

# TABLE OF CONTENTS

## PRODUCTS

<i>AUTOMATIONS FOR SWING GATES WITH EXTERNAL MOTOR</i> .....	page 7
<i>AUTOMATIONS FOR SWING GATES WITH UNDERGROUND MOTOR.</i> .....	page 15
<i>AUTOMATIONS FOR SLIDING GATES AND SECTIONAL DOORS</i> .....	page 21
<i>AUTOMATIONS FOR FOLDING DOORS.</i> .....	page 31
<i>AUTOMATIC BARRIERS</i> .....	page 33

<b>MANAGEMENT SYSTEMS</b> .....	page 39
---------------------------------	---------

## CONTROL SYSTEMS

<i>433MHz TRANSMITTERS AND RECEIVERS</i> .....	page 44
<i>868MHz TRANSMITTERS AND RECEIVERS</i> .....	page 45
<i>BUTTONS, LOOP DETECTOR, READERS, GSMCOM RADIO CONTROL</i> .....	page 46

## SAFETY SYSTEMS

<i>LIGHTING SYSTEMS, PHOTOCELLS AND MECHANICAL EDGES</i> .....	page 47
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## GENERAL ACCESSORIES

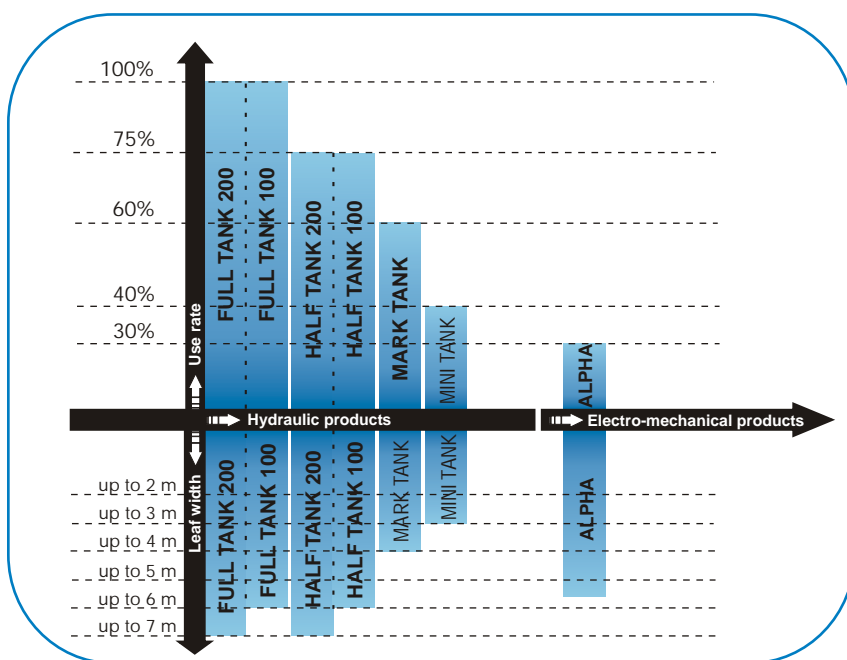
<i>SUPPORTS, SEA OIL</i> .....	page 48
<i>ELECTRONIC LOCK DEVICES AND OTHER ACCESSORIES</i> .....	page 48
<i>EMERGENCY UNIT</i> .....	page 49

<b>DECLARATION OF CONFORMITY</b> .....	page 50
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<b>TERMS OF SALE</b> .....	page 51
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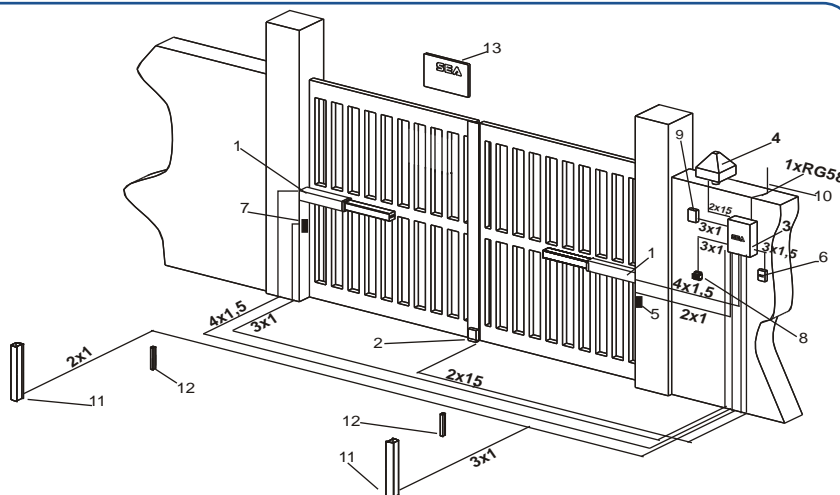
# Actuators for swing gates with external motor

LIBRA MINI TANK Hydraulic operator for residential gates.....	page 8
LIBRA MARK TANK Hydraulic operator for residential and condominium gates.....	page 9
LIBRA HALF TANK 100 Hydraulic operator for condominium gates .....	page 10
LIBRA HALF TANK 200 Hydraulic operator for condominium gates .....	page 11
LIBRA FULL TANK 100 Hydraulic operator for industrial gates .....	page 12
LIBRA FULL TANK 200 Hydraulic operator for industrial gates .....	page 13
ALPHA Electro-mechanical high/low voltage.....	page 14



## STANDARD INSTALLATION

- 1-Operator
- 2-Electric locking device
- 3-Electronic control unit
- 4-Flashing light
- 5- Photocell RH
- 6- Differential switch 16A.0.03A
- 7- Photocell Tx
- 8- Key switch
- 9- Radio receiver
- 10-Antenna
- 11- Photocell support
- 12-Open and close stop
- 13-Warning plate



# LIBRA MINI TANK

## HYDRAULIC OPERATOR FOR SWING GATES FOR RESIDENTIAL USE FOR LIGHT-DUTY OPENING CYCLES (STROKE 270 mm).



### Strong & Silent

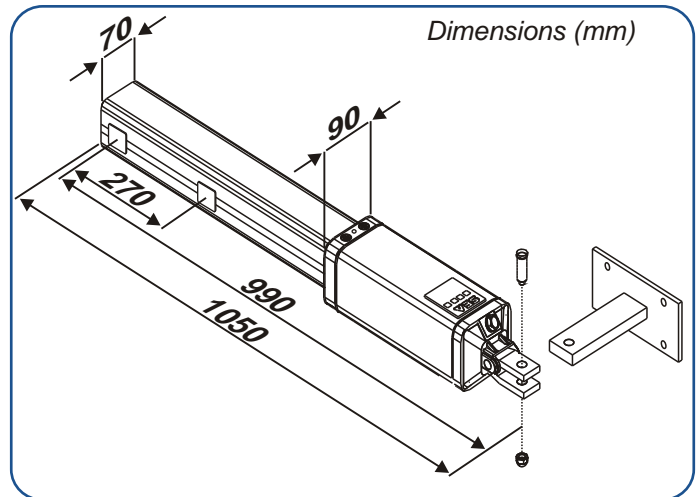
The Libra Half Tank has been planned in accordance with standards of silence, reliability and anti-crush safety granted by setting valve for the max thrust regulation of the system.  
Gates up to 1.80 meters long can be securely locked in both open and closed position using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.  
For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

**Manual Release:** In case of a power failure: The operator's internal hydraulic locking feature can be released using a special key.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac " 5%
Motor power	180W
Motor current	1,1 A
Stroke	270 mm
Cycles/hour (at a temperature of 20°C)	40
Max working pressure	20 bar
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	250 N
Capacitor	8uF
Weight	10 Kg
Protection class	IP 55



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LIBRA MINI TANK SC (lock only in closing)	1	10111005	1 l	1.8 m	
LIBRA MINI TANK SB (without lock)	1	10101005	1 l	3 m	

**Note:** for leaves up to 1.80 m, no electronic lock system is needed; for leaves above this value, with the SB version it is advisable to adopt of an electronic lock.

### MINI TANK PACKAGE

#### no. 1 Libra Mini Tank operator

#### no. 1 Kit of accessories for installation:

- no. 1 stem-cover extrudate
- no. 2 stem-cover tie-rods
- no. 1 stem-cover guard
- no. 1 front connection kit
- no. 1 rear connection kit
- no. 2 stroke-cover screw cap

#### no. 1 Customized release key

- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### KIT MINI TANK SB

code 10112040

#### no. 2 Libra Mini Tank SB operators

#### no. 2 Kit of accessories for installation

- no. 1 Electronic unit code with microprocessor code 23021055
- no. 2 Release keys

### KIT MINI TANK SC

code 10112035

#### no. 2 Libra Mini Tank SC operators

#### no. 2 Kit of accessories for installation

- no. 1 Electronic unit code with microprocessor code 23021055
- no. 2 Release keys

### ELETTROKIT MINI TANK SC

code 10112009

#### no. 2 Libra Mini Tank SC operators

#### no. 1 Electronic unit code with microprocessor code 23021055

- no. 1 One-channel 433MHz receiver + antenna
- no. 2 Two-channel 433MHz transmitters
- no. 1 Key switch
- no. 1 Pair of photocells for outside F40
- no. 1 Flashing light

ELECTRONIC CONTROL UNIT (23021055)

ELECTRONIC CONTROL UNIT (23022005)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or the devices for slowing down in closing. For these products, the execution time and any charges are assessed on a case-by-case basis.



## HYDRAULIC OPERATOR

**FOR SWING GATES FOR RESIDENTIAL USE AND SMALL CONDOMINIUMS  
FOR LIGHT-DUTY OPENING CYCLES. (STROKE 270 mm)**

### Strong & Silent

The Libra Mark Tank has been planned in accordance with standards of silence, reliability and anticrush safety granted by setting valve for the max thrust regulation of the system.

Gates up to 1.80 meters long can be securely locked in both open and closed position using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

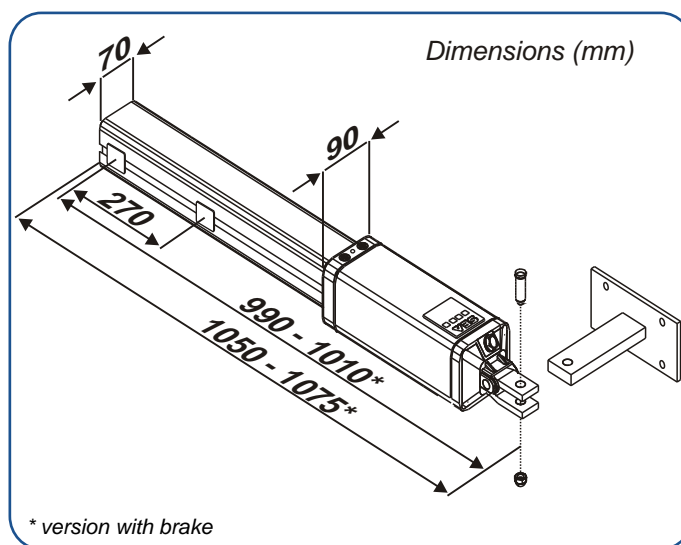
For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

**Manual Release:** In case of a power failure: The operator's internal hydraulic locking feature can be released using a special key.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.2 A
Stroke	270 mm
Cycles/hour (at a temperature of 20°C)	50
Max working pressure	40 bar
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	640 da N
Capacitor	12.5uF
Weight	11 Kg
Protection class	IP 55



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LIBRA MARK TANK SC (lock only in closing)	1	10211025	1 l	1.8 m	
LIBRA MARK TANK SB (without lock)	1	10211030	1 l	4 m	

All Libra Mark Tank operators with 1-l pump are provided with **FIXED SLOWING DOWN IN CLOSING**.

### MARK TANK PACKAGE

#### no. 1 Libra Mark Tank operator

#### no. 1 Kit of accessories for installation:

- no. 1 stem-cover extrudate
- no. 2 stem-cover tie-rods
- no. 1 stem-cover guard
- no. 1 front connection kit
- no. 1 rear connection kit
- no. 2 stem-cover screw-cap
- no. 1 ball joint
- no. 1 Customized release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### KIT MARK TANK SB

code 10212030

- no. 2 Libra Mark Tank SB operators
- no. 2 Kit of accessories for installation
- no. 1 Electronic unit code with microprocessor code 23021070
- no. 2 Release keys

### KIT MARK TANK SC

code 10212025

- no. 2 Libra Mark Tank SC operators
- no. 2 Kit of accessories for installation
- no. 1 Electronic unit code with microprocessor code 23021070
- no. 2 Release keys

**Note:** for leaves up to 1.80 m, no electronic lock system is needed; for leaves above this value, with the SB version it is advisable to adopt of an electronic lock.

ELECTRONIC CONTROL UNIT (23022005)

ELECTRONIC CONTROL UNIT (23021070)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or the devices for slowing down in closing. For these products, the execution time and any charges are assessed on a case-by-case basis.

# LIBRA HALF TANK 100



## HYDRAULIC OPERATOR

**FOR SWING GATES FOR RESIDENTIAL AND CONDOMINIUM USE  
FOR MEDIUM DUTY OPENING CYCLES (STROKE 270 mm)**

### Strong & Silent

The Libra Half Tank has been planned in accordance with standards of silence, reliability and anticrusher safety granted by setting valve for the max thrust regulation of the system.

Gates up to 1.80 meters long can be securely locked in both open and closed position using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

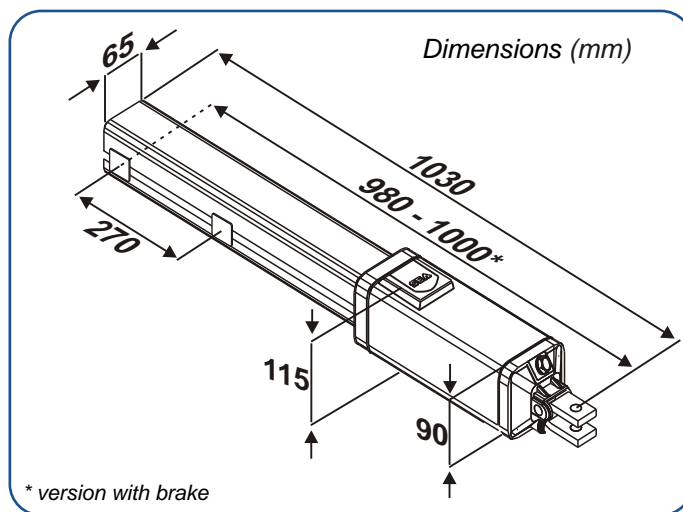
For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

**Manual Release:** In case of a power failure: The operator's internal hydraulic locking feature can be released using a special key.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.2 A
Stroke	270 mm
Cycles/hour (at a temperature of 20°C)	55
Max working pressure	40 bar
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	640 da N
Capacitor	12.5uF
Weight	11.4 Kg
Protection class	IP 55



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
<b>LIBRA HALF TANK 100 SC (lock only in closing)</b>	1	10431005	1 l	1.8 m	
<b>LIBRA HALF TANK 100 SB (without lock)</b>	1	10421030	1 l	6 m	
<b>LIBRA HALF TANK 100 AC (lock in opening and closing)</b>	1	10401035	1 l	1.8 m	
<b>LIBRA HALF TANK 100 SA (lock only in opening)</b>	1	10411010	1 l	6 m	

The Libra Half Tank 100 operators in the versions SB and AC with 1-l pump are provided with **FIXED SLOWING DOWN IN CLOSING**

### HALF TANK 100 PACKAGE

**no. 1 Libra Half Tank 100 operator**

**no. 1 Kit of accessories for installation:**

- no. 1 stem-cover extrudate
- no. 2 stem-cover tie-rods
- no. 1 stem-cover guard
- no. 1 front connection kit
- no. 1 rear connection kit
- no. 2 stem-cover screw-cap
- no. 1 ball joint

**no. 1 Customized release key**

**no. 1 Installation instructions and general notice**

**KIT HALF TANK 100 AC** code 10402005

**KIT HALF TANK 100 SA** code 10412005

**KIT HALF TANK 100 SB** code 10422010

**no. 2 Libra Half Tank 100 operators**

**no. 2 Kit of accessories for installation**

**no. 1 Electronic unit code with microprocessor code 23022005**

**no. 2 Release keys**

**ELECTRONIC CONTROL UNIT (23022005)**

**Note:** for leaves up to 1.80 meters, no electronic lock system is needed; for leaves above this value, with the SB version it is advisable to adopt an electronic lock.

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or the devices for slowing down in closing. For these products, the execution time and any charges are assessed on a case-by-case basis.

# LIBRA HALF TANK 200



## HYDRAULIC OPERATOR

**FOR SWING GATES FOR RESIDENTIAL AND CONDOMINIUM USE  
FOR MEDIUM DUTY OPENING CYCLES (STROKE 390 mm)**

### Strong & Silent

The Libra Half Tank has been planned in accordance with standards of silence, reliability and anticrush safety granted by setting valve for the max thrust regulation of the system.

Gates up to 2.2 meters long can be securely locked in both open and closed position using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

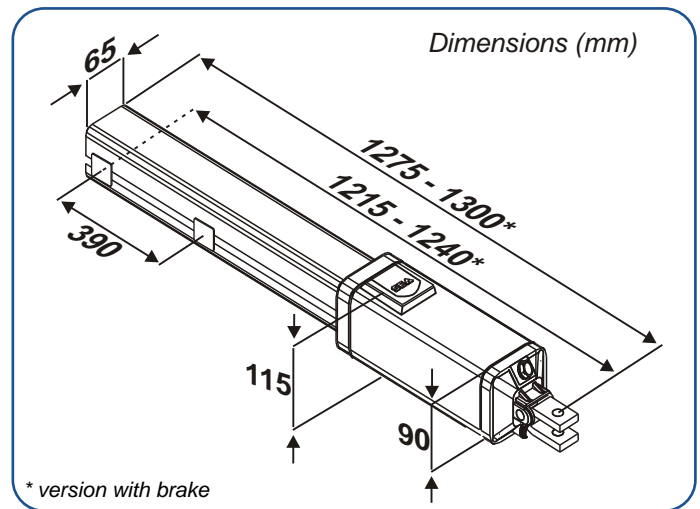
For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

**Manual Release:** In case of a power failure: The operator's internal hydraulic locking feature can be released using a special key.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.2 A
Stroke	390 mm
Cycles/hour (at a temperature of 20°C)	55
Max working pressure	40 bar
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	480 da N
Capacitor	12.5uF
Weight	13.6 Kg
Protection class	IP 55



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LIBRA HALF TANK 200 SC (lock only in closing)	1	10531005	1.5 l	2.2 m	
LIBRA HALF TANK 200 SB (without lock)	1	10521025	1.5 l	7 m	
LIBRA HALF TANK 200 AC (lock in opening and closing)	1	10501020	1.5 l	2.2 m	
LIBRA HALF TANK 200 SA (lock only in opening)	1	10511010	1.5 l	7 m	

The Libra Half Tank 200 operators in the versions SB and AC with 1.5-l pump are provided with **FIXED SLOWING DOWN IN CLOSING**

### HALF TANK 200 PACKAGE

- no. 1 Libra Half Tank 200 operator
- no. 1 Kit of accessories for installation:
  - no. 1 stem-cover extrudate
  - no. 2 stem-cover tie-rods
  - no. 1 stem-cover guard
  - no. 1 front connection kit
  - no. 1 rear connection kit
  - no. 2 stem-cover screw-cap
  - no. 1 ball joint
- no. 1 Customized release key
- no. 1 Installation instructions and general notice

### ELECTRONIC CONTROL UNIT (23022005)



**Note:** for leaves up to 2.2 m, no electronic lock system is needed; for leaves above this value, with the SB version it is advisable to adopt of an electronic lock.

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or the devices for slowing down in closing. For these products, the execution time and any charges are assessed on a case-by-case basis.

# LIBRA FULL TANK 100



## HYDRAULIC OPERATOR FOR SWING GATES FOR INDUSTRIAL USE FOR CONTINUOUS OPENING CYCLES (STROKE 270 mm)

### Strong & Silent

The Libra Full Tank has been planned in accordance with standards of silence, reliability and anti-crushing safety granted by setting valve for the max thrust regulation of the system.

Gates up to 1.80 meters long can be securely locked in both open and closed position using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening. For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

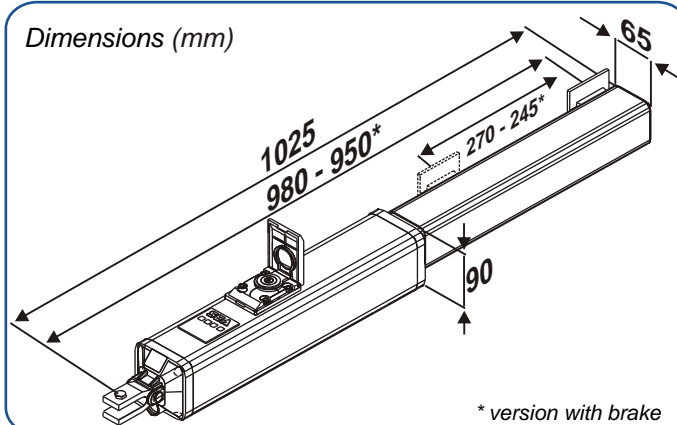
**Manual Release:** In case of power failure: The operator's internal hydraulic locking can be released using a special key and the gate used manually.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac $\pm$ 5%
Motor power	220W
Motor current	1.2 A
Stroke	270 mm
Cycles/hour (at a temperature of 20°C)	70
Max working pressure	40 bar
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	640 da Nm
Capacitor	12.5uF
Weight	12.8 Kg
Protection class	IP 55

Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LIBRA FULL TANK 100 SC (lock only in closing)	1	10631005	1 l	1.8 m	
LIBRA FULL TANK 100 SB (without lock with brake)	1	10621030	1 l	6 m	
LIBRA FULL TANK 100 AC (lock in opening and closing)	1	10601005	1 l	1.8 m	
LIBRA FULL TANK 100 SA (lock only in opening)	1	10611005	1 l	6 m	
LIBRA FULL TANK 100 AC (lock opening and closing with brake)	1	10601035	1 l	1.8 m	

Libra Full Tank 100 operators in the SB and AC versions with 1-l pump are provided with **FIXED SLOWING DOWN IN CLOSING**

### LIBRA FULL TANK 100 PACKAGE

no. 1 Libra Full Tank 100 operator

no. 1 Kit of accessories for installation:

- no. 1 stem-cover extrudate
- no. 2 stem-cover tie-rods
- no. 1 stem-cover guard
- no. 1 front connection kit
- no. 1 rear connection kit
- no. 2 stem-cover screw-carter
- no. 1 ball joint

no. 1 Customized release key

no. 1 Installation instructions and general notice

no. 1 Warning plate

**Note:** for leaves up to 1.8 meters, no electronic lock system is needed; for leaves above this value, with the SB version it is advisable to adopt an electronic lock.

### ELECTRONIC CONTROL UNIT (23022005)



**Note:** The present catalog does not include other products that vary depending on pump capacity and/or the devices for slowing down in closing. For these products, the execution time and any charges are assessed on a case-by-case basis.

# LIBRA FULL TANK 200



## HYDRAULIC OPERATOR FOR SWING GATES FOR INDUSTRIAL USE FOR CONTINUOUS OPENING CYCLES (STROKE 390 mm)

### Strong & Silent

The Libra Full Tank has been planned in accordance with standards of silence, reliability and anti-crushing safety granted by setting valve for the max thrust regulation of the system.

Gates up to 2.2 meters long can be securely locked in both the open and closed position using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening. For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

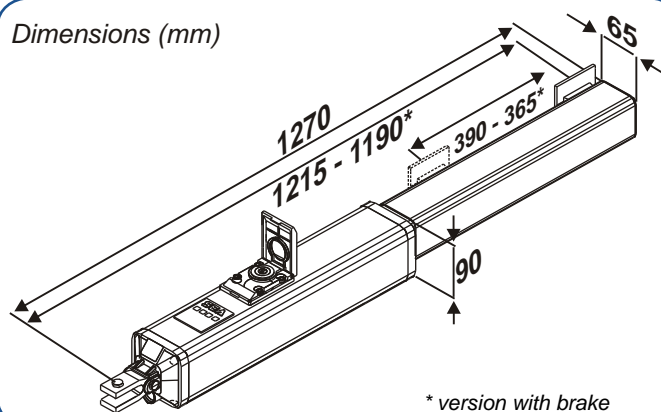
**Manual Release:** In case of power failure: The operator's internal hydraulic locking can be released using a special key and the gate used manually.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac $\pm$ 5%
Motor power	220W
Motor current	1.2 A
Stroke	390 mm
Cycles/hour (at a temperature of 20°C)	70
Max working pressure	40 bar
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	480 da N
Capacitor	12.5uF
Weight	15.2 Kg
Protection class	IP 55

Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LIBRA FULL TANK 200 SC (lock only in closing)	1	10731005	1.5 l	2.2 m	
LIBRA FULL TANK 200 SB (without lock with brake)	1	10721025	1.5 l	7 m	
LIBRA FULL TANK 200 AC (lock opening and closing with brake)	1	10701040	1.5 l	2.2 m	
LIBRA FULL TANK 200 SA (lock only in opening)	1	10711005	1.5 l	7 m	

The Libra Full Tank 200 operators in the versions SB and AC with 1.5-l pump are provided with **FIXED SLOWING DOWN IN CLOSING**

### LIBRA FULL TANK 200 PACKAGE

no. 1 Libra Full Tank 200 operator

no. 1 Kit of accessories for installation:

- no. 1 stem-cover extrudate
- no. 2 stem-cover tie-rods
- no. 1 stem-cover guard
- no. 1 front connection kit
- no. 1 rear connection kit
- no. 2 stem-cover screw-cap
- no. 1 ball joint

no. 1 Customized release key

no. 1 Installation instructions and general notice

no. 1 Warning plate

**Note:** for leaves up to 2.2 meters, no electronic lock system is needed; for leaves above this value, with the SB version it is advisable to adopt an electronic lock.

### ELECTRONIC CONTROL UNIT (23022005)



**Note:** The present catalog does not include other products that vary depending on pump capacity and/or the devices for slowing down in closing. For these products, the execution time and any charges are assessed on a case-by-case basis.



## ELECTRO-MECHANICAL LOW/HIGH VOLTAGE PIPELINE OPERATOR FOR LIGHT DUTY APPLICATIONS TWO MODELS AVAILABLE

**Alpha 300:** for swing gates with leaf up to 2.0 metres and weight of 250 kg

**Alpha 400:** for swing gates with leaf up to 3.0 metres and weight of 330 kg

Alpha has been planned for residential gates up to 6 metres. Quick and easy to install it's provided of an anti crushing protection system by an electronic device controlling operator drive torque. It's provided of a revolutionary internal totally concealed positive stop system and an internal limit switch.

In case of emergency, the release key makes it possible to operate the gate manually.

In case of power failure a battery back up allows the operator for 100 cycles opening.

# NEW



### OPERATOR SPECIFICATION

	ALPHA 220		ALPHA 24V	
	ALPHA 300	ALPHA 400	ALPHA 300	ALPHA 400
Supply voltage	230 Vac	230 Vac	230 Vac	230 Vac
Electric Motor	220V	220V	24	24
Motor power	260 W	260 W	70 W	70 W
Motor current	1,2 A	1,2 A	3 A	3 A
Motor revol. speed	1400 rpm	1400 rpm	1300 rpm	1300 rpm
Cycles/hour	20	20	40	40
Operating temperature	-20°C +55°C	-20°C +55°C	-20°C +55°C	-20°C +55°C
Protection class	44	44	44	44
Max leaf lenght	2,0	3,30	2,0	3,30

DESCRIPTION	Q.TY	CODE
<b>ALPHA 300</b>	1	11330005
<b>ALPHA 400</b>	1	11330010

#### KIT ALPHA Small Code 11331005

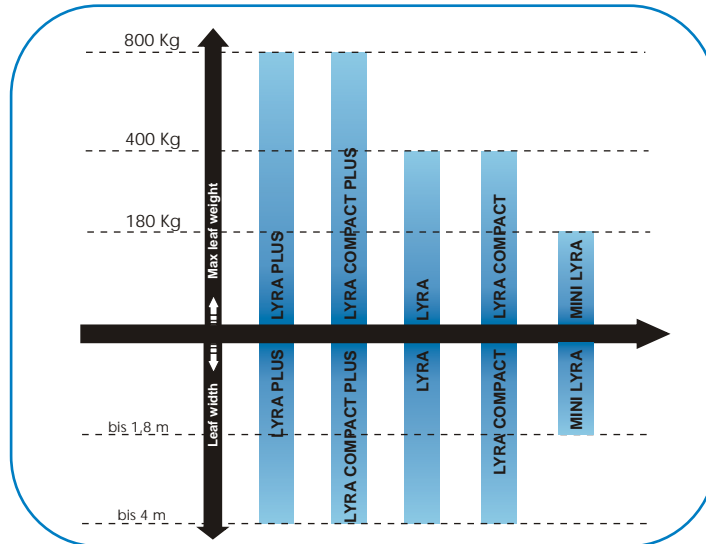
- no. 2 ALPHA Small operators
- no. 1 Electronic unit code with microprocessor
- no. 1 One-channel 433MHz receiver + antenna
- no. 2 Two-channel 433MHz transmitters
- no. 1 Key switch
- no. 1 Pair of photocells for outside F40
- no. 1 Flashing light
- no. 1 Warning Plate

#### KIT ALPHA Medium Code 11331010

- no. 2 ALPHA Medium operators
- no. 1 Electronic unit code with microprocessor
- no. 1 One-channel 433MHz receiver + antenna
- no. 2 Two-channel 433MHz transmitters
- no. 1 Key switch
- no. 1 Pair of photocells for outside F40
- no. 1 Flashing light
- no. 1 Warning Plate

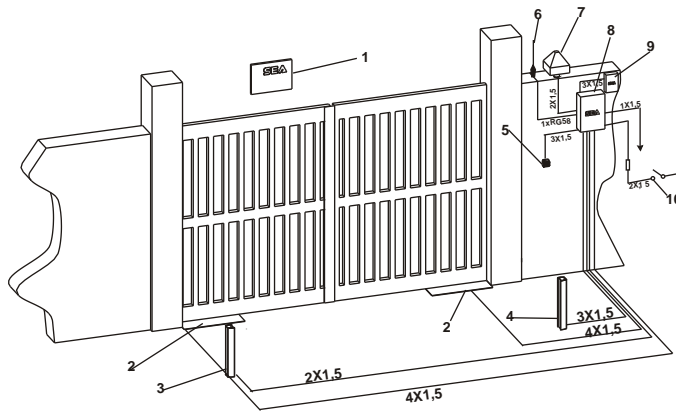
# Automations for swing gates with underground motor

LYRA Underground hydraulic operator for residential and condominium gates .....	page 16
LYRA PLUS Underground hydraulic operator for residential and condominium gates .....	page 17
LYRA COMPACT Underground hydraulic operator for residential and condominium gates .....	page 18
LYRA COMPACT PLUS Underground hydraulic operator for residential and condominium gates .....	page 19
MINI LYRA COMPACT CP 45 Underground hydraulic operator for residential gates .....	page 20



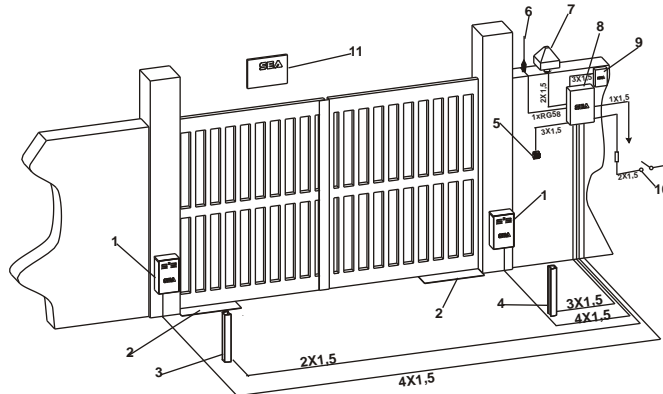
## STANDARD INSTALLATION

- 1) Warning plate
- 2) MINI LYRA 45CP operator
- 3) Photocell LH
- 4) Photocell RH
- 5) Key switch
- 6) Antenna
- 7) Flashing light
- 8) Electronic control unit
- 9) Receiver
- 10) Differential 16A -30mA



## STANDARD INSTALLATION

- 1) Hydr Control unit LYRA
- 2) Hydr Jack LYRA
- 3) Photocell LH
- 4) Photocell RH
- 5) Key switch
- 6) Antenna
- 7) Flashing light
- 8) Electronic control unit
- 9) Receiver
- 10) Differential 16A -30mA
- 11) Warning plate



## HYDRAULIC UNDERGROUND OPERATOR FOR SWING GATES WITH ONE LEAF OF MAX 4 METERS AND MAX WEIGHT 400 KG



### Strong, Silent & Concrete

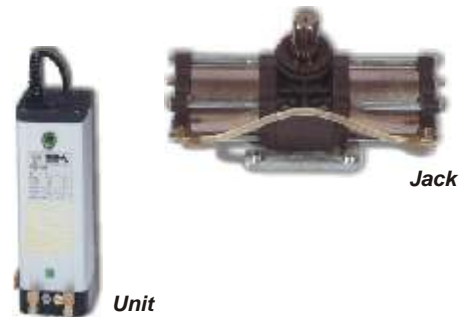
Electro-hydraulic actuator consisting of an hydraulic pump unit and underground hydraulic jack housed in a box treated with cataphoresis. The two separate units are linked together hydraulically using copper pipes.

The **pump unit casing**, which is used as an oil tank, contains the electric motor, fluid pump, distributor and hydraulic oil. **Gates less than 2 meters wide** can be securely locked using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

### Manual Release

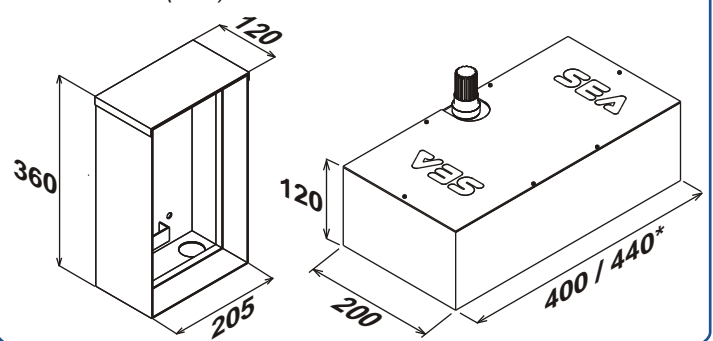
In case of a power failure, the operator's internal hydraulic locking can be released using a special key and the gate used manually.



### OPERATOR AND JACK SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Motor revol. speed	1400 rpm
Cycles/hour (at a temperature of 20°C)	45
Max operating pressure of 0.5-l (0.75 l) pump	50 bar (40 bar)
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max torque	56 da Nm
Capacitor	12.5uF
Weight	5.5 Kg
Protection class	IP 67

### Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LYRA AC (lock in opening and closing)	1	12001005	0.5 l	2 m	
LYRA AC (lock in opening and closing)	1	12001015	0.75 l	2 m	
LYRA SB (without lock)	1	12002005	0.5 l	4 m	
LYRA SB (without lock)	1	12002010	0.75 l	4 m	

PRODUCT DESCRIPTION	QTY	CODE	ROTATION ANGLE	MAX LEAF WEIGHT	PRICE
JACK LYRA with adjustable braking	1	12011010	100°	400 Kg	
JACK LYRA with adjustable braking	1	12012010	180°	400 Kg	
LYRA JACK	1	12011005	100°	400 Kg	
LYRA JACK	1	12012005	180°	400 Kg	

### LYRA PACKAGE

- no. 1 Lyra unit
- no. 1 Unit box
- no. 1 Kit of accessories for installation
- no. 1 Installation instructions

### JACK PACKAGE

- no. 1 Lyra jack
- no. 1 Angle box
- no. 1 Kit of accessories for installation
- no. 1 Installation instructions
- no. 1 Warning plate

ACCESSORIES	QTY	CODE	PRICE
Foundation plate	1	16200055	
Copper pipe (1 meter)	1	12715020	

### ELECTRONIC CONTROL UNIT (23022005)

**Note:** For leaves up to 2 meters, no electronic lock system is needed; for leave above 2 m, with the SB version it is advisable to adopt an electronic lock.

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.



## HYDRAULIC UNDERGROUND OPERATOR FOR SWING GATES WITH ONE LEAF OF MAX 4 METERS AND MAX WEIGHT 800 KG

### Strong, Silent & Concrete

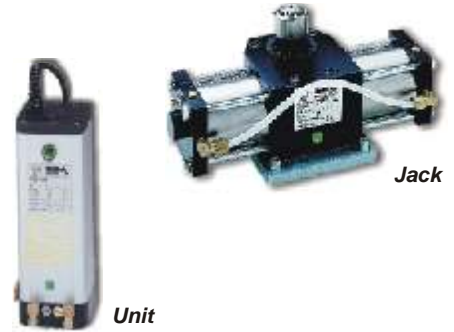
Electro-hydraulic actuator consisting of an hydraulic pump unit and underground hydraulic jack housed in a box treated with cathaphoresis. The two separate units are linked together hydraulically using copper pipes.

The pump unit casing, which is used as an oil tank, contains the electric motor, fluid pump, distributor and hydraulic oil. **Gates up to 2 meters long** can be securely locked using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

### Manual Release:

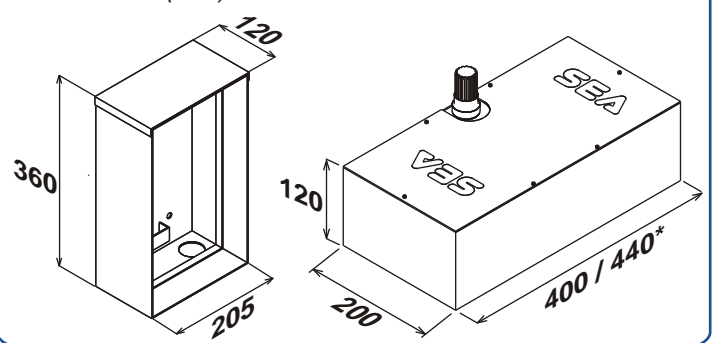
In case of power failure, the operator's internal hydraulic locking can be released using a special key and the gate used manually.



### OPERATOR AND JACK SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Motor revol. speed	1400 rpm
Cycles/hour (at a temperature of 20°C)	45
Max operating pressure of 0.5-l (0.75 l ) pump	50 bar (40 bar)
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max torque	56 da Nm
Capacitor	12.5uF
Weight	5.5 Kg
Protection class	IP 67

### Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	PUMP	MAX LEAF LENGTH	PRICE
LYRA AC (lock in opening and closing)	1	12001005	0.5 l	2 m	
LYRA AC (lock in opening and closing)	1	12001015	0.75 l	2 m	
LYRA SB (without lock)	1	12002005	0.5 l	4 m	
LYRA SB (without lock)	1	12002010	0.75 l	4 m	

PRODUCT DESCRIPTION	QTY	CODE	ROTATION ANGLE	MAX LEAF WEIGHT	PRICE
JACK PLUS with adjustable braking	1	12015010	100°	800 Kg	
JACK PLUS with adjustable braking	1	12015050	180°	800 Kg	
JACK PLUS	1	12015015	100°	800 Kg	
JACK PLUS	1	12015055	180°	800 Kg	

### LYRA PACKAGE

- no. 1 Lyra unit
- no. 1 Unit box
- no. 1 Kit of accessories for installation
- no. 1 Installation instructions

### JACK PLUS PACKAGE

- no. 1 Jack Plus
- no. 1 Angle box
- no. 1 Kit of accessories for installation
- no. 1 Installation instruction

ACCESSORIES	QTY	CODE	PRICE
Foundation plate	1	16200055	
Copper pipe (1 meter)	1	12715020	

### ELECTRONIC CONTROL UNIT (23022005)

**Note:** For leaves up to 2 m, no electronic lock system is needed; for leaves above 2 m, with the SB version it is advisable to adopt an electronic lock. For two-leaf gates it is necessary to provide 2 hydraulic pumps, 2 jacks and only one electronic control unit.

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.



# LYRA COMPACT

## HYDRAULIC UNDERGROUND OPERATOR

FOR SWING GATES WITH ONE LEAF OF MAX 4 METERS  
AND MAX WEIGHT 400 KG



### Strong, Silent & Discrete

The Lyra Compact consists of a hydraulic pump and a hydraulic jack, both of which coupled in a **supporting box treated with cataphoresis**.

The pump unit casing, which is used as an oil tank, contains the electric motor, fluid pump, distributor and hydraulic oil.

It is also provided with an adjustable slowing-down device in the two stop phases of the leaf.

**Gates up to 2 meters** long can be securely locked using the operators internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

For rotation angles not included between 90°-100 and 130°-140° respectively, slowing down is either in closing or in opening.

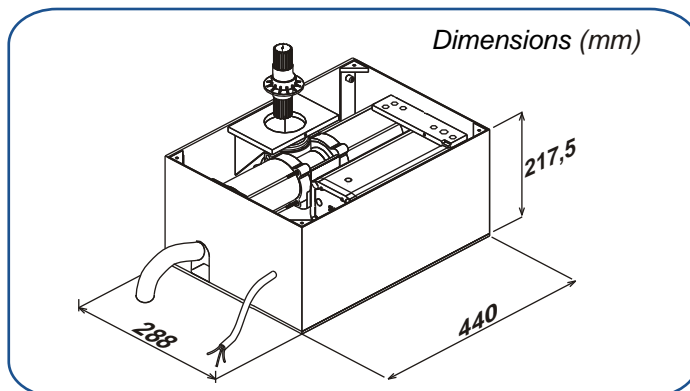
### Manual Release

In case of power failure: The operator's internal hydraulic locking can be released using a special key and the gate used manually.



### OPERATOR AND JACK SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Motor revol. speed	1400 rpm
Cycles/hour (at a temperature of 20°C)	45
Max operating pressure of 0.5-l (0.75 l) pump	50 bar (40 bar)
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max torque	56 da Nm
Capacitor	12.5uF
Weight	13 Kg
Protection class	IP 55



PRODUCT DESCRIPTION	QTY	CODE	SIDE	ROTAT. ANGLE	PUMP	PRICE
LYRA COMPACT AC (lock in opening and in closing)	1	12111005	RIGHT	100°	0.50 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12111025	LEFT	100°	0.50 l	
LYRA COMPACT SB (without lock)	1	12111010	RIGHT	100°	0.50 l	
LYRA COMPACT SB (without lock)	1	12111030	LEFT	100°	0.50 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12111015	RIGHT	100°	0.75 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12111035	LEFT	100°	0.75 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12112005	RIGHT	140°	0.50 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12112025	LEFT	140°	0.50 l	
LYRA COMPACT SB (without lock)	1	12112010	RIGHT	140°	0.50 l	
LYRA COMPACT SB (without lock)	1	12112030	LEFT	140°	0.50 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12112015	RIGHT	140°	0.75 l	
LYRA COMPACT AC (lock in opening and in closing)	1	12112035	LEFT	140°	0.75 l	

### LYRA COMPACT PACKAGE

- no. 1 Lyra Compact operator
- no. 1 Kit of accessories for installation
- no. 1 Customized release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### ACCESSORIES

	QTY	CODE	SIDE	PRICE
Self-supporting box	1	12101005	RIGHT	
(Compulsory accessory)	1	12101010	LEFT	

**Note:** for leaves up to 2 meters, no electronic lock system is needed; for leave above 2 m, the version SB is recommended with the adoption of an electronic lock.

For two-leaf gates it is necessary to provide 2 hydraulic pumps, 2 jacks and only one electronic control unit.

### ELECTRONIC CONTROL UNIT (23022005)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.

# LYRA COMPACT PLUS

## HYDRAULIC UNDERGROUND OPERATOR

FOR SWING GATES WITH ONE LEAF OF MAX 4 METERS  
AND MAX WEIGHT 800 KG



### Strong, Silent & Discrete

The Lyra Compact consists of a hydraulic pump and a hydraulic jack, both of which coupled in a **supporting box treated with cataphoresis**.

**The hydraulic power unit**, which is used as an oil tank, contains electric motor, fluid pump, distributor and hydraulic oil.

It is also provided with an adjustable **slowing-down device** in the two stop phases of the leaf.

**Gates up to 2 meters long** can be securely locked using the operator's internal hydraulic locking system, thus ensuring perfect keeping in closing and in opening.

For gate in excess of stated value: A hydraulic non locking operator should be used in conjunction with a separate electrical locking device to ensure keeping in closing.

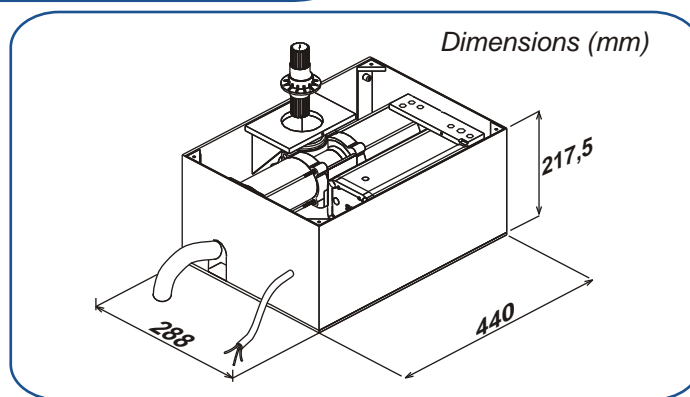
For rotation angles not included between 90°-100 and 130°-140° respectively, slowing down is either in closing or in opening.

**Manual Release:** In case of power failure: The operator's internal hydraulic locking can be released using a special key and the gate used manually.



### OPERATOR AND JACK SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Motor revol. speed	1400 rpm
Cycles/hour (at a temperature of 20°C)	45
Max operating pressure of 0.5-l (0.75 l) pump	50 bar (40 bar)
Operating temperature	-25°C +55°C
Thermal protection intervention	130°C
Max torque	56 da Nm
Capacitor	12.5uF
Weight	13.8 Kg
Protection class	IP 55



PRODUCT DESCRIPTION	QTY	CODE	SIDE	ROTAT. ANGLE	PUMP	PRICE
LYRA COMPACT PLUS AC (lock in opening and in closing)	1	12120005	RIGHT	100°	0.50 l	
LYRA COMPACT PLUS AC (lock in opening and in closing)	1	12120010	LEFT	100°	0.50 l	
LYRA COMPACT PLUS SB (without lock)	1	12120015	RIGHT	100°	0.50 l	
LYRA COMPACT PLUS SB (without lock)	1	12120020	LEFT	100°	0.50 l	
LYRA COMPACT PLUS AC (lock in opening and in closing)	1	12120105	RIGHT	140°	0.50 l	
LYRA COMPACT PLUS AC (lock in opening and in closing)	1	12120110	LEFT	140°	0.50 l	
LYRA COMPACT PLUS AC (lock in opening and in closing)	1	12120115	RIGHT	140°	0.75 l	
LYRA COMPACT PLUS AC (lock in opening and in closing)	1	12120120	LEFT	140°	0.75 l	
LYRA COMPACT PLUS SB (without lock)	1	12120125	RIGHT	140°	0.50 l	
LYRA COMPACT PLUS SB (without lock)	1	12120130	LEFT	140°	0.50 l	
LYRA COMPACT PLUS SB (without lock)	1	12120135	RIGHT	140°	0.75 l	
LYRA COMPACT PLUS SB (without lock)	1	12120140	LEFT	140°	0.75 l	

### LYRA COMPACT PLUS PACKAGE

- no. 1 Lyra Compact Plus operator
- no. 1 Kit of accessories for installation
- no. 1 Customized release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### ACCESSORIES

	QTY	CODE	SIDE	PRICE
Self-supporting box	1	12101005	RIGHT	
(Compulsory accessory)	1	12101010	LEFT	

**Note:** for leaves up to 2 meters, no electronic lock system is needed; for leave above 2 m, the version SB is recommended with the adoption of an electronic lock.  
For two-leaf gates it is necessary to provide 2 hydraulic power units, 2 jacks and only one electronic control unit.

### ELECTRONIC CONTROL UNIT (23022005)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.



# MINI LYRA COMPACT CP 45

## HYDRAULIC UNDERGROUND OPERATOR

**WITH SUPPORTING BOX FOR SWING LEAVES.**

**MAX SINGLE LEAF WEIGHT 180 KG. MAX LEAF LENGTH 1.80 M.**



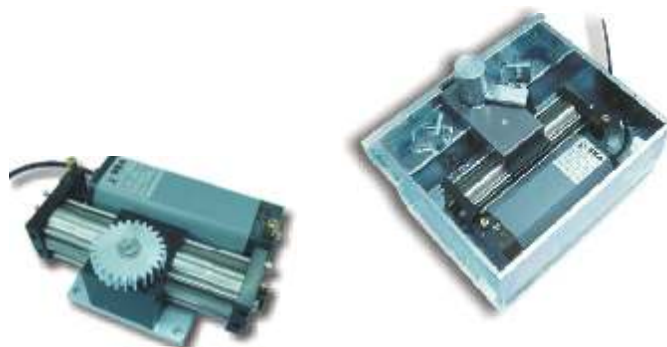
### Strong, Silent & Discrete

Mini Lyra45 CP consists of a hydraulic gearcase (electric motor, reservoir, pump and distributor) and a hydraulic jack. The 45 CP version is equipped with a supporting case treated with cataphoresis allowing installation inside it of the limit stops that can be adjusted in opening and in closing. It is suitable to move leaves up to **max 180 kg heavy**. The **max length** allowed is **1,8 m** (see graph at page15).

It is also provided with hydraulic Locking, which ensures perfect keeping in opening and in closing, and with an **adjustable hydraulic slowing-down device** in the two leaf stop phases.

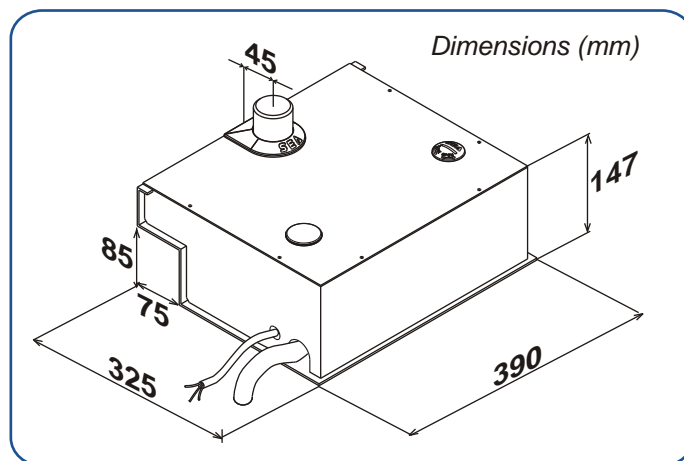
### Manual Release

In case of power failure, the construction type (using a customized key) enables to release the gate both **from the outside** and **the inside**, thereby ensuring operation in any emergency situation.



### OPERATOR AND JACK SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	180W
Motor current	1 A
Motor revolutions	1400 rpm
Cycles/hour (at a temperature of 20°C)	45
Max leaf opening degrees	110°
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Max Thrust	20 da Nm
Capacitor	8uF
Weight	18,6 Kg
Opening time	9 sec.
Protection class	IP 67



PRODUCT DESCRIPTION	QTY	CODE	PUMP	TYPE OF LOCK	MAX LEAF WEIGHT	PRICE
<b>MINI LYRA 45CP with: Supporting box with mechanical seat kit</b>	1	12210110	0.5 l	opening and closing	180 Kg	
<b>MINI LYRA 45CP operator only</b>	1	12210010	0.5 l	opening and closing	180 Kg	

### MINI LYRA 45CP PACKAGE operator only

- no. 1 Mini Lyra 45CP operator
- no. 1 Kit of accessories for installation
- no. 1 Pinion cover
- no. 1 Customized release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### ACCESSORIES

	QTY	CODE	PRICE
Supporting box with mechanical seat kit	1	12201005	
Supporting box without mechanical seat kit	1	12201015	

### MINI LYRA 45CP PACKAGE with supp. Box

- no. 1 Mini Lyra 45CP operator
- no. 1 Supporting box with mechanical seat kit
- no. 1 Kit of accessories for installation
- no. 1 Pinion cover
- no. 1 Customized release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### GRAPH OF MAX DUTY CYCLE

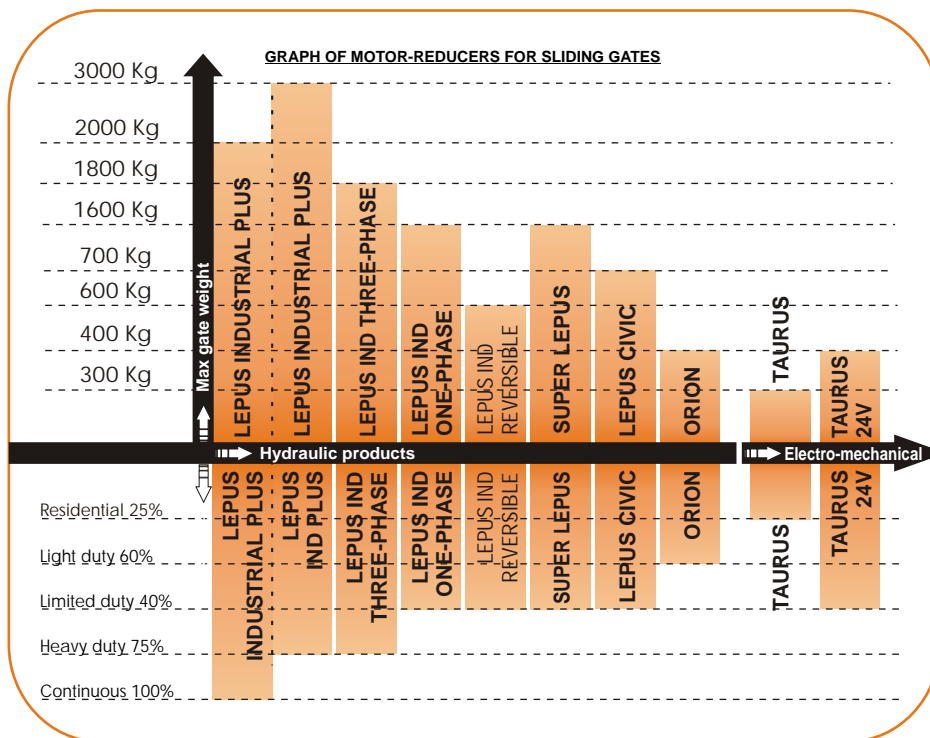


### ELECTRONIC CONTROL UNIT (23021055)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.

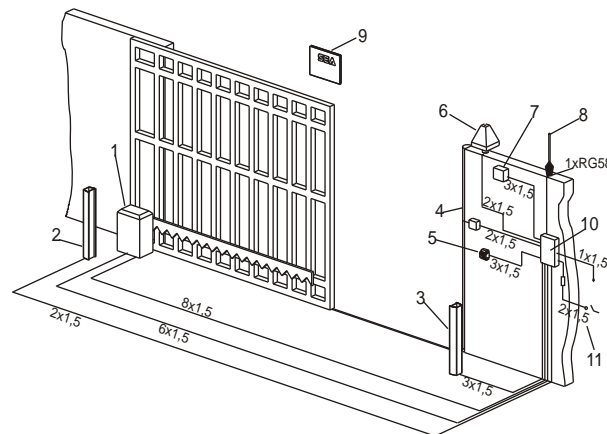
# Automations for sliding gates and sectional doors

ORION Oil-bath motor-reducer for residential gates . . . . .	page	22
LEPUS CIVIC Oil-bath motor-reducer for residential and condominium gates . . . . .	page	23
LEPUS INDUSTRIALE ONE-PHASE AND REVERSIBLE Oil-bath motor-reducer for industrial gates . . . . .	page	24
SUPER LEPUS Oil-bath motor-reducer for condominium and industrial gates . . . . .	page	25
LEPUS INDUSTRIAL PLUS Oil-bath motor-reducer for industrial gates . . . . .	page	26
TAURUS Electro-mechanical motor-reducer for residential gates . . . . .	page	27
TAURUS 24V Electro-mechanical motor-reducer for residential gates . . . . .	page	28
CORONA Electro-mechanical operator for overhead doors with spring and counterbalance and balanced sectional doors for residential use. . . . .	page	29
Accessories for Orion, Lepus and Taurus . . . . .	page	30



## STANDARD INSTALLATION

- 1) Operator
- 2) Photocell LH
- 3) Photocell RH
- 4) Mechanical safety edge
- 5) Key switch
- 6) Flashing light
- 7) Receiver
- 8) Antenna
- 9) Warning plate
- 10) Electronic control unit
- 11) Differential 16A - 30mA





## OIL-BATH MOTOR-REDUCER FOR SLIDING GATES FOR RESIDENTIAL USE. FOR LIGHT-DUTY OPENING CYCLES MAX WEIGHT 400 KG

### Powerful and Silent

ORION is an irreversible single-phase motor-reducer of easy installation. The mechanical components and the reduction gears are in OIL-BATH, offering a durable anti-wear system. Orion is equipped with a mechanical one disc clutch and sensitive torque regulation. The built-in electronic control unit ensures brake regulation and inversion during the closing cycle when it meets an obstacle. Orion is equipped with a new four poles encoder system in order to guarantee a better safety. Furthermore, to facilitate the installation of the gear rack, ORION allows side and height adjustment.

### Limit switch

The operator is equipped with an limit switch inductive or mechanical. The mechanical limit switch is lever regulated with IP 66 that guarantee the maximum reliability.

### Manual Release

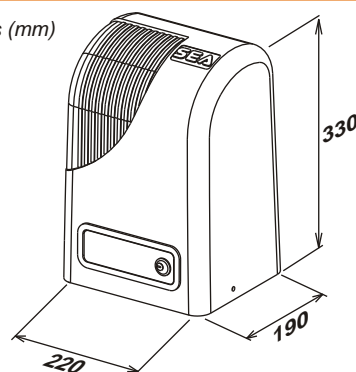
in case of power failure the unit can be mechanically released by a knob and the gate operated manually until power is restored



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	280W
Motor current	1.4 A
Motor revol. speed	1400 rpm
Gate speed	10 m/min
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Traction and thrust force	0 ÷ 3.5 of N
Capacitor	16uF
Oil quantity	0.2 l
Weight with oil	14 Kg
Protection class	IP 44

Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	LIMIT STOP	MAX GATE WEIGHT	PRICE
<b>ORION with encoder</b>	1	11201021	INDUCTIVE	400 Kg	
<b>ORION with encoder</b>	1	11201049	MECHANICAL	400 Kg	

### ORION KIT

code 11201010

- no. 1 Orion motor-reducer
- no. 1 Electronic unit code with microprocessor code 23001105
- no. 1 One-channel 433 MHz receiver + antenna
- no. 2 Two-channel 433 MHz transmitters
- no. 1 External key switch
- no. 1 Pair of photocells
- no. 1 Flashing light

### ELECTRONIC CONTROL UNIT (23001105)

ACCESSORIES	QTY	CODE	PRICE
Foundation plate	1	16200155	
Zincate gear rack mod. 4 (1 m) with accessories	1	12715010	
Plastic gear rack mod. 4 (1 m) with 6 plugs + accessories	1	12715014	
Sintered pinion Z16 sp. 24 mm for rack	1	16101012	
External release for Orion	1	12710065	
Security box for external release	1	12710010	

### ORION PACKAGE

- Nr. 1 Orion single-phase motor-reducer
- Nr. 1 Pinion Z16
- Nr. 1 Electronic unit code 23001105
- Nr. 1 Kit of accessories for installation
- Nr. 1 Release key
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

**Note:** This catalog does not include other products that vary depending on the accessories for installation. For these products, the execution time and any charges are assessed on a case-by-case basis.



## OIL-BATH MOTOR-REDUCER FOR SLIDING GATES FOR RESIDENTIAL AND CONDOMINIUM USE FOR LIGHT-DUTY OPENING CYCLES. MAX GATE WEIGHT: 700 KG



### Compact, Powerful and Silent

The Lepus Civic is a one-phase motor-reducer for sectional gates with a mechanical two-disc clutch for a sensitive regulation of the motor torque. The perfect keeping in closing of the system is granted by the irreversibility of the gear wheel tangent screw. The electric motor, the clutch and the reduction gears are housed in a single-piece cast aluminum block and fully immersed in an oil bath. The oil acts as both the lubricant for the gears as a cooling agent to dissipate the heat generated by the electric motor operation. The built-in electronic control unit ensures brake regulation and inversion during the closing cycle when it meets an obstacle.

The operator allows a side adjustment. In order to allow also the height adjustment, SEA suggests to use its own foundation plate (code 16200087).

### Limit switch

The motor-reducer is equipped with an inductive limit switch. This type of switch eliminates frictions and the use of moving, thus achieving long life and reliability. A version with mechanical lever limit switch is also available.

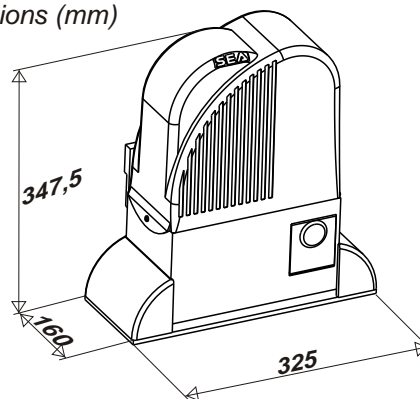
### Manual Release

In the case of a power failure, the operator internal hydraulic locking can be overridden by using a special key.

### OPERATOR SPECIFICATION

Supply voltage	230 Vac $\pm$ 5%
Motor power	330W
Motor current	1.5 A
Motor revol. speed	1400 rpm
Opening speed with pinion Z16 (pinion Z20)	10 m/min (12 m/min)
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Traction and thrust force	5 da N
Capacitor	16uF
Oil quantity	1,75 lt
Weight with oil	15 Kg
Protection class	IP 55

### Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	LIMIT STOP	MAX. GATE WEIGHT	PRICE
LEPUS CIVIC with encoder with elect. unit 23001107	1	11101004	INDUCTIVE	700 Kg	
LEPUS CIVIC with encoder with elect. unit 23001107	1	11101060	MECHANICAL	700 Kg	

### LEPUS PACKAGE with elect. control unit

- no. 1 Lepus Civic motor-reducer
- no. 1 Pinion Z16
- no. 1 Electronic control unit 23001107
- no. 1 Kit of accessories for installation
- no. 1 Release key
- no. 1 Installation instructions and general notice

### ACCESSORIES

	QTY	CODE	PRICE
Foundation plate with side and height adjustment	1	16200067	
Zincate gear rack mod. 4 (1 m) with accessories	1	12715010	
Pinion Z20 for gear rack	1	16101015	
Kit of encoder to be connected to the elect. control unit 23001106	1	11110100	



ELECTRONIC CONTROL UNIT (23001005)

ELECTRONIC CONTROL UNIT (23001106) (23001107)

**Note:** This catalog does not include other products that vary depending on the accessories for installation. For these products, the execution time and any charges are assessed on a case-by-case basis.



## OIL-BATH MOTOR-REDUCER

FOR SLIDING GATES FOR INDUSTRIAL USE.

FOR LIGHT-DUTY OPENING CYCLES.

MAX GATE WEIGHT: 1600 KG (ONE-PHASE), 600 KG (REVERSIBLE), 1800 KG (THREE PHASE)

### Compact, Powerful and Silent

The Lepus Industrial is a motor-reducer for sliding gates with a mechanical two-disc clutch for a sensitive regulation of the motor torque.

The perfect keeping in closing of the system is granted by the irreversibility of the gear wheel tangent screw. The electric motor, the clutch and the reduction gears are housed in a single-piece cast aluminum block and constantly immersed in an oil bath. The oil acts as both the lubricant for the gears as a cooling agent to dissipate the heat generated by the electric motor operation.

### Inductive and mechanical limit switch

The motor-reducer is equipped with an inductive limit switch. This type of switch eliminates frictions and the use of moving, thus achieving long life and reliability.

### Manual Release

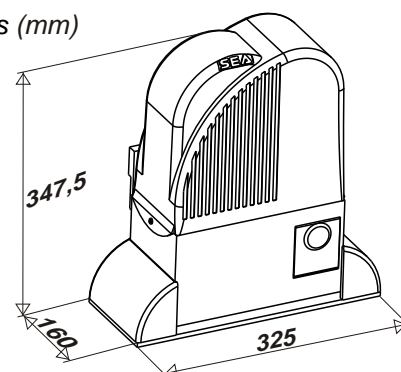
In the case of a power failure, the operator internal hydraulic locking can be overridden by using a special key.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
One-phase motor power (reversible)	650W (580W)
Motor current	1.7 A
Motor revol. speed	1400 rpm
Opening speed with pinion Z16 (pinion Z20)	10 m/min (12 m/min)
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Traction and thrust force	6 da N
Capacitor	35uF
Oil quantity	1.75 l
Weight with oil	15 Kg
Protection class	IP 55

### Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	LIMIT STOP	MAX GATE WEIGHT	PRICE
LEPUS IND. One-phase with encoder, elect. unit, pinion Z16	1	11110125	INDUCTIVE	1600 Kg	
LEPUS IND. One-phase with encoder, elect. unit, pinion Z16	1	11110130	MECHANICAL	1600 Kg	
LEPUS IND. Reversible without encoder	1	11110006	INDUCTIVE	600 Kg	
LEPUS INDUSTRIAL Three-phase with encoder	1	11110190	INDUCTIVE	1800 Kg	
LEPUS INDUSTRIAL Three-phase with encoder	1	11110195	MECHANICAL	1800 Kg	

### LEPUS IND. ONE-PHASE PACKAGE

- Nr. 1 Lepus Industrial one-phase motor-reducer
- Nr. 1 Kit of accessories for installation
- Nr. 1 Release key
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### REVERSIBLE LEPUS IND.LE PACKAGE

- Nr. 1 Lepus Industrial Reversible motor-reducer
- Nr. 1 Kit of accessories for installation
- Nr. 1 Release key
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### LEPUS IND. THREE-PHASE PACKAGE

- Nr. 1 Lepus Industrie Three-phase motor-reducer
- Nr. 1 Kit of accessories for installation
- Nr. 1 Release key
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

	QTY	CODE	PRICE
Foundation plate with side and height adjustment	1	16200067	
Zincate gear rack mod. 4 (1 m) with accessories	1	12715010	
Pinion Z16 for gear rack	1	16101010	
Pinion Z20 for gear rack	1	16101015	
Kit of encoder to be connected to the elect. control unit 23001107	1	11110100	
Kit of encoder to be connected to the elect. control unit 23001045	1	11110100	

ELECTRONIC CONTROL UNIT (23001107)

ELECTRONIC CONTROL UNIT (23001005)

ELECTRONIC CONTROL UNIT (23001045) THREE PHASE

ELECTRONIC CONTROL UNIT (23021019) THREE PHASE

**Note:** This catalog does not include other products that vary depending on the accessories for installation. For these products, the execution time and any charges are assessed on a case-by-case basis.



## OIL-BATH MOTOR-REDUCER FOR SLIDING GATES FOR INDUSTRIAL USE. FOR LIGHT-DUTY OPENING CYCLES. MAX GATE WEIGHT: 1600 KG

### Powerful and sensitive

The Super Lepus is a one-phase motor-reducer for sliding gates with a mechanical two-disc clutch for a sensitive regulation of the motor torque.

The perfect keeping in closing of the system is granted by the irreversibility of the gear wheel tangent screw. The electric motor, the clutch and the reduction gears are housed in a single-piece cast aluminum block and constantly immersed in an oil bath. The oil acts as both the lubricant for the gears as a cooling agent to dissipate the heat generated by the electric motor operation.

### Limit switch

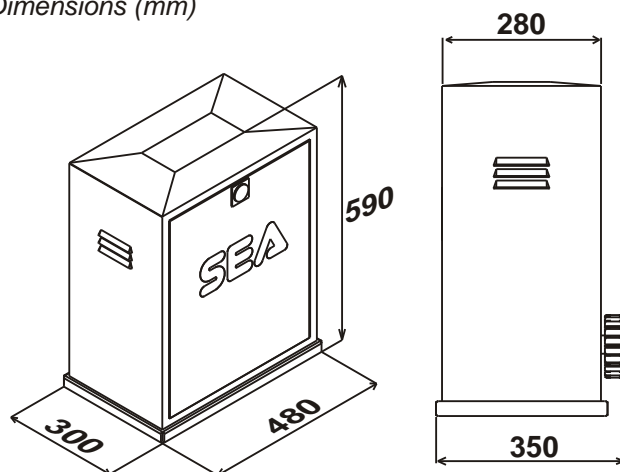
The Super Lepus is supplied with a mechanical type limit switch.

### Manual Release

In the case of a power failure, the operator internal hydraulic locking can be overridden by using a special key.



Dimensions (mm)



### OPERATOR SPECIFICATION

Supply voltage	230 Vac $\pm$ 5%
Motor power	650W
Motor current	1.7 A
Motor revol. speed	1400 rpm
Opening speed with pinion Z16 (pinion Z20)	10 m/min (12 m/min)
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Traction and thrust force	6 da N
Capacitor	35uF
Oil quantity	1,75 lt
Weight with oil	15 Kg
Protection class	IP 55

PRODUCT DESCRIPTION	QTY	CODE	LIMIT STOP	MAX GATE WEIGHT	PRICE
SUPER LEPUS with elect. control unit 23001020	1	11115110	MECHANICAL	1600 Kg	

### SUPER LEPUS PACKAGE

- Nr. 1 Super Lepus motor-reducer
- Nr. 1 Electronic control unit
- Nr. 1 Kit of accessories for installation
- Nr. 1 Pinion Z16 with double thickness
- Nr. 1 Release key
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

	QTY	CODE	PRICE
Mounting plate	1	16200066	
Zincate gear rack mod.4 (1 m) with accessories	1	12715010	
Pinion Z16 for gear rack	1	16101010	
Pinion Z20 for gear rack	1	16101015	
Pinion Z16 double thickness for gear rack	1	16101020	

### ELECTRONIC CONTROL UNIT (23001020)



## OIL-BATH MOTOR-REDUCER FOR SLIDING GATES FOR INDUSTRIAL USE. FOR HEAVY DUTY OPENING CYCLES MAX GATE WEIGHT: 3000 KG



### Powerful and sensitive

Three-phase electro-mechanical motor-reducer with oil bath designed for big sliding gates. **It allows an intensive use for gates up to 3000 kg of weight.** The adjustable two-disc friction clutch in oil bath provides the utmost anti-entrapment protection through the accurate torque regulation. The microprocessor electronic control unit provides all functioning logics.

### Manual Release

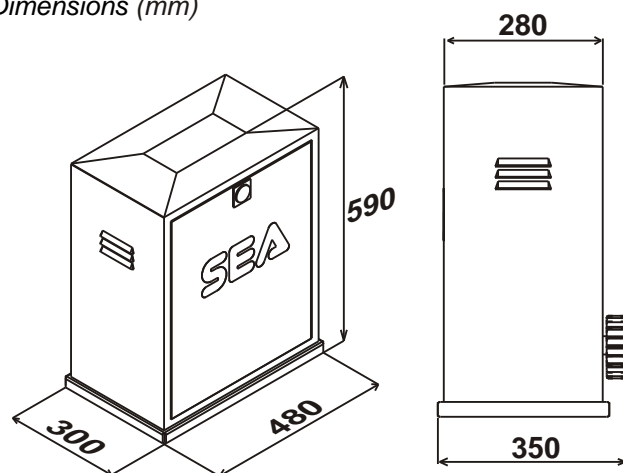
In case of power failure, a lever can mechanically release the gate, which can be manually operated.



### OPERATOR SPECIFICATION

Supply voltage	220V/380V 50/60Hz
Motor power	950W
Motor current	2.8 A
Motor revol. speed	1400 rpm
Opening speed	10 m/min
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Reduction	1 ÷ 43.2
Traction and thrust force	From 0 to 155 Nm
Clutch	Two-disc in oil bath
Oil quantity	1.75 l
Oil type	SEA
Weight	45 Kg
Protection class	IP 55

### Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	LIMIT STOP	MAX GATE WEIGHT	PRICE
LEPUS INDUSTRIAL PLUS	1	11115015	MECHANICAL	3000 Kg	

### LEPUS INDUSTRIAL PLUS PACKAGE

- Nr. 1 Lepus Industrial Plus motor-reducer
- Nr. 1 Pinion Z24
- Nr. 1 Electronic control unit 23021019
- Nr. 1 Kit of accessories for installation
- Nr. 1 Release key
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

	QTY	CODE	PRICE
Foundation plate	1	16200066	
Zincate gear rack mod. 4 (1 m) with accessories	1	12715010	
Pinion Z20 module 4 for gear rack	1	16101015	
Zincate gear rack mod. 6 (1 m) with accessories	1	12715013	
Pinion Z16 module 6 for gear rack	1	16101075	

### ELECTRONIC CONTROL UNIT (23021019)



## ELECTRO-MECHANICAL MOTOR-REDUCER

**FOR SLIDING GATES FOR RESIDENTIAL USE.**

**FOR RESIDENTIAL OPENING CYCLES MAX GATE WEIGHT: 300 KG**

Electro-mechanical motor-reducer realized in a compact aluminum case with reduced dimensions.

The anti-entrapment safety is always ensured; the Taurus motor-reducer can be purchased in the version with mechanical clutch or with electronic limitation of the motor torque.

The opening and closing accuracy is provided by a mechanical limit stop with micro-switch.

The key releasing system allows the manual operating of the gate in a quick way.

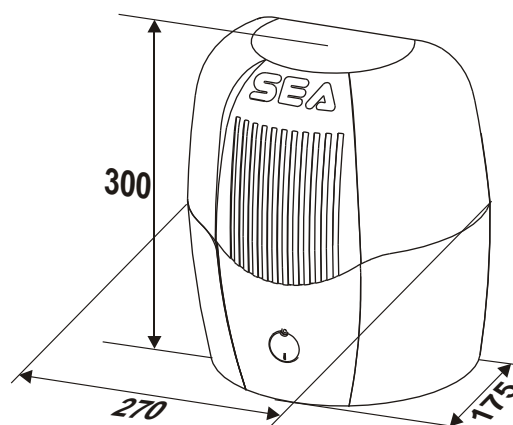
The microprocessor electronic control unit is provided of automatic or semi-automatic logics and it is set for all kind of safeties.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac $\pm$ 10%
Motor power	250W
Motor current	1 A
Opening speed	10 m/min
Operating temperature	-20°C +60°C
Thermal protection intervention	130°C
Capacitor	8uF
Max. capacity	300 Kg
Weight	8 Kg
Protection class	IP 44

Dimensions (mm)



### PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	QTY	CODE	MAX GATE WEIGHT	PRICE
<b>TAURUS with: mechanical clutch, encoder and elect. control unit</b>	1	11302065	300 Kg	

### TAURUS PACKAGE code 11302065

- Nr. 1 Taurus motor-reducer
- Nr. 1 Mounting plate
- Nr. 1 Pinion Z16 for gear rack
- Nr. 1 Electronic control unit 23001145
- Nr. 1 Kit of accessories for limit switch installation
- Nr. 1 Release key
- Nr. 4 Self-locking nuts for motor fixing
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

ACCESSORIES	QTY	CODE	PRICE
Foundation backplate	1	16200115	
Gear rack with pawls mod. 4 (1m)	1	12715010	
Plastic gear rack mod. 4 (1m) with 6 plugs + accessories	1	12715014	
Sintered pinion Z16	1	16101011	
Kit of encoder to be connected to the elect. control unit 23001145	1	11303005	

### TAURUS KIT

code 11302003

- no. 1 Taurus (11302065) electro-mechanical motor-reducer with built-in electronic unit
- no. 1 One-channel 433 MHz receiver + antenna
- no. 2 Two-channel 433 MHz transmitters
- no. 1 Key switch for outside
- no. 1 Pair of photocells for outside F40
- no. 1 Small flashing light with card

### ELECTRONIC CONTROL UNIT (23001145)

**Note:** This catalog does not include other products that vary depending on the accessories for installation. For these products, the execution time and any charges are assessed on a case-by-case basis.





## ELECTRO-MECHANICAL MOTOR-REDUCER

FOR SLIDING GATES FOR RESIDENTIAL USE.

FOR LIGHT-DUTY OPENING CYCLES. MAX GATE WEIGHT: 400 KG

A compact 24V electromechanical sliding gate operator for max gate weight of 400 kg.

The anti-crushing safety is constantly ensured by the electronic limitation of the motor torque.

The opening and closing accuracy is provided by a encoder system.

The key releasing system allows the manual operating of the gate in a quick way.

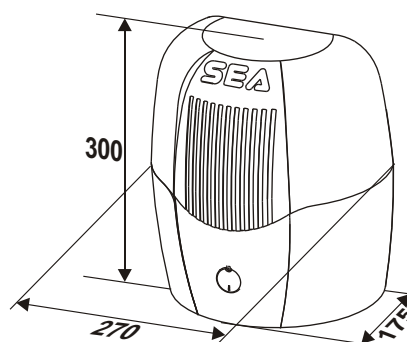
The microprocessor electronic control unit is provided of automatic or semi-automatic logics and it is set for all kind of safeties. The Taurus 24V is equipped with battery back up in case of a power failure.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 10%
Motor power	60W
Motor	24Vcc
Opening speed	10 m/min
Operating temperature	-20°C +60°C
Max. capacity	400 Kg
Weight	8 Kg
Protection class	IP 44

Dimensions (mm)



### PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	QTY	CODE	MAX GATE WEIGHT	PRICE
TAURUS 24V with built-in electronic control unit 23001146	1	11302040	400 Kg	

### TAURUS 24V PACKAGE

- Nr. 1 Taurus 24V motor-reducer
- Nr. 1 Mounting plate
- Nr. 1 Pinion Z16 for gear rack
- Nr. 1 Electronic control unit 23001146
- Nr. 1 Kit of accessories for installation
- Nr. 1 Release key
- Nr. 4 Self-locking nuts for motor fixing
- Nr. 2 1.2Ah batteries
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

ACCESSORIES	QTY	CODE	PRICE
Foundation backplate	1	16200115	
Gear rack with pawls mod. 4 (1 m)	1	12715010	
Plastic gear rack mod. 4 (1 m) with 6 plugs + accessories	1	12715014	
Sintered pinion Z16	1	16101011	
1.2 Ah battery	1	54710011	

### TAURUS 24V KIT

code 11302004

- no. 1 Taurus 24V electro-mechanical motor-reducer with built-in electronic unit
- no. 1 One-channel 433 MHz receiver + antenna
- no. 2 Two-channel 433 MHz transmitters
- no. 1 Key switch for outside
- no. 1 Pair of photocells for outside F40
- no. 1 Small flashing light with card

ELECTRONIC CONTROL UNIT (23001146)

**Note:** This catalog does not include other products that vary depending on the accessories for installation. For these products, the execution time and any charges are assessed on a case-by-case basis.

# NEW

# CORONA



## ELECTRO-MECHANICAL OPERATOR FOR OVERHEAD SPRING DOORS, COUNTERBALANCE AND BALANCED SECTIONALS FOR RESIDENTIAL OPENING CYCLES. MAX DOOR WEIGHT: 110 KG

To be release on May 2004

Corona is a ceiling operator that is **easy to install** and particularly silent as a result of **slowed-down** end phases in opening and closing.

It is provided with speed electronic control that helps preserve the mechanic parts subject to stress.

The **safe anti-crushing system** is provided by an electronic device that is set up upon installation, thereby causing the door to stop in opening and to reverse the motion in closing.

**The irreversibility** of Corona is such that no electronic lock is needed. However, the operator complies with strictest safety standards in the cases of burglary.

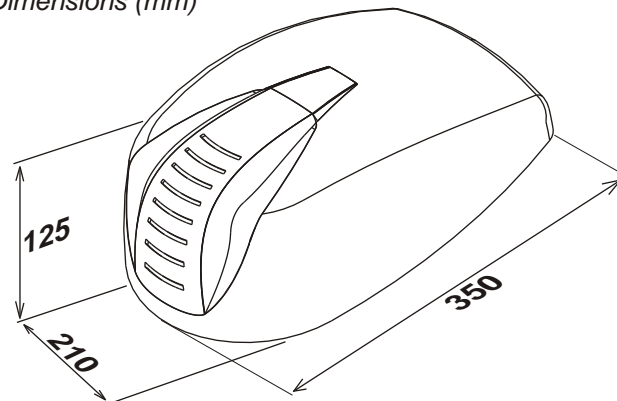
**A Manual Release** ensures door operation also in the case of power failure.



### OPERATOR SPECIFICATION

	CORONA 60	CORONA 110
Supply voltage	230 Vac	
Electric Motor	24Vdc	
Motor power	150W	300W
Max thrust	60 da N (60Kg)	120 da N (120Kg)
Cycles/hour	20	
max. carrier stroke	2700 mm	3100mm
Operating temperature	-20°C +55°C	
Protection class	IP 20	

Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	MAX THRUST FORCE	PRICE
<b>CORONA with receiver and built-in elect. control unit</b>	1	13320005	60 Kg	
<b>CORONA with receiver and built-in elect. control unit</b>	1	13320010	110 Kg	

### CORONA PACKAGE

- Nr. 1 Electro-mechanical operator Corona
- Nr. 1 Chain
- Nr. 2 Chain guides (1500 mm) + guide joint
- Nr. 1 Kit of accessories for installation
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

	QTY	CODE	PRICE
Kit for overhead operator (compulsory accessory for overhead doors)	1	13322005	

ELECTRONIC CONTROL UNIT (inside the motor)









# ACCESSORIES

## Orion, Lepus und Taurus



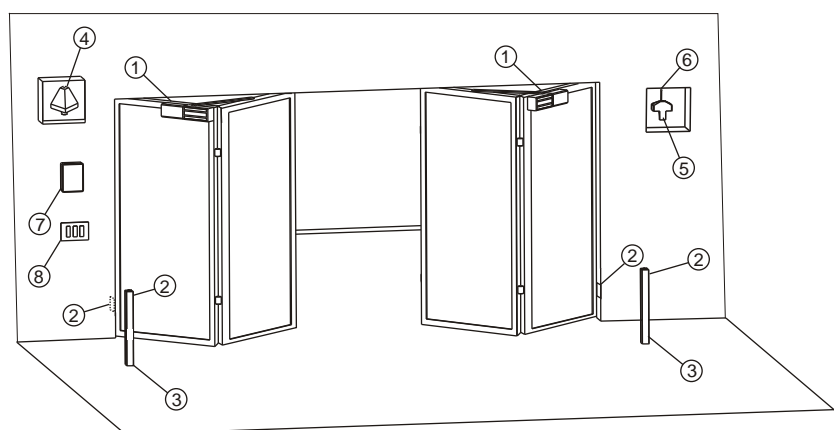
GUIDE WHEELS	QTY	CODE	PRICE
Guide wheel 120 Ø 30-mm thick V-groove with 2 bearings	1	12701010	
Guide wheel 120 Ø 30-mm thick U-groove with 2 bearings	1	12701005	
Guide wheel 140 Ø 30-mm thick V-groove with 2 bearings	1	12701020	
Guide wheel 140 Ø 30-mm thick U-groove with 2 bearings	1	12701015	
Guide wheel 160 Ø 30-mm thick V-groove with 2 bearings	1	12701035	
Guide wheel 160 Ø 30-mm thick U-groove with 2 bearings	1	12701030	
Guide wheel 200 Ø 30-mm thick V-groove with 2 bearings	1	12701050	
Guide wheel 200 Ø 30-mm thick U-groove with 2 bearings	1	12701045	

PINIONS		QTY	CODE	PRICE
Pinion Z13 for gear rack module 4		1	16101005	
Pinion Z13 double thickness for gear rack module 4		1	16101006	
Pinion Z16 for gear rack module 4 (10 m/minute)		1	16101010	
Pinion Z16 double thickness for gear rack module 4 (10 m/minute)		1	16101020	
Pinion Z24 for gear rack module 4		1	16101070	
Pinion Z20 for gear rack module 4 (12 m/minute)		1	16101015	

# Automations for folding doors

## STANDARD INSTALLATION

- 1) ARA operator
- 2) Photocells
- 3) Photocell supports
- 4) Flashing light
- 5) Receiver
- 6) Antenna
- 7) Electronic control unit
- 8) Built-in push button panel



## HYDRAULIC OPERATOR FOR FOLDING DOORS WITH INDUSTRIAL USE MAX DOOR DIMENSIONS: 1.5 X 5 METERS.



### Harmonic Movement, Silent and Safe.

Ara consists of a rotating hydraulic operator. The system is equipped with a lock in opening and closing (if provided for in the versions) and an anti-crush safety device by adjusting strength through the use of valves. The materials employed and the construction technology are designed to guarantee **extremely silent operation, great reliability and long life.**

In folding doors, with 2 double leaves drawn open, the operator is mounted on one single leaf and moves the door through a telescopic arm.

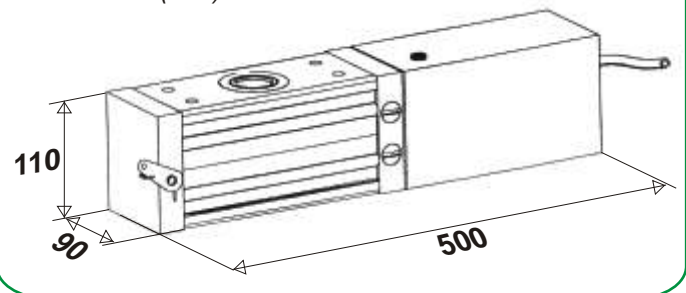
### Manual Release

In the case of a power failure, the operator can be released using a special lever connected to a 5-m long release cable. The door can thus be used manually.

### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Motor revol. speed	1400 rpm
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Cycles/hour	50
Capacitor	12.5uF
Oil quantity	2 l
Weight with oil	13 Kg
Protection class	IP 55

### Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	PUMP	PRICE
ARA AC (with lock in opening and closing)	1	11501020	0.5 l	
ARA AC (with lock in opening and closing)	1	11501030	1 l	
ARA AC (with lock in opening and closing)	1	11501035	1.5 l	
ARA AC (with lock in opening and closing)	1	11501040	2 l	
ARA SB (without lock)	1	11502020	1 l	
ARA AC (with lock in closing)	1	11503005	1 l	

### ARA PACKAGE

- Nr. 1 Operator ARA
- Nr. 1 Kit of accessories for installation
- Nr. 1 Installation instructions and general notice
- Nr. 1 Warning plate

### ACCESSORIES

	QTY	CODE	PRICE
Telescopic arm	1	12710005	
External release	1	12710070	

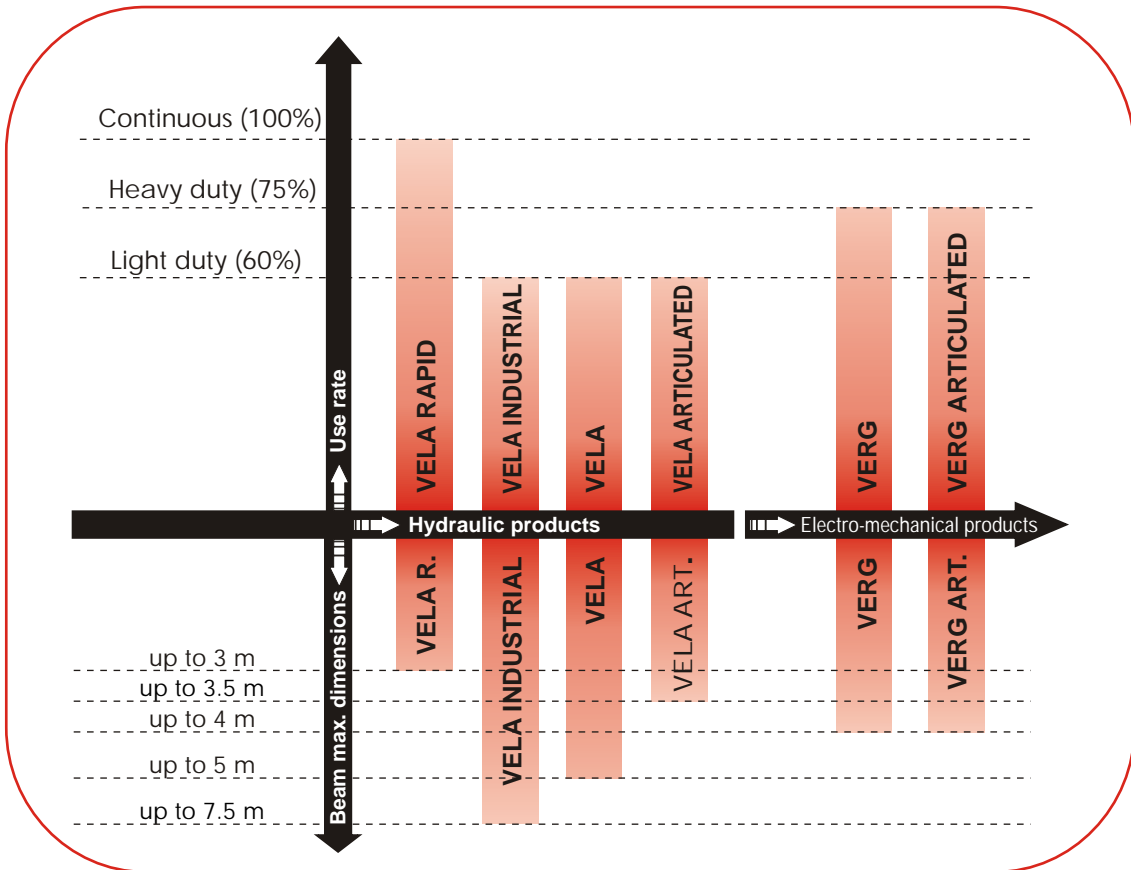
### ELECTRONIC CONTROL UNIT (23022005)

**Note:** The versions with lock (AC/SC) with 1-l pump refer to leaves up to 1.5 m long and 5 m high; the versions with 1.5-l pump refer to leaves up to 1 m long and 4 m high.

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.

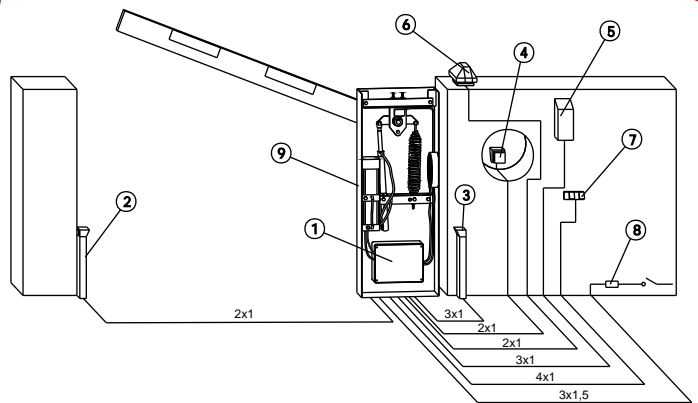
# Automatic barriers

VELA Hydraulic barrier for residential and condominium use .....	page 34
VELA ARTICULATED Hydraulic barrier with articulated beam for residential and condominium use.....	page 35
VELA RAPID Hydraulic barrier for industrial use .....	page 36
VELA INDUSTRIAL Hydraulic barrier for industrial and condominium use .....	page 37
VERG Electro-mechanical barrier for residential and condominium use.....	page 38



## STANDARD INSTALLATION

- 1- Electr. control unit
- 2- Photocell Tx
- 3- Photocell Rx
- 4- Key switch
- 5- Radio receiver
- 6- Flashing light
- 7- Push button p.for internal
- 8- Differential switch
- 9- VELA RAPID operator



## HYDRAULIC BARRIER FOR LIGHT-DUTY USE RATE FOR BEAMS UP TO 5 METERS.



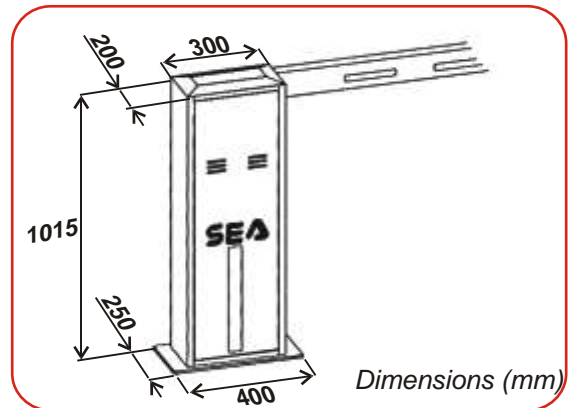
Automatic electro-hydraulic barrier designed for accesses for moderate traffic. It consists of an electro-hydraulic unit coupled with a spring balancing system that is hosted in a casing constructed from a cataphorized plate painted with epoxy powder.

The system is equipped with a lock device in opening and in closing as well as with a **hydraulic slowing-down device in opening and in closing**. It is also provided with a safety anti-entrapment device ensured by adjusting the force with valves.

The top-quality materials employed and the construction technology guarantee **extremely silent operation, great reliability and long life**.

### Manual Release

In case of a power cut, a key allows the hydraulic locking to be released and the beam can be operated manually.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Cycles/hour	60
Capacitor	12,5uF
Weight with oil	42 Kg
Oil quantity	1,8 lt
Protection class	Ip55

PRODUCT DESCRIPTION	QTY	CODE	OPENING TI	PUMP	MAX BEAM LENGTH	PRICE
VELA with right slowing-down system	1	11603050	3.5 seconds	2 l	4.5 m	
VELA with left slowing-down system	1	11603055	3.5 seconds	2 l	4.5 m	
VELA	1	11602045	5 seconds	1.5 l	4.5 m	
VELA	1	11602010	7.5 seconds	1 l	5 m	

### VELA PACKAGE

- no. 1 Painted unit for casing and accessories equipped with Vela operator
- no. 1 Kit of accessories for installation
- no. 1 Release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### BALANCING SPRINGS

CODE	DIAMETER	LENGTH RIGID BEAM	SKIRT BEAM LENGTH	PRICE
16400005	5.5 mm	2 m	-	
16400008	6 mm	2.5 m ÷ 3 m	2 m ÷ 2.5 m	
16400010	6.5 mm	3.5 m	3 m	
16400015	7 mm	4 m	3,5 m	
16400026	8 mm	4.5 m ÷ 5 m	4 m	
16400030	8.5 mm	-	4.5 m	

**Notes:** The beams are all aluminium profile equipped in the lower part with a rubber edge. On request we can supply the stainless steel casing. The Vela operator is considered right-hinged if, when looking at the casing door accessing the motor, the beam is on the right; if the beam is on the left the operator is considered left-hinged.

ELECTRONIC CONTROL UNIT (23010006)

ELECTRONIC CONTROL UNIT (23022005)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.

ACCESSORIES	QTY	CODE	PRICE
2-m rigid beam	1	11901020	
2.5-m rigid beam	1	11901025	
2.5-m round beam	1	11910025	
3-m rigid beam	1	11901030	
3-m round beam	1	11910030	
3.5-m rigid beam	1	11901035	
4-m rigid beam	1	11901040	
4.5-m rigid beam	1	11901045	
5-m rigid beam	1	11901050	
1.5-m skirt kit	1	12710089	
2-m skirt kit	1	12710090	
Coupling bracket round beam	1	12710083	
Foundation plate	1	16200050	
Fork support	1	16200100	
Backplate for support	1	16200045	
Pliable support Vela beam	1	12710085	
External release with 2 keys	1	12710055	

# VELA ARTICULATED



## HYDRAULIC BARRIER

**FOR LIGHT-DUTY USE RATE FOR BEAMS UP TO 3.5 METERS.**

Automatic electro-hydraulic barrier designed for accesses with **low headroom** and moderate traffic.

It consists of an electro-hydraulic unit coupled with a spring balancing system that is hosted in a casing constructed from a cataphorized plate painted with epoxy powder.

The system is equipped with a lock device in opening and in closing as well as with a **hydraulic slowing-down device in opening and in closing**. It is also provided with a safety anti-entrapment device ensured by adjusting the force with valves.

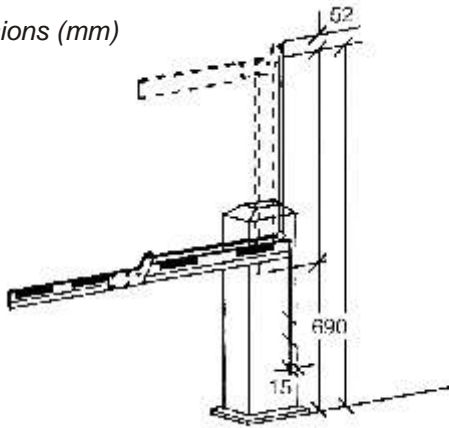
The top-quality materials employed and the construction technology guarantee **extremely silent operation, great reliability and long life**.

### Manual Release

In case of a power cut, a key allows the hydraulic locking to be released and the beam can be operated manually.



Dimensions (mm)



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	220W
Motor current	1.1 A
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Cycles/hour	60
Capacitor	12,5uF
Weight with oil	42 Kg
Oil quantity	1,8 lt
Protection class	Ip55

PRODUCT DESCRIPTION	QTY	CODE	OPENING TIME	PUMP	MAX BEAM LENGTH	PRICE
VELA ARTICULATED	1	11602045	5,5 seconds	1,5 lt	3,5 m	
VELA ARTICULATED	1	11602020	3,5 seconds	2 lt	3 m	

### VELA ARTICULATED PACKAGE

- no. 1 Unit for casing and accessories equipped with **Vela Articulated operator**
- no. 1 Kit of accessories for installation
- no. 1 Release key
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

### BALANCING SPRINGS

CODE	DIAMETER	ARTICUL. BEAM LENGTH	PRICE
16400005	5.5 mm	2 m	
16400008	6 mm	2.5 m	
16400010	6.5 mm	3 m	
16400026	8 mm	3.5 m	

ELECTRONIC CONTROL UNIT (23010006)

ELECTRONIC CONTROL UNIT (23022005)

ACCESSORIES	QTY	CODE	PRICE
Articulated beam assembly RH 3 m kit	1	11902010	
Articulated beam assembly LH 3 m with kit	1	11902020	
Articulated beam assembly RH 3.5 m kit	1	11902005	
Articulated beam assembly LH 3.5 m kit	1	11902015	
Foundation plate	1	16200050	
Fork support	1	16200100	
Backplate for fork support	1	16200045	
External release with 2 keys	1	12710055	

**Notes:** The beams are all aluminum profile equipped in the lower part with a rubber edge.  
On request we can supply the stainless steel casing.  
**Please complete the dedicated form when purchasing the articulated beam.**

**Note:** The Vela Articulated operator is considered right-hinged if, when looking at the casing door accessing the motor, the rod is on the right; if the rod is on the left the operator is considered left-hinged.

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.



# VELA RAPID

## HYDRAULIC BARRIER

FOR CONTINUOUS USE RATE FOR BEAMS UP TO 3 METERS.



### Fast and Safe

Automatic electro-hydraulic barrier designed to control continuous use (100%) accesses.

It consists of an electro-hydraulic unit coupled with a spring balancing system that is hosted in a casing constructed from a cataphorized plate painted with epoxy powder.

The system is equipped with a lock device in opening and in closing as well as with a **hydraulic slowing-down device in opening and in closing**.

It is also provided with a safety anti-entrapment device ensured by adjusting the force with valves.

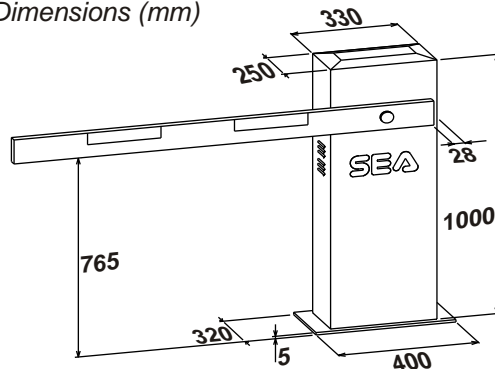
The top-quality materials employed and the construction technology **guarantee great reliability and long life**.

### Manual Release

In case of a power cut, a key allows the hydraulic locking to be released and the beam can be operated manually.



Dimensions (mm)



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	500W
Motor current	2 A
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Capacitor	35uF
Weight with oil	70 Kg
Oil quantity	1,5 lt
Protection class	Ip55

PRODUCT DESCRIPTION	QTY	CODE	BEAM	OPENING SIDE	PUMP	OPENING TIME	PRICE
VELA RAPID	1	11705020	2 m	RIGHT	2 l	1.5 seconds	
VELA RAPID	1	11705021	2 m	LEFT	2 l	1.5 seconds	
VELA RAPID	1	11705015	2.5 m	RIGHT	2 l	2 seconds	
VELA RAPID	1	11705016	2.5 m	LEFT	2 l	2 seconds	
VELA RAPID	1	11705010	3 m	RIGHT	2 l	2.5 seconds	
VELA RAPID	1	11705011	3 m	LEFT	2 l	2.5 seconds	

**Note:** On request we can supply the stainless steel casing.

### VELA RAPID PACKAGE

no. 1 Painted unit for casing and accessories equipped with Vela Rapid operator

no. 1 Electronic control unit code 23010014

no. 1 Balancing spring

no. 1 Kit of accessories for installation

no. 1 Release key

no. 1 Installation instructions and general notice

no. 1 Warning plate

### BALANCING SPRINGS

CODE	DIAMETER	LENGTH RECT. BEAM	ROUND BEAM LENGTH	PRICE
16400005	5.5 mm	2 m	2 m ÷ 2,5 m	
16400008	6 mm	2.5 m	3 m	
16400010	6.5 mm	3 m	-	

### ELECTRONIC CONTROL UNIT (23010014)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.

ACCESSORIES	QTY	CODE	PRICE
2-m rigid beam	1	11907020	
2-m round beam	1	11910020	
2.5-m rigid beam	1	11907025	
2.5-m round beam	1	11910025	
3-m rigid beam	1	11907030	
3-m round beam	1	11910030	
Coupling bracket round beam	1	12710083	
Foundation plate	1	16200086	
Fork support	1	16200100	
Backplate for support	1	16200045	
External release with 2 keys	1	12710055	

**Note:** The Vela Rapid operator is considered right-hinged if, when looking at the guard door accessing the motor, the beam is on the right; if the beam is on the left the operator is considered left-hinged.



## HYDRAULIC BARRIER

FOR LIGHT-DUTY USE RATE FOR BEAMS UP TO 7.5 METERS.

Automatic electro-hydraulic barrier designed for accesses for moderate traffic.

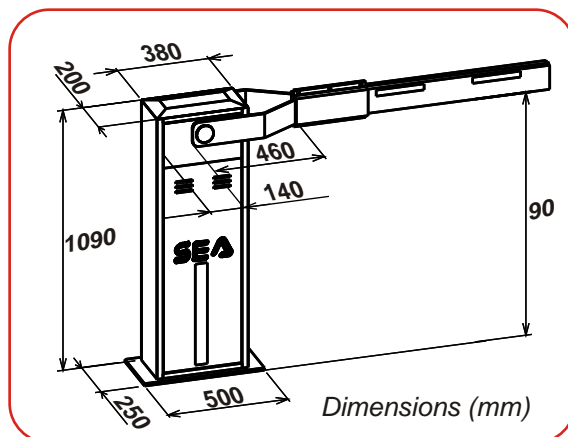
It consists of an electro-hydraulic unit coupled with a spring balancing system that is hosted in a casing constructed from a cataphorized plate painted with epoxy powder.

The system is equipped with a lock device in opening and in closing as well as with a **hydraulic slowing-down device in opening and in closing**. It is also provided with a safety anti-entrapment device ensured by adjusting the force with valves.

The top-quality materials employed and the construction technology guarantee **utmost strength, great reliability and long life**.

### Manual Release

In case of a power cut, a key allows the hydraulic locking to be released and the beam can be operated manually.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 5%
Motor power	230W
Motor current	1.1 A
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Capacitor	12,5uF
Weight with oil	73 Kg
Oil quantity	1,5 lt
Protection class	Ip55

PRODUCT DESCRIPTION	QTY	CODE	BEAM	OPENING SIDE	PUMP	OPENING TIME	PRICE
VELA INDUSTRIAL	1	11701005	5 m	RIGHT	2 l	8 seconds	
VELA INDUSTRIAL	1	11701020	5 m	LEFT	2 l	8 seconds	
VELA INDUSTRIAL	1	11701010	6 m	RIGHT	2 l	9.5 seconds	
VELA INDUSTRIAL	1	11701025	6 m	LEFT	2 l	9.5 seconds	
VELA INDUSTRIAL	1	11701015	7 m	RIGHT	2 l	11 seconds	
VELA INDUSTRIAL	1	11701030	7 m	LEFT	2 l	11 seconds	
VELA INDUSTRIAL	1	11701035	7.5 m	RIGHT	2 l	12 seconds	
VELA INDUSTRIAL	1	11701040	7.5 m	LEFT	2 l	12 seconds	

### VELA INDUSTRIAL PACKAGE

no. 1 Vela industrial operator mounted in a cased and painted cabinet

no. 1 Electronic unit code 23010006

no. 1 Balancing spring

no. 1 Kit of accessories for casing installation

no. 1 Kit for fork installation

no. 1 Installation instructions and general notice

no. 1 Warning plate

### BALANCING SPRINGS

CODE	DIAMETER	BEAM LENGTH	PRICE
66400005	10,5 mm	5 m	
66400010	11 mm	6 m	
66400015	12 mm	7 m	
66400020	12,5 mm	7,5 m	

### ACCESSORIES

ACCESSORIES	QTY	CODE	PRICE
5-m rectangular rigid barrier (4.5-m beam + support)	1	11905005	
6-m rectangular rigid barrier (5.5-m beam + support)	1	11905010	
7-m rectangular rigid barrier (6.5-m beam + support)	1	11905015	
7.5-m rectangular rigid barrier (7-m beam + support)	1	11905020	
Foundation plate	1	16200085	
Fixed fork support for Vela Industrial	1	16200105	
Adjustable fork support for Vela Industrial	1	16200125	
Pliable support for Vela Industrial beam	1	12710086	
Backplate for fork support	1	16200090	
External release with 2 keys	1	12710055	

**Notes:** The Vela Industrial operator is considered right-ward if, when looking at the casing door accessing the motor, the beam is on the right; if the beam is on the left the operator is considered left-ward. On request we can supply the stainless steel casing.

ELECTRONIC CONTROL UNIT (23010006)

ELECTRONIC CONTROL UNIT (23022005)

**Note:** The present catalog does not include other products that vary depending on pump capacity and/or power supply. For these products, the execution time and any charges are assessed on a case-by-case basis.





# VERG 24V

## ELECTRO-MECHANICAL BARRIER FOR HEAVY DUTY USE RATE FOR BEAMS UP TO 4 METERS.



Automatic 24V barrier for beams up to 4 m, with galvanized and polyester painted casing for outdoor application, resistant to any room temperature.

It is supplied with electronic slowdown in opening and closing, these features make the Verg 24V suitable for controlling traffic at various locations such as hospital, commercial car park, airport and entrance to estates.

The emergency batteries allow the functioning up to 100 cycles in case of power failure.

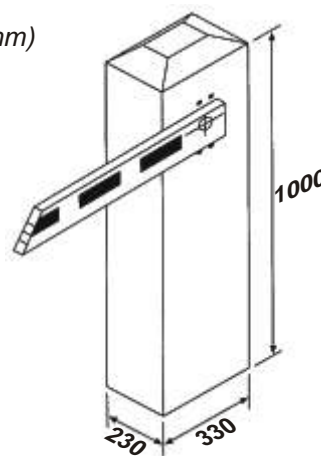
The opening and closing speed is 2 secs. And therefore it is advised for the entrances of Hospitals, Airport and Condominium.



### OPERATOR SPECIFICATION

Supply voltage	230 Vac ± 10%
Motor power	90W
Electric Motor	24 Vdc
Motor current	6 A
Operating temperature	-20°C +55°C
Thermal protection intervention	130°C
Cycles/hour	60
Weight	51 Kg
Protection class	Ip55

Dimensions (mm)



PRODUCT DESCRIPTION	QTY	CODE	OPENING TIME	MAX BEAM LENGTH	PRICE
VERG	1	11320006	2 seconds	from 2 m to 3 m	
VERG	1	11320020	3.5 seconds	up to 4 m	
VERG with articulated beam	1	11320025	3 seconds	up to 3 m	

### VERG PACKAGE

- no. 1 Unit for casing equipped with 24V Verg operator
- no. 1 Electronic unit code 93400020
- no. 1 Balancing spring
- no. 1 Kit of accessories for installation
- no. 1 Installation instructions and general notice
- no. 1 Warning plate

**Note:** Please complete the dedicated form when purchasing the articulated beam.

ACCESSORIES	QTY	CODE	PRICE
Rectangular barrier for 2-m Verg without rubber	1	11320135	
Rectangular barrier for 2.5-m Verg without rubber	1	11320140	
Rectangular barrier for 3-m Verg without rubber	1	11320145	
Rectangular barrier for 4-m Verg without rubber	1	11320150	
Foundation plate	1	16200053	
Fork support	1	16200100	
Backplate for fork support	1	16200045	
Balancing spring for 2 to 4 m long beam (for spare parts)	1	66499010	
Blunt-free rubber (4 m)	1	67001016	
Kit of right articulated beam max 3 m	1	11903005	
Kit of left articulated beam max 3 m	1	11903010	
7 AH battery	2	54710006	

APPARECCHIATURA ELETTRONICA (93400020)

# Management Systems

## Control Systems

## Safety Systems

## General Accessories

## Electronic control unit with microprocessor for Libra, Lyra, Vela and Ara

*ELECTRONIC CONTROL UNIT code 23022005*

<b>Supply voltage:</b>	230Vac±5%
<b>Accessories power supply:</b>	24VdcMax800mA
<b>Trimmer regulation:</b>	operating times - open pause time - Leaf delay in closing
<b>Logics selection:</b>	automatic-semiautomatic-safety device-dead man
<b>Pin header connector:</b>	radio receiver-auto-test cards for photocell-garden lights cards, traffic light card
<b>Main features:</b>	reversal, electronic lock management, pedestrian opening, management of photocells in opening, management of timer, pre-flashing, 230V flash, 24V flash, safety input



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## Electronic control unit with microprocessor for swing gates

*ELECTRONIC CONTROL UNIT code 23023007*

<b>Supply voltage:</b>	230 Vac ± 5%
<b>Accessories power supply:</b>	24V dc Max 200 mA
<b>Trimmer regulation:</b>	operating times - open pause time - Leaf delay in closing
<b>Logics selection:</b>	automatic - semiautomatic
<b>Pin header connector:</b>	radio receiver - auto-test cards for photocell
<b>Main features:</b>	pedestrian opening, 230V flash., safety input control



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## Electronic control unit with microprocessor for Mini Tank and Mini Lyra

*ELECTRONIC CONTROL UNIT code 23021055*

<b>Supply voltage:</b>	230 Vac ± 5%
<b>Accessories power supply:</b>	24V dc Max 200 mA
<b>Trimmer regulation:</b>	operating times - open pause time - Leaf delay in closing
<b>Logics selection:</b>	automatic - semiautomatic - safety device - dead man
<b>Pin header connector:</b>	radio receiver
<b>Main features:</b>	reversal, electronic lock device management, garden lights, 230V. Flash.



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## Electronic control unit with microprocessor for Mark Tank

*ELECTRONIC CONTROL UNIT code 23021070*

<b>Supply voltage:</b>	230 Vac ± 5%
<b>Accessories power supply:</b>	24V dc Max 200 mA
<b>Trimmer regulation:</b>	operating times - open pause time - Leaf delay in closing
<b>Logics selection:</b>	automatic - semiautomatic - safety device - dead man
<b>Pin header connector:</b>	radio receiver
<b>Main features:</b>	reversal, electronic lock device management, garden lights, 230V. Flash.



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# MANAGEMENT SYSTEMS

## Multifunction electronic control unit for sliding gates



### ELECTRONIC CONTROL UNIT code 23021005

<b>Supply voltage:</b>	230 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 800 mA
<b>Trimmer regulation:</b>	brake - pause time Leaf delay in closing - time-OUT
<b>Logics selection:</b>	automatic - semiautomatic - safety device - dead man
<b>Pin header connector:</b>	radio receiver - auto-test cards for photocell - garden lights cards, traffic light card
<b>Main features:</b>	pedestrian opening action, photocells control in opening, timer control, pre- flashing, electronic lock device, safety input control, 230V flash., 24V. flash.

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## Electronic control unit for Taurus 24 Vdc sliding gates



### ELECTRONIC CONTROL UNIT code 23001146

<b>Supply voltage:</b>	230 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 300 mA
<b>Trimmer regulation:</b>	Intervention threshold reg. anti-crushing device
<b>Logics selection:</b>	automatic - semiautomatic
<b>Pin header connector:</b>	radio receiver
<b>Main features:</b>	Anti-crushing reversal device - self-learning limit switch and pause time - slowing down in opening and closing - emergency batteries - 24V flash. - safety input control

## Electronic control unit for Taurus sliding gates



### ELECTRONIC CONTROL UNIT code 23001145

<b>Supply voltage:</b>	230 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 300 mA
<b>Trimmer regulation:</b>	open pause time and brake
<b>Logics selection:</b>	automatic - semiautomatic
<b>Pin header connector:</b>	radio receiver
<b>Main features:</b>	interface of LED visual control on all the inputs - removable terminal board - anti-crushing reversal device

# MANAGEMENT SYSTEMS

## Multifunction electronic control unit for sliding gates with THREE-PHASE motor

*ELECTRONIC CONTROL UNIT code 23021019*

<b>Supply voltage:</b>	380 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 800 mA
<b>Trimmer regulation:</b>	brake - pause time Leaf delay in closing - time-OUT
<b>Logics selection:</b>	automatic - semiautomatic - safety device - dead man
<b>Pin header connector:</b>	radio receiver - auto-test cards for photocell - garden lights cards, traffic light card
<b>Main features:</b>	pedestrian opening action, photocells control in opening, timer control, pre-flashing electronic lock device - safety input control, 230V flash. , 24V flash..

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## Elect. control unit with reversal device for sliding gates with THREE-PHASE motor

*ELECTRONIC CONTROL UNIT code 23001045*

<b>Supply voltage:</b>	380 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 300 mA
<b>Trimmer regulation:</b>	brake - pause time
<b>Logics selection:</b>	automatic - semiautomatic
<b>Pin header connector:</b>	radio receiver - auto-test cards for photocell
<b>Main features:</b>	interface of LED visual control on all the inputs - pedestrian opening, removable terminal board - Anti- crushing reversal device - safety control

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## Electronic control unit for barriers 24Vdc (Verg)

*ELECTRONIC CONTROL UNIT code 93400020*

<b>Supply voltage:</b>	230 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 400 mA
<b>Trimmer regulation:</b>	Intervention threshold anti-crushing device - slowing-down time in opening and closing , beam speed
<b>Logics selection:</b>	automatic - semiautomatic
<b>Pin header connector:</b>	radio receiver
<b>Main features:</b>	Anti-crushing reversal device, - slowing down in opening and closing - emergency batteries, - 24V flash. - safety input control - warning lamp

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## Electronic control unit for barriers (Vela - Vela Industriale) and overhead doors

*ELECTRONIC CONTROL UNIT code 23010006*

<b>Supply voltage:</b>	230 Vac $\pm$ 5%
<b>Accessories power supply:</b>	24V dc Max 300 mA
<b>Trimmer regulation:</b>	operating times - open pause time
<b>Logics selection:</b>	automatic - semiautomatic - safety device - dead man
<b>Pin header connector:</b>	radio receiver - auto-test cards for Photocell
<b>Main features:</b>	electronic lock control , 230V flash. - safety input control

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# MANAGEMENT SYSTEMS

## Electronic control unit for Barriers (Vela Rapida)



**ELECTRONIC CONTROL UNIT** Code 23010014

<b>Supply voltage:</b>	230 Vac ± 5%
<b>Accessories power supply:</b>	24V dc Max 300 mA
<b>Trimmer regulation:</b>	operating times - open pause time
<b>Logics selection:</b>	automatic - semiautomatic - safety device - dead man
<b>Pin header connector:</b>	radio receiver - auto-test cards for Photocell
<b>Main features:</b>	electronic lock control , 230V flash. - control of safety input

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## Multi-function ***IDIGITAL*** electronic unit for any type of gate and door

**NEW**



**ELETRONIC CONTROL UNIT** code 23021051

<b>Supply voltage:</b>	Switching feeder with possibility to supply the card with voltage ranging from 90 and 260Vac
<b>Accessories Power supply:</b>	12Vdc / 24Vdc Max 2 A (the accessories voltage is independent from the charge and from the voltage of the mains supply)
<b>Logics selection:</b>	automatic - semiautomatic - safety - with two buttons dead man - dead man with storage in closing -sequential
<i>Customizable through LCD display</i>	radio receiver - auto-test cards for Photocell - keypad decoder
<b>Pin header connector:</b>	management of silent electronic lock device in dc or suction cup, - flash. with flashing frequency programmable - warning lamp - no. 2 isolated programmable contacts - control of two motors one-phase or three-phase with external module, - torque adjustment or slowing down system with plug-in module - safety input control
<b>Main features:</b>	Alarm contact or diagnostic - download and upload configuration and diagnostics with RS 232 interface - storage and display last 10 errors
<b>Interfaces and diagnostic function:</b>	

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### COMPARATIVE TABLE OF SEA MANAGEMENT SYSTEMS FUNCTIONS

CONTROL UNIT	23022005	23023007	23021055	23001105	23001145	23001146	23021005	23001010	23021015	23010006	23010014	93400020	23021051
(1) Logics selection	AES-UP	A-E	A-E-S-UP	A-E	A-E	A-E	A-E-S-UP	A-E	A-E-S-UP	A-E-S-AC	A-E-S-AC	A-E	A-E-S-UP-AC
Reversal	x		x										x
Reversal on obstacle				x	x	x						x	x - (3)
Pedestrian opening	x	x		x			x	x	x				x
Photocell management in opening	x						x		x				x
Timer control	x						x		x				x
Pre/flashing	x						x		x				x
230V Flahing light	x	x - (2)	x - (2)	x - (2)	x - (2)		x - (2)	x - (2)	x - (2)	x	x		x
24V Flahing light	x					x	x		x			x	x
Leaf delay in opening	x	x	x										x
Leaf delay in closing	x	x	x										x
Gestione elettroserratura	x		x				x		x	x	x		x
Pause time adjustment	x	x	x	x	x	x	x	x	x	x	x	x	x
Expasion card contro	x						x		x	x	x		x
Connector for receiver plug in	x	x	x	x	x	x	x	x	x	x	x	x	x
Connector for plug in photocell card	x	x	x	x			x		x	x	x		x
Safety input	x	x	x				x		x	x	x		x
Warning lamp	x	x		x			x		x	x	x	x	x
Garden lights	x - (3)		x				x - (3)		x - (3)	x	x		x
Motor torque regulation			x										x - (3)
Emergency batteries control						x						x	x
Limit stop control				x	x	x	x	x	x	x	x	x	x
Slowing down						x							x - (3)
Suction cup control													x
Programmable inputs/outputs													x
Diagnostics													x
Firmware to be updated													x
Programmablefunctions													x
WIndrange 90 260V power supply													x

(1) A=Automatic logic; E=Semiautomatic logic; S=Safety logic; UP=Dead man logic; AC=Opening and Closing (2) =with Flashing cardt (3)=with External module

# CONTROL SYSTEMS

## 433MHz Transmitters and Receivers



TWO-CHANNEL SELF-LEARNING TRANSMITTER

**code 23110200**



FOUR-CHANNEL SELF-LEARNING TRANSMITTER

**Code 23110205**



ONE-CHANNEL SELF-LEARNING SUPERHETERODYNE RECEIVER 10 USERS PLUG-IN

**Code 23120003**



ONE-CHANNEL SELF-LEARNING SUPERHET. RECEIVE 10 USERS TO BE FITTED IN THE FLASHING LIGHT

**Code 23120012**



ONE-CHANNEL SELF-LEARNING SUPERHET. RECEIVER 10 USERS EXTERNAL WITH BOX AND ANTENNA

**Code 23120013**



TWO-CHANNEL SELF-LEARNING SUPERHET. RECEIVER 50 USERS PLUG-IN

**Code 23120155**



TWO-CHANNEL SELF-LEARNING SUPERHET. RECEIVER 50 USERS EXTERNAL WITH BOX AND ANTENNA

**Code 23120166**



TWO-CHANNEL SELF-LEARNING SUPERHET. RECEIVER 200 USERS TO BE FITTED IN THE FLASHING LIGHT

**Code 23120015**



TWO-CHANNEL SELF-LEARNING SUPERHET. RECEIVER 200 USERS EXTERNAL WITH BOX

**Code 23120025**



TWO-CHANNEL SELF-LEARNING SUPERHET. RECEIVER 800 USERS EXTERNAL WITH BOX

**Code 23120026**



ANTENNA WITH ANCHOR BRAKE AND 5 m COAXIAL CABLE (NOT TO BE FITTED IN THE FLASHING LIGHT)

**Code 23101030**



BLADE ANTENNA TO BE FITTED IN THE FLASHING LIGHT

**Code 23101025**



MEMORY MODULE FOR RECEIVER 200 USERS (IN PACKAGE OF 5 PCS)

**Code 23105111**



MEMORY MODULE FOR RECEIVER 800 USERS (IN PACKAGE OF 5 PCS)

**Code 23105112**



MEMORY MODULE FOR TERMINALS

**Code 23105113**



CODE MANAGEMENT TERMINAL EQUIPPED WITH:  
- SERIAL INTERFACE  
- MEMORY MODULE  
- FEEDER  
- 9V BATTERY  
-AC/DC ADAPTER

**Code 23105174**



CODE MANAGEMENT TERMINAL EQUIPPED WITH:  
- SERIAL INTERFACE  
- MEMORY MODULE  
- FEEDER  
- 9V BATTERY  
- SOFTWARE FOR CONNECTION PC MANAGEMENT  
-AC/DC ADAPTER

**Code 23105175**

# CONTROL SYSTEMS

## 868MHz Transmitters and Receivers



TWO-CHANNEL SELF-LEARNING TRANSMITTER

**code 23110305**



FOUR-CHANNEL SELF-LEARNING TRANSMITTER

**Code 23110310**



TWO-CHANNEL SELF-LEARNING SUPERHETERODYNE ROLLING CODE RECEIVER 50 USERS PLUG-IN

**Code 23120305**



ONE-CHANNEL SELF-LEARNING SUPERHETERODYNE ROLLING CODE RECEIVER 10 USERS PLUG-IN

**Code 23120300**



TWO-CHANNEL SELF-LEARNING SUPERHETERODYNE RECEIVER ROLLING CODE 800 USERS FOR THE OUTSIDE WITH BOX

**Code 23120340**



TWO-CHANNEL SELF-LEARNING ROLLING CODE SUPERHET. RECEIVER 50 USERS FOR THE OUTSIDE EQUIPPED WITH BOX AND ANTENNA

**Code 23120320**



TWO-CHANNEL TRANSMITTER WITH DIP SWITCH CODE

**Code 23110315**



FOUR-CHANNEL TRANSMITTER WITH DIP SWITCH ENCODING

**Code 23110320**



TWO-CHANNEL TRANSMITTER WITH DIP SWITCH ENCODING "ROBOT"

**Code 23110316**



TWO-CHANNEL EXTERNAL DIP SWITCH SUPERHET. RECEIVER FOR THE OUTSIDE WITH BOX AND ANTENNA

**Code 23120355**



ONE-CHANNEL SUPERHETERODYNE RECEIVER PLUG-IN DIP SWITCH

**Code 23120350**



ANTENNA WITH ANCHOR BRAKE AND 5 m COAXIAL CABLE (NOT TO BE FITTED IN THE FLASHING LIGHT)

**Code 23101065**



BLADE ANTENNA TO BE FITTED IN THE FLASHING LIGHT

**Code 23101060**



MEMORY MODULE FOR RECEIVER 800 USERS (IN PACKAGE OF 5 PCS)

**Code 23105112**



MEMORY MODULE FOR TERMINALS

**Code 23105113**



CODE MANAGEMENT TERMINAL EQUIPPED WITH:  
- SERIAL INTERFACE  
- MEMORY MODULE  
- FEEDER  
- 9V BATTERY  
- AC/DC ADAPTER

**Code 23105205**



CODE MANAGEMENT TERMINAL EQUIPPED WITH:  
- SERIAL INTERFACE  
- MEMORY MODULE  
- FEEDER  
- 9V BATTERY  
- SOFTWARE FOR CONNECTION PC MANAGEMENT  
- AC/DC ADAPTER

**Code 23105210**



## Buttons



SWITCHES

**Code SE-UPRA1-1T**



KEY SWITCH WITH EUROPEAN CYLINDER

**Code 23103010**



START-STOP KEY SWITCH

**Code SE-UPRA1-2T**



RADIO CONTROLLED KEY SWITCH

**Code 23103025**



PUSH BUTTON BOARD

**Code KCTL1XAPV**



BOARD PUSH BUTTON

**Code 23103045**



FLUSH MOUNTING PUSH BUTTON

**code 23103040**



VANDALISM PROTECTION DIGITAL SWITCH WITH 433 MHz RADIOFREQUENCY

**Code 23105166**



VANDAL RESISTANT PUSH BUTTON BOARD

**Code KCS13AV**



MAGNETIC CARD READER

**Code 23105045**



MAGNETIC CARD

**Code 23105140**



MAGNETIC KEY READER

**Code 23105040**



MAGNETIC KEY

**Code 23105015**



LOOP DETECTOR (UNDERGROUND) AND BASE

**Code 23105160**



SMS SWITCH BUTLER

**CONTACT SEA**

### GSMCOM Radio control



The device GSMCOM is a remote control and communication system operated via the GSM network using any remote installation (gate opening/closing, alarm enabling/disabling, garden light ON/OFF, etc.) and relying on the characteristics and advantages of digital transmission and reception. The system consists of a 9600-baud rate *dual band* GSM modem connected to a microprocessor control unit managing any information and the interface with the user. The programming unit is composed of a 2-line and 16-character display and four buttons. The device GSMCOM has been designed to control 4 outputs from a remote GSM device (cellular phone). In the case of information coming from 3 optical isolated inputs (alarm and monitoring systems), it is possible to send warning or alarm messages. Also available is a 433MHz rolling-code control unit via RF (similar to and compatible with a SEA radio command)

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**Code 23105162**

# SAFETY SYSTEMS

## Lighting Systems



PHOTOCELL FOTO 40  
FULL OPTICAL  
GROUP FOR OUTSIDE  
APPLIC.

**code 23102045**



AUTO-TEST CARD FOR  
FOTO 40 COMPLYING  
WITH STANDARDS  
(MACHINERY  
DIRECTIVE,UL)

**Code 23102050**



PHOTOCELL FOTO 50  
FULLY BUILT-IN  
OPTICAL GROUP

**Code 23102020**



SENSOR FOR  
PHOTOCELLS D.M.

**Code 23102005**



PLUG-IN CARD FOR  
PHOTOCELLS D.M.

**Code 23102025**



CARD FOR OUTSIDE  
APPL. FOR  
PHOTOCELLS D.M.

**Code 23102030**



PATENTED  
MECHANICAL  
SAFETY EDGE

**CONTACT SEA**



CABLE GUIDE FOR  
SAFETY EDGE

**CONTACT SEA**



HIGH BRIGHTNESS  
FLASHING LIGHT  
WITH FLASHING CARD

220 Vac

**Code 23104065**



HIGH BRIGHTNESS  
FLASHING LIGHT  
WITHOUT FLASHING  
CARD

24 Vdc

**Code 23104055**



SMALL FLASHING LAMP  
WITH CARD

220 Vac

**Code 23104006**



SMALL FLASHING LAMP  
WITHOUT CARD

24 Vdc

**Code 23104011**



TRAFFIC LIGHTS:  
RED-GREEN

**Code 23105150**



NEW FLASHING LIGHT  
*AVAILABLE FROM MAY  
2004*

**Code 23104006**



CARD FOR FLASHING  
LIGHT AND  
SMALL FLASHING LAMP

**Code 54020125**



TRAFFIC LIGHT  
INTERNAL CARD TO BE  
USED WITH UNITS:  
CODES 23022005 AND  
23021005

**Code 23105146**



CARD FOR SWITCHING ON  
GARDEN LIGHT FOR  
POWER UP TO 100W TO BE  
USED WITH UNITS: CODE  
23022005 AND 23021005

**Code 23105135**

# GENERAL ACCESSORIES

## Supports



SUPPORT FOR PHOTOCELLS  
FOTO 40

**code 12710015**



SUPPORT FOR PHOTOCELLS  
FOTO 50

**Code 16200010**



SUPPORT  
FOR KEY SWITCH

**Code 16200020**



SUPPORT  
FOR KEY SWITCH  
WITH EUROPEAN CYLINDER

**Code 12710020**



SUPPORT  
FOR MAGNETIC CARD READER

**Code 16200015**



GALVANIZED STEEL SUPPORT  
FOR KEY SWITCH

**Code STD-STAHL**



SEA YELLOW OIL  
5-L PACKAGE  
(ONLY FOR LEPUS AND  
ORION MODELS)

**Code 65000020**



SEA GREEN OIL  
5-L PACKAGE

**Code 65000025**



ELECTRIC LOCK FOR  
OPERATORS WITHOUT  
LOCK

**Code 16700030**



ELECTRIC LOCK VERTICAL  
220 V

**Code 16700045**



COUPLING PLATE FOR  
ONE-LEAF (HORIZONTAL)  
GATE

**Code 16700025**



COUPLING PLATE FOR  
TWO-LEAF GATE  
(VERTICAL)

**Code 16700020**



CYLINDER WITH KEY FOR  
INSIDE APPL.

**Code 16700015**



CYLINDER WITH KEY  
FOR OUTSIDE APPL.

**Code 16700010**



CALIBRATION KEY  
BY-PASS VALVE

**Code 66300119**



ADDITIONAL FEEDER

**Code 23105010**

# GENERAL ACCESSORIES

## Emergency unit STAR 500

**EMERGENCY UNIT FOR THE SECURITY OF THE ELECTRONIC CONTROL UNITS AGAINST DAMAGES CAUSED BY BLACK OUT.**

This unit can be used in case of power failure.

It protects the electronic control unit from sudden voltage variations ( up to 187 V).

The unit cancels temporary events which are present on the supply network by some filters.

In case of power failure the emergency unit STAR 500 allows the automation functioning, in opening and closing, up to 60 cycles in a row with 7 Ah batteries, 100 cycles in a row with 10 Ah batteries and 130 cycles in a row with 12 Ah batteries.



### TECHNICAL DATA

Informative loading power	VA 700
Power	W 500
Power supply	W 230+/-15% on request 110+/-15%
Frequency	Hz 50+/-5% on request 60+/-5%
Inverter intervention power	187 V +/-2%
Intervention time from network	less than 2-3 msec.
Switching time from UPS	less than 1 msec.
Inverter exit power	(PWM) 220 +/-5%, network synchrony (PLL) on request 110+/-50%
Inverter wave shape	Sinusoidal, distortion less than 10% both for 50 and 60 Hz +/-0.2%
On-off switch	UPS starting and exit
Battery protection fuse	A.FF 32 FF (super fast)
Entrance protection fuse	A.T 2.5
Inverter overloading protection	Electronic with led indication
Battery charger	Atten. stabilized power with limiter 0.5 A
Recharging time	about 10 hour with totally flat batteries indicated by led
Exit/entrance plug	by screw terminals
Total accumulator power	24 Vdc
Batteries	N. 2 AL pb hermetic 7 - 10 - 12 Ah on request
Work dampness	0.90% not condensing
Operating temperatures	0 +40° C
Indicator Led	network/operational/emergency/max exit/ off exit/min. battery/battery off
Box	metal - protection class IP20
Dimensions	340x354x140 (width. x depth. x height)
Weight without battery	10 Kg
Fixing	by 2 screws/wall hooks

### PRODUCT DESCRIPTION

PRODUCT DESCRIPTION	QTY	CODE	PRICE
STAR 500 EMERGENCY UNIT WITH TWO 7 AH BATTERIES	1	23105046	
STAR 500 EMERGENCY UNIT WITH TWO 10 AH BATTERIES	1	23105047	
STAR 500 EMERGENCY UNIT WITH TWO 12 AH BATTERIES	1	23105048	

### ACCESSORIES

ACCESSORIES	QTY	CODE	PRICE
7 AH BATTERY	1	54710006	
10 AH BATTERY	1	54710008	
12 AH BATTERY	1	54710009	

## DECLARATION OF CONFORMITY



**SEA**  
Sistemi elettronici  
di apertura porte e cancelli

SEA s.r.l.

Zona Industriale S. Atto  
64020 TERAMO - ITALY

The above company declares under its responsibility that the products:

LIBRA, LYRA, CETUS, ORION, LEPUS, TAURUS, SCUTI, ARA, VELA, ARES, ERG, VERG, SONG,

23022005, 23023007, 23021070, 23021055, 23021065, 23001105, 23001005, 23001145, 23021005, 23021015, 23001010, 2301006, 23010014, 93400020, 93400025, 23021051, 23105010, 23105130, 23105020, 23105100, 23105160, 23102025, 23102030, 23104065, 23104005, 23105146, 54020125, 23105135, 23102005.

23102045 e 23102020 in conjunction with 23102050

comply with the applicable essential requirements as provided for in the following European directives and sub-revisions (where applicable):

**89/392/CEE (Direttiva Macchine)**

**89/336/CEE (Direttiva Compatibilità Elettromagnetica)**

(Ref. Applied laws: EN 55014-1, serie EN 61000, EN 55022)

**73/23/CEE (Direttiva Bassa Tensione)**

(Ref. Applied laws: EN 60335-1)

Sea also declares under its responsibility that products:

23110200, 23110205, 23120003, 23120012, 23120013, 23120155, 23120166, 23120015, 23120025, 23120026, 23120027, 23105174, 23105175, 23103025, 23110305, 23110310, 23110325, 23110320, 23110316, 23120300, 23120305, 23120320, 23120340, 23120350, 23120355

meet the essential requisites provided for by the following European Directive and following changes:

**1999/5/CE (Direttiva R&TTE)**

**ETS 300 220**

**ETS 300 683**

Teramo lì, 25 Luglio 2003

The Managing Director

# 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 applicable as of 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 returns ex-works 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.

**4 ) PAYMENTS.** The accepted forms of payments are each time notified or approved by SEA. The interest rate on delay in payment shall be 1.5% every month, as well as any intervening damage.

**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 goods sold 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 send to SEA within 8 solar days from receipt of the goods, proved by adequate supporting documents as to their truthfulness.

**7 ) SUPPLY.** SEA supply is strictly limited to the goods it manufactures, 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 warranty for the hydraulic motors in oil-bath is of 36 mounths from the date of invoice; the electromechanical motors, the electronic devices and the systems of command are guaranteed for 24 mounths from the date of invoice; stated guarantees shall apply against manufacturing defects. In the case of defective products, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair center. 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 center with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labor 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 the case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo.

**SEA reserves the right to make any technical changes to improve its products, whether or not they are shown in this price list, at any time and without prior notice. SEA disclaims any responsibility deriving from possible inaccuracies contained in the price list herein, due to print errors and/or transcription. This price list cancels and replaces previous versions hereof.**

rev. 00 of 07/2003

