvanized foundation box
- Standard electronic limit switches with mechanical stops
- Optional batteries for operation during power cut
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied.



Standard mechanical and electronic stops



PLUS release with lever and security

40

CODE	NAME	MAX CYCLES/HOUR	PUMP (l)	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	PCS FOR PALLETS
12122005	<b>COMPACT 800 ELECTROHYDRAULIC</b> AC 110° 24V*	45	1 lt	800	4,0	45

## ACCESSORIES



12101055

**BOXCI** self-carrying box in stainless steel for COMPACT 400/800 and COMPACT 24V



12101060

**BOXC** treated box (cataphoresis) with stainless steel lid



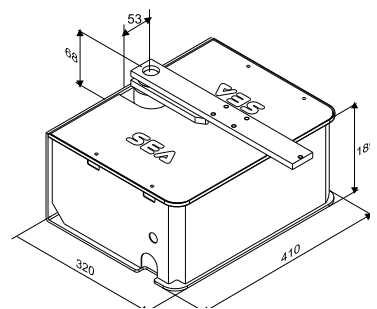
23101105

**ESUN** solar panel's control unit and battery - charger



65000045

**OILH** green oil for hydraulic motors (5 liters)



23106370

**Kit SUNNY**  
20W solar panel + control unit + battery



12710270

**LOCKINTS**  
basic release



12710275

**LOCKINTP**  
PLUS release with cylinder and key



23106305(\*)

**BAT7**  
battery kit with box (7AH)

## ELECTROHYDRAULIC COMPACT 800 PACKAGE

- N.1 COMPACT 800 Electrohydraulic operator
- N.1 Starting Capacitor
- N.1 Kit mounting accessories
- N.1 Customized release key
- N.1 Mounting instructions and general notice
- N.1 Warning sign-board



NB: ESUN 23101105 to combine with BAT7 23106305

KIT SUPER SUNNY for more power



# Accessories for Swing Gates



**16700025**

**LOCKELTOP**  
coupling plate for one leaf gate (horizontal gate)



**16700015**

**CILINT** cylinder key for inside applications



**16700030**

**LOCKEL**  
electrolock for operators whitout lock 12V



**16700020**

**LOCKELV**  
coupling plate for two leaves gate (vertical gate)



**16700010**

**CILEST** cylinder key for outside applications



**16700045**

**LOCKELDOWN**  
Vertical electrolock 220V



**16700035**

**Horizontal covering**  
for electrolock mounting



**66300119**

**BYKEY** by-pass valves calibration key



**16700046**

**LOCKELDOWN**  
Vertical electrolock 24 V



**16700047**

**MAGLOCK**  
magnetic electrolock

**16700040**

**Vertical covering**  
for electrolock mounting



# Guide to the product

## Mercury WITH GREASE

400	up to 400 Kg
600	up to 600 Kg
800	up to 800 Kg



pag. 45

## SATURN GEARMOTOR IN OIL-BATH

600 OIL	up to 600 Kg
600 G1	up to 600 Kg
600 E (grease)	up to 600 Kg



pag. 46

## SATURN GEARMOTOR IN OIL-BATH

1000 OIL	up to 1000 Kg
1500 24V OIL	up to 1500 Kg
2000 OIL	up to 2000 Kg



pag. 47

## BOXER GEARMOTOR AND REDUCER IN OIL-BATH

1000	up to 2000 Kg
2000	up to 2000 Kg



pag. 48

## LEPUS GEARMOTOR IN OIL-BATH

600	up to 600 Kg
600 Reversing	up to 600 Kg
1600	up to 1600 Kg
2000 TRIFASE	up to 2000 Kg



pag. 49

## LEPUS BOX

1600	up to 1600 Kg
REVERSING	up to 1000 Kg



pag. 50-51-52

## BIG 4000 Three-phase

4000	up to 4000 Kg
4000 INVERTER	up to 4000 Kg

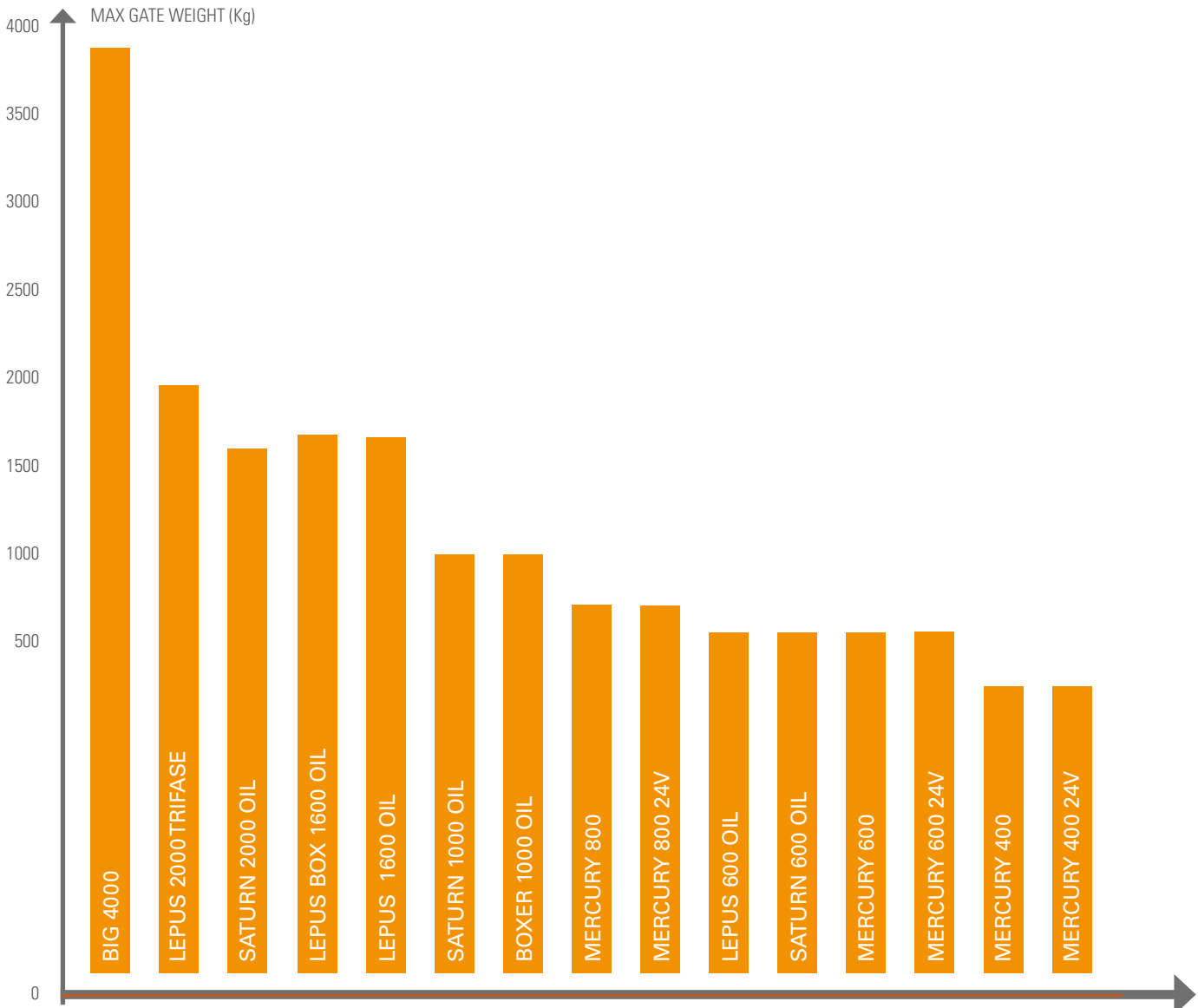


N.B: On request BOX 6000 version for sliding gates with max 6000 Kg weight

# Technical specifications

SPECIFICATION	Mercury 400-600- 800 24 V	Mercury 400-600-800 230V	Saturn 600 OIL	Saturn 1500 OIL 24V	Saturn 1000 OIL Saturn 2000 OIL	Boxer 1000 OIL Boxer 2000 OIL
Supply voltage	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor Power	80W - 110W	320W	330W	150W Dc	550/750 W	550/750 W
Opening speed	regolabile	0,15 m/s	0,15 m/s (z16)	regolabile	0,15 m/s (z16)	0,15 m/s (z16)
Frequency on use	75%	40%- 30%	35%	70%	35%- 30%	55%
Max torque	0- 20 Nm (400) 0-30 Nm (800)	18 Nm (400) 25 Nm (800)	30 Nm	0/65 Nm	55/70 Nm	55/70 Nm
Operating T°	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	7,0 /7,5 Kg	6,8/7,2 Kg	12 Kg	14,5 Kg	13-14,5 Kg	14/15 Kg
Max leaf weight	400-600- 800 Kg	400-600-800 Kg	600 Kg	1500 Kg	1000/2000 Kg	1000/2000 Kg
Anti- crushing clutch	Electronic	Electronic	Mechanical Electronic	Electronic	MechanicalElectronic	Mechanical in oil bath Electronic
Protection class	IP55	IP55	IP55	IP55	IP55	IP55
Starting capacitor	-	8 µf- 10 µf	10µf	-	12,5µf	10/12,5µf
Limit switch	Mechanical*	Mechanical	Mechanical/Inductive	Mechanical/Inductive	Mechanical/Inductive	Mechanical/Inductive
Max leaf length	4m (400Kg) 6 m (600-800 Kg)	4m (400Kg) 6 m (600-800 Kg)	6 m	10 m	10-10 m	10 m

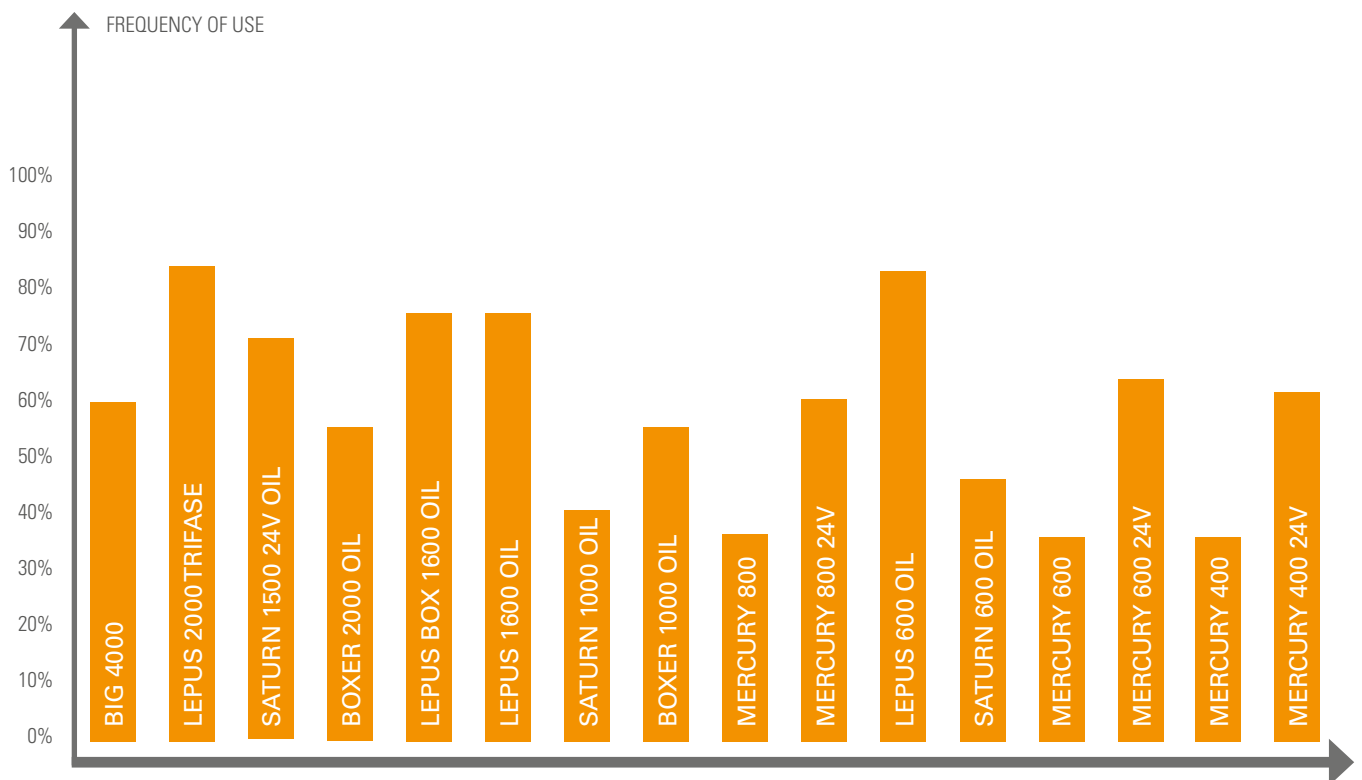
\*On request magnetic limit switch



N.B.: Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V operators)  
 For countries where the temperature often falls under 0°C/32°F it is recommended to use the THERMO accessory on page 126.  
 \* In case of operation with NOT AUTOMATIC logics or with TIMER it is not recommended to install hydraulic products with lock.

# Technical specifications

SPECIFICATION	Lepus 600 - 1600	Lepus 2000 Trifase	Lepus Box 1600	Big 4000 Trifase
Supply voltage	230Vac±5% 50/60Hz	230/380Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230/380Vac±5% 50/60Hz
Motor Power	330 - 450 W	450 W	450 W	900 W
Opening speed	10 m/min	10 m/min	10 m/min	10 m/min
Frequency on use	85-75% (intensive)	80% (intensive)	75% (intensive)	60%
Max torque	50 - 70 Nm	70 Nm	70 Nm	180 Nm
Operating T°	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	15 kg	15,5 kg	35 kg	48 kg
Max leaf weight	600 - 1600 Kg	2000 Kg	1600 Kg	4000 Kg
Anti-crushing clutch	Mechanical in oil-bath Electronic	Mechanical in oil-bath Electronic	Mechanical in oil-bath Electronic	-
Protection class	IP55	IP55	IP55	IP55
Starting capacitor	16/25µF	-	25 µF	-
Limit switch	Mechanical/Inductive	Mechanical with lever or inductive	Mechanical with lever	Mechanical with lever
Max leaf length	11 m	11 m	11 m	14 m





# Mercury

**GEARMOTOR FOR RESIDENTIAL (230V VERSION) OR SEMI-INTENSIVE USE (24V VERSION) FOR SLIDING GATES WITH MAX. WEIGHT OF 800KG AVAILABLE VERSIONS: 400kg - 600Kg - 800kg.**



Led light application on all models possible (optional)



Release system through robust nylon lever (optional metal lock)

- Refined design, compact and easy to install
- Die-cast aluminum body with external housing with innovative design
- Optional batteries kit 24V version
- Encoder (Obstacle detection sensor) for max. operation safety (optional 230V version)
- Simple and quick installation
- Electronic anti-crushing clutch
- Mechanical or magnetic limit switch (MAG version)
- Optional micro-switch on release lever
- Adjustable slowdown in opening and closing on USER 1 24V D G or GATE 1 (220V) control unit
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied.
- Led light application on all models possible
- 230V or 24V version
- Release system through robust aluminium lever (optional metal lock)
- Optional external release system with stainless steel cable and safety box
- Optional battery of 1,2 AH ( cod.12715295 € 35.00)

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
11304000	<b>MERCURY 400 G1</b> with GATE 1 control unit	400	4 m	20	30
11304005	<b>MERCURY 400 24V</b> with USER 1 - 24V DG control unit	400	4 m	30	30
11304050	<b>MERCURY 400 E*</b> with SLIDE control unit	400	4 m	20	30
11304100	<b>MERCURY 600 G1</b> with GATE 1 control unit	600	6 m	20	30
11304105	<b>MERCURY 600 24V</b> with USER 1 - 24V DG control unit	600	6 m	30	30
11304205	<b>MERCURY 800 G1</b> with GATE 1 control unit	800	6 m	20	30
11304210	<b>MERCURY 800 24V</b> with USER 1 - 24V DG control unit	800	6 m	30	30
11304215	<b>MERCURY 800 E*</b> with SLIDE control unit	800	6 m	20	30

For versions with magnetic limit switch write "MAG" after the code  
\* SLIDE control units max. 10 users with fix code or 800 users with rolling code

## ACCESSORIES



23106305

**BAT7**  
battery kit with box (7AH)



11203005

**ENC** kit Encoder for MERCURY 400 (230V)



16101120

**PZ13T** Pinion Z13 for MERCURY



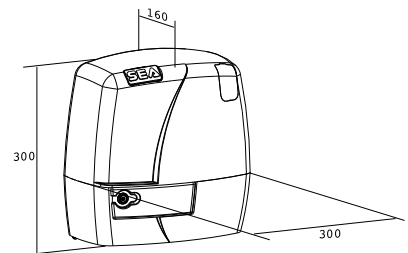
12715275

**Microswitch** on release lever for stop function



12710595

**SECMEK** box + external release with cable



23101105

**ESUN** solar panel's control unit and battery-charger



23106370(\*)

**Kit SUNNY** 20W solar panel + control unit + battery



12710645

**LED** light to be inserted into the MERCURY carter for motion detection



12710605

**Lock** with DIN key and lock cover for MERCURY/SATURN



12710615

**Lock cover** for basic lock

## MERCURY - MERCURY 24V PACKAGE

- N.1 Motorreducer MERCURY / MERCURY 24V
- N.1 Pinion Z16 for rack
- N.1 Control unit GATE 1 (USER 1 24V DG for MERCURY 24V)
- N.1 Mounting accessories kit
- N.1 Release key
- N.4 Motor fixing nuts
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- N.1 Foundation plate



Foundation plate included  
NB: Version with SLIDE ROLL control unit  
NB: ESUN 23101105 to combine with BAT7 23106305  
(\*)KIT SUPER SUNNY for more power



# Saturn 600

**GEARMOTOR FOR RESIDENTIAL SLIDING GATES.**



- Solid, die-cast aluminum body
- OIL version with oil lubrication of the gears for longer life
- High quality mechanical or inductive limit switches (On request magnetic limit switches on "MAG" version)
- Release system with robust aluminium lever with lock in case of power cut
- Optional external release with metal box
- Standard encoder to comply with the rules (Optional on SATURN E)
- Standard, mechanical twin-disc clutch (OIL version)
- Micro-switch for stop function on release lever in case of assistance (OIL version)
- On request extra base painting (SM600 colour)
- Optional external release system with stainless steel cable and safety box



In option release with aluminium lever and lock (optional for SATURN E and G1)



The SATURN OIL versions are with oil lubrication of the gears for max duration



Mechanical twin-disc clutch (only for SATURN OIL)

46

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
12400210	<b>SATURN 600 OIL</b> inductive limit switch	600	6 m	25	25
12400215	<b>SATURN 600 OIL</b> mechanical limit switch	600	6 m	25	25
12400207	<b>SATURN 600 G1</b> mechanical limit switch	600	6 m	25	25
12400205	<b>SATURN 600 E*</b> with SLIDE control unit	600	6 m	25	25
12715255	supplementary painted base				

For versions with magnetic limit switch write "MAG" after the code  
 \* SLIDE control units max. 10 users with fix code or 800 users with rolling code

## ACCESSORIES



65000055

**OILGS** yellow oil for SATURN (5 L)



16101047

**PZ20** pinion Z 20 mod 4 for SATURN



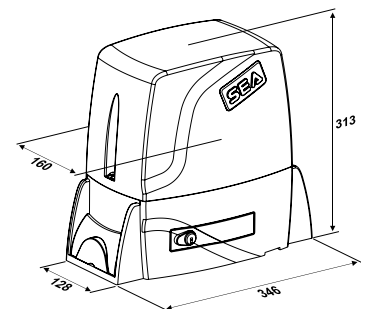
16101115

**PZ13T** pinion Z13 for SATURN



12715240

**Cover INOX** stainless cover for external release to combine with SECSAT



12710340

**SECSAT** security box and external release with cable of 2,5 m



12710605

**Lock** with DIN and lock cover (for SATURN G1 and E)



12710615

**Cover lock** for basic lock (for SATURN G1 and E)



12710405

**Microswitch** on release lever for STOP function (for SATURN G1 and E)



11203005

**ENC** kit Encoder for SATURN E



NB: Version SATURN oil whit GATE 1 ROLL control unit, serial encoder, mechanical clutch and oil lubrication, microswitch on lever of release and cover lock  
 The SATURN E G1 whit GATE 1 control unit, base of carter no painted, without encoder, without microswitch, without mechanical clutch, grease lubrication  
 Version SATURN whit mechanical clutch has manual release with metal lock  
 For SATURN 600 OIL



For SATURN G1







# Saturn

1000 OIL / 1500 24V OIL / 2000 OIL  
**GEARMOTOR FOR CONDOMINIUM SLIDING GATES**



- Solid, die-cast aluminum body
- All SATURN OIL gears are oil lubricated for longer life.
- High quality mechanical or inductive limit switches
- Release system with robust aluminium lever with lock in case of power cut
- Optional external release with metal box
- Standard encoder to comply with the rules (Except for SATURN 1500 24V)
- Optional emergency batteries for operation in case of power failure (Only SATURN 1500 24 V)
- GATE 1 DG (SATURN 1000 - 2000)  
 USER 1-24V ROLL (SATURN 1500 24V) control units
- Standard, mechanical twin-disc clutch on all models (except for SATURN 1500 24 V)
- Cataphoresis treated base
- Micro-switch for stop function on release lever in case of assistance
- On request extra base painting (SM600 colour)
- Optional external release system with stainless steel cable and safety box



In option release with aluminium lever and lock (optional metal release for SATURN G1 ed E)



The SATURN OIL versions are with oil lubrication of the gears for max duration



Mechanical twin-disc clutch (only for SATURN OIL)

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
12400115	<b>SATURN 1000 E*</b> whit SLIDE control unit and mechanical limit switches	1000	10 m	20	25
12400120	<b>SATURN 1000 G1</b> whit mechanical limit switch	1000	10 m	20	25
12400100	<b>SATURN 1000 OIL</b> whit mechanical limit switch	1000	10 m	25	25
12400105	<b>SATURN 1000 OIL</b> whit inductive limit switch	1000	10 m	25	25
12400026	<b>SATURN 1500 OIL 24V</b> whit mechanical limit switch	1500	10 m	40	25
12400025	<b>SATURN 1500 OIL 24V</b> whit inductive limit switch	1500	10 m	40	25
12400040	<b>SATURN 2000 OIL</b> whit mechanical limit switch	2000	10 m	25	25
12400045	<b>SATURN 2000 OIL</b> whit inductive limit switch	2000	10 m	25	25
12715255	Base painting supplement				

\* SLIDE control units max. 10 users with fix code or 800 users with rolling code

## ACCESSORI



23106305

**BAT7**  
battery kit with box (7AH)



65000055

**OILGS** yellow oil for SATURN (5 L)



16101047

**PZ20** pinion Z 20 mod 4



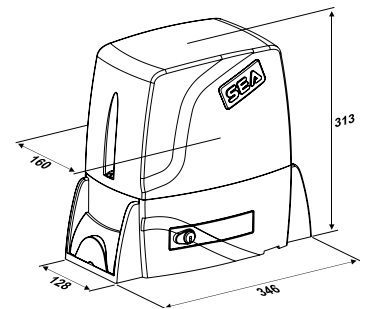
16101115

**PZ13T** pinion Z13



12715240

**Cover INOX**  
stainless cover for external release to combine with SECSAT



23101105

**ESUN** solar panel's control unit and battery -charger



23106370

**Kit SUNNY**  
20W solar panel + control unit +battery



12710340

**SECSAT** security box and external release with cable of 2,5 m



12710605

**Lock** with DIN and lock cover (for SATURN G1 and E)



12710615

**Cover lock** for basic lock (for SATURN G1 and E)



12710405

**Microswitch** on release lever for STOP function



11203005

**ENC** kit Encoder for SATURN E



NB: Version SATURN oil whit GATE 1 ROLL control unit, serial encoder, mechanical clutch and oil lubrication, microswitch on lever of release and cover lock  
 Version SATURN 1000-2000 OIL whit GATE 1 control unit, base of carter no painted, without encoder, without microswitch, without mechanical clutch, grease lubrication  
 SATURN 1000 G1 with GATE 1 control unit. SATURN 1500 24V OIL with oil lubrication and USER 1 - 24V DG control unit.  
 The SATURN OIL motors with mechanical clutch have serial manual release with metal lock.  
 NB: 23101105 to combine with 23106305



# Boxer 1000 / 2000

**GEARMOTOR IN OIL BATH FOR SLIDING GATES FOR CONDOMINIUM OR INTENSIVE USE.**



- Solid, die-cast aluminum body
- Powerful, reliable and great value for money
- All BOXER versions with electric motor and gears in oil lubrication for longer life
- High quality mechanical or inductive limit switches
- Release system with lever and lock in case of power failure.
- Optional external release with metal box.
- Standard, mechanical twin-disc clutch in oil bath on all models (except for BOXER G1)
- Cataphoresis treated aluminium base
- Standard encoder to comply with the rules
- Control units of GATE series
- On request extra base painting
- Optional external release system with stainless steel cable and safety box



Release with aluminium lever and lock (optional metal release for BOXER G1)



Electric motor and gears in oil lubrication



Mechanical twin-disc clutch

48

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
12405000	<b>BOXER 1000</b> whit mechanical limit switch	1000	10 m	35	30
12405005	<b>BOXER 1000</b> with inductive limit switch	1000	10 m	35	30
12405020	<b>BOXER 1000 G1</b> whit mechanical limit switch	1000	10 m	35	30
12405200	<b>BOXER 2000</b> whit mechanical limit switch	2000	10 m	35	30
12405205	<b>BOXER 2000</b> with inductive limit switch	2000	10 m	35	30
12715255	supplementary painted base				

## ACCESSORIES



16101047

PZ20 Pinion Z 20



16101115

PZ13T Pinion Z13



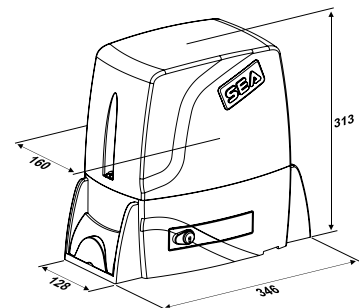
12710405

**Microswitch** on release lever for STOP function (for BOXER G1)



12710605

**Lock** with DIN and lock cover (for BOXER G1)



12710340

**SECSAT** security box and external release with cable



12715240

**Cover INOX** stainless cover for external release to combine with SECSAT



65000055

**OILGS** yellow oil for SATURN (5 L)



12710615

**Cover lock** for basic lock (for BOXER G1)

## BOXER 1000/2000 PACKAGE

- N.1 Motorreducer BOXER 1000/2000
- N.1 Pinion Z16 for rack
- N.1 Control unit GATE 1
- N.1 Mounting accessories kit
- N.1 Release key
- N.4 Motor fixing nuts
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- N.1 Foundation plate



NB: G1 version: GATE 1 control unit, basic, not painted carter, no encoder, no microswitch.  
BOXER 1000-2000 with GATE 1 control unit, mechanical clutch and encoder, DIN lock for release key and lock cover.



# Lepus 600/1600/2000

**GEARMOTOR IN OIL BATH FOR INTENSIVE USE FOR SLIDING GATES WITH 1600KG MAX WEIGHT (2000Kg LEPUS 2000 THREEPHASE).**



- Complete lubrication of motor and all mechanical components for longer life
- Manual release protected through a lid with key for more safety
- Optional external release with metal box
- Mechanical, twin-disc friction in oil bath and (GATE 1) electronic control unit for double anti-crushing safety
- Standard encoder (Obstacles detection sensor) for max. anti-crushing operation safety
- Foundation plate adjustable in height and width
- GATE1 control unit for all demanding functions (LEPUS 600 and 1600), (LEPUS 2000 Three phase without control unit).
- LEPUS 600 reversing version (available also with electro-lock)
- Gears and stator sizes projected and produced for longer life and intensive operation cycles
- On request versions for very intensive operation cycles (LEPUS Continuous 600)



Release with metal lever DIN lock and lock cover. Microswitch for stop function



Internal photo



Mechanical twin-disc clutch

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
11102025	<b>LEPUS 600</b> with mechanical limit switch	600	11 m	40	30
11102030	<b>LEPUS 600</b> with inductive limit switch	600	11 m	40	30
11102035	<b>LEPUS 600 REVERSIBLE*</b> with mechanical limit switch	600	11 m	40	30
11102038	<b>LEPUS 600 REVERSIBLE EB** (BRAKE)</b> with mechanical limit switch and electrobrake	600	11 m	40	30
11110305	<b>LEPUS 1600</b> with inductive limit switch	1600	11 m	40	30
11110300	<b>LEPUS 1600</b> with mechanical limit switch	1600	11 m	40	30
11110505	<b>LEPUS 2000 TRIFASE 380V***</b> with inductive limit switch	2000	11 m	40	30
11110500	<b>LEPUS 2000 TRIFASE 380V***</b> with mechanical limit switch	2000	11 m	40	30

## ACCESSORIES



16101047

PZ20 Pinion Z 20



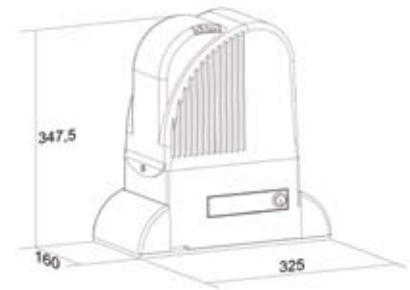
16101115

PZ13T Pinion Z13



65000020

OILGS yellow oil for SATURN (5 L)



12710600

SECLEP safety box and external release with cable of 2,5 m



12715285

Cover INOX stainless cover for external release to combine with SECSAT

## LEPUS PACKAGE

- N.1 Geramotor LEPUS
- N.1 Pinion Z16( Z13 pinion for reversible versions)
- N.1 GATE 1 ROLL control unit (LEPUS 600 and 1600)
- N.1 Mounting accessories kit
- N.1 Release key
- N.4 Motor fixing nuts
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- N.1 Foundation plate



Foundation plate included.  
 \* Version without electronic control unit.  
 SEA 380DG optional electronic control unit  
 \*\* LEPUS 600 REVERSIBLE EB with electro-brake and without control unit  
 \*\*\*LEPUS 2000 Trifase no control unit



# Lepus Box 1600

**GEARMOTOR IN OIL BATH FOR INDUSTRIAL SLIDING GATES WITH MAX. 1600KG WEIGHT.**



- Reliability of Gearmotors in oil bath
- All main parts were produced and tested in the SEA facilities
- Lubrication of the motor and main parts in oil bath for longer life.
- Robust, cataphoresis- treated polyester paint sheet housing for heavy-duty applications of industrial type.
- Manual release hidden behind a lid with key for max. safety.
- Mechanical twin-disk clutch in oil bath and electronic clutch for double anti-crushing safety
- Standard encoder (Obstacles detection sensor) for max. anti crushing operation safety
- GATE1 control unit for all demanding functions



Mechanical limit switch with lever



Internal photo



Mechanical twin-disk clutch

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
11110375	<b>LEPUS BOX 1600 (GATE 1)</b> whit mechanical limit switch with lever	1600	11 m	30	8
11110380	<b>LEPUS BOX 1600 (GATE 2)</b> whit mechanical limit switch with lever	1600	11 m	30	8

## ACCESSORIES



12710060

**SECHT** security box and external release with cable of 2,5 m



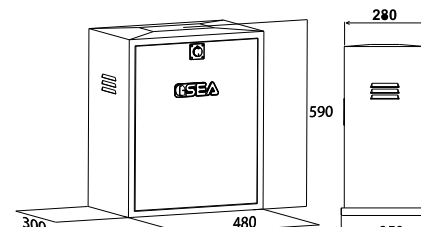
23101125

**KIT Microswitch** on release lever for stop function



65000020

**OILGL** yellow oil for gear motors LEPUS (5 L)



## LEPUS BOX 1600 PACKAGE

- N.1 Gearmotor Lepus Box 1600
- N.1 Pinion Z16 double shim module 4
- N.1 Control unit GATE 1
- N.1 Mounting accessories kit
- N.1 Release key
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- N.1 Foundation plate



# Lepus Box Reversible

**230V MONOPHASE GEARMOTOR IN OIL BATH FOR SLIDING GATES WITH MAX. 1000KG WEIGHT.**



- Reliability of Gearmotors in oil bath.
- All main parts were produced and tested in the SEA facilities
- Lubrication of the motor and main parts in oil bath for longer life
- Carter in robusta lamiera con trattamento
- Robust, cataphoresis- treated polyester paint sheet housing for heavy-duty applications of industrial type.
- Manual release behind a lid with key for max. safety.
- Electronic friction for max. anti crushing safety
- Positive electro lock with release button
- GATE 2 DG control unit for all demanding functions

Available: Summer 2012



Mechanical limit switch with lever



Internal photo



Electronic friction for max. anti crushing safety

CODE	NAME	MAX LEAF LENGTH (M)	MAX GATE WEIGHT (KG)	MAX CYCLES/HOUR	PCS FOR PALLET
11115125	<b>LEPUS BOX Reversible (GATE 2 DG)</b> with mechanical limit switch with lever	11	1000	30	8

N.B. The reversing is automatically guaranteed in case of power failure or manually through activation of special button

## ACCESSORIES



12710060

**SECHT** security box and external release with cable 2,5 m



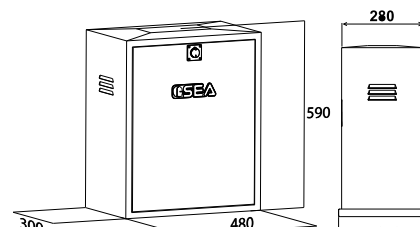
23101125

**Kit Microswitch** on release lever for stop function



65000020

**OILGL** yellow oil for gear motors LEPUS (5 L)



## PACKAGE

**LEPUS Reversible 1000**

- N.1 Gearmotor Lepus Box 1000
- N.1 Pinion Z13 double shim module 4
- N.1 Control unit GATE 2 DG
- N.1 Mounting accessories kit
- N.1 Release key
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- N.1 Foundation plate



# BIG 4000 THREE-PHASE



**GEARMOTOR IN OIL BATH FOR INDUSTRIAL SLIDING GATES WITH MAX. 4000KG WEIGHT.**



- Reliability of gearmotors in oil bath
- Robust, cataphoresis- treated polyester paint sheet housing for heavy-duty applications of industrial type
- Manual release behind a lid with DIN key for max. safety
- Mechanical torque controller in oil bath
- Special heat treatment of all internal parts for max. industrial operation safety
- IP65 high quality mechanical limit switch with lever
- SEA 380 DG control unit programmable through extractable display
- On request BOX 6000 special version (for sliding gates with max. 6000Kg weight)
- Electro-lock kit for limit switch lock improvement (recommended optional)
- BIG 4000 Inverter version with slowdown and reversing through SEA 380 DG INV 230V three-phase control unit
- Module 6 galvanized rack



Gearmotor in oil bath.



Control unit SEA 380 DG programmable on display

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/HOUR	PCS FOR PALLET
11115045	<b>BIG 4000</b> ( 230V-400) Three-phase with digital control unit SEA 380 DG (with removable display only for the first programming)	4000	14 m	60%	8
11115050	<b>BIG 4000 INVERTER</b> with inverter**	4000	14 m	60%	8
23101130	Display for SEA 380 DG control unit obligatory for the installation				

## ACCESSORIES



23101130(\*)

Display for control unit SEA 380 DG obligatory accessory



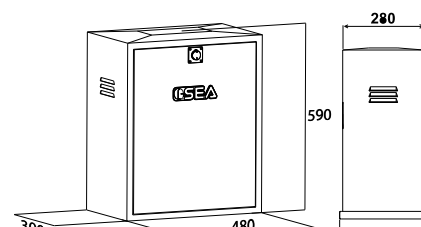
65000020

OILGL yellow oil for gear motors LEPUS (5 L)



23101125

Safety microswitch kit on the door



16101106

PZ12 Pinion Z 12 mod. 6 for BIG 4000



12710815

Kit electro-brake for BIG 4000

## BIG 4000 TRIFASE PACKAGE

- N.1 Gearmotor BIG 4000 Trifase
- N.1 Pinion Z16 modulo 6
- N.1 Control unit SEA 380 DG
- N.1 Mounting accessories kit
- N.1 Release key
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- N.1 Foundation plate
- Available on request Z12 pinion for rack module 6



(\*)Optional obligatory: Accessory for the 1°programming.  
The display removal can be used also for other installations  
\*\* New product availability will be communicated through SEA newsletter.



# Accessories for Sliding Gates



**12715016**

RACKD Nylon rack (up to 600 Kg) metal core mod.4 (1m) + accessories (27,5 mm x 220mm)



**16101047**

PZ20 Pinion Z20 mod. 4 for SATURN/BOXER



**16101115**

PZ13 Pinion Z13 for SATURN/BOXER/LEPUS



**12701010**

R120V Wheel ø 120 V groove 30 mm with 2 ball bearings



**12701035**

R160V Wheel ø 160 V groove 30 mm with 2 ball bearings



**12715010**  
€ 18,00

RACKZ Galvanized rack mod. 4 (1m) + accessories (30 x 12mm)



**16101007**  
€ 27,00

PZ13 Pinion Z13 double mod. 4 for LEPUS and LEPUS 1600



**16101016**  
€ 34,00

PZ20 Pinion Z20 for LEPUS



**12701005**

R120U Wheel ø 120 U groove 30 mm with 2 ball bearings



**12701030**

R160U Wheel ø 160 U groove 30 mm with 2 ball bearings



**12715017**

RACKZ2 Galvanized rack mod. 4 (2 m) + accessories (30 mm x 12 mm)



**16101021**

PZ16 Pinion Z16 double mod. 4 for LEPUS- LEPUS BOX 1600



**16101089**

PZ20 Pinion Z20 for MERCURY 400/600/800



**12701020**

R140V Wheel ø 140 V groove 30 mm with 2 ball bearings



**12701050**

R200V Wheel ø 200 V groove 30 mm with 2 ball bearings



**12715013**

RACKZM6 Galvanized rack mod.6 (1m) + accessories (30 mm x 30 mm)



**16101106**

PZ12 Pinion Z12 mod. 6 for BIG 4000



**12701015**

R140U Wheel ø 140 U groove 30 mm with 2 ball bearings



**12701045**

R200U Wheel ø 200 U groove 30 mm with 2 ball bearings



# Guide to the product

## Lepus

OPERATORS FOR BALANCED SECTIONAL DOORS  
IN OIL-BATH

1600 SECTIONALS up to 30 m<sup>2</sup>  
1800 SECTIONALS THREE-PHASE up to 35 m<sup>2</sup>



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## Corona

OPERATORS FOR OVERHEAD DOORS WITH SPRINGS

Corona 60 up to H 2,3 m x L 3,0 m  
Corona 110 up to H 2,3 m x L 4,0 m



OPERATORS FOR COUNTERBALANCED OVERHEAD DOORS

Corona 60 up to H 2,7 m x L 3,0 m  
Corona 110 up to H 2,7 m x L 4,0 m

OPERATORS FOR SECTIONAL GARAGE DOORS

Corona 60 up to H 2,4 m x L 3,5 m  
Corona 110 up to H 2,4 m x L 5,0 m



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## Scuti

OPERATORS FOR OVERHEAD DOORS  
HYDRAULIC RESIDENTIAL / INTENSIVE USE

AC - SB L max up to 3,5 m  
2 Side Operators L max up over 3,5 m

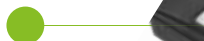


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## Erg

OPERATORS FOR OVERHEAD DOORS

Erg L max up to 3,5 m  
Erg 24V L max up to 3,5 m



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## Ara

OPERATORS FOR INDUSTRIAL FOLDING DOORS  
HYDRAULIC INTENSIVE USE

AC up to 1 m  
SB up to 1,5 m



pag. 60

## Omega

OPERATORS FOR INDUSTRIAL FOLDING DOORS  
ELECTROMECHANICAL NO INTENSIVE USE

Omega up to 1 m



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# Technical specifications

SPECIFICATION	Corona 60/110	Lepus 1600 Lepus Sectional Three-phase	Song 200/240
Power supply	230Vac	230/380Vac	230Vac
Motor power	140/370 W	450 W	450/1100 W
Opening speed	adjustable	-	0,10/0,12 m/sec
Frequency of use	60% /40%	75% / 90%	25%
Max torque	600/1100 Nm	60 Nm	-
Working temperature	-20°C/60°C	-20°C/+55°C	-20°C/+55°C
Weight	13/14 kg	15,5 kg	8/16 kg
Door weight	60/110 kg	1600/1800 Kg	150/260 kg
Anti crushing clutch	Electronic	Mechanical Electronic	-
Protection degree	IP20	IP55	-
Starting Capacitor	-	-	20/25- µF
Limit switch		Mechanical	Mechanical

SPECIFICATION	Scuti	Erg Erg 24V	Ara	Omega
Power supply	230Vac	230Vac/ 24V	230Vac	230Vac
Motor power	220 W	200 W/60W	220 W	220 W
Pump capacity	0,75 l	-	-	-
Cycles/hour	60	30 / 40	50	30
Working temperature	-20°C/55°C	-20°C/55°C	-20°C/+55°C	-20°C/+55°C
Weight	12 kg	10,5 kg	-	-
Door weight	-	-	-	-
Anti crushing clutch	yes	Electronic	yes	Electronic
Protection degree	IP55	IP44	IP55	IP44-
Starting Capacitor	12,5µF	16µF /-	12,5µF	16µF
Limit switch	-	Electronic optional	-	Electronic optional



# Lepus SECTIONAL

**GEARMOTOR IN OIL BATH FOR SEMI-INTENSIVE AND INTENSIVE USE FOR SECTIONAL DOORS WITH MAX. DIMENSIONS OF 35M2 (LEPUS 1800 SECTIONAL) AND 30M2 (LEPUS 1600 SECTIONAL).**



- Reliability of Gearmotors in oil bath
- SEA TOTAL QUALITY: All main parts are made and tested inside the SEA facilities.
- Lubrication of the motor and main parts in oil bath for longer life.
- Aluminium die-cast body
- Mechanical twin-disk clutch in oil bath (anti-crushing safety)
- Outside release through box (optional)
- GATE1 control unit for outside for all demanding functions
- Encoder (Obstacle detection sensor) for max. operation safety



Manual release with lever and 5m cable



Easily adjustable, mechanical limit switch with chain transmission

56

CODE	NAME	MAX DOORS DIMENSION (m <sup>2</sup> )	FREQUENCY OF USE (%)	PCS FOR PALLETS
11110350	<b>LEPUS 1600</b> Sectional mono-phase (without control unit)*	30	70	-
11110400	<b>LEPUS 1800</b> Sectional three-phase (without control unit)*	35	80	-

## ACCESSORIES



16101025

**PDZ1620LS** Pinion double Z16 Z20

**16101026**  
**PDZ16-20S** Pinion double Z16 Z20



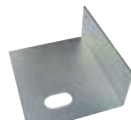
12715015

**GCATS** Joint for chain for LEPUS



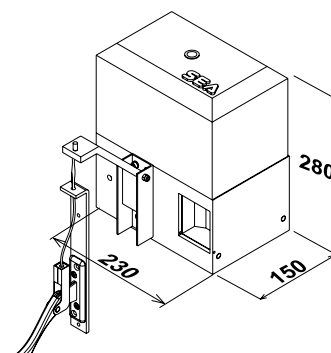
12715005

**CATS** Chain 1/2" x 5/16 (pack di 2 m) for LEPUS



16200071

**PLATELS** Fixing plate



## LEPUS SECTIONAL PACKAGE

- N.1 Gearmotor LEPUS Sectional
- N.1 Z16 Z20 Pinion
- N.1 Mounting accessories Kit
- N.1 Release with handle Kit
- N.1 Mounting instructions and general notice
- N.1 Warning signboard



\* GATE 1 recommended external control unit



# Corona RP / S

**ROBUST, LOW TENSION (24V) CEILING OPERATOR**  
**EASY INSTALLATION -600 Nm AND 1100 Nm VERSIONS AVAILABLE.**



- Secure, noiseless and universal
- Non reversing gear motor, no electro-lock needed, guaranteeing max. safety against break-in attempts.
- Slowdown during closing and opening phase
- Version with 3m one-piece steel quick coupling guide (CORONA RP) or 3x1m modular Aluminium guides (CORONA S)
- On request version with 2x1,5m modular steel guides (CORONA RP 2) and version also with belt (CORONA RPC)
- Adjustable speed
- Internal release with rope in case of power failure PLUS version also with additional internal/external release with handle
- USER 1 24V DG control unit with programming through display (Compatible with OPEN, JOLLY, SP40)
- New one-piece quick coupling motor guide (CORONA RP)
- Adjustable anti-crushing sensitivity
- Courtesy LED light on all models



Quick coupling motor on new unique steel guide with chain (CORONA RP)



USER 1 - 24V DG control unit programmable with Led display and integrated warning light.

CODE	NAME	MAX FORCE (Nm)	MAX DOOR DIMENSION (Kg)	PCS FOR PALLET
13320065	<b>KIT CORONA 60 S</b> with aluminium guide n.3 pz 3 x1 m	600	2500* 3500*	45
13320070	<b>KIT CORONA 110 S</b> with aluminium guide n.3 pz 3 x1 m	1100	3500* 5000*	45
13320045	<b>KIT CORONA 60 RP</b> Quick coupling motor mounting on unique guide	600	2500* 3500*	45
13320050	<b>KIT CORONA 110 RP</b> Quick coupling motor mounting on unique guide	1100	3500* 5000*	45
13320085	<b>CORONA 60 RP - no guide</b> Quick coupling motor mounting	600	2500* 3500*	45
13320090	<b>CORONA 110 RP - no guide</b> Quick coupling motor mounting	1100	3500* 5000*	45

## ACCESSORIES



13322006

**BASIC** Kit for overhead doors (CORONA)



13322020

**SECCOR** external release kit for CORONA S



13322010

**GUI** guide with additional brackets (1 m extension) only for CORONA S



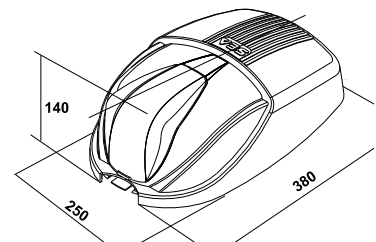
23106305

**BAT7** battery kit with box (7AH)



23101105

**ESUN** solar panel's control unit and battery-charger



23106370(\*)

**Kit SUNNY**  
20W solar panel + control unit + battery



12710666

**T3** 3m one piece steel guide for CORONA RP



12710667

**T3/2 1,5x2 m** steel guide with joint m for CORONA RP



12710665

**T4** 4m one piece steel guide for CORONA RP



12710668

**T3C** One piece guide with belt for CORONA RP

## CORONA KIT 60/110 PACKAGE

- N.1 Operators CORONA (60 o 110) control unit USER 1 24V DG
- N.1 Plug-In 433 MHz Roll receiver
- N.1 433 Mhz Roll transmitter
- N.1 3 m pieces of aluminium guide for chain 7
- N.1 Mounting accessories Kit
- N.1 Device for internal release with rope



N.B: CORONA RP with gearmotor and uSER 1 24V DG control unit with display, with RF UNI 433MHz plug-in receiver, 2 ch 433 MHz transmitter.  
 For CORONA 60 RP and CORONA 110 RP the t-shaped guides among the accessories are obligatory

N.B. : 23101105 to be combined with 23106305

(\*)KIT SUPER SUNNY for more power



# Scuti

**HYDRAULIC OPERATOR FOR OVERHEAD DOORS WITH MAX. WEIGHT OF 16 Kg/m<sup>2</sup>.**



- Hydraulic reliability, noiseless and safety also for overhead doors
- All main parts were produced and tested in the SEA facilities
- The hydraulic operation of the operator and the internal lubrication of all mechanical parts guarantee longer life
- Very quiet thanks to the hydraulic system
- Hydraulic slowdown in closing and opening.
- Anti-intrusion safety through internal lock
- The tightness of hydraulic lock is guaranteed for doors of max. 3,5m length.  
For doors with over 3,5m width use 2 SCUTI operators
- **New:** Accessories for mountings with screws instead of welding



Manual, internal release system. Optional external release with customized key



Anti-crushing security thanks to the force adjusting by pass valves

CODE	NAME	MAX DOOR DIMENSIONS (m)	MAX. WEIGHT LEAF (Kg) mq	FREQUENCY OF USE (%)	PCS FOR PALLET
11402015	SCUTI SB*	H 3 x L 3,5 H 3 x L 5,0 **	16	60	24
11401025	SCUTI AC	H 3 x L 3,5 H 3 x L 5,0 **	16	60	24

58

### ACCESSORIES



12710050

SEC75SCU external release system with 75 mm key length



12710045

SEC55SCU external release system with 55 mm key length



12710775

Spar for SCUTI 0,99 m (n.1 pcs RH, n.1 pcs LH) r adjustable with many fixing holes



12710800

Spar for SCUTI 1,75 m (n. 2 pcs) adjustable with many fixing holes

### WELDING ACCESSORIES



12710745

Installation kit for 1 SCUTI motor with CURVED arms and n.2 pcs transmission tubes of 1,75m



12710755

Installation kit for 1 SCUTI motor with STRAIGHT arms and n.2 pcs transmission tubes of 1,75m



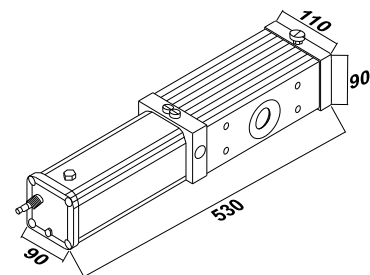
12710750

Installation kit for 2 SCUTI motors with CURVED arms and n.2 pcs transmission tubes of 0,5m



12710760

Installation kit for 2 SCUTI motors with STRAIGHT arms and n.2 pcs transmission tubes of 0,5m



### SCREW ACCESSOIRES



12710765

Installation kit for 1 SCUTI motor with CURVED arms and n.2 pcs transmission tubes from 1,75m.



12710770

Installation kit for 1 SCUTI motor with STRAIGHT arms and n.2 pcs transmission tubes from 1,75m



12710785

Installation kit for 2 SCUTI motors with CURVED arms and n.2 pcs transmission tubes from 0,5m



12710790

Installation kit for 2 SCUTI motors with STRAIGHT arms and n.2 pcs transmission tubes from 0,5m

### SCUTI PACKAGE

- N.1 SCUTI operator
- N.1 Installation accessories kit
- N.1 Starting capacitor
- N.1 Instruction for installation and general notice
- N.1 Warning signboard



\*On operators without lock SCUTI SB mount an electrolock must be mounted.  
\*\*Size related to the use of two side operators for doors of over 3,5m largeness.  
N.B: The spar is not included in the installation kit and is an obligatory accessory to be ordered  
2 models available: 0,99 m or 1,75 m spar



# Erg - Erg 24V

**OPERATOR FOR RESIDENTIAL OVERHEAD DOORS WITH MAX. WEIGHT OF 10Kg/m2.r**



ERG G1

ERG 24V

- Simple to install, secure and reliable
- Slowdown in opening and closing
- For doors with 3,5m to 4,7m width (3m height) use 2 ERG operators  
With external control unit (GATE 2 DG or SWING 2)
- Optional encoder kit for reversing on obstacle (ERG G1 or ERG S/C)
- Timed courtesy Led light inside operator
- Optional limit switch group with micro switch, operator prepared for very easy mounting (standard on ERG G1)
- Metal release lever
- **New:** ERG 24V with USER 1 -24V DG control unit with warning led available



Release system with lever in case of power failure



Thermo treated gears on rotating arms supported by ball bearings

CODE	NAME	MAX DOOR DIMENSIONS (m)	MAX. WEIGHT LEAF (Kg) mq	FREQUENCY OF USE (%)	PCS FOR PALLET
11315052	<b>ERG G1</b> with limit switches and control unit	H 3 x L 3,5 H 3 x L 4,7 *	10	25	24
11315057	<b>ERG S/C</b> without control unit	H 3 x L 3,5 H 3 x L 4,7 *	10	25	24
11315070	<b>ERG 24V</b> with control unit	H 3 x L 3,5 H 3 x L 4,7 *	10	25	24

## ACCESSORIES



11316005

**LSERG** limit switch group with microswitch (for ERG 24V)



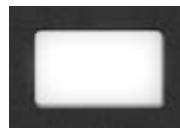
12710071

**SECERG** external release for ERG



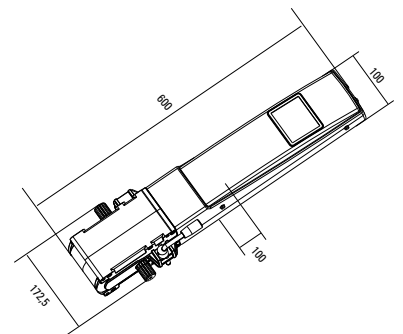
11303005

**ENCERG** Encoder only for 220V version



12710104

**Courtesy light + led** (option ERG S/C)



## WELDING ACCESSORIES



12710705

**Installation kit for 1 ERG** motor with CURVED arms and n.2 pcs transmission tube from 1,5 m



12710715

**Installation kit for 1 ERG** motor with STRAIGHT arms and n.2 pcs transmission tube from 1,5 m



12710710

**Installation kit for 2 ERG** motors with CURVED arms and n.2 pcs transmission tube from 0,5 m



12710720

**Installation kit for 2 ERG** motors with STRAIGHT arms and n.2 pcs transmission tube from 0,5 m



12710241

**Spar 600 mm** (n.1 pc) adjustable with many fixing holes

## SCREW ACCESSOIRES



12710725

**Installation kit for 1 ERG** motor with CURVED arms and square tube 25x25 mm, length 3 m



12710735

**Installation kit for 1 ERG** motor with STRAIGHT arms and square tube 25x25 mm, length 3 m



12710730 \*

**Installation kit for 2 ERG** motors with CURVED arms



12710740 \*

**Installation kit for 2 ERG** motors with STRAIGHT arms



12710235

**Spar 1600 mm** (n.1 pc) adjustable with many fixing holes



N.B: The spar is not included in the installation kit and is an obligatory accessory to be ordered  
2 models available: 600mm or 1600mm spar  
(\* the square tube is not necessary as the motor is prepared for the bush to be welded



Ara

**HYDRAULIC OPERATOR MOUNTED ON ONE LEAF FOR THE OPENING OF A FOLDING DOOR THROUGH TELESCOPIC ARM WITH PERFECTLY HARMONIC AND LINEAR MOVEMENT.**



- Hydraulic reliability, noiseless and secure also for folding doors.
- SEA TOTAL QUALITY  
All main parts are produced and tested inside the SEA plants.
- The hydraulic operation of the operator and the internal lubrication of all mechanical parts guarantee longer life
- Max. silence thanks to the hydraulic system
- Anti intrusion safety through internal release
- Standard telescopic arm



Anti-crushing security thanks to the force adjusting by pass valves



Release system with lever situated on the operator with cable

60

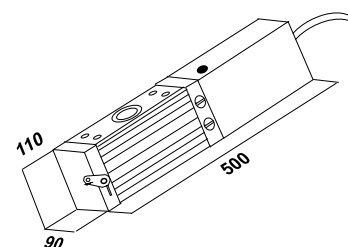
CODE	NAME	MAX DOOR DIMENSIONS (m)	PUMP (lt)	RELEASE	PCS FOR PALLER
11501030	<b>ARA AC</b> with telescopic arm	1,0 x 5,0	1,0	YES	40
11502020	<b>ARA SB</b> with telescopic arm	1,5 x 5,0	1,0	NO	40

#### ACCESSORI



12710073

**SECARA**  
Externa release for ARA



#### ARA PACKAGE

- N.1 ARA operator with telescopic arm
- N.1 Installation accessories kit
- N.1 Starting capacitor
- N.1 Instruction for installation and general notice
- N.1 Warning signboard





# Omega

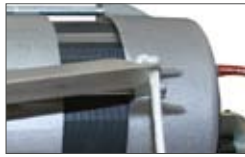
**ELECTROMECHANICAL OPERATOR MOUNTED ON ONE LEAF FOR THE OPENING OF A FOLDING DOOR THROUGH TELESCOPIC ARM WITH PERFECTLY HARMONIC AND LINEAR MOVEMENT**



- Simple, secure and silent
- Not reversing operator for max. safety
- Release with 6m rope
- Easy adjustable electronic limit switch in opening and closing
- Optional encoder Kit to guarantee the reversing in case of obstacle.
- Optional plastic protection



Electronic limit switches



Release system with lever on the operator with cable.

CODE	NAME	MAX WEIGHT LEAF (Kg)	DOOR DIMENSIONS LEAF (m)	MAX. LENGTH (m)	PCS FOR PALLET
11510000	<b>OMEGA</b> with arm, limit switch and internal release*	200	1,0 x 5,0 m	1,0	-

## ACCESSORI



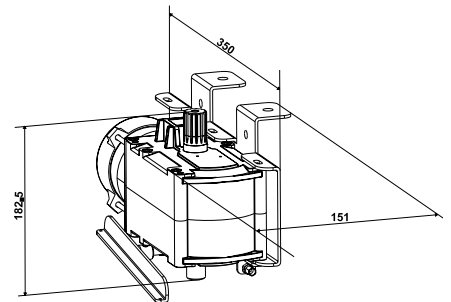
11303005

**ENCOM KIT**  
encoder



12710430

**SECOM KIT**  
external release



## OMEGA PACKAGE

- N.1 OMEGA operator with telescopic arm
- N.1 Installation accessories kit
- N.1 Starting capacitor
- N.1 Instruction for installation and general notice
- N.1 Warning signboard





Song

**GEARMOTOR FOR ROLLING SHUTTERS SONG 200 FOR WEIGHT UP TO 150KG (SONG 200 Ø) OR SONG 240 FOR WEIGHT UP TO 240KG (SONG 240 Ø)**



- Gearmotor for rolling shutters of easy installation
- Standard diameter of the shaft: 60mmx200mm for SONG 200 SONG 200 Ø (Optional reduction tubes for shutter diameter of 48mm or 42mm, 200mm or 220mm).
- Diameter of the shutter shaft: 76mmx 240mm for SONG 240 Ø 240.
- Available with standard electro-brake for not reversing of the operator. (SONG 200 BRAKE) or optional on SONG 200 or SONG 240
- Release system in the case of power failure through cable with knob (standard in the version with electro-brake)
- Outside release with safety box (version with electro-brake) and pushbutton board available



Adjustable on board limit switch



Gear motor

CODE	NAME	SHUTTER SHAFT DIAMETER (mm)	MAX WEIGHT SHUTTER (Kg)	PCS FOR PALLETS
13301005	<b>SONG 200</b>	60	150	40
13301015	<b>SONG 200</b> with electro-brake	60	150	40
13301025	<b>SONG 240</b> with electro-brake	76	240	40

N.B: for shutter diameters of 220 mm use the adapter 200 mm x 220 mm  
\*N.B: use reduction tubes when the shaft diameter is different from the standard 60 mm

**ACCESSORIES**



13301105

**EBRAKE60** electric brake with release ø 60



13301110

**EBRAKE76** electric brake with release ø 76



13301125

**TUBSONG** reduction tubes 42 x 60 / 48 x 60 (6 pcs)



13301121

**TASCOMPSONG** Compensation rings 200x220

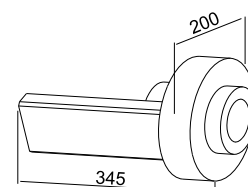


12710290

**SECSONG** security box for external release SONG (whit push button board)

**SONG (200 ø o 240 ø) PACKAGE**

- N.1 SONG gearmotor
- N.1 Installation accessories kit
- N.1 Instruction for installation and general notice
- N.1 Warning signboard
- PACKAGE SONG 200 ø FRENO
- N.1 SONG 200 ø FRENO gear motor
- N.1 Installation accessories kit
- N.1 Release with cable
- N.1 Instruction for installation and general notice
- N.1 Warning signboard



ROLLING



13301150

(QX 20 pz. - QX1 50 pz. - QX2 100 pz.)

ROLLING with box

Description

- Management of one 230V motor
- Automatic, semi-automatic
- Extractable terminal
- Connection for plug-in receiver of SIGNAL series





# Accessories for Garage



**12715035**

CORZ36 CORONAZ36 +  
adapter ø 25.5

**12715050**

CORZ46 CORONA Z46 +  
adapter ø 25.5

**12715040**

CORZ36AD32 CORONA  
Z36 + adapter ø 32

**12715055**

CORZ46AD32 CORONA  
Z46 + adapter ø 32

**12715045**

CORZ46AD40 CORONA  
Z36 + adapter ø 40.2

**12715060**

CORZ46AD40 CORONA  
Z46 + adapter ø 40.2



# Guide to product

## Verg

24V ELECTROMECHANICAL BARRIER  
2-5 SEC OPENING TIME

Verg 24V

Up to 5 m



pag. 68

## Sprint

24V HYDRAULIC BARRIER  
4-8 SEC OPENING TIME

Sprint 24V

Up to 5 m

Sprint 230V

Up to 5 m



pag. 72

## Storm

24V ELECTROMECHANICAL BARRIER  
8-12 SEC OPENING TIME

Storm 24V

up to 7,5 m



pag. 70

## Vela Industrial

24V HYDRAULIC BARRIER  
8 TO 12 SEC OPENING TIME

Vela Industrial

up to 7,5 m



pag. 74

## Bull-Super Bull AUTOMATIC BOLLARD

Cylinder diameter: 275 mm

Hight: 680 mm



pag. 76-77

## Bull Anti-terrorism AUTOMATIC BOLLARD

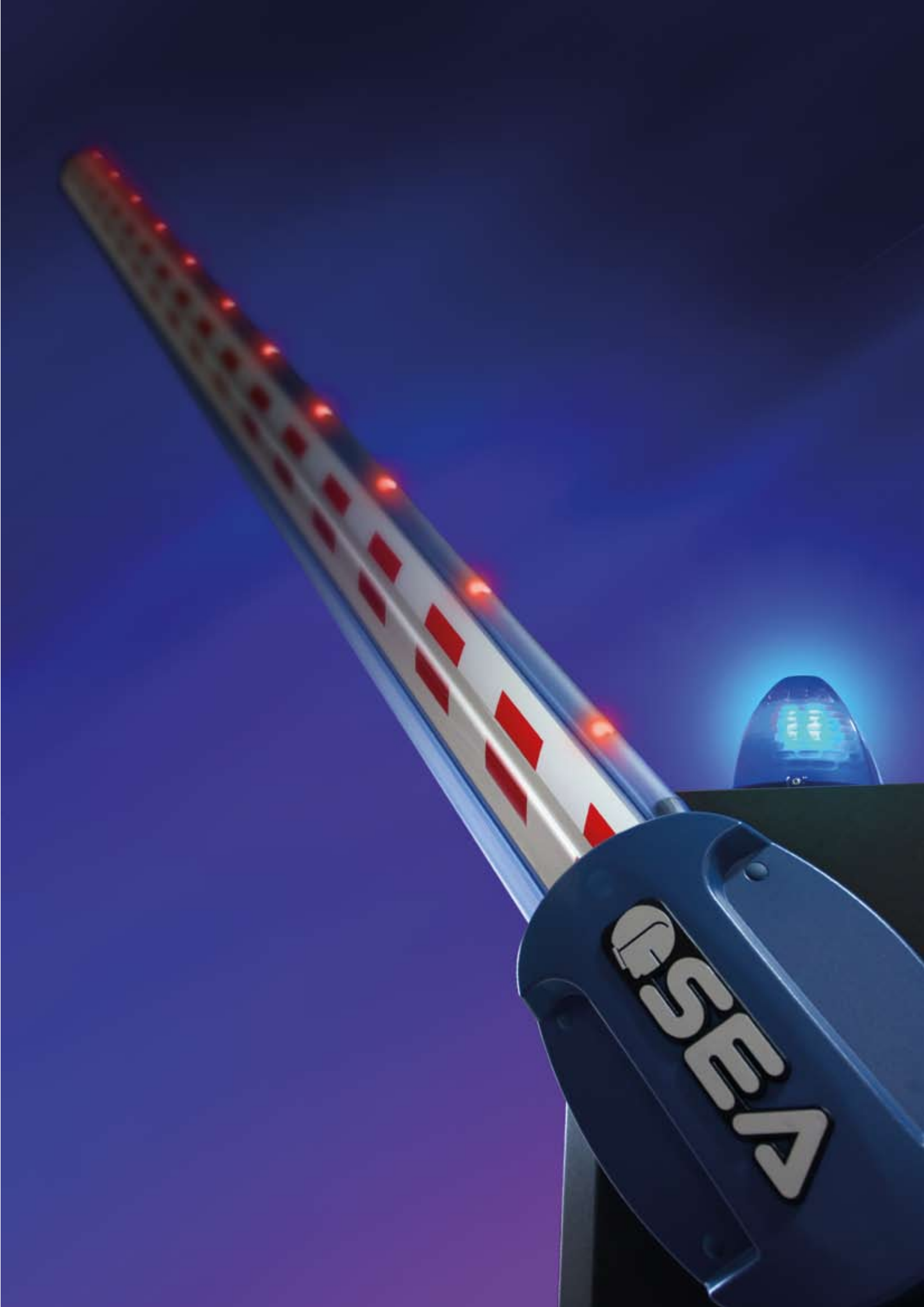
Cylinder diameter: 275 mm

Hight: 700 mm



pag. 78







# BEAM AND SPRING COMBINATIONS

VERG								Spring type	
beam model	2,0 m	2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m	(mm)	
Light 3								Ø 6,0	
Light 4								Ø 7,5	
Light 5								Ø 8,5	

SPRINT								Spring type	
Beam model	2,0 m	2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m	(mm)	
Light /Light Sprint								Ø 5,5	
Light / Art								Ø 6,0	
Ksiepe								Ø 6,5	
Supl / Surl								Ø 7,0	
								Ø 8,0	

STORM 24V - VELA INDUSTRIAL								Spring type	
Beam model	4,5 m	5 m	5,5 m	6 m	6,5 m	7,0 m	7,5 m	(mm)	
SQXF rectangular								Ø 10,5	
SQ Linear								Ø 11,0	
SK Skirt		SK 4,5		SK 5,5		SK 6,5		Ø 11,5	
Juice 2 m + 4m Split								Ø 12,0	
Juice 3 m + 4m Split								Ø 12,5	

The colours in this table are reported in the package of the spring

# Barriers Technical Specifications

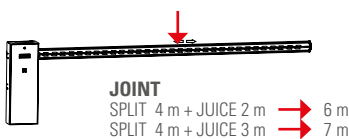
SPECIFICATIONS	SPRINT 24 V / 230 V	VELA INDUSTRIAL 24 V / 230 V	VERG 24 V	STORM 24 V	BULL SUPER BULL
Power supply	24 Vac / 230 Vac	24 Vac / 230 Vac	24 Vac	24 Vac	230 Vac
Absorbed power	45 W/220W	230 W	90 W	150 W	330 W
Absorbed current	10/1,1 A	1,1 A	6 A	6 A	1,65 A
Opening delay	adjustable/ 10 sec.	8 - 12 sec.	adjustable	8 - 12 sec.	6 sec. - 8 sec.
Frequency of use	90 % / 75 %	85 % / 75 %	60 %	70 %	30 %
Thermal protection	130°C	130°C	-	-	130°C
Operation temperature	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C
Weight	51 kg	83 kg	51 kg	83 kg	-
Oil quantity	2 l - 1 l	2 litri	-	-	3 litri
Max. beam length	5 m	7,0 side fixing 7,5 m fork fixing	5 m	7,0 side fixing 7,5 m fork fixing	-
Protection class	IP55	IP55	IP55	IP55	IP67 hydraulic unit
Starting capacitor	- / 6,5 µF	12,5 µF	-	-	16 µF

BEAM LENGTH (m)	2	2,5	3,0	4,0	5,0	6,0	7,0*	7,5*
<b>VERG 24V</b>	2	-	3	4	5	-	-	-
<b>VELA INDUSTRIAL</b>	-	-	-	-	8	9,5	11	12
<b>SPRINT no hydraulic brake</b>	-	-	4	5	6	-	-	-
<b>STORM 24V</b>	-	-	-	-	8	10	12	12
<b>SPRINT FAST</b>	2	2,5	3,0	-	-	-	-	-

\* With oval beam and fork



**VERG - SPRINT**  
LIGHT oval beam 3m - 4m - 5 m

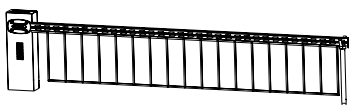


**JOINT**  
SPLIT 4 m + JUICE 2 m → 6 m  
SPLIT 4 m + JUICE 3 m → 7 m

**STORM - VELA INDUSTRIAL**  
Oval beam SPLIT + JUICE



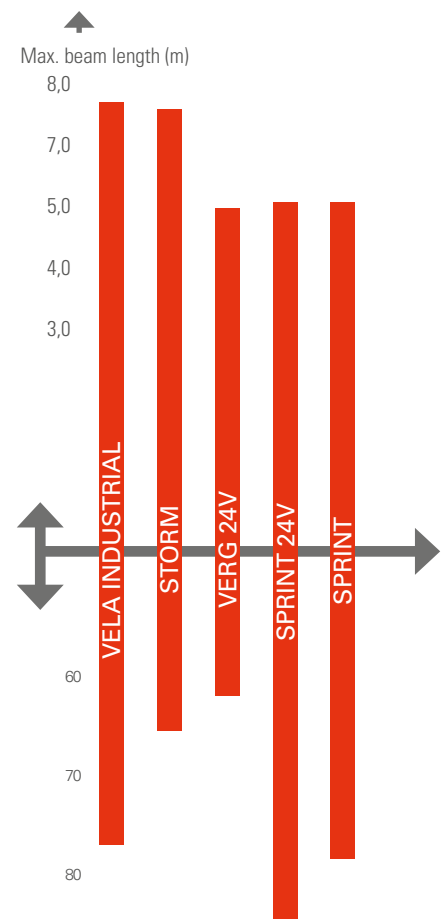
**STORM - VELA INDUSTRIAL**  
Oval beam with fork fixing 6 m - 7 m - 7,5 m



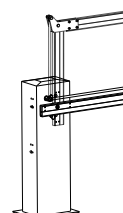
**STORM - VELA INDUSTRIAL**  
LINEAR oval beam + kit skirt 4 m - 5,5 m - 6,5 m



**STORM - VELA INDUSTRIAL**  
LINEAR oval beam 5 m - 6 m - 7 m



100  
Frequency of use (%)



**VERG-SPRINT**  
Articulated oval beam 3 m - 3,5 m



# Verg 24V

**24V ELECTROMECHANICAL BARRIER FOR BEAMS UP TO 5 M.**



- Safe and fast low voltage automatic barrier.
- Slow down speed adjustable in opening and closing
- Low voltage motor for maximum safety.
- Reversing on obstacles with adjustable sensitivity.
- It is possible to add emergency batteries to guarantee the operating also in case of power failure without an additional control unit (24 V version).  
Optional solar panel KIT SUNNY
- Control unit USER 1 24V DG.
- Mechanical limit switches.
- Cathaphoresis treated and polyester painted steel box for longer life .  
INOX steel box available.
- New oval beam with double protection rubber and optional LED light (optional) CLED 12715215 + TLED tube 12715216.
- Casing pre-drilled for photocells SUNSET and key switch ASTER.
- Available with articulated beam of max 3m. (LIGHT ART3)



Internal view



Easy release system with key in case of power failure.



Led lights. Flashing light. Opening with key.

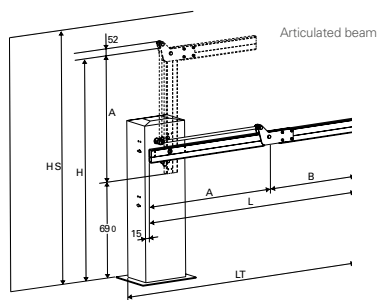
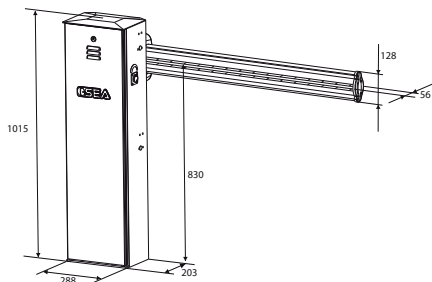


Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	FREQUENCY OF USE (%)	PCS FOR PALLET
11320006	VERG 24V	regolabile	5,0	60	8

VERG 24V with USER1 24V DG control unit programmable with display

NOTE: On request stainless steel casing (1.100 Euros price increase)



**PACKAGE**

**VERG**

- N.1 Operator VERG 24V
- N.1 Control unit USER 1 24V
- N.1 Installation accessories kit
- N.1 Installation instruction and general notice
- N.1 Foundation plate
- N.1 Warning board



**ASSEMBLED BEAMS**



**11903050**

**KIT LIGHT 3** 3m beam + balancing spring + double blunt-free rubber (Tape not included)

**11909055**

**KIT LIGHT4** 4m beam + balancing spring + double blunt-free rubber (tape not included)

**11909060**

**KIT LIGHT 5** 5m beam + balancing spring + double blunt-free rubber (tape not included)

**TO ASSEMBLE BEAMS**



**11903090**

**LIGHT3** 3m oval beam + balancing spring without blunt-free rubber

**11903095**

**LIGHT4** 4.3m oval beam + balancing spring without blunt-free rubber

**11909098**

**LIGHT5** 5m oval beam + balancing spring without blunt-free rubber



**12710825**

**Blunt-free rubber 6** (Pack of 6m) with accessories (obligatory accessory)

**12710830**

**Blunt-free rubber 8** (Pack of 8 m) with accessories (obligatory accessory)

**12710835**

**Blunt-free rubber 10** (Pack of 10m) with accessories (obligatory accessory)

**ACCESSORIES**



**12715216(\*\*)**

**TLED** Tube link LED light (1 meter) (price per meter)



**12715215**

**CLED** kit - power supply cable for TLED light (L= 1m)



**11902035(\*\*\*)**

**LIGHT-ART 3** Articulated oval beam up to max 3,0 m (beam and spring)



**12715220(\*)**

**STICKER** Red Sticker for beam (pack of 50 m)



**12710087**

**SUPL** Pliable support for oval LIGHT beam



**1620045**

**CSUPLIGHT** Counter plate for fork support



**16200100**

**SUPLIGHTP** Fork support



**23101105**

**ESUN** Solar panels control unit and battery - charger for USER 2 - 24V



**23106370**

**Kit SUNNY** 20W solar panel + control unit +battery



**23106325**

**BAT Kit** Battery with box for VERG



**12710795**

**LIGHT** beam release

N.B:For blunt-free rubber 40 m minimum purchasing quantity

\*Same length of the beam needed

\*\*To be ordered in combination with CLED 12715215

\*\*\* CLED and TLED can be used only for the first part of the beam just up to the articulation

Note: For 4/5m beams it is recommended to install 16200100 or 12710087

NB: LIGHT-ART on request cut up to 3m following the drawing

NOTE: Respect the opening times in relation to the length of the beam (see instruction manual)

KIT SUPER SUNNY for more power



# Storm 24V

**24V ELECTROMECHANICAL BARRIER FOR BEAMS UP TO 7 M.**



- Solid and reliable gearmotor
- Slow down speed adjustable in opening and closing
- Low voltage motor for maximum safety
- Possibility to add solar panel KIT SUNNY
- Possibility to add emergency batteries to guarantee the operation also in case of power failure
- Control unit USER 1 24V ROLL\*
- Mechanical and electronic limit switches.
- New oval aluminium beam LINEAR with double bluntfree rubber and optional LED light kit (CLEL 12715215 + TLED 12715216). Available also with modular SPLIT+ JUICE beam
- Casing pre-drilled for photocells SUNSET and key switch ASTER
- Available version with double fixing for rectangular or oval beam (STORM 24 F)



Double beam fixation with fork



Easy Release system with key in case of power failure



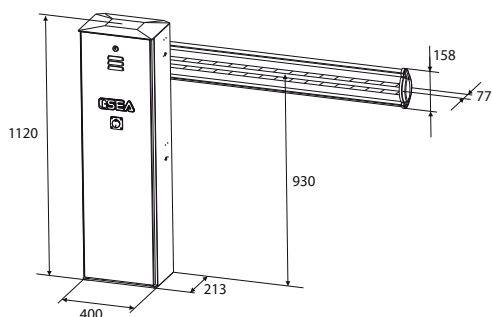
Led lights. Flashing lamp. Opening with key.



Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	FREQUENCY OF USE (%)	PCS FOR PALLET
11330000	STORM 24V	8-12 sec.	7,0	70	6
11330010	STORM 24V F *	8-12 sec.	7,5	70	6

Foundation plate included



### MODULAR BEAMS WITH JOINT

CODE	DESCRIPTION	BEAM
11903115 +11903125	SPLIT 4 m + JUICE 2 m	6 m
11903115 +11903120	SPLIT 4 m + JUICE 3 m	7 m

### PACKAGE

- STORM**
- N.1 operator STORM 24V
  - N.1 Control unit USER 1 24V DG
  - N.1 Installation accessories Kit
  - N.1 Installation instructions and general notice
  - N.1 Foundation plate included
  - N.1 Warning board





## ASSEMBLED BEAMS



11903065

**KIT LINEAR 5** m oval beam+ balancing spring+double blunt-free rubber (Tape not included)



11903070

**KIT LINEARE 6** m oval beam+ balancing spring+double blunt-free rubber (Tape not included)



11903075

**KIT LINEARE 7** m oval beam+ balancing spring+double blunt-free rubber (Tape not included)



11903115

**SPLIT** oval beam 4 m+ accessories and joint (Tape not included)



11903125

**JUICE** oval beam 2 m+ balancing spring (for joint) + blunt-free rubber (Tape not included)



11903120

**JUICE** oval beam 3 m+ balancing spring (for joint) + blunt-free rubber (Tape not included)

## ASSEMBLED BEAMS



11903145

**LINEAR 5** m oval beam + balancing spring without blunt-free rubber



11903150

**LINEAR 6** m oval beam + balancing spring without blunt-free rubber



11903155

**LINEAR 7** m oval beam + balancing spring without blunt-free rubber



12710840

**Blunt-free rubber 10** (Pack of 10) with accessories (obligatory accessory)



12710845

**Blunt-free rubber 12** (pack of 12 m) with accessories (obligatory accessory)



12710850

**Blunt-free rubber 14** (Pack of 14 m) with accessories (obligatory accessory)

## ACCESSORIES



12710095

**SK4,5 \* KIT** 4,5m Skirt + spring only for LINEAR



12710096

**SK5,5 \* KIT** 5,5m Skirt + spring only for LINEAR



12710097

**SK6,5 \* KIT** 6,5m skirt +spring for LINEAR



16200105

**SUPLIGHTP** Fork support



16200125

**SUPINDR** Adjustable support with fork



12710084

**SUPL** Pliable support for oval LIGHT beam



16200090

**CSUPLIGHT** Counter plate for fork support



23101105

**ESUN** Solar panels control unit and battery - charger for USER 2 - 24V



23106370

**Kit SUNNY** 20W solar panel + control unit +battery



23106305

**BAT 7** battery kit with box (7AH)



12715216(\*\*)

**TLED** Tube link LED light (1 meter) (price per meter)



12715215

**CLED** kit - power supply cable for TLED light (L= 1m)



12715220(\*)

**STICKER** Red Sticker for beam (package 50 m)

## FORK FIXING WITH RECTANGULAR BEAM

Disponibili fino ad esaurimento scorte



11905035

**SQXF6 Kit** rectangular beam+ spring+ 6 m STORM 24V F



11905040

**SQXF7 Kit** rectangular beam+ spring+ 7 m STORM 24V F



11905045

**SQXF7,5 Kit** rectangular beam+ spring+7,5m STORM 24V F

## FORK FIXING WITH OVAL BEAM without blunt-free rubber



11905115

**SQXF6-O KIT** oval beam LINEAR 6 m + spring +fork fixing



11905120

**SQXF7-O KIT** oval beam LINEAR 7 m +spring + fork fixing



11905125

**SQXF7,5-O KIT** oval beam LINEAR 7,5 m + spring + fork fixing

## FORK FIXING WITH OVAL BEAM with blunt-free rubber



11905135

**SQXF6-O KIT** lisse ovale LINEAR 6 m + ressort + double bras de fixation + double blunt-free rubber



11905140

**SQXF7-O KIT** lisse ovale LINEAR 7 m + ressort + double bras de fixation + double blunt-free rubber



11905145

**SQXF7,5-O KIT** lisse ovale LINEAR 7,5 m + ressort + double bras de fixation + double blunt-free rubber

N.B:For blunt-free rubber 40 m minimum purchasing quantity

\*Same length of the beam needed

\*\* To be ordered in combination with CLED 12715215

Note: For 5-6-7 m beams it is recommended to install 16200125 or 12710084

Note : 23101105 to combine with 23106305

KIT SUPER SUNNY for more power



# Sprint 24V - 230V

HYDRAULIC BARRIER FOR BEAMS UP TO 5 M



- Fast and reliable automatic hydraulic barrier. SEA TOTAL QUALITY: All main parts are manufactured and tested in the SEA plants. Longer life thanks to the operator working through oil and the inside lubrication of all the mechanical components
- Extremely silent thanks to hydraulic operating
- Adjustable mechanical limit switches. Also electronic limit switches on SPRINT24V and SPRINT 2L 230V (optional SPRINT 1L 230V)
- Cathaphoresis treated and polyester painted steel casing for long time lasting
- INOX (316) steel casing available. New cover for beam attachment for more security and a better design
- Oval aluminium beam with double protection rubber and optional LED lights KIT (CLEL 12715215 + TLED 12715216).
- Casing pre-drilled with holes for photocells SUNSET and key switch ASTER.
- Low voltage (24V) version for intensive use and possibility to add emergency batteries with solar panel KIT SUNNY (optional only for SPRINT230V)
- Control unit USER 1 24V DG for SPRINT 24V Control unit GATE 1 ROLL for SPRINT230V
- Available with oval articulated beam (LIGHTS ART up to max 3.5m)
- Available FAST SPRINT version for intensive use



Bypass valves



Easy Key release system in the case of power failure



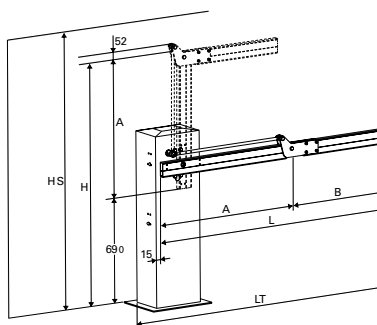
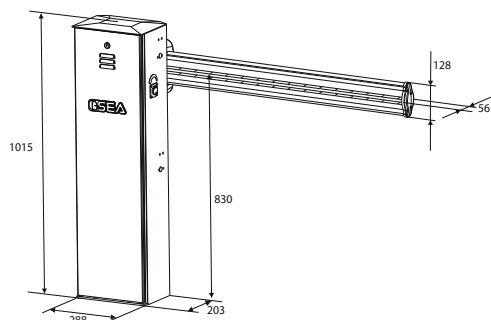
Led lights. Flashing light. Opening with key.



Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	PUMP (l)	FREQUENCY OF USE (%)	PCS FOR PALLET
11703005	SPRINT 24V*	adjustable	5,0	-	90	8
11703000	SPRINT 230V 1 L	8 sec.	5,0	1,0	75	8
11703050	SPRINT 230V* 2 L	4,5 sec.	4,0	2,0	75	8
11703500	SPRINT FAST 2 L	2,0 sec.	3,0	2,0	90	8

\*Electronic limit switches for slow down function  
Foundation plate included. Round beam for SPRINT FAST  
On request stainless steel casing (1.100 Euros price increase)



**PACKAGE**  
**SPRINT 24V**

- N.1 Operator SPRINT
- N.1 Control unit USER 1 24V DG
- N.1 Installation accessories Kit
- N.1 Release Key
- N.1 Installation instructions and general notice
- N.1 Foundation plate
- N.1 Warning signboard



## ASSEMBLED BEAMS



11903100

**KIT LIGHT S 3** 3m oval beam + balancing spring with double anti-blunt rubber (Tape not included)

11903105

**KIT LIGHT S 4** 4m oval beam + balancing spring with double anti-blunt rubber (Tape not included)

11903110

**KIT LIGHT S 5** 5m oval beam + balancing spring with double anti-blunt rubber (Tape not included)

## ASSEMBLED BEAMS



11903160

**LIGHT S 3** 3m beam + balancing spring (no anti-blunt rubber)

11903165

**LIGHT S 4** 4m beam + balancing spring (no anti-blunt rubber)

11903170

**LIGHT S 5** 5m beam + balancing spring (no anti-blunt rubber)

12710825

**Anti-blunt rubber 6** (Pack of 6 m) with accessories (obligatory accessory)

12710830

**Anti-blunt rubber 8** (Pack of 8 m) with accessories (obligatory accessory)

12710835

**Anti-blunt rubber 10** (Pack of 10 m) with accessories (obligatory accessory)

## ACCESSORIES



12710091

**KSIEPE** kit skirt 3 m + balancing spring

12710092

**KSIEPE** kit skirt 3,5 m + balancing spring

12710093

**KSIEPE** kit skirt 4 m + balancing spring

12710087

**SURL** pliable support for oval beam

12715220(\*)

**STICKER** red sticker for beam (50 m package)

11902045(\*\*\*)

**LIGHTS-ART** Articulated beam up to max 3,5 m

12715216(\*\*)

**TLED** Tube link LED light (1 meter) (price per meter)



12715215

**CLED** kit - power supply cable for TLED light (L= 1m)

23101105

**ESUN** Solar panel's control unit and battery - charger

23106370

**Kit SUNNY** 20W solar panel + control unit +battery

23106305

**BAT 7** battery kit with box (7AH)

12710798

**Release** for LIGHTS beams

16200100

**SUPLIGHTP** Fork support

16200045

**CSUPLIGHT** Counter plate for fork support

N.B:For blunt-free rubber 40 m minimum purchasing quantity

\*Same length of the beam

\*\* To be ordered in combination with CLED 12715215

\*\*\*LIGHT-ART On request cut up to max. 3,5m following the drawing

N.B:For 4/5m beams it is recommended to install 16200100 or 12710087

N.B:23101105 to combine with 23106305

KIT SUPER SUNNY for more power



# Vela Industrial

## HYDRAULIC BARRIER FOR INDUSTRIAL BEAMS UP TO 7,5M



- The operation through oil and the inside lubrication of all mechanical components grant a longer life.
- Possibility to add a solar panel SUNNY KIT (only 24V version).
- Adjustable mechanical limit switches.
- Cataphoresis treated, polyester painted steel casing for long time lasting.
- Stainless steel casing available.
- New oval aluminium beam LINEAR with double protection rubber and optional LED light KIT (CLED 12715215 + TLED 12715216). Also available modular beam SPLIT+JUICE (New) with connection joint for easy transportation.
- Version with double rectangular beam fixing (VELA INDUSTRIAL) with rectangular beam or LINEAR beam (on request)
- On request version with fixing for rectangular or oval beam linear (VELA INDUSTRIAL)



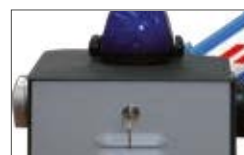
Double beam fixation with fork



By pass valves



Bright LEDs. Flashing lamp. Opening with key



Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	PUMP (l)	FREQUENCY OF USE (%)	PCS FOR PALLET
11701120	VELA INDUSTRIAL 230 V	8,0 sec. - 12 sec.	7,0	2,0	70	8
11701125	VELA INDUSTRIAL 230 V-F with fork	8,0 sec. - 12 sec.	7,5	2,0	70	8
11701130	VELA INDUSTRIAL 24 V	8,0 sec. - 12 sec.	7,0	2,0	85	8
11701135	VELA INDUSTRIAL 24 V-F with fork	8,0 sec. - 12 sec.	7,5	2,0	85	8

230v version with GATE 1 ROLL control unit.

Foundation plate

"F" version (Double fork fixing oval beam for L)

Note: To choose left (SX) or right (DX): Vela operator is considered right-hinged if, when looking at the casing door accessing the motor, the beam is on the right;

To use the rectangular beam (over 6m) SEA recommends the installation of the fork coupling Kit (Fork).

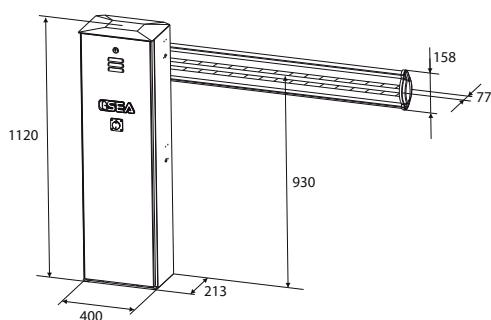
LINEAR beam for VELA INDUSTRIAL.

SQXF beam for VELA INDUSTRIAL F with fork

Reported opening times are without slowdown

### MODULAR BEAM WITH JOINT

CODE	DESCRIPTION	BEAM
11903115 +11903125	SPLIT 4 m + JUICE 2 m	6 m
11903115 +11903120	SPLIT 4 m + JUICE 3 m	7 m



### PACKAGE

#### VELA INDUSTRIAL

- N.1 Operator VELA INDUSTRIAL
- N.1 gate 1 Control unit
- N.1 Installation accessories Kit
- N.1 Installation instructions and general notice
- N.1 Foundation plate
- N.1 Warning signboard



## ASSEMBLED BEAMS



11903065

**KIT LINEARE** 5m oval beam + balancing spring with double anit-blunt rubber  
(Tape not included)

11903070

**KIT LINEARE** 6m oval beam + balancing spring with double anit-blunt rubber  
(Tape not included)

11903075

**KIT LINEARE** 7m oval beam + balancing spring with double anit-blunt rubber  
(Tape not included)

## MODULAR BEAMS



11903115

**SPLIT** oval beam 4 m+ accessories and joint  
(Tape not included)

11903125

**JUICE** oval beam 2m + balancing spring ( for joint) + blunt-free rubber  
(Tape not included)

11903120

**JUICE** oval beam 3m + balancing spring ( for joint) + blunt-free rubber  
(Tape not included)

## ASSEMBLED BEAMS



11903145

**LINEAR** 5m beam + balancing spring  
(no anit-blunt rubber)

11903150

**LINEAR** 6m beam + balancing spring  
(no anit-blunt rubber)

11903155

**LINEAR** 7m beam + balancing spring  
(no anit-blunt rubber)

12710840

**Blunt-free rubber10**  
(pack of 10 m)  
with accessories  
(obligatory accessory)

12710845

**Blunt-free rubber12**  
(pack of 12 m)  
with accessories  
(obligatory accessory)

12710850

**Blunt-free rubber14**  
(pack of 14 m)  
with accessories  
(obligatory accessory)

## ACCESSORIES



12710095

**SK4,5 \* KIT** Skirt 4,5m +for LINEAR

12710096

**SK5,5 \* KIT** Skirt 5,5m +for LINEAR

12710097

**SK6,5 \* KIT** Skirt 5,5m +for LINEAR

16200105

**SUPIND** Fixed support for fork

16200125

**SUPINDR** Adjustable support for fork

12710084

**SUPL** Pliable support for oval beam LINEAR

16200090

**CSUPIND** Counter plate for support fork



23101105

**ESUN** Solar panel control unit and battery - charger for USER 2 - 24V

23106370

**Kit SUNNY** 20W solar panel + control unit +battery

23106305

**BAT 7** battery kit with box (7AH)

12715216

**TLED** Tube link LED light (1 meter)  
(price per meter)

12715215

**CLED** kit - power supply cable for TLED light (L= 1m)

12715220

**STICKER** Red Sticker for beam (pack of 50 m)

## FORK FIXING WITH RECTANGULAR BEAM

Available until supply lasts



11905035

**SQXF6 Kit** rectangular beam+ spring+ 6 m STORM 24V F

11905040

**SQXF7 Kit** rectangular beam+ spring+ 7 m STORM 24V F

11905045

**SQXF7.5 Kit** rectangular beam+ spring+7.5 m STORM 24V F

## FORK FIXING WITH OVAL BEAM without blunt-free rubber



11905115

**SQXF6-O KIT** oval beam LINEAR 6 m + spring +fork fixing

11905120

**SQXF7-O KIT** oval beam LINEAR 7 m + spring +fork fixing

11905125

**SQXF7.5-O KIT** oval beam LINEAR 7.5 m + spring +fork fixing

N.B:For blunt-free rubber 40 m minimum purchasing quantity

\*Same length of the beam needed  
\*\* To be ordered in combination with CLED 12715215, (solo per aste LINEAR o SPLIT/JUICE)  
N.B: For 5-6-7 m beams it is recommended to install 16200125 or 12710084  
NB:23101105 to combine with 23106305

## FORK FIXING WITH OVAL BEAM with blunt-free rubber



11905135

**SQXF6-O KIT lisse** ovale LINEAR 6 m + ressort + double bras de fixation + double blunt-free rubber

11905140

**SQXF7-O KIT lisse** ovale LINEAR 7 m + ressort + double bras de fixation + double blunt-free rubber

11905145

**SQXF7.5-O KIT lisse** ovale LINEAR 7.5 m + ressort + double bras de fixation + double blunt-free rubber



# Bull Hydro - Bull Fix

**HYDRAULIC BOLLARD FOR TRANSIT AND PARKING AREAS AND FOR THE PROTECTION OF PUBLIC ACCESS**



BULL HYDRO INOX



BULL HYDRO



BULL FIX



system of lights

- TOTAL SEA QUALITY  
Bollard with hydraulic movement for max. silence and longer life produced inside the SEA plants.
- Compact version with incorporated hydraulic device for easy installation
- Easy release system with personalized key
- With lighting and sonorous system
- External control unit (SEA recommends GATE1 or GATE2) for BULL HYDRO
- Foundation box
- 5mm thickness  
On request also with stainless steel cylinder
- Electro-valve for automatic descent in the case of power failure (optional)

76

CODE	NAME	PCS FOR PALLETS
12500005	<b>BULL HYDRO</b> complete with lights	4
12500006	<b>BULL HYDRO INOX</b> complete with lights	4
12500011	<b>BULL FIX INOX</b> 680X273mm with support base	8
12500010	<b>BULL FIX</b> 680X275 mm with support base	8

### HYDRAULIC UNIT

Hydraulic pump capacity	4 l/min
Average operation pressure	2.2 MPA (22 bar)
Maximum pressure adjustment	4.5 MPA (45 bar)
Operation temperature	-20°C + 55° C
Hydraulic oil	SEA
Protection class	IP55

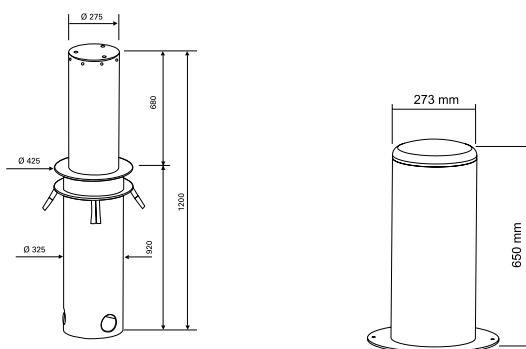
### ELECTRIC MOTOR

Power Supply	230V - 50 Hz	30%
Motor Current	1.65 A	30%
Motor Power	330 W	30%
Capacitor	12.5 mF	30%
Rotation speed	2800 rmp	30%

### FREQ. OF USE

### HYDRAULIC PISTON

Exit time of the rod	6 sec.
Rod effective stroke	720 mm
Rod diameter	16 mm
Piston diameter	30 mm
Max traction force during rod exit	275 kg
Max traction force during rod re-enter	147 kg
Power supply obstruction light (led)	24V
Shock resistance	9.000 Joule
Crashing resistance	120.000 Joule



### MOUNTING ACCESSORIES

Release key  
Mounting instructions



23105151

**WLIGHT** with red /green lights



12710360(\*)

**ZK Foundation** with plate rag bolts



66201286

**RAL Supplement** RAL(grey anthracite)



12710350

**CARBULL Vehicle** manhole cover (550x550 mm)



12710376

**BOX BULL** Foundation form and rag bolts (1m)

### PACKAGE

#### BULL

N.1 BULL operator complete with hydraulic unit, piston, lights kit and 10m connected cables

The standard installation: BULL+ZK or BULL+ BOX BULL

\*Obliged accessories ( ZK foundation plate or BOX BULL complete)

Eletrovalve EVALV cod.12710520 ( price 445,00 euro) is mounted by SEA

N.B. The FIXED BULL comes with base which can be fixed on the foundation plate with rag bolts for more stability.



# Super Bull Hydro

**SHATTERPROOF, HYDRAULIC BOLLARDS FOR THE PROTECTION OF HIGH SECURITY AREAS, PARKING AREAS AND PUBLIC ACCESS**



SUPER BULL HYDRO INOX



SUPER BULL HYDRO

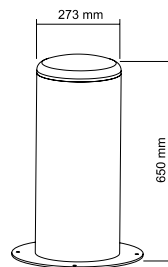
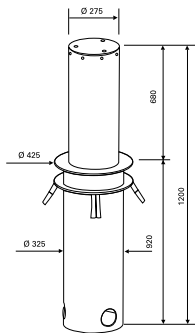


SUPER BULL FIX



system of lights

CODE	NAME	PCS FOR PALLETS
12500025	<b>SUPER BULL HYDRO</b> complete with lights	4
12500026	<b>SUPER BULL HYDRO INOX</b> complete with lights	4
12500030	<b>SUPER BULL FIX</b>	8



- TOTAL SEA QUALITY  
Bollard with hydraulic movement for max. silence and longer life produced inside the SEA plants
- Compact version with incorporated hydraulic device for easy installation
- Easy release system with personalized key
- With lighting and sonorous system
- External control unit (SEA recommends GATE1 or GATE2) for BULL HYDRO
- External control unit (SEA recommends GATE1 or GATE2) for SUPER BULL
- Foundation box
- 12mm thickness. Obligatory foundation plate also for fixed SUPER BULL
- Electro-valve for automatic descent in the case of power failure (optional)

## HYDRAULIC UNIT

Hydraulic pump capacity	4 lt/min
Average operation pressure	2.2 MPA (22 bar)
Maximum pressure adjustment	4.5 MPA (45 bar)
Operation temperature	-20°C + 55° C
Hydraulic oil	SEA
Protection class	IP55

## ELECTRIC MOTOR

Power Supply	230V - 50 Hz	30%
Motor Current	1.65 A	30%
Motor Power	330 W	30%
Capacitor	12.5 mF	30%
Rotation speed	2800 rpm	30%

## FREQU. OF USE

## HYDRAULIC PISTON

Exit time of the rod	8 sec
Rod effective stroke	720 mm
Rod diameter	16 mm
Piston diameter	30 mm
Max traction force during rod exit	275 kg
Max traction force during rod re-enter	147 kg
Power supply obstruction light (led)	24V
Shock resistance	10.000 Joule
Crashing resistance	180.000 Joule

## MOUNTING ACCESSORIES

Release key  
Mounting instructions



23105151

**WLIGHT** with red /green lights



12710360(\*)

**ZK Foundation** with plate rag bolts



66201286

**RAL Supplement** RAL(grey anthracite)



12710350

**CARBULL Vehicle** manhole cover (550x550 mm)



12710376

**BOX BULL** Foundation form and rag bolts (1m)

## PACKAGE SUPER BULL

N.1 BULL operator complete with hydraulic unit, piston, lights kit and 10m connected cables

The standard installation: BULL+ZK or BULL+ BOX BULL

\*Obliged accessories ( ZK foundation plate or BOX BULL complete)

Electrovalve EVALV cod.12710520 ( price 445,00 euro) is mounted by SEA

N.B. The FIXED BULL comes with base which can be fixed on the foundation plate with rag bolts for more stability.

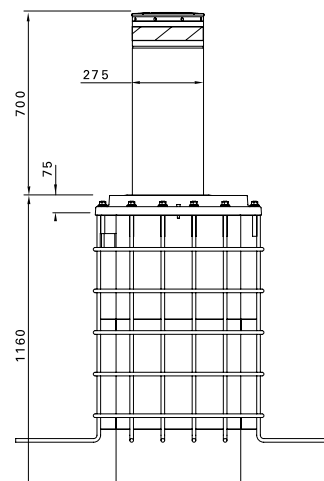


# Bull Antiterrorism

**HYDRAULIC RETRACTABLE SHOCK RESISTANT BOLLARD, FOR THE SECURITY OF SENSITIVE AREAS WITH LIMITED ACCESS**



- Hydraulic retractable shock resistant bollard, for the security of sensitive areas.
- Security system for sensitive areas:
  - Military bases
  - Embassies
  - Ministries
  - Government offices
  - Banks
- Steel cylinder, treated, painted, and driven by a hydraulic piston, allowing the vertical movement.
- Reinforced cage and cemented into the ground.
- Signalisation Leds blinking during the up and down movement of the bollard.
- Electro-valve for automatic drop in case of black out (optional device).
- Traffic light for transit management (optional).



CODE	NAME	PCS FOR PALLET
12500045	<b>BULL ANTITERRORISM*</b>	1
12500050	<b>BULL ANTITERRORISM*</b> with multi LED flashing lamp*	1
12500055	<b>BULL ANTITERRORISM**</b> with multi LED flashing lamp and circuit	1

\*on request

\*\* : Circuit, which basically consists of a hydraulic accumulator that allows, in case of emergency and with a specific command, to lift the bollard immediately

## ACCESSORIES

12710566	12710571	12710576
Well, sub frame and anchoring bolts	Metal manhole for sub frame with screws	RAL paint cylinder
12710581	12710586	12710591
Electric valve for automatic opening	Cylinder lid	Cylinder lid with flashing lamp

TECHNICAL SPECIFICATIONS	BULL ANTI-TERRORISM
<b>Movement</b>	AUTOMATIC
<b>Dimensions</b>	Diameter 275 mm / height 700 mm / wall thickness 10mm
<b>Manual release</b>	YES
<b>Material</b>	Steel Fe 510C
<b>Painting</b>	Polyester powder RAL 7021 grey anthracite
<b>Motor</b>	Hydraulic
<b>Rise time</b>	10 cm/s
<b>Fall time</b>	20 cm/s
<b>Operation temperature</b>	-40C° +60C°
<b>Use</b>	2000 cycles/days intensive
<b>Shock resistance</b>	30.000 Joule
<b>Crashing resistance</b>	700.000 Joule
<b>Dimensions foundation case</b>	650 x 650 x 1200 mm
<b>Protection class</b>	IP 67
<b>Refracting sticker</b>	YES - height 55 mm





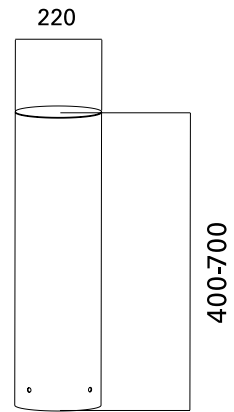
# Soft 400/700

**NEW BOLLARD FOR PARKING AREAS AND AREA PROTECTION, FOR PUBLIC ACCESS AND STREET FURNITURE.**

- 3mm thickness. Also available with INOX steel cylinder
- Dimensions 400x168mm or 700x168mm MINI BULL
- Ideal for street furniture in combination with the BULL series



CODE	NAME	PCS FOR PALLETS
12500015	SOFT 400 mm x 220 mm fixed	4
12500020	SOFT 700 mm x 220 mm fixed	4
12500016	SOFT INOX 400 mm x 220 mm fixed	4
12500021	SOFT INOX 700 mm x 220 mm fixed	4





Sun

**NOT REVERSING GEARMOTOR FOR THE AUTOMATIC MOVEMENT OF SUN BLINDS AND ROLLING SHUTTERS Ø 45 SERIES.**

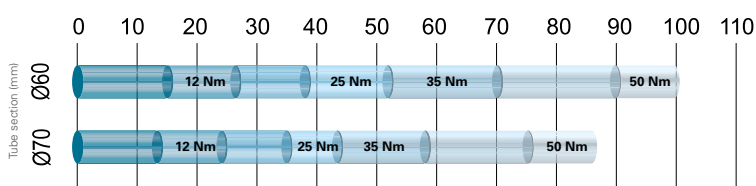
- Safe, practical and easy to install.
- Gearmotor with rescue operation in case of power failure.
- Easy and fast to install.
- Easy adjustable mechanical limit switch



70mm Ogive Roller

## TUBULAR GEARMOTOR FOR ROLLER SHUTTERS

### GUIDE TO THE PRODUCT



MATERIAL	WEIGHT (Kg/mq)*
Extruded aluminium	7-12
Aluminium with expanded polyurethane	3-7
PVC	5-10
Steel	8-12
Steel with expanded polyurethane	10-15
Armored Sicofer steel	15-20
Wood	10-12

CODE	NAME	TORQUE (Nm)	NUMBER TURNS/min	NUMBER TURNS/limit switches	PCS FOR PALLETS
11306105	SUN 35	35	12	30	90
11306110	SUN 50	50	12	30	90

#### ACCESSORIES



12715140

SP Wall support



12715145

SP Wall star support



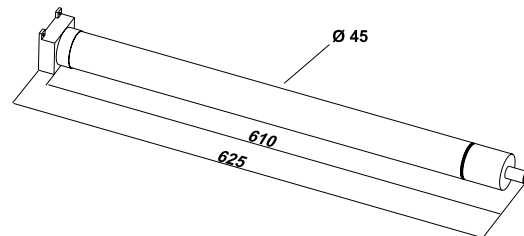
1271560

R070 Ogive roller of 70 mm



1271565

R078 Ogive roller of 78 mm



#### ELECTRONIC ACCESSORIES



23024000

BOARD Control unit for 5 tubular motors + 433MHz receiver 433 MHz



23024005

BOARD Control unit for tubular motor + 433 MHz rec.



23024010

BOARD Control unit for mini tubular motor + 433 MHz rec.



23103060

PUSH Radio 2 push button board for wall application with support



23102100

SENSOR Sun/wind sensor

#### PACKAGE SUN

- N.1 Gearmotor SUN
- N.1 Mounting accessories Kit
- N.1 Mounting instructions and General notice



Easy

**IRREVERSIBLE TUBULAR GEARMOTOR FOR THE AUTOMATIC MOVEMENT OF ROLLING SHUTTERS Ø 45 SERIES.**

- Safe, practical and easy to install.
- Easy and fast installation.
- Easy adjustable mechanical limit switch



# TUBULAR GEARMOTOR FOR SUN BLINDS

## GUIDE TO THE PRODUCT

Arm protuberance **Ø Tubo 60/70 mm**

Number of arms	1.5	2	2.5	3	4	5
2	12 Nm	25 Nm	25 Nm	35 Nm	35 Nm	50 Nm
4	25 Nm	25 Nm	35 Nm	35 Nm	50 Nm	
6	35 Nm	35 Nm	50 Nm	50 Nm		
8		50 Nm				

Arm protuberance **Ø Tubo 78 mm**






Number of arms	1.5	2	2.5	3	4
2	25 Nm	35 Nm	35 Nm	50 Nm	50 Nm
4	35 Nm	35 Nm	50 Nm	50 Nm	50 Nm
6	50 Nm	50 Nm	50 Nm		

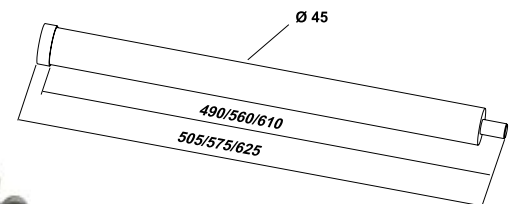
CODE	NAME	TORQUE (Nm)	NUMBER TURNS/min	NUMBER TURNS/limit switches	PCS FOR PALLETS
11306005	EASY 12	12	12	30	90
11306010	EASY 25	25	12	30	90
11306015	EASY 35	35	12	30	90
11306020	EASY 50	50	12	30	90

**ACCESSORIES**

					
<b>12715140</b>	<b>12715145</b>	<b>12715130</b>	<b>12715135</b>	<b>12715150</b>	<b>12715155</b>
SP Wall support	SP Wall support star	SPA djustable support with bolt	SP Square wall support	Octagonal star roller 60mm	RO 60 Octagonal roller 60mm

**ELECTRONIC ACCESSORIES**

				
<b>23024000</b>	<b>23024005</b>	<b>23024010</b>	<b>23103060</b>	<b>23102100</b>
BOARD Control unit for 5 tubular motors + 433MHz receiver 433 MHz	BOARD Control unit for tubular motor + 433 MHz rec.	BOARD Control unit for mini tubular motor + 433 MHz rec.	PUSH Radio 2 push button board for wall application with support	SENSOR Sun/wind sensor



**PACKAGE EASY**

- N.1 Gear motor Easy
- N.1 Mounting accessories Kit
- N.1 Mounting instructions and General notice





Lift

## ELECTROMECHANICAL AUTOMATION FOR 1 OR 2 SLIDING DOOR LEAVES - 1 LEAF MAX. WEIGHT 160 KG, 2 LEAVES MAX. WEIGHT 100 KG PER LEAF.



CODE	NAME
13205172-I	LIFT 1 Leaf
13205167-I	LIFT 2 Leaves

### STANDARD INSTALLATION

CODE	NAME	QUANTITY
13205172-I	LIFT 1 LEAF	1
13206321-I	*CAS-L unrefined transom outline 4,4 m	1
13206327-I	*COVER-L anodized, silver lid outline 4,4 m	1
13206346-I	BRUSH14-L Airtight brushes 14 mm (2,5 m)	1
13206350-I	Batteries and recharger card	1
13206355-I	Single-ray safety photocell	1
13206360-I	Basic selector	1
13206370-I	JET Microwave radar	2
13206335-I	Sliding guide profile 7 m	1
13206331-I	Gear belt 10 m	1

\*The cut of the profile, cover and guide profile on request.

### ACCESSORIES FOR LIFT

CODE	NAME
13206321-I	CAS-L unrefined transom outline 4,4 m
13206327-I	COVER-L anodized, silver lid outline
13206346-I	BRUSH14-L Airtight brushes 14 mm (2,5 m)
13206350-I	Power including battery recharger and control card
13206355-I	BL Single-ray safety photocell
13206356-I	BL2 Double -ray safety photocell
13206360-I	KS Basic logic selector
13206361-I	KSP Advanced logics selector
13206370-I	JET Microwave radar (for entrance up to 1,5 m)
13206375-I	AVR active infrared radar
13206365-I	ELB Leaf blocking device with Allen-key manual release, without electricity
13206367-I	KBLOC Kit 5 meter release cable
13206362-I	KLICK Device for connecting "Wind" series electronic cards to a PC with management software
13206328-I	KTP-L naturally anodized plugging outline Kit (4,4 m) + bracket*
13204005-I	SE emergency kit with CO48 elastic + 50m roll**
13216005-I	SAFE anodized anti panic kit for mobile wing
13216008-I	SAFE PLUS Kit anodized anti-panic device for small leaves
13216012-I	SAFES Kit anti panic kit for semi fixed wing
13216162-I	KAV KIT glass wing kit for 1 wing of 1600mm length 10mm glass thickness
12710280	SECLS security box for external release without cable***
12710290	SECSONG security box for external release SONG with button
13206340-I	Rubber finishing touch for cover 2,5 m
13206335-I	Sliding guide profile 7 m
13206331-I	Gear belt 10 m

\*To be used with wings of less than 30mm thickness \*\*For French market

\*\*\* To be combined with 13206367-I



- The LIFT automatic door has been projected and produced for high performances of both light and heavy doors
- The extremely reduced overall dimensions make it elegant and suitable, improving the aesthetics of hotels' entrances, museums, hospitals, airports, shops, big shopping centers
- The micro processor electronic control unit verifies in time all the activities of the door: speed adjustment, pausing time adjustment, partial opening adjustment
- It can be interfaced with alarm and control systems. The reversing of the movement in case of impact guarantees the maximum safety against squeezing

### TECHNICAL FEATURES:

Opening speed:  
adjustable up to 70cm/sec (1 leaf) or  
up to 140 cm/sec. (2 leaves)

Closing speed:  
70% of closing time

Maximum allowable payload:  
1 leaf 160 Kg 2 leaves 120+120 Kg

Wing dimensions:  
1 leaf 700-3000 mm -2 leaves 450-1500 mm

Working temperature:  
Internal cross-piece from 0° C to +50°C

Anti-crushing:  
Weight 9,3 Kg / linear meter

Use:  
Intensive

Automation dimensions:  
126 H X 192 W mm



Leaf width (mm) min.= 570	*SAFE	**SAFE PLUS
600	from 0 to 135 kg	
700	from 0 to 115 kg	
800	from 0 to 115 kg	
900	from 0 to 90 kg	from 50 to 125 kg
1000	from 0 to 80 kg	from 50 to 115 kg
1100	from 0 to 70 kg	from 50 to 110 kg
1200		from 50 to 100 kg
1300		from 50 to 90 kg
1400		from 50 to 80 kg



# Wind

**ELECTROMECHANICAL AUTOMATION FOR 1 OR 2 SLIDING DOOR LEAVES - 1 LEAF MAX. WEIGHT 120 KG, 2 LEAVES MAX. WEIGHT 80 KG PER LEAF.**



- The WIND automatic door has been projected and produced for high performances of both light and heavy doors
- The extremely reduced overall dimensions make it elegant and suitable, improving the aesthetics of hotels' entrances, museums, hospitals, airports, shops, big shopping centers
- The micro processor electronic control unit verifies in time all the activities of the door: speed adjustment, pausing time adjustment, partial opening adjustment
- It can be interfaced with alarm and control systems. The reversing of the movement in case of impact guarantees the maximum safety against squeezing



CODE	NAME
13205171-I	WIND 1 Leaf
13205166-I	WIND 2 Leaves

## STANDARD INSTALLATION

CODE	NAME	QUANTITY
13205166-I	WIND 2 Leaves	1
13206320-I	*CAS unrefined transom outline 4,4 m	1
13206325-I	*COVER anodized, silver lid outline 4,4 m	1
13206345-I	BRUSH14 Airtight brushes 14 mm	1
13206350-I	Batteries and recharger card	1
13206355-I	Single-ray safety photocell	1
13206360-I	Basic selector	1
13206370-I	JET Microwave radar	2
13206335-I	Sliding guide profile 7 m	1
13206331-I	Gear belt 10 m	1

\*The cut of the profile, cover and guide profile on request.

## ACCESSORIES FOR WIND

CODE	NAME
13206320-I	CAS unrefined transom outline 4,4 m
13206325-I	COVER anodized, silver lid outline
13206345-I	BRUSH14 Airtight brushes 14 mm (2,5 m)
13206350-I	Power including battery recharger and control card
13206355-I	BL Single-ray safety photocell
13206356-I	BL2 Double-ray safety photocell
13206360-I	KS Basic logic selector
13206361-I	KSP Advanced logics selector
13206370-I	JET Microwave radar (for entrance up to 1,5 m)
13206375-I	AVR active infrared radar
13206366-I	EB Leaf blocking device with/ with out power supply
13206365-I	ELB Leaf blocking device with Allen-key manual release
13206367-I	KBLOC Kit 5 meter release cable
13206362-I	KCLICK Device for connecting "Wind" series electronic cards to a PC with management software
13206326-I	KTP naturally anodized plugging outline Kit (4,4 m) + bracket*
13204005-I	SE emergency kit with CO48 elastic + 50m roll**
13216005-I	SAFE anodized anti panic kit for mobile wing
13216008-I	SAFE PLUS Kit anodized anti-panic device for small leaves
13216012-I	SAFES Kit anti panic kit for semi fixed wing
13216162-I	KAV KIT glass wing kit for 1 wing of 1600mm length 10mm glass thickness
12710280	SECLS security box for external release without cable***
12710290	SECSONG security box for external release SONG with button
13206340-I	Rubber finishing touch for cover 2,5 m
13206335-I	Sliding guide profile 7 m
13206331-I	Gear belt 10 m

\*To be used with wings of less than 30mm thickness \*\* For French market

\*\*\* To be combined with 13206367-I



## TECHNICAL FEATURES:

**Opening speed:**  
adjustable up to 70cm/sec (1 leaf) or up to 140 cm/sec. (2 leaves)

**Closing speed:**  
70% of closing time

**Maximum allowable payload:**  
1 leaf 120 Kg 2 leaves 80+80 Kg

**Wing dimensions:**  
1 leaf 700÷3000 mm –2 leaves 450÷1500 mm

**Working temperature:**  
Internal cross-piece from 0° C to +50°C

**Anti-crushing:**  
Weight 8,5 Kg / linear meter

**Use:**  
Intensive

**Automation dimensions:**  
115 H X 180 W mm



Leaf width (mm) (mm) min.= 570	*SAFE	**SAFE PLUS
600	from 0 to 135 kg	
700	from 0 to 115 kg	
800	from 0 to 115 kg	
900	from 0 to 90 kg	from 50 to 125 kg
1000	from 0 to 80 kg	from 50 to 115 kg
1100	from 0 to 70 kg	from 50 to 110 kg
1200		from 50 to 100 kg
1300		from 50 to 90 kg
1400		from 50 to 80 kg



# Guide to the Product

## Gate 1

FOR 1 SLIDING GATE, SWING GATE, BARRIER, SLIDING DOOR



pag. 85

## Swing 2 Amp

FOR SWING OPERATORS WITH OR WITHOUT LIMIT SWITCH, RESIDENTIAL USE



pag. 85

## Gate 1 DG

FOR 1 SLIDING GATE, SWING GATE, BARRIER, SLIDING DOOR.



pag. 86

## Gate 2 DG

FOR 2 SLIDING GATES, SWING GATES, BARRIERS SLIDING DOORS CONDOMINIUM USE



pag. 86

## User 1 24V DG

FOR 1 BARRIER OR SLIDING GATE, GARAGE DOOR



pag. 87

## User 2 24V DG

FOR 2 SWING GATES



pag. 87

## SEA 380 DG trifase

FOR 1 SLIDING GATE 380V



pag. 88



# Gate 1

## CONTROL UNITS FOR ONE 230V MOTORS



CODE	NAME
23001120	<b>GATE 1</b> with box BL
23106230	<b>MICRO</b> Gate 1 dead man function

- Management of one 230 Vac motor with or without limit switch
- Pedestrian opening
- Automatic logic (4 modalities), semiautomatic
- Slow down in opening and closing
- Motor couple adjustment
- Self-learning operating times
- Auto-test on photocells
- Auto-diagnostic
- Encoder management (also Safety Gate for swing gates)
- Diagnostic Leds on all outputs/inputs
- Extractable connectors
- Integrated radio decoding compatible with RF UNI receivers max 30 users fix code or 800 users rolling code
- Programming through palm
- Working time
- Pedestrian opening time
- SAFETY GATE (encoder) sensitivity
- N° cycles for assistance
- PUSH-OVER function administration
- AUX output administration
- Automatic closing with photocells crossing Administration



# Swing 2 Amp

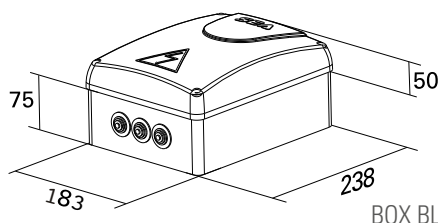
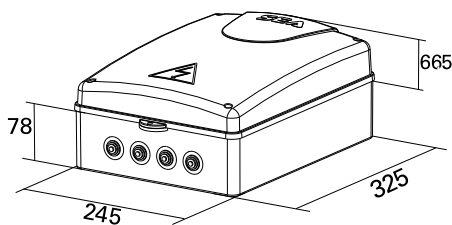
## 230V CONTROL UNIT FOR SWING GATES WITHOUT LIMIT SWITCH

Amperometric



CODE	NAME
23021093	<b>SWING 2 Amp</b> with box BL , amperometric reversing on obstacle for eletromechanical operators

- Management of two 230Vac motors without limit switches
- Automatic, semi-automatic, safety automatic and semi-automatic
- Slowdown in opening and closing
- Motors torque adjustment
- Operation time self-learning
- Photocell auto-test
- Auto-diagnostic
- Automatic closing management with crossing of the photocell
- Timed courtesy light
- Electro-lock management
- Diagnostic leds on all in/outputs
- Extractible terminal
- Incorporated radio decoding for RF UNI (max. 30 users fixed code or 800 users with rolling code)
- Pedestrian opening
- Amperometric reversing on obstacle (electromechanical operators) on request
- Amperometric reversing on obstacle (electromechanical operators) on request
- Programming through PALM
- Operation time
- Leaf delay
- Numbers of maneuver for assistance
- PUSH-OVER function management
- Photocell in opening management



CODE	NAME
23105350	<b>BL</b> Small box
23105355	<b>BLD</b> Big box



BOX BLD

BOX BL



## Gate 1 DG

CONTROL UNIT FOR ONE MOTOR  
DIGITAL PROGRAMMING

\*Available on 2013



- Management of one 230V motor
- Adjustable slowdown in opening and closing
- Adjustable pedestrian opening
- Led warning lamp
- Connector for radio RF receiver
- Working time self-learning
- Encoder management
- Simplified programming with buttons and display
- Inversion on obstacle with encoder
- **Balanced or standard safety edge management**
- **Differentiated torque adjustment for opening and closing**
- **Programming through JOLLY**
- Automatic, security and step by step type 1, step by step type 2, 2 buttons, dead-man logics
- Motor inversion and limit switch (right/left hand mounting)
- Automatic closing adjustment
- Start in pause adjustment
- **Prepared for Master/Slave function**
- Adjustable courtesy light output up to 4 minutes
- Number of performances for assistance
- Settable photocell inputs
- Extractable terminals
- Photocell self-test

...and many other functions



## Gate 2 DG

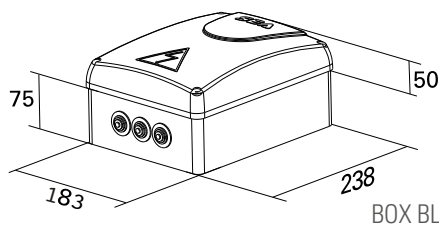
CONTROL UNITS FOR TWO MOTORS  
DIGITAL PROGRAMMING



- Management of two 230 Vac motors with or without limit switch
- Adjustable pedestrian opening
- Automatic logic (6 modes), half-automatic (6 modes), dead-man, open and close logic
- **Adjustable slowdown in opening and closing for each leaf and direction**
- **Adjustable motor torque for each leaf and direction**
- Working times self-learning
- Photocells self-test
- Self-diagnostics
- Settable photocells inputs
- Adjustable courtesy light output up to 4 minutes
- Electro-lock management
- Led warning lamp
- Extractable terminals
- Connector for RF radio receiver
- **Encoder/Amperometric sensitivity adjustment (for electromechanical operators)**
- **Programming through JOLLY**
- Working time adjustable for each leaf and for opening and closing
- Leaf delay differentiated for opening and closing
- Number of performances for assistance
- PUSH-OVER function management with optional periodical push over
- 24V Aux output management
- **Safety edge management in opening and closing**
- Leaf stroke
- Optional external module for traffic light management

...and many other functions

CODE	NAME
23001129	<b>GATE 2 ROLL</b> with box BLD (Until supply lasts)
23023025	<b>GATE 2 DG</b> with box BLD and digital programming
23021100	<b>SEM</b> traffic lighth card for GATE 2 DG



CODE	NAME
23105350	<b>BL</b> small box
23105355	<b>BLD</b> big box







## User 1 24V DG

24V LOW VOLTAGE FOR SLIDING GATES AND BARRIERS  
DIGITAL PROGRAMMING



CODE NAME

Spare parts list  
**USER 1 24V DG**  
without box (for spare parts)  
**23001220** **KIT MASTER SLAVE**  
for USER 1 24V DG

- Management of one 24V motor
- Adjustable slowdown in opening and closing
- Motor speed adjustment
- Adjustable pedestrian opening
- 24V Led warning lamp
- Emergency battery management through optional battery charging card
- Connector for RF radio receiver
- Working times self-learning
- Encoder management (only for CORONA)
- Simplified programming through buttons and display
- Programming through Jolly
- Adjustable ammeter type inversion on obstacle
- Photocells self-test
- **Balanced or standard safety edge management**
- Extractable terminals
- Differentiated torque adjustment for opening and closing
- Slowdown speed adjustment
- Automatic, security and step by step type 1, step by step type 2, 2 buttons, dead-man logics
- Motor inversion and limit switch (right/left hand mounting)
- Automatic closing setting
- Start in pause setting
- **Prepared for Master/Slave function**
- Low consumption in standby-by
- Adjustable courtesy light output up to 4 minutes
- Number of performances for assistance
- Settable photocell inputs
- ...and many other functions



## User 2 24V DG

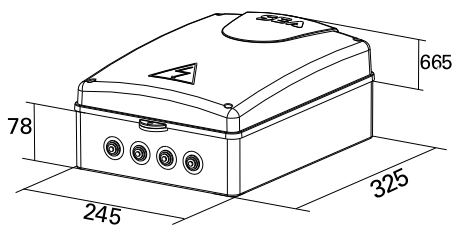
C24V LOW VOLTAGE FOR SWING GATES.  
DIGITAL PROGRAMMING



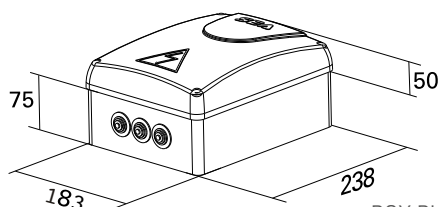
CODE NAME

**23024080** **USER 2-24V HYDRO DG**  
with box BLD and digital programming  
**23024025** **USER 2-24V DG**  
(for ALPHA/FIELD/SURF) with display and box  
**23024030** **USER 2-24V DG**  
(for BETA) with display and box  
**23021100** **SEM** Traffic lights card for USER 2 DG

- Management of two 24V motors
- **Adjustable slowdown in opening and closing**
- **Separate motors speed adjustment for each leaf**
- Adjustable pedestrian opening
- 24V Led warning lamp
- Electro-lock management
- Emergency battery management through optional battery charging card
- Working times self-learning
- Connector for RF radio receiver
- Prepared for encoder management
- Simplified programming through buttons and display
- Programming through Jolly
- Photocells self-test
- Adjustable ammeter type inversion on obstacle
- **Balanced or standard safety edge management**
- Extractable terminals
- **Differentiated torque adjustment for each leaf and for opening and closing**
- **Leaf delay adjustment differentiated between opening and closing**
- Dead-man, automatic, security, step by step type1, step by step type 2, half-automatic1, half-automatic 2.
- Adjustable courtesy light output up to 4 minutes
- Number of performances for assistance
- Settable photocells inputs
- Low consumption in standby-by
- Push over
- Leaf stroke
- Optional external module for traffic light management
- ...and many other functions



BOX BLD



BOX BL

CODE NAME  
**23105350** **BL** small box  
**23105355** **BLD** big box





# SEA 380 DG Three-phase

CONTROL UNIT FOR 380V MOTORS  
DIGITAL PROGRAMMING



- Management of one 380V motor with limit switch
- 4 relays programmable with 28 functions
- Rotational direction detection
- Additional programming of the access position
- Position adjustment through limit switch
- Integrated cycle counter
- Optional extractable display with 3 buttons
- Condition and diagnostic message
- Max. transformer capacity 350mA accessories
- Low tension protection
- Protection lid with integrated hinge

CODE	NAME
23021022	SEA 380 DG three-phase with box
23101130	Extractable display for control unit SEA 380 DG Three-phase



Extractable display obligatory, to use only during the 1 programming



# Jolly

PROGRAMMER FOR CONTROL UNIT DG SERIES



- Self-learning time adjustment
- Deceleration and acceleration ramp adjustment
- Photocell auto-test activation
- Warning light activation
- Anti-intrusion activation
- Inversion stroke activation
- Linear modification of speed, torque and other parameters
- Cycle number signalisation and adjustment
- Pre-flashing activation
- Photocell in opening activation
- BUS photocell control
- Pedestrian opening adjustment
- Possibility to start the programming of the control unit without using the buttons on the control unit
- Possibility to adjust all parameters (pause, leaf delay, speed, slowdown speed, torque etc.) linearly and without using the buttons on the control unit.
- Possibility to adjust the torque differentiating it for single motor and for movement direction (different between opening and closing)
- Possibility to transform the PHOTO and PEDESTRIAN inputs into TIMER inputs
- Possibility to activate the reclosing with photocells "PhotoClose" function.
- Possibility to deactivate the electro- lock
- Possibility to change the flashing lamp output into continuous flashing or into warning light
- Possibility to visualise the last ten events occurred on the control unit
- Possibility to select the motor type, the type of leaf and the type of logic, without using the buttons of the control unit
- Possibility to choose the language from Italian, French, English and Spanish

CODE	NAME
23105276	JOLLY



# Control units

INPUTS/OUTPUTS CLAMPS	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Start	•	•	•	•
Pedestrian star	•	•	•	•
Stop	•	•	•	•
M1 limit switch in opening	precabled with AMP	•	precabled with AMP	•
M1 limit switch in closing	precabled with AMP	•	precabled with AMP	•
M2 limit switch in opening		•		•
M2 limit switch in closing		•		•
Photocells in opening	•	•	•	•
Photocells in closing	•	•	•	•
24V 500 mA max output	•	•		
24V Vac 500 mA max output				•
24V Vac 300 mA max output			•	
24V Aux 300 mA config. coutput	•	•	•	•
24V tX photocell (autotest) output	•	•	•	•
24V 3W max. control lamp	•	•	•	•
12V 15VA max. electro- lock output	c.s.r.	•	c.s.r.	•
Motor 1 (m1) output	•	•	•	•
Motor 2 (m2) output		•		•
230V 100W max. courtesy light			•	•
24V 100mA courtesy led light	•	•	•	•
24V 15W max. warning lamp	•	•	•	•
230V 50W max. warning lamp			with flashing card	with flashing card
24V 4W led warning lamp	•	•	•	•
Capacitor M1 output			•	•
Capacitor M2 output				•
230V 50/60hz power supply input			•	•
Antenna input	•	•	•	•
Encoder 1 input	only Corona	•	•	•
Encoder 2 input		•		•
24dc battery charge input	•	•		
External transformer input	•	•		
Safety edge (impost. 8k2)	•	•	•	double access
Socket for radio frequency module (RF)	•	•	•	•
Display terminal connector	•	•	•	•
Connector for control unit re-programming	•	•	•	•
Expansion cards for traffic-light output		•		•
Alarm signalisation on warning lamp	•	•	•	•

c.s.r.= with external relay card



ADJUSTABLE PARAMETERS ON DISPLAY WITH UP AND DOWN BUTTONS	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Motor type choice	•	•	•	•
Working logics choice	•	•	•	•
Aux. input configuration choice	•	•	•	•
Pausing time adjustment	•	•	•	•
Leaf delay exclusion	•			•
Pre-flashing activation	•	•	•	•
Automatic reclosing activation	•	•	•	•
Photocell auto-test activation	•	•	•	•
Encoder activation	•	•	•	•
Slow-down activation	•	•	•	•
Adjustable acceleration ramp	•	•	•	•
Adjustable deceleration ramp	•	•	•	•
Push over activation and management	•	•	•	•
Inversion stroke activation		•		•
Photocell input management (stop, park, close...)	•	•	•	•
Leaf delay adjustment		•		•
Start activation in pause	•	•	•	•
Closing direction	•	•	•	•
Timer function	•	•	•	•
Courtesy light timing	•	•	•	•
Motor torque adjustment for single leaf and direction	•	•	•	•
Working time adjustment			•	•
Anti-crushing sensitivity adjustment	•	•	•	•
Speed adjustment	•	•		
Slowdown speed adjustment	•	•		
Number of cycles setting	•	•	•	•
Cycles number display	•	•	•	•
Inertia recover	•	•	•	•
Antiintrusion alarm	•	•	•	•
Last 10 events diagnostic	•	•	•	•
Reversing after limit switch	•	•	•	•
Parameter blocking password insertion	•	•	•	•
Electrolock release timing		•		•
TX programming	•	•	•	•
Pedestrian pause adjustment	•	•	•	•
Pedestrian opening adjustment	•	•	•	•
Times selflearning	•	•	•	•



# Control units

OPERATION LOGICS	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Automatic	•	•	•	•
2 Buttons (open and close)	•	•	•	•
Dead man	•	•	•	•
Safety	•	•	•	•
Step by step type 1	•	•	•	•
Step by step type 2	•	•	•	•

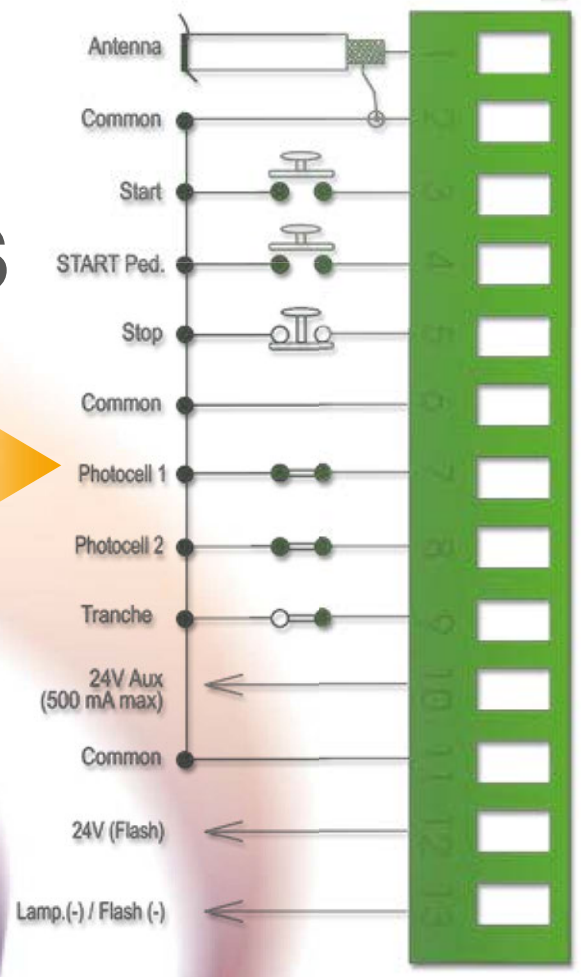
N.B: All logics can accept or not the start in pause and can be automatic and semi-automatic

PROGRAMMING MODE	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Selflearning with limit switch	•	•	•	•
Selflearning without limit switch	•	•		•
Single and double leaf		•		•
With Encoder	on Corona	•	•	•
Modify times on display			•	•
With impulse on the stops			•	•

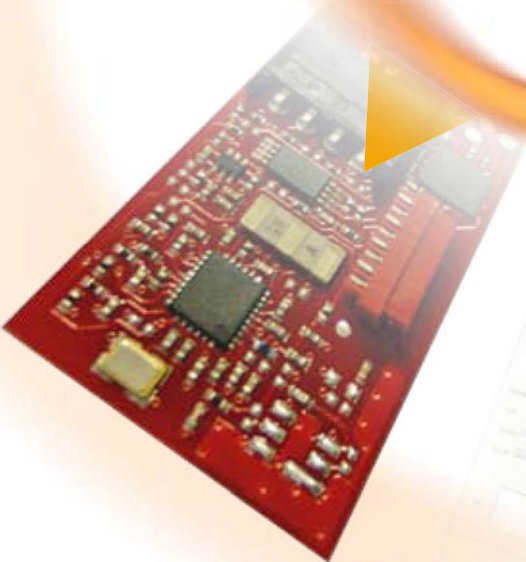
# New digital control units

# Advantages

STANDARDIZED INPUTS WITH THE SAME NUMBER



92



Universal radio module compatible with fixed code or Rolling Code Plus Transmitters



Firmware upgrading through download



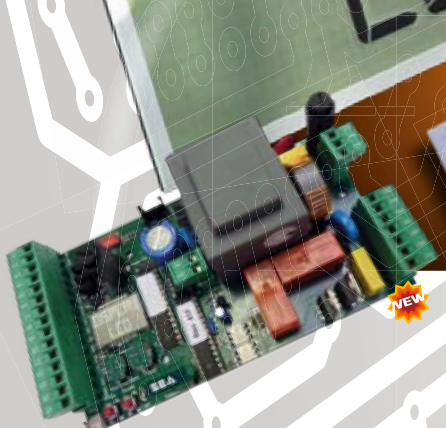
JOLLY Standardized programmer

# NEWS

On board LCD display allowing to set and to visualize all the functions in a simple way  
Standardized programming same for all digital control units

## STANDARDIZED PROGRAMMING

93



**GATE 1 DG**  
New control unit for the management of one 230 Vac motor with or without limit switch



**GATE 2 DG**  
New control unit for the management of two 230 Vac swing gates motors with or without limit switch



**USER 2 24V DG**  
New control unit for the management of two 24V swing gates motors with or without limit switch



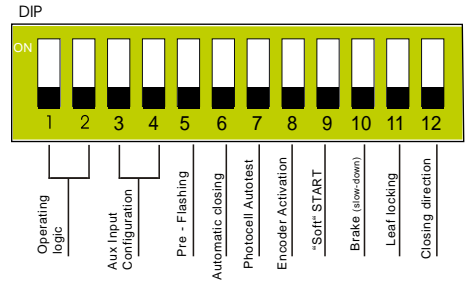
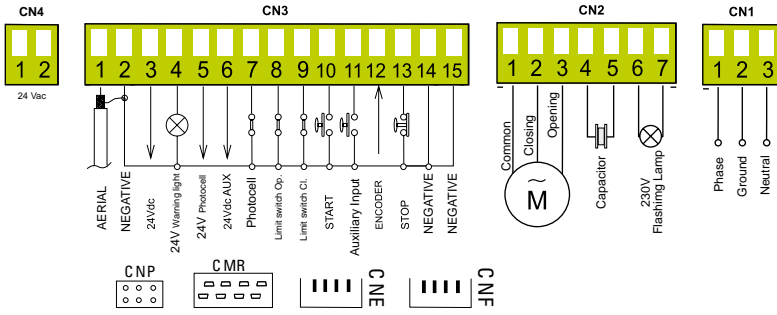
**USER 1 24V DG**  
New control unit for the management of one 24V motor with or without limit switch



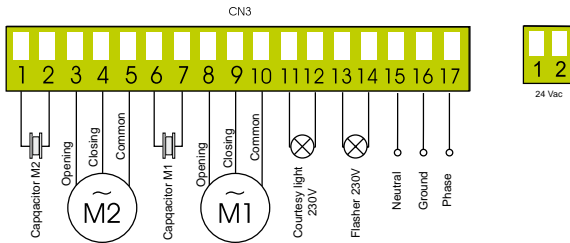
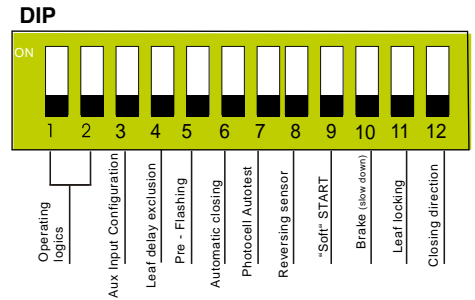
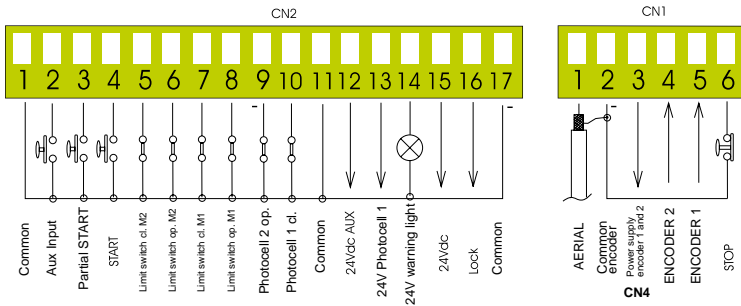


# Connections

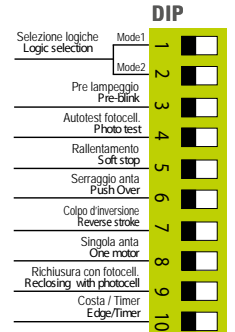
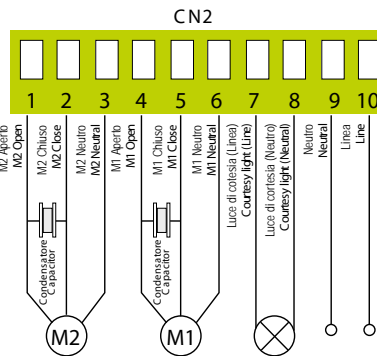
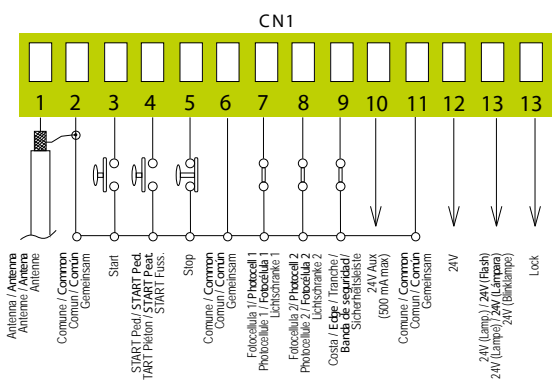
## GATE 1



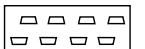
## GATE 2



## SWING 2 AMP



### RADIO MODULE (CNA)



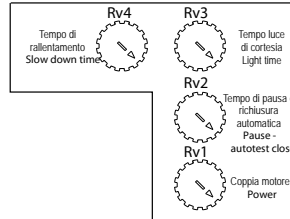
Connettore modulo ricevente  
Receiver module connector  
Connecteur module récepteur  
Connector module receptor  
Verbindungsmodul Empfänger

### CNP



Connettore Programmatore PALM COPY  
Connector programmer PALM COPY  
Connecteur programmeur PALM COPY  
Connector Programmador PALM COPY  
Anschluss Programmierer PALM COPY

### REGOLAZIONE TRIMMER



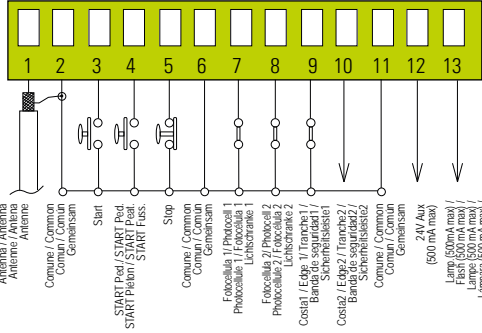




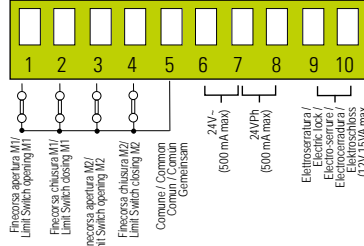
# Connections

## GATE 2 DG

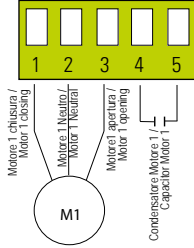
CN1



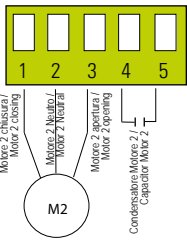
CN2



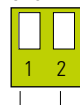
Cn3



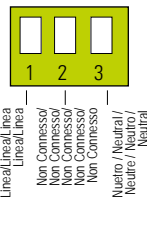
Cn4



Cn5



Cn6

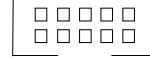


RADIO MODULE (CNA)



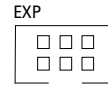
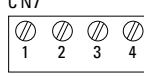
Connettore modulo ricevente  
Receiver module connector  
Connecteur module récepteur  
Conector modulo receptor

JOLLY (CN3)



Connettore Programmabile Jolly  
Connector Programmer Jolly  
Connecteur Programmateur Jolly  
Conector Programador Jolly  
Anschluss Programmierer Jolly

Verbindungsmodul Empfänger



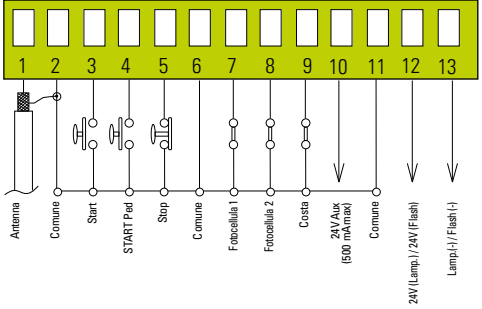
Connettore Modulo Esterno  
Connector External Module  
Connecteur C onnecteur  
Anschluss

CN7

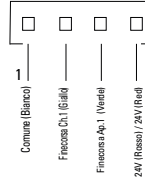


## USER 1 - 24V DG

CN1



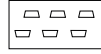
LIMIT SWITCH (CN2)



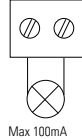
JOLLY



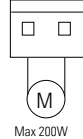
MASTER/SLAVE (CN4)



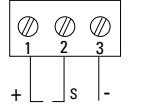
LIGHT (CN5)



MOTOR (CN6)

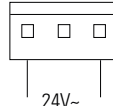


CN7

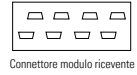


28V --- Caricabatterie  
28V --- Battery charger  
28V --- Chargeur de batterie  
28V --- Cargador de batería  
28V --- Batterieaufladegerät  
Positivo batterie/Positive battery  
Positif batterie/Positivo batería  
Positiv Batterie  
Negativo caricabatteria  
Negative battery charger  
Négatif chargeur batterie  
Negativo cargador batería  
Negativ Batterieaufladegerät

POWER (CN8)

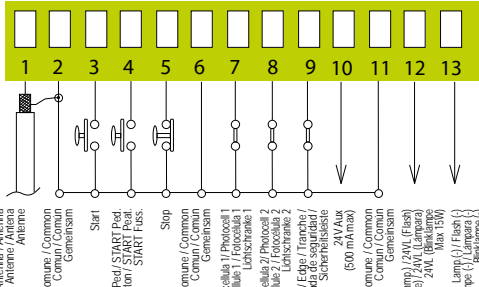


RADIO MODULE (CNA)

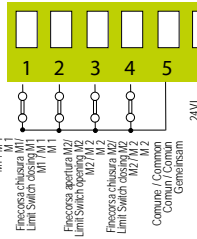


## USER 2 - 24V DG

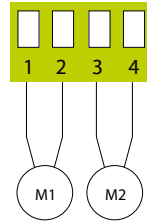
CN1



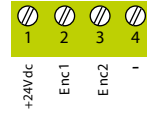
CN2



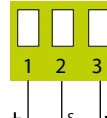
CN3



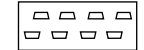
CN4



CN5



RADIO MODULE (CNA)



Connettore modulo ricevente  
Receiver module connector  
Connecteur module récepteur  
Conector modulo receptor  
Verbindungsmodul Empfänger

JOLLY



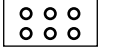
Connettore Programmabile Jolly  
Connector Programmer Jolly  
Connecteur Programmateur Jolly  
Conector Programador Jolly  
Anschluss Programmierer Jolly

PROG



Connettore programmazione  
Programming connector  
Connecteur programmation  
Conector programación

POWER



Connettore alimentazione 24V  
24V --- Power connector /  
Connecteur alimentation 24V  
Conector alimentación 24V





# Kit Sunny



Solar Panel

## SUNNY

To be used on plants with very low number of cycles or with electricity network as a second energy source

## SUPER SUNNY

In some cases and for residential use it allows to powering the installation completely autonomously (no grid). The energetic efficiency of the system depends on the daily number of cycles, on its geographic position and on the connected accessories, therefore a complete autonomy of the installation is not guaranteed.

The solar panel kit comes with a new 10A max battery charger with MPPT technology optimizing the performance of the photovoltaic panel and the recharging efficiency.

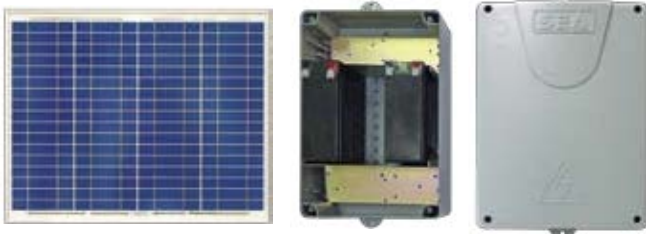


MPPT: MAXIMUM POWER POINT TRACKING  
Recharging adjusters allow to constantly manage and to exploit the max power point, delivered by the photovoltaic panel according to the solar radiation to which it is exposed.

CODE	NAME
23106370	<b>KIT SUNNY DC</b> (for control unit USER 24V)
23106375	<b>KIT SUPER SUNNY DC</b> (for control unit USER 24V)



KIT SUPER SUNNY: Strengthened with MPPT technology version to optimize the solar panel and batteries charge batterie



### TECHNICAL DATA KIT SUNNY Photovoltaic panel

- Nominal tension: 24V
- Max. power: 20Wp
- Size: 550 x 350 x 25 mm
- Weight: 2 Kg

### Battery

- Nominal tension: 24V
- Max. current: 5A
- Battery capacity: 12Ah
- Size: 250 x 355 x 150 mm

### PACKAGE KIT SUNNY

- N. 1 photovoltaic panel 24V - 20Wp
- N. 2 batteries
- N. 1 charge batteries ESUN
- N. 1 Mounting accessories kit



### TECHNICAL DATA KIT SUPER SUNNY Photovoltaic panel

- Nominal tension: 24V
- Potenza max: 40Wp(\*)
- Size: 665X537X35 mm
- Weight: 4 Kg

### Battery

- Nominal tension: 24V
- Max. current: 10A
- Battery capacity: 18Ah(\*)
- Size: 330x220x180 mm

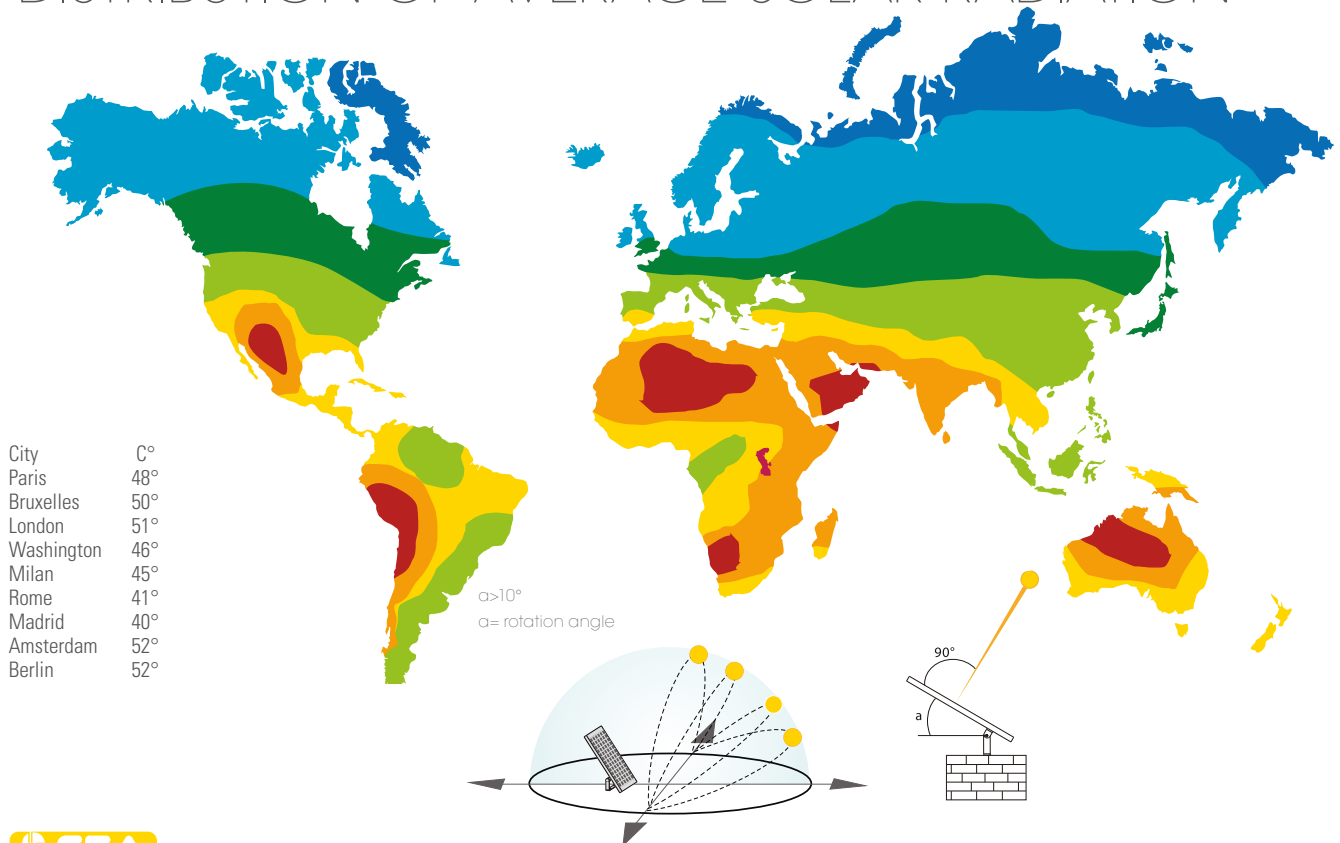
### PACKAGE KIT SUPER SUNNY

- N. 1 photovoltaic panel 24V - 40Wp
- N. 2 batteries
- N. 1 charge batteries ESUN
- N. 1 Mounting accessories kit

(\*)on request more capacity

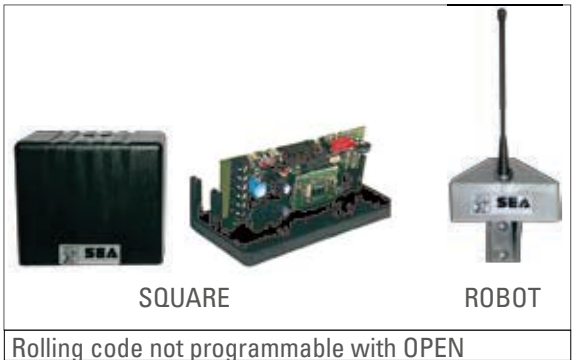


## DISTRIBUTION OF AVERAGE SOLAR RADIATION



# UNI Universal Receivers

COMPATIBLE WITH ROLLING CODE 800 USER OR 30 USER FIXED CODE



- UNI series receivers are also compatible with old transmitter models which are out of production:
- SMART ROLL 433/868 MHz (battery 3V)
  - SMART DIP 433/868 MHz (battery 3V)
  - SMART E-COPY 433 MHz (battery 3V)
  - COCCINELLA DIP 433 MHz
  - CODE RF (keypad)
  - KEY RF (Built-in key switch)





## Plus System

MANAGEMENT, REMOTE PROGRAMMING AND CUSTOMIZATION OF THE INSTALLATION



System designed by SEA to offer multiple benefits to both the installer and the user of automatic installations.

The system consists out of the OPEN PLUS interface, the SP40 PLUS software or PCU software (only for distributors), the COCCINELLA ROLL PLUS or SMART DUAL ROLL PLUS transmitter and out of the SIGNAL BOX UNI or RF UNI, FLEX UNI, RADIODEC ROLLPLUS receiver.

Elements guaranteeing the remote management and programming and a high level customization of the installation.

PROGRAMMER + SOFTWARE + TRANSMITTERS+ RECEIVERS

COCCINELLA ROLL PLUS

SMART DUAL ROLL

RF UNI



### TRANSMITTER

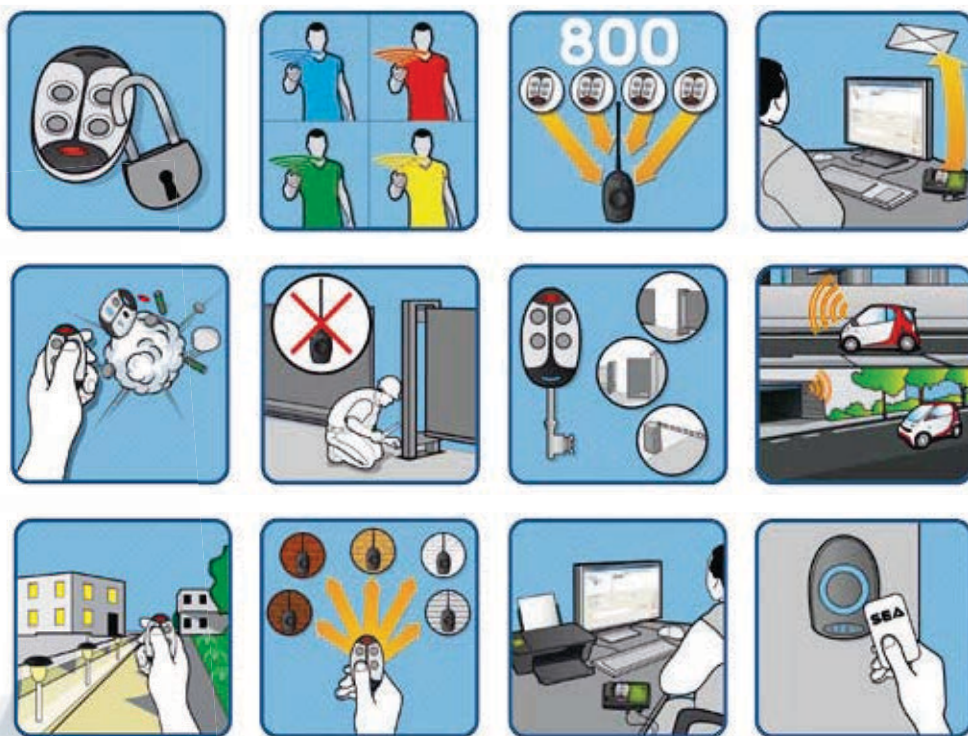
- 2 or 4 ch. version - Rolling Code
- 433 -868 MHz Frequencies
- 12V alkaline battery
- Signalisation led
- Silicon buttons pleasant to touch
- Customizable for customers
- Programmable with PC or Master TX
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible
- MASTER function (COCCINELLA MASTER)  
Allows the customization of installations with customized installer code

### TRANSMITTER

- Silicon buttons pleasant to touch
- 433 -868 MHz Frequencies
- Easily replaceable battery 6V(2x3)
- Signalisation led
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible
- Programmable on PC or TX master

### RECEIVER

- Two channel receiver with narrow band 800 CODES (ROLL PLUS) or 30 users others TX versions
- 433 -868 MHz frequencies
- Simple and intuitive programming of the transmitters
- Compatible with all SEA transmitters (except of FM)
- Programmable with PC or Master TX
- Installation data management through OPEN PLUS systems



## SIGNAL BOX UNI



## RECEIVER

- Receiver with narrow band 800 CODES (ROLL PLUS) or 30 users other TX versions
- 433 -868 MHz Frequencies
- Simple and intuitive programming of the transmitters
- Compatible with all SEA transmitters (except of FM)
- Integrated Antenna
- IP 55 Protection class
- Installation data management through OPEN PLUS systems
- Available in 2 or 4 ch

## OPEN PLUS



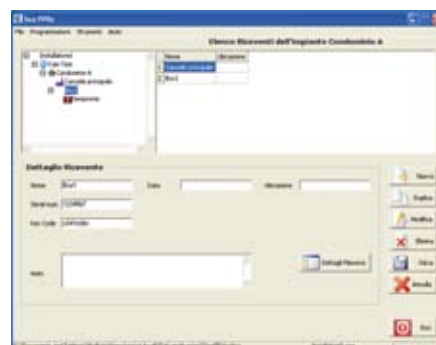
## PROGRAMMER TRANSMITTERS

- Radio transmitters programming and management (Rolling code)  
COCCINELLA ROLL PLUS  
SMART DUAL ROLL PLUS
- Receiver programming and management  
SIGNAL BOX UNI - RF UNI,  
ASTER RF ROLL PLUS,  
ROCK RF ROLL PLUS  
(Rolling Code)
- Installation files management
- USB connection interface

## RECEIVER PROGRAMMING DEVICE

- Add, delete, control, activate and deactivate codes
- Multiple insertion of codes
- Remote management on PC
- Compatible with rolling code PLUS transmitters and receivers

## SOFTWARE



## SP 40 PLUS SOFTWARE

- COCCINELLA ROLL PLUS - SMART DUAL ROLL PLUS TRANSMITTERS programming and management
- SIGNAL BOX UNI  
RF UNI  
FLEX UNI  
programming and management
- Installer files management
- Installations files management



# COCCINELLA Roll Plus

433 - 868 MHZ FREQUENCIES  
BILLIONS OF COMBINATIONS



note: wings ladybird just for TX 4ch



433 Mhz

868 Mhz

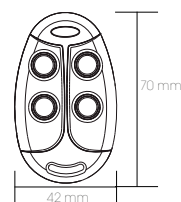


**TX MASTER (\*)**  
To program a new transmitter with personalized installer code.  
Universal for both 433 and 868 MHz

- 433 -868 MHz Frequencies
- Rolling Code 72 bit
- Hidden remote learning button
- Versione 2 o 4 canali
- 12V alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation led
- Silicon buttons pleasant to touch
- Version to be combined with a UNI receiver (SIGNAL BOX UNI, RF UNI, FLEX UNI)



New transmitter with refined design shiny plastic wings with carbon effect



COCCINELLA FIXATION SUPPORT



ANT433C Antenna 433 MHz adjustable with bracket and cable



ANT433 Antenna 433 MHz adjustable with bracket

CODE	NAME
23110650	<b>COCCINELLA MASTER PLUS*</b>
23110472	<b>COCCINELLA ROLL PLUS 2 channels-433 Mhz</b> (10 pcs)
23110477	<b>COCCINELLA ROLL PLUS 4 channels-433 Mhz</b> (10 pcs)
23110483	<b>COCCINELLA ROLL PLUS 2 channels-868 Mhz</b> (10 pcs)
23110488	<b>COCCINELLA ROLL PLUS 4 channels-868 Mhz</b> (10 pcs)
23110473	<b>COCCINELLA ROLL PLUS Carbon Look 4ch 433 Mhz</b> (10 pcs)
23110478	<b>COCCINELLA ROLL PLUS Carbon Look 4ch 868 Mhz</b> (10 pcs)
23110497	<b>COCCINELLA ROLL PLUS Root 4ch 433 Mhz</b> (10 pcs)
23110498	<b>COCCINELLA ROLL PLUS Root 4ch 868 Mhz</b> (10 pcs)
23110468	<b>FIX support COCCINELLA</b>

54701200	<b>BLUE</b>	<b>COVER WINGS COCCINELLA TRANSMITTER</b> 4 channels personalized colour (min. lot 50 pairs) for 50 TX (50 wings DX+50 wings SX)
54701200	<b>YELLOW</b>	
54701200	<b>GREY</b>	
54701200	<b>RED</b>	
54701200	<b>GREEN</b>	
54701200	<b>ORANGE</b>	
54701200	<b>DARK BLUE</b>	

CODE	NAME
23101070	<b>ANT433 Antenna 433 MHz</b> adjustable with bracket
54705250	<b>CABLE58</b> Cable RG 58 5 m
23101030	<b>ANT433C Antenna 433 MHz</b> adjustable with bracket and cable





# Smart Dual Roll Plus

AVAILABLE IN 433 AND 868 MHZ FREQUENCIES  
BILLIONS OF COMBINATIONS



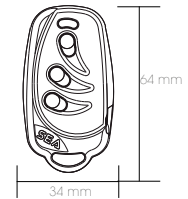
2 Channels



3 Channels

- Solid and compact radio transmitter
- LED signal
- Versions with 2 or 3 channels
- Silicon buttons pleasant to touch
- Available in 433 and 868 MHz frequencies
- Version with Rolling Code 72 bit codification
- Easily replaceable battery 6V(2x3)
- Remote programming through buttons combination RF UNI - SIGNAL BOX UNI FLEX UNI,RADIODEC PROX ROLL PLUS
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible
- Programmable through cable with OPEN for codes serialization
- Version to be combined with a UNI receiver (SIGNAL BOX UNI, RF UNI, FLEX UNI)

CODE	NAME
23110571	<b>SMART DUAL ROLL PLUS 2 channels 433Mhz</b> (10 pcs)
23110576	<b>SMART DUAL ROLL PLUS 3 channels 433Mhz</b> (10 pcs)
23110591	<b>SMART DUAL ROLL PLUS 2 channels 868Mhz</b> (10 pcs)
23110596	<b>SMART DUAL ROLL PLUS 3 channels 868Mhz</b> (10 pcs)



CODE	NAME
23101070	<b>ANT433 Antenna 433 MHz</b> adjustable with bracket
54705250	<b>CABLE58</b> Cable RG 58 5 m
23101030	<b>ANT433C Antenna 433 MHz</b> adjustable with bracket and cable



ANT433C Antenna 433 MHz adjustable with bracket and cable



ANT433 Antenna 433 MHz adjustable with bracket





# Universal Receivers

## 433 or 868 MHz

**COMPATIBLE WITH FIXED CODE OR ROLLING CODE PLUS TRANSMITTERS**



### RF UNI 433 or 868 Mhz

- Plug-in receiver narrow band
- 800 codes for ROLL PLUS series transmitters and 30 codes for transmitters with fixed code
- Radio module to be combined with control units of GATE and USER series
- 433 Mhz and 868 Mhz available frequencies
- Programmable and manageable through PC

CODE	NAME
23120540	<b>RF UNI 433 Mhz</b>
23120545	<b>RF UNI 868Mhz</b>



### SIGNAL BOX UNI 433 or 868 MHz

- Narrow band receiver (super-heterodyne)
- 800 codes for ROLL PLUS series transmitters and 30 codes for transmitters with fixed code
- 433 MHz and 868 MHz available frequencies with RF UNI (**internal RF UNI extractable**)
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and/or temporized mode
- Compatible with all SEA fixed code or rolling code transmitters
- Possibility to make copies of the memory (all transmitters types) and to manage installation data, through OPEN PLUS system (only for Roll Plus series transmitters).
- Integrated antenna
- IP 55 protection class
- 2 and 4 channels available versions
- 12/24V AC/DC power supply
- Management also through OPEN programmer
- Size: 108x68x40mm (antenna not included)

CODE	NAME
23120550	<b>SIGNAL BOX UNI with antenna 433 MHz 2ch</b>
23120555	<b>SIGNAL BOX UNI with antenna 868 MHz 2 ch</b>
23120522	<b>SIGNAL BOX UNI with antenna 433 MHz 4ch</b>
23120527	<b>SIGNAL BOX UNI with antenna 868 MHz 4ch</b>
12710315	<b>SUPPORTO FIX for SIGNAL BOX UNI</b>



### FLEX UNI 433 or 868 MHz

- Two-channel narrow band (super-heterodyne) receiver
- 800 codes for ROLL PLUS series transmitters and 30 codes for transmitters with fixed code
- 433 MHz and 868 MHz available frequencies with RF UNI (**internal RF UNI extractable**)
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and/or temporized mode
- Programmable and manageable through PC (only for ROLL PLUS transmitters management)
- IP44 protection class (internal use)
- 12/24V AC/DC power supply
- Management also through OPEN programmer
- Size: 84 x 43 x 33 mm

CODE	NAME
23120431	<b>FLEX UNI 433 Mhz</b>
23120432	<b>FLEX UNI 868 Mhz</b>





# Programmer with software



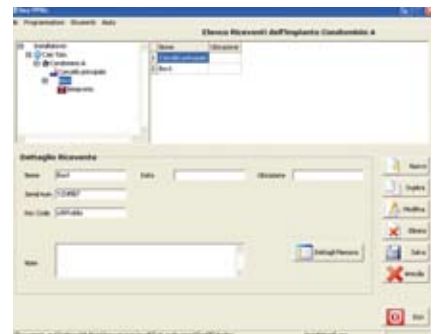
## OPEN PLUS

- Programmer for COCCINELLA ROLL PLUS and SMART DUAL ROLL PLUS, ASTER RF ROLL PLUS, ROCKRF ROLL PLUS transmitters
- Radio transmitters programming and management (only for transmitters of ROLL PLUS series)
- Universal receivers programming and management
- Installer files management
- Installation files management
- External module for traffic-light management
- USB connection interface
- SW control unit updating through WEB

CODE	NAME
23105293	<b>OPEN PLUS</b> programmer for transmitters
23105292	<b>OPEN</b> with GPRS for installation's remote controlling
23105291	<b>OPEN Bluetooth</b>
54710017	<b>Batteries 12V (50pcs)</b>

## SOFTWARE SP40 PLUS

- Programmer for COCCINELLA ROLL PLUS and SMART DUAL ROLL PLUS, ASTER RF ROLL PLUS, ROCK RF ROLL PLUS transmitters
- UNI RECEIVER programming and management
- Installer files management
- Installation files management



CODE	NAME
13100005	<b>SP 40 PLUS</b> remote controls, trasponders and control unit's management software
13100010	<b>SOFTWARE CPU</b> management software for TX MASTER





# Transmitters Head Roll

18 MILLIONS OF COMBINATIONS



Head 2 channels 433MHz



Head 4 channels 433MHz

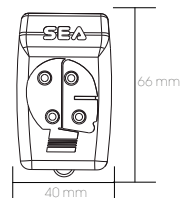
- Solid and compact radio transmitter
- Signal LED
- Versions with 2 or 4 channels
- Available in 433 and 868 MHz frequencies
- Version with Rolling Code 64 bit codification (Dip switch 2 channel 868MHz version available)
- Easily replaceable battery 12V
- Programming with internal push button with receivers ROBOT BOX - SQUARE in box
- Max. security thanks to the rolling code system which continuously modifies the code with billions of combinations to make cloning impossible



Head 2 channels 868 MHz



Head 4 channels 868 MHz



CODE	NAME
23110400	<b>HEAD 2 channels 433 MHz</b> (10 pcs)
23110405	<b>HEAD 4 channels 433 MHz</b> (10 pcs)
23110410	<b>HEAD 2 channels 868 MHz</b> (10 pcs)
23110415	<b>HEAD 4 channels 868 MHz</b> (10 pcs)

HEAD DIP SWITCH on request



# ANT 433 and 868

WITH BRACKET, SUPPORT AND CABLE

CODE	NAME
23101070	<b>ANT433</b> Antenna 433 MHz with bracket
23101072	<b>ANT868</b> Antenna 868 MHz with bracket
54705250	<b>CABLE 58</b> Cable RG 58 (5 m)
12715225	Fixed support for adjustable antenna
23101030	<b>ANT433C</b> Antenna 433 MHz with bracket and 5 m cable
23101065	<b>ANT868C</b> Antenna 868 MHz with bracket and 5 m cable



ANT433 Adjustable antenna 433 MHz with bracket



CABLE58 Cable RG 58



# Robot Box

IN BOX 50 USERS 433 OR 868 MHZ

- 2 ch. receiver with narrow band (super-heterodyne) 50codes
- Available in the 433 and 868 MHz Frequencies
- Easy and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with trasmetters HEAD Rolling Code
- Integrated Antenna



CODE	NAME
23120167	<b>ROBOT BOX</b> and 2 channels 433 MHz antenna, 50 users, Rolling Code
23120320	<b>ROBOT BOX</b> and 2 channels 868 MHz antenna, 50 users, Rolling Code
23120370	<b>SQUARE 433</b> MHz 800 users
23120340	<b>SQUARE 868</b> MHz 800 users



# Square

IN BOX 800 CODES 433 OR 868 MHZ

- 2 ch. receiver with narrow band (super-heterodyne) 800 codes
- 433 and 868 MHz frequencies available
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with trasmetters HEAD Rolling Code
- Possibility to make security copies on memory modules
- Possibility to connect to a PC through RS-232 for code management





# Coccinella FM

1024 1024 POSSIBLE COMBINATIONS



Note: WINGS LADYBIRD JUST FOR TX 4CH

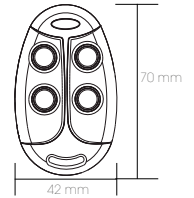
- Transmitter with refined design
- FM fixed code operation for installations with radio interferences on other frequencies
- 4 channels versions
- 433 MHz Frequencies
- Cloning function
- 12V Alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation LED
- Silicon buttons pleasant to touch
- FM version to be combined to SIGNAL BOX FM receiver
- Large choice of colours for customization of the 4 channel version

CODE	NAME
23110551	<b>COCCINELLA FM 4 channels 433 Mhz (10 pcs)</b>
23110468	<b>Fixing support COCCINELLA for wall</b>

54701200	<b>BLUE</b>	<b>COVER WINGS LADYBIRD TRANSMITTER</b> 4 channels personalized colour ( 50 pairs) for 50 TX (50 wings DX+50 wings SX)
54701200	<b>YELLOW</b>	
54701200	<b>GREY</b>	
54701200	<b>RED</b>	
54701200	<b>GREEN</b>	
54701200	<b>ORANGE</b>	
54701200	<b>DARK BLUE</b>	



Coccinella Fixing support for wall



# ANT 433

WITH BRACKET, SUPPORT AND CABLE

CODE	NAME
23101070	<b>ANT433</b> Antenna 433 MHz with bracket
54705250	<b>CABLE 58</b> Cable RG 58 (5 m)
12715225	Fixed support for adjustable antenna
23101030	<b>ANT433C</b> Antenna 433 MHz with bracket and 5 m cable



ANT433 Adjustable antenna 433 MHz with bracket



CABLE58 Cable RG 58



# Signal Box FM 433

FOR COCCINELLA FM



- 2 ch. receiver with narrow band (super- heterodyne) 800 codes
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with transmitters COCCINELLA FM
- Integrated Antenna
- IP 55 protection class

CODE	NAME
23120401	<b>SIGNAL BOX FM</b>
12710315	Fixed support for SIGNAL BOX UNI





## Dual Smart 433 MHz

1024 POSSIBLE COMBINATIONS



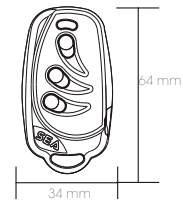
Smart Dual 2 channels



Smart Dual 3 channels

- Small and light radio transmitter
- Silicon buttons pleasant to touch
- Fix code operation with cloning
- High brilliance leds
- Versions with 2 or 3 channels
- Available in the 433 MHz
- Double lithium batteries, simple to replace 6V (3Vx 2)
- Version to be combined with UNI receivers (SIGNAL BOX UNI, RF UNI, FLEX UNI)

CODE	NAME
23110565	SMART DUAL 3 channels 433 MHz (10 pcs)



### SIMPLE AND INTUITIVE CLONING

Hold for a few seconds the first 2 buttons of the receiving transmitter, as soon as the LED starts blinking rapidly the cloning function is enabled and you can select the button on which to clone the code of the other existing transmitter. Once selected the button, just put the two transmitters next to each other and press the button of the existing transmitter. At this point the LED will confirm the cloning. The cloning function works only between SEA transmitters, even if they are of different models, provided they are of the same frequency.



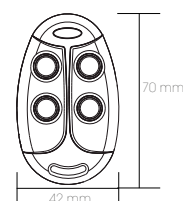
## Coccinella Copy 433 MHz

1024 POSSIBLE COMBINATIONS



- Transmitter with refined design
- Fixed code with cloning function
- 4 channels versions
- 433 MHz Frequencies
- Cloning function
- 12V Alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation LED
- Silicon buttons pleasant to touch
- Version to be combined with UNI receivers (SIGNAL BOX UNI, RF UNI, FLEX UNI)
- Large choice of colours for customization of the 4 channel version

CODE	NAME
23110496	COCCINELLA COPY 4Channels 433 (10 pcs)
23110468	COCCINELLA FIX SUPPORT for wall
54701200 <b>BLUE</b>	COVER WINGS COCCINELLA TRANSMITTER 4 channels personalized colour ( 50 pairs) for 50 TX (50 wings DX+50 wings SX)
54701200 <b>YELLOW</b>	
54701200 <b>GREY</b>	
54701200 <b>RED</b>	
54701200 <b>GREEN</b>	
54701200 <b>ORANGE</b>	
54701200 <b>DARK BLUE</b>	







# Photocells



## Sunset

- Synchronized IR photocell for surface mounting
- 15m range
- Installation on wall or PILAR pillar
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size:85x57x32 mm

**23102076**



## Sunset Bat

- Synchronized modulated active IR photocell for surface mounting.
- 10m range
- Transmitter power supply through solar panel or batteries
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size:85x57x32 mm

**23102106**



## Wall

- Synchronized IR photocell for screened surface mounting
- EMI screen suitable to work in areas with high electromagnetic disturbances
- Methacrylate plastic cover
- 15m range
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size:107x68x37 mm

**23102125**



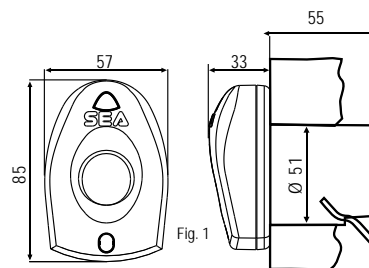
## Ghost 50

- Built in photocell
- Methacrylate plastic cover
- 15m range
- Operation temperature -15° C+60°C
- 12V-24V power supply

**23102080**

C-GHOST box to be walled for GHOST 50

**66301670**



Side to be walled  
Ø 55 mm  
Length : 70 mm





# Photocells



## Foto 50

- Built-in photocell
- 35m range
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size: 75x75 mm - Side to built-in ø 65mm

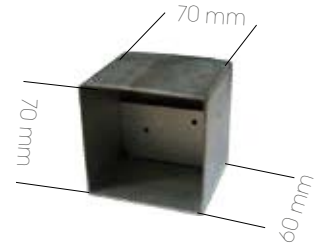
**23102020**

C-FOTO 50 box to be walled for FOTO 50

**23102020**

CM-FOTO 50 metal box to be walled for FOTO 50

**16200030**



## Eyes



- Synchronized photocell for outside mounting
- Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes
- Ideal for installations on gates or leaves with limited space for photocells
- 30m range
- IP55 Protection class
- Relay output
- Perfect alignment thanks to the Leds
- With aluminium base and strong methacrylate plastic cover
- Optional anti-vandalism metal protection cover available
- Reduced size: 129x48x42mm
- 12V-24V power supply

**23102130**

Available: Summer 2012



## Eyes Bat



- Synchronized photocell for outside mounting
- Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes
- Ideal for installations on gates or leaves with limited space for photocells
- (2x1,2V) Battery-powered transmitter with charge through mini solar panel, included in the package
- Prepared for mobile edge on leaf connection
- 10m range
- IP 55 Protection class
- Relay output
- Perfect alignment thanks to the Leds
- With aluminium base and strong methacrylate plastic cover
- Optional anti-vandalism metal protection cover available
- Reduced size: 129x48x42mm
- 12V-24V power supply

**23102140**

Anti-vandalism metal protection cover

**23101140**





# General Accessories



## Slim

- Slim infrared photocell (internal use)
- 10m range
- 12V-24V power supply
- Size:136x27x27 mm
- Protection class: IP55

**23102095**

## Slim Plus

- Slim infrared photocell with metal cover (internal use)
- 10m range
- 12V-24V power supply
- Size:136x27x27 mm

**23102145**



## Col 50

- Pillar for FOTO 50

**16200010**

## Col 100

- Pillar for key switch KEY

**16200020**

## Col EU 100

- Pillar for key switch EURO KEY

**12710020**



## Pillar

- Aluminium pillar for photocells SUNSET 40 cm

**12710205**

## CPLATE 100

- Foundation counter-plate for PILAR

**16200170**

## Pillar Prox

- Aluminium pillar for READER PROX - ASTER key switch

**12710210**

## CPLATE 50

- Foundation counter-plate for PILAR SUNSET 40

**16200171**



## Mini Lamp

- Mini flashing lamp 230V **with flashing card**

**23104006**

## Mini Lamp 24V

- Mini flashing lamp 24V

**23104011**



# General Accessories



## Lamp

- Big flashing lamp **with flashing card** (for SLIDE ROLL-ROLLING)

**23104065**  
€ 39,00

## Lamp 24V

- Big flashing lamp 24V

**23104055**  
€ 29,00



## Flash 24V

- Flashing lamp 24V with polycarbonate cover

**23104105**

QX1 20 pcs • QX2 50 pcs

## Flash

- Flashing lamp 230V with polycarbonate cover

**23104100**

QX1 20 pcs • QX2 50 pcs

## Flash L

- Flashing lamp 230V with polycarbonate cover and **flashing card**

**23104110**



## Flash Led 24V

- Intense Led light flashing lamp
- High brilliance with only 3 W
- 24V power supply
- About 70% energy saving compared to white-hot bulbs
- Max. maintenance saving
- Polycarbonate cover in 2 colours: yellow and blue

FLASH LED 24V with blue cover **23104125**

FLASH LED 24V with yellow cover **23104126**



## Fix Flash

- Wall support for FLASH-FLASH24V

**12710260**

## Fix RX

- Wall support for SIGNAL BOX

**12710315**



## ANTFL 433

- KIT antenna 433MHz for flashing lamp FLASH-FLASH 24V

**23101075**

## ANTFL 868

- KIT antenna 868MHz for flashing lamp FLASH-FLASH 24V

**23101080**



# Safety Edges



## Costa 200 EN

2 m safety edge  
EN 12978 Validated

12705050

## Costa 250 EN

2,5 m safety edge  
EN 12978 Validated

12705055

## Costa 300 EN

3 m safety edge  
EN 12978 Validated

12705060

## Costa Board EN

Control unit for up to 4 edges to respect the law

12705065

## Safety Edges 8,2k Ω

Transceivers system guaranteeing safety and construction of installations totally complying with EN 12445 - 12453 standards.



## T-RADIO Transmitter

- Transmitter for radio edges for installation on the leaf
- 2x1,5V (AA) battery powered
- 868 MHz frequency

23103080



## R-RADIO Receiver FOR 868 MHZ RADIO EDGES

- Receiver for radio edge to be connected to the electronic control unit
- 868 MHz frequency
- 8-T-RADIO (radio transmitters) storable
- 12/24Vac/dc powers supply

23103085

## Resistive Edges

- Rubber profile 24x25 mm with sensor (package of 25m)
- 2m aluminium profile 0.25 cm
- Cable/connection cap (package of 10pcs + 2,5m cable)
- Cap with resistance (package of 10pcs)
- Head cap (2 pcs each edge)

CODE	NAME
12705095	Rubber profile
12705100	2m aluminium profile
12705105	Cable/connection cap
12705110	Cap with resistance
12705115	Head cap



## Key - switches



### Key Start Stop

Built-in key switch

Size: 75x75 mm - side to built-in Ø 65mm

**23103030**



### Eurokey

Key switch (for surface) with european cylinder

**23103010**

### Eurokey RF

Key switch (for surface) with european cylinder wireless 433 MHz

**23103025**



### Key Plus Start Stop

Surface metal anti-vandal key switch with **led light always on**, 2 channels.  
Dimensions: 90x65x37 mm

**23103050**



# Control System



## Aster

- Key-switch for surface mounting
- **Start-Stop with LED light**
- n. 2 channels
- Out of shock-resistant strong material
- Size: 101x67x40mm

**23103065**

## Aster RF Roll Plus



- Wireless key-switch for surface mounting with standard cylinder
- One channel
- Rolling code PLUS code (billions of combinations possible)
- Possibility of channel and code programming and management with SP40 software and OPEN through connector
- Out of shock-resistant strong material
- Blue signal light (only during use)
- 2x3V lithium batteries
- 433 MHz frequency
- Key switch to be combined with SIGNAL BOX UNI and RF UNI receivers
- Size: 101x67x40mm

**23103090**



## Cube

- Anti-vandalism STAND-ALONE aluminium keypad for access control management with up to 500 users through numerical codes up to four digits
- 12n blue back-lit aluminium buttons
- 2n relay outputs
- Resinated electronic circuit
- IP67 Protection class
- Programming through keypad
- Size: 120x76x27mm

**23105189**



## Cube W

- Anti-vandalism aluminium keypad for access control management with up to 250 or 800 users through numerical codes
- 12n blue back-lit aluminium buttons
- WIEGAND Protocol
- Resinated electronic circuit
- IP67 Protection class
- Programming through keypad
- k250 or RADIODEC PROX PLUS decoder necessary
- Note: Up to 250 users through K 250 decoder
- Note: Up to 800 users through RADIODEC PROX PLUS decoder
- Size: 120x76x27mm

**23105187**



# Standard Access Controls



Transponder reader



**K 1000**  
up to 1000 user codes  
1 input  
1 relay output  
WIEGAND protocol  
▶ Programming buttons



**K 250**  
up to 250 user codes  
1 input  
1 relay output  
WIEGAND protocol



**K 2000**  
up to 2000 user codes  
2 input  
2 relay output  
WIEGAND protocol  
▶ Programming buttons

# Advanced access controls



Transponder reader



**K 15000**  
up to 15000 user codes  
2 inputs  
Standard control unit connection to Pc  
WIEGAND protocol  
RS485 extension BUS up to 64 control units





# Advanced Access Controls



## K 15000

K15000 is a access control unit of new generation, which can manage up to 15.000 users of an off-line memory of 15.000 events. O manage more access the K 15000 can be connected to extensions modules K 15000 XP (max. 10 modules per control unit) or through "bus" to other K 15000 control units (max. 64 control units).  
The system configurations and the users programming, can be executed through the SW10 management software.

**23105415**

### TECHNICAL SPECIFICATIONS

- 15.000 users
- 15.000 off-line events memorisation
- 2 reader inputs
- Bi-processor of new generation with redundancy function
- Anti-pass-back and anti-time-back function
- Simultaneous entries management, additional counting /subtraction
- Control unit PC connection through Ethernet: standard TCP/IP
- Opto-isolated RS485 extension BUS
- Flash memory module
- LED piloting: Condition of the door related to the reader
- Graphic supervisor



## K 15000-XP

Expansion module able to manage 4 additional readers. To manage multiple access, it is possible to connect up to 10 K15000- XP modules on the same K15000 control unit, thus arriving to manage up to 42 readers.  
The system configurations and the users programming, can be executed through the SW10 management software.

**23105420**

### TECHNICAL SPECIFICATIONS

- Management of 4 readers
- Connection of up to 10 modules for each control unit
- Ethernet connection with K 15000 through RJ45
- RJ45 connection or spin through terminal among the expansion modules
- Opto-isolated RS485 extension BUS



## SW10-SW40

Are software applications like Windows, developed for the management of the K 15000 control unit and of the related K15000-XP extension modules.

CODE	NAME
<b>13100015</b>	<b>SW10</b>
<b>13100020</b>	<b>SW40</b>

SW10 up to 10 access  
SW40 up to 40 access

### TECHNICAL SPECIFICATIONS

- Display of one or more sites
- Management up to 840 access
- Synoptic of the sites with active icons (graphic supervision)
- Database INPUT or SQL
- Multiuser (SQL)
- Events signalisation for vocal synthesis
- On-line events visualisation
- User data-base management divided into groups
- Functions creation "Automations"
- Management of up to 128 time slots





# Standard Access Controls



**NEW**

## K 250

- Access control decoder for the management of one access with up to 250 users-codes
  - Data reception through WIEGAND format reader (accessory necessary for CUBE W and ROCK W keypad)
  - One relay output
  - Code self-learning function
  - IP44 Protection class (inside use)
- 23105400**



**NEW**

## K 1000

- Access control unit with inputs for external readers
  - 999 users
  - 1 reader-input; activation of the control unit through external reader or 433 MHz radio receiver
  - 1 relay output (mode of the selectable contact)
  - Integrated programming buttons and display
  - Integrated ABS box with fixing for DIN bar
  - Input for activation through button
- 23105405**



**NEW**

## K 2000

- Access control unit with two inputs for external readers
  - 2000 users
  - 2 reader-inputs, activation of the control unit through external reader or 433MHz radio receiver
  - 2-relay outputs (mode of the selectable contact)
  - Integrated programming buttons and display
  - Integrated ABS box with fixing for DIN bar
  - Input for activation through button
  - Anti-pass-back function
- 23105410**



# Control System



## Rock RF

- **Wireless keypad** for outside mounting with 12 lit buttons (only when used)
- 433 MHz frequency
- Two-channels (two different codes)
- Aluminium cover
- IP54 Protection class
- Compatible with UNI 12bit fixed code receivers
- 2x3V lithium batteries
- Size: 84x74x37mm

23105196

## Rock RF Roll Plus

- **Wireless keypad** for outside mounting with 12 lit buttons (only when used)
- Rolling code PLUS (Billions of combinations possible)
- 433 MHz frequency
- Two-channels (two different codes)
- Aluminium cover
- IP54 Protection class
- **Compatible with UNI rolling code receivers and programmable with SP40 software and OPEN through connector**
- **2x3V lithium batteries**
- Size: 84x74x37mm

23105194



## Rock W

- Keypad for outside mounting via cable with 12 ever-lit buttons
- Max. 250 or 800 storable codes depending on the used decoder
- Aluminium cover
- IP54 Protection class
- WIEGAND protocol
- DEC W or RADIODEC PROX PLUS decoder necessary
- Up to 800 users through RADIODEC PROX PLUS decoder
- Up to 250 users through DEC W decoder
- Size: 84x74x37mm

23105193

## Code

- Anti-forcing keypad with decoder (built in)
- n. 9 silicon buttons pleasant to touch
- Dimensions: 75x75 mm side to be walled ø 65 mm

23105167

## Code RF

- Anti-forcing keypad with decoder (built in) and without cables
- n. 9 silicon buttons pleasant to touch
- Compatible with UNI series receivers
- Dimensions: 75x75 mm side to be walled ø 65 mm

23105166



## Decoder

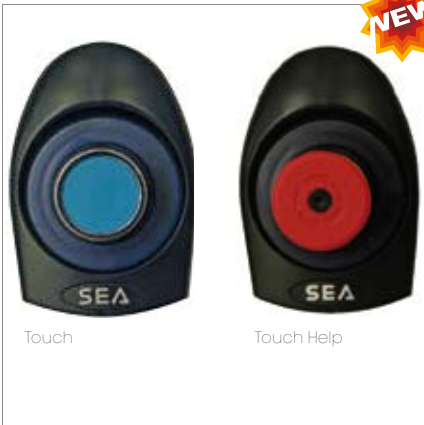
Additional decoder module for CODE

23105100





# Control Systems



## Touch

- Command button (N.O.) out of strong shock-resistant material
- With Led courtesy light
- Size: 101x67x60 mm
- To be connected to control units

23105360

## Touch Help

- Emergency stop button (N.C.) out of strong shock-resistant material
- With Led courtesy light
- Size: 101x67x75 mm
- To be connected to control units

23105365



## Desk

- Push button board for table without lights

23103040

## Desk Y

- Built in push button board

23103045





# Proximity Readers



## Models

- Decoder/Receiver transponder and TX 433 500 Users
- Decoder/Receiver transponder and TX 868 500 Users

## RADIODEC PROX


- Radio transmitter SMART and HEAD ROLL series administration
- Memory capacity 500 Users
- Display with led for user administration
- Power supply 12Vdc or 24 Vdc
- Relay output clean contact
- Possibility to manage 2 readers READER PROX



**READER**  
Transponder Reader  
Surface mounting  
Fixable on PILAR PROX pillar



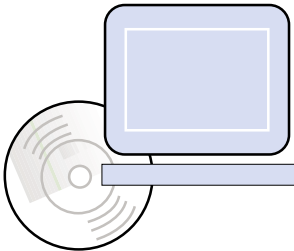
**SMART PROX**  
Transmitter with internal transponder  
• 433 MHz Rolling Code 2 channel (10 pcs)  
• 868 MHz Rolling Code 2 channel (10 pcs)



**CARD PROX**  
Transponder card



**KEY PROX**  
Transponder key ring



CD-ROM for the manage on PC of the transponder and tags with possibility to enter user name and time

CODE	NAME
23105325	<b>RADIODEC PROX 433 MHz</b>
23105330	<b>RADIODEC PROX 868 MHz</b>
23105320	<b>READER</b> Transponder Reader
23110390	<b>SMART PROX 433 MHz</b> 10 Pcs
23110395	<b>SMART PROX 868 MHz</b> 10 Pcs
23105315	<b>CARD PROX</b>
23105310	<b>KEY PROX</b>
23105285	<b>CD-ROM</b>

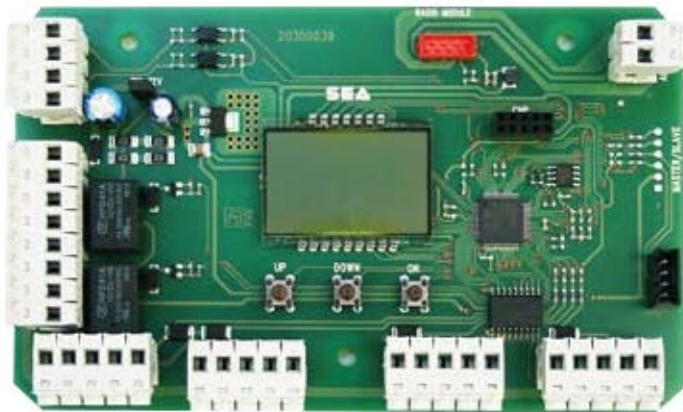




# Rewritable Proximity Readers

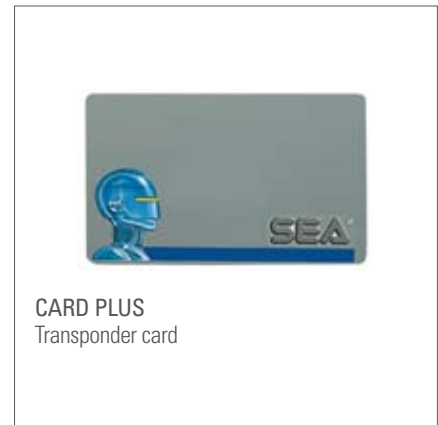
## RADIODEC PROX PLUS

- Transponder KEY PLUS, CARD PLUS e SMART DUAL ROLL PLUS, COCCINELLA ROLL PLUS, CUBE W e ROCK W administration
- Memory capacity 800 Users
- LED display for users administration
- 12Vdc or 24 Vdc power supply
- Relay 2 output clean contact
- Possibility to administrate 4 READER PLUS reader
- 2 Programmable inputs
- Completely programmable and manageable with OPEN and SP40 software



## Modells

- Transponder Decoder/receiver and TX 433 800 users
- Transponder Decoder/receiver and TX 868 800 users



CODE	NAME
23105370	<b>RADIODEC PLUS 433 Mhz</b> with display, 2 ch
23105375	<b>RADIODEC PLUS 868 Mhz</b> with display, 2 ch
23105380	<b>READER PLUS</b> Transponder reader
23110600	<b>SMART TAG 433 Mhz</b> 10 pcs
23110605	<b>SMART TAG 868 Mhz</b> 10 pcs
23105316	<b>CARD RW</b> 10 pcs
23103028	<b>KEY RW</b> 10 pcs
23105295	<b>SP 40 PLUS</b> software

N.B: The RADIODEC PROX PLUS is sold together with teh READER PLUS





# No Touch

SOLUTION FOR REMOTE OPENING WITHOUT PRESSING ANY BUTTON!



868 MHz 100 m

## No Touch RX

- 1.5m nominal detection range
- 125 KHz transmission frequency
- 12/24 ac/dc power supply
- Dimensions 87 x 78 x 15 mm.
- LED indicator
- Button to program the channels and groups
- Pre-wired cable
- Operating temperature from -20° C to + 55° C
- ABS plastic box.



125 KHz 5 m

## No Touch 5

- 100m nominal distance
- 868 MHz transmission frequency
- Power supply: One 3V battery
- Battery life approximately 2 years
- Audible low battery signal and transmission of programming signals
- Button for voluntary activation or start in case of automatic disconnection
- Operation temperature from -20° C to + 55° C
- ABS plastic box
- Dimesion 65x55x10 mm
- Vehicle support and clip for clothes included



NO TOUCH 5

**Activation of the tag at 5m distance sending a signal to the receiver at a distance of 100m.**

CODE	NAME
23105385	<b>NO TOUCH 5</b> Signal activation
23105390	<b>NO TOUCH RX</b> receiver
23105395	<b>NO TOUCH TAG</b>



\*On request NO TOUCH 5 with activation sensor (photocells , rubber edge ecc.) available. Price: 680,00 Euro



# General Accessories



## Power Supply

Additional power supply

**23105010**



## Kit Bat7

24V control board batteries  
KIT BAT7 Batteries (BOX+ 2 Batteries 7Ah)

**23106305**



## Thermo

Heater for hydraulic motors with box

**23105012**



## Star 500

Back up battery with 7Ah battery  
dimensions 34,5x35,4x13,5

**23105052**

- Realized to intervene in case of power failure
- Protects the electronic unit from sudden net voltage variations (up to 187V)
- Eliminates temporary events on the supply net thanks to active/capacitive input filters
- 12 Ah battery back-up in case of power failure



Size: 75x75 mm  
side to be walled Ø 65mm

## Container

Wall mounting plastic box for key

**66300165**

Wall mounting plastic box for Foto50

**66300160**

Metal box for Foto50/KEY

**16200030**

Wall mounting plastic box for GOST/KEY PLUS

**66301670**



## Platinum Card

5 years warranty

**67401600**



# General Accessories



## Sup

Board to manage a magnetic lock (for GATE 1 ROLL and GATE 2 ROLL)

2315340



## Loop Plug

23105159



## Loop Module

Board to manage LOOP PLUG plug-in loop detector following various configurations

23105013



## Loop

Magnetic loop reader

23105158

**QX1 10 pcs**

- Standard DIN attachment
- Oscillation frequency selection
- Sensitivity selection
- Relay output presence/impulse
- 24V dc power supply



## Loop 2

Magnetic loop reader 2 channels

23105157

- Standard DIN attachment
- Oscillation frequency selection
- Sensitivity selection
- 2 Relay output presence/impulse
- 24V dc power supply



## Esun

Batteries charger and control board for solar panel USER

23101105



## TERMS OF SALE

**GENERAL NOTICE** The systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EM12453 – EM 12445) and with good installation practice releases SEA from any responsibilities. SEA shall not be held responsible for any failure to execute a correct and safe installation under the above mentioned standards.

1) **PROPOSED ORDER** The proposed order shall be accepted only prior SEA approval of it. By signing the proposed order, the Buyer shall be bound to enter a purchase agreement, according to the specifications stated in the proposed order. On the other hand, failure to notify the Buyer of said approval must not be construed as automatic acceptance on the part of SEA.

2) **PERIOD OF THE OFFER** The offer proposed by SEA or by its branch sales department shall be valid for 30 solar days, unless otherwise notified.

3) **PRICING** The prices in the proposed order are quoted from the Price List which is valid on the date the order was issued. The discounts granted by the branch sales department of SEA shall apply only prior to acceptance on the part of SEA. The prices are for merchandise delivered ex-works from the SEA establishment in Teramo, not including VAT and special packaging. SEA reserves the right to change at any time this price list, providing timely notice to the sales network.

The special sales conditions with extra discount on quantity basis (Qx, Qx1, Qx2, Qx3 formula) is reserved to official distributors under SEA management written agreement.

4) **PAYMENTS** The accepted forms of payment are each time notified or approved by SEA. The interest rate on delay in payment shall be 1.5% every month but anyway shall not be higher than the max. interest rate legally permitted.

5) **DELIVERY** Delivery shall take place, approximately and not peremptorily, within 30 working days from the date of receipt of the order, unless otherwise notified. Transport of the sold goods shall be at Buyer's cost and risk. SEA shall not bear the costs of delivery giving the goods to the carrier, as chosen either by SEA or by the Buyer. Any loss and/or damage of the goods during transport, are at Buyer's cost.

6) **COMPLAINTS** Any complaints and/or claims shall be sent to SEA within 8 solar days from receipt of the goods, proved by adequate supporting documents as to their truthfulness.

7) **SUPPLY** The concerning order will be accepted by SEA without any engagement and subordinately to the possibility to get its supplies of raw material which is necessary for the production; Eventual completely or partially unsuccessful executions cannot be reason for complains or reservations for damage. SEA supply is strictly limited to the goods of its manufacturing, not including assembly, installation and testing. SEA, therefore, disclaims any responsibility for damage deriving, also to third parties, from non-compliance of safety standards and good practice during installation and use of the purchased products.

8) **WARRANTY.**

The standard warranty period is 12 months. This warranty time can be extended by means of expedition of the warranty coupon as follows:

**SILVER:** The mechanical components of the operators belonging to this line are guaranteed for 24 months from the date of manufacturing written on the operator.

**GOLD:** The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator.

**PLATINUM:** The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator. The base warranty (36 months) will be extended for further 24 months (up to a total of 60 months) when it is acquired the certificate of warranty which will be filled in and sent to SEA s.r.l. The electronic devices and the systems of command are guaranteed for 24 months from the date of manufacturing. In case of defective product, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair centre. The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labour activities. The recognized defects, whatever their nature, shall not produce any responsibility and/or damage claim on the part of the Buyer against SEA. The guarantee is in no case recognized if changes are made to the goods, or in the case of improper use, or in the case of tampering or improper assembly. Furthermore, the warranty shall not apply if SEA products are partly or completely coupled with non-original mechanical and/or electronic components, and in particular, without a specific relevant authorization, and if the Buyer is not making regular payments. The warranty shall not cover damage caused by transport, expendable material, faults due to non-conformity with performance specifications of the products shown in the price list. No indemnification is granted during repairing and/or replacing of the goods in warranty. SEA disclaims any responsibility for damage to objects and persons deriving from non-compliance with safety standards, installation instructions or use of sold goods.

9) **RESERVED DOMAIN** A clause of reserved domain applies to the sold goods; SEA shall decide autonomously whether to make use of it or not, whereby the Buyer purchases propriety of the goods only after full payment of the latter.

10) **COMPETENT COURT OF LAW** In case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo. SEA reserves the faculty to make technical changes to improve its own products, which are not in this price list at any moment and without notice. SEA declines any responsibility due to possible mistakes contained inside the present price list caused by printing and/or copying. The present price list cancels and substitutes the previous ones. The Buyer, according to the law No. 196/2003 (privacy code) consents to put his personal data, deriving from the present contract, in SEA archives and electronic files, and he also gives his consent to their treatment for commercial and administrative purposes. Industrial ownership rights: once the Buyer has recognized that SEA has the exclusive legal ownership of the registered SEA brand, he will commit himself to use it in a way which does not reduce the value of these rights, he won't also remove, replace or modify brands or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any particularity on the products, unless preventive and expressed authorization by SEA.

In accomplishment with art. 1341 of the Italian Civil Law it will be approved expressly clauses under numbers:

4) **PAYMENTS** - 8) **GUARANTEE** - 10) **COMPETENT COURT OF LAW**

Note