



AUTOMATIC ENTRANCE SPECIALISTS

Cross
Automatic systems for sliding gates



novotecnica

Automatic gates

Cross

Sliding gates are widely used because their linear movement means that they do not require large operating spaces. Their automation requires flexible geared motors able to cope with various sized gates, different

intensities of use, changing environmental situations, whilst always guaranteeing maximum conditions of safety, practicality and reliable operation. The Cross range has been designed bearing these principles in mind,

and can today be considered the most careful synthesis of the "state of the art", able to resolve all requirements for private, commercial and industrial use.

Product range

Gates up to 600 kg

Cs 61E

Non-reversible geared motor, with built-in control panel - Release system - Horizontal limit switch - Operates with a 230V AC power supply - Rack traction.



Cs 61E

Gates up to 1200 kg

Cs 122E

Geared motor with electrical halt and built-in control panel - Release system - Operates with a 230V AC power supply - Internal rotating limit switch - Maximum stroke 11 m - Heavy duty - Rack or chain traction (optional kit)

Cross 122E

Geared motor with electrical halt and built-in multifunctional control panel - Release system - Operates with a 230V AC power supply - Internal rotating limit switch - Maximum stroke 11 m - Heavy duty - Rack or chain traction (optional kit).

Cross 132

Geared motor with electrical halt - Release system - Operates with a 400V three-phase AC power supply - Internal rotating limit - Maximum stroke 11 m - Heavy use - Rack or chain traction (optional kit).

Gates up to 1500 kg

Cross 200

Non-reversible geared motor - Release system - Horizontal limit switch - Operates with a 400V three-phase AC power supply - Heavy duty - Rack traction.

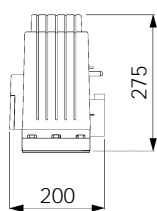


Cs 122E, Cross 122E, Cross 132

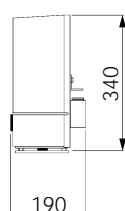
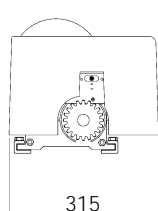
Technical specifications

Models:		Cs 61E	Cs 122E	Cross 122E	Cross 132	Cross200
Voltage of power supply	V	230	230	230	400	400
Motor-power	W	250	350	350	450	750
Current	A	2,0	3,0	3,0	1,2	3,5
Thrust motor geared	N	700	1200	1200	1500	2800
Linear speed	m/s	0,18	0,2	0,2	0,2	0,16
Jogging		S2-15min, S3-25% (230 V AC)		S2-30min, S3-50% (400 V AC)		

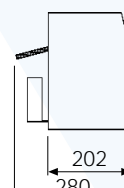
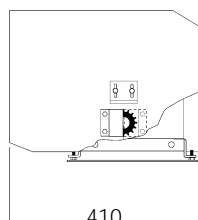
Dimensions (mm) and weight



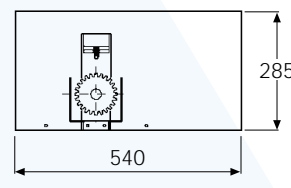
Cs 61E • 13,8 kg



Cs 122E • Cross 122E • 20 kg
Cross132



Cross 200 • 25 kg



Cs 61E

Construction features

The automatic system is composed of a geared motor unit, a release device, a limit switch unit, a control panel and a positioning system.

The **geared motor** consists of a sturdy motor, protected by a thermal switch and a reduction unit, with a vertical pinion transmission system with **permanent lubrication**, housed in sturdy pressure die-cast aluminium casings. As it is non-reversible, it keeps the gate closed **without the need for an electrical lock**.

The **release device**, protected by a special door with key, is equipped with a **microswitch** which prevents accidental electrical functioning when door is opened.

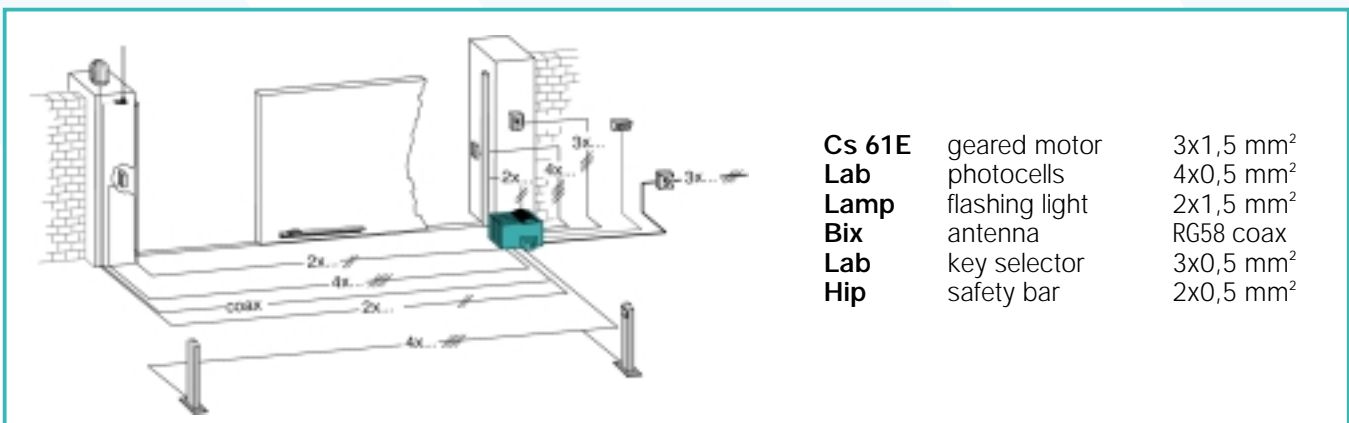
The **control panel** is located in such a way as to facilitate all the electrical connections to the control and safety accessories; it is protected by a convenient cover and is equipped with a handy **pull-out terminal board** which permits the complete bulk disconnection of all the external cabling.

The **positioning system** guarantees the motorized system a long working life because, in addition to permitting horizontal and vertical adjustments, it **enables successive regulation** to compensate for eventual structural subsidence of the gate.



- **CE European certification**
- **Elegant design**
- **Compact dimensions**
- **Electronic parts protected against lightning**
- **No maintenance required**
- **Easy release for manual operation in the case of power failure**
- **Effective obstacle detection device**

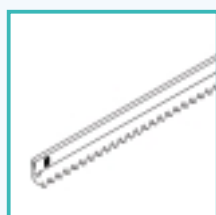
Positioning of the electrical wiring connections for Cs 61E - 230V AC



Racks



Cross CRN



Cross CRS



Cross CRI

Cross CRN Nylon rack with built-in spacers.

Cross CRS Galvanized pressed steel rack.

Cross CRI Galvanized drawn steel rack with spacers.

Cs 122E, Cross 122E and Cross 132

Construction features

Each automatic system is composed of a geared motor unit, a rotating limit switch, an electrical halt, a release device, a control panel (Cs 61E-Cross 122E) and a positioning system.

The **geared motor** consists of a sturdy motor, protected by a thermal switch, and a reduction unit, with vertical pinion transmission, which operates with **permanent lubrication**. As it is non-reversible, it keeps the gate closed **without the need for an electrical lock**.

The **rotating limit** switch is the ideal and innovative solution for handling the stroke of the sliding gate, up to 11 m.

The **electrical halt** limits the inertia of the gate in the presence of an obstacle, halting its movement within 30 mm. There is also an **anti-jerk device** which uncouples the crown/gear in the case in which the motor is strained beyond the preset limits, preventing the motor from breaking down and the gate from being damaged.

The motorized system has a **differentiated structure** as it is made up of two distinct parts: one made of pressure die-cast aluminium and the other made of thick steel sheet. This ensures a special structural elasticity so that in the event of the deterioration of the gate

castors, the weight of the gate does not rest on the gear, thus compromising the performance of the geared motor.

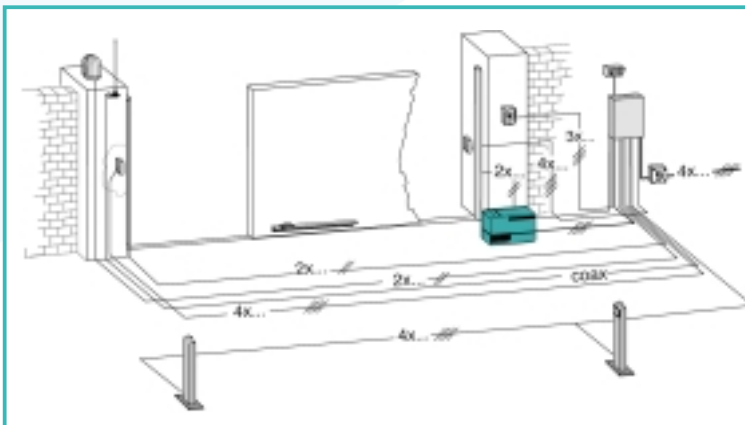
The functions of the control panel are very up-to-date, and include the particularly important **"self-testing" output** which is able to form an **"intrinsic safety system"** if associated with the AV cable winder and the Hip Sicur system.

The **release device**, for manual operation in the case of power failure and the **positioning system** of the motor are conceptually very similar to those of the Cs 61E model.



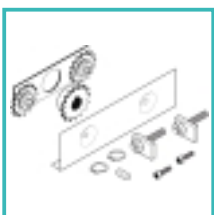
- **CE European certification**
- **Ultra-slim design**
- **A wide range to satisfy all requirements**
- **No maintenance required**
- **Electronic parts protected against lightning.**
- **Totally innovative technological solutions**
- **Effective obstacle detection device (Cs 122E - Cross 122E).**

Positioning of the electrical wiring connections for Cs 132 - 400V three-phase AC



Cross 132	geared motor	4x1,5 mm ²
Logic T	control panel	4x1,5 mm ²
Lab	photocells	4x0,5 mm ²
Lamp	flashing light	2x1,5 mm ²
Bix	antenna	RG58 coax
Lab	key selector	3x0,5 mm ²
Hip	safety bar	2x0,5 mm ²

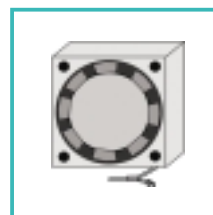
Specific accessories



Cross TC



Cat 1 - Cat G



Cross V

Cross TC Kit chain driving (Cs-Cross 122E/132)

Cat 1 1/2" chain

Cat G joint for chain

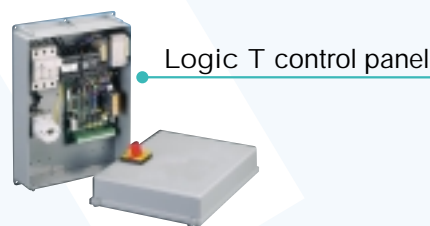
Cross V Ventilation kit (for Cs 122E-Cross 122E).

Cross

Principal features of the system

		Cs 61E	Cs 122E	Cross 122E	Cross 132-200*
• ODS obstacle detection	With adjustable sensitivity which causes the stop of the gate movement if an obstacle is detected.	✓	✓	✓	
• MPS Start-up at maximum power	Permits the motor to overcome any initial friction caused by ice, snow, sand, etc. After 1s, the device switches itself to the safety value preset by the installer.	✓	✓	✓	
• RF thrust regulator	Ensures the optimal thrust value for the gate in order to guarantee correct functioning	✓	✓	✓	
• Pre-flashing signal	Provides a 3s advance warning light of the movement of the gate	✓	✓	✓	✓
• Ready for radio fitting	Permits to plug-in a 1 or 2 channel receiver card available for various frequencies.	✓	✓	✓	✓
• Immediate radio re-closure	Possible even when the chosen function is positioned on timed "automatic closure".	✓		✓	✓
• Gate open signal light	Signals that the gate has not closed completely.	✓	✓	✓	✓
• Self-test output	Activates the testing of the "HIP Sicur" self-controlled safety devices before the start up of any manoeuvre of the halted gate. If its correct operation is confirmed, the manoeuvre is authorized.			✓	✓
• Partial opening	Permits the user to make use of a handy pedestrian opening.			✓	✓

* with the Logic T control panel.



Functions of the control panels

Models:	Cs 61E	Cs 122E	Cross 122E	Cross 132/200
Control panel	built-in	built-in	built-in	Logic T
Power supply voltage of geared motor	230 V AC	230 V AC	230 V AC	400 V AC
RF - thrust regulator	✓	✓	✓	
ODS - Obstacle detection	✓	✓	✓	
24V DC power supply output to accessories	✓	✓	✓	✓
Automatic closure			✓	✓
Step-by-step			✓	✓
Step-by-step or open-close/autom. closure	✓	✓		
Partial opening			✓	✓
Flashing light output	✓	✓	✓	✓
Pre-flashing signal	✓	✓	✓	✓
Provision for limit switch	✓	✓	✓	✓
Gate open signal light	✓	✓	✓	✓
Safety devices	✓	✓	✓	✓
Self-test safety provision			✓	✓

Accessories

All automatic systems must be completed with control and safety devices possessing all the requirements for functioning and electromagnetic compatibility prescribed by the regulations.

In addition to manufacturing devices which are mutually compatible because they are designed "one for the other", and which guarantee the maximum safety of the system, NOVOTECNICA

have also taken aesthetic requirements into consideration. Indeed, thanks to its elegant design, the accessories range fits in well with both modern and period-style surroundings.

Hip Sicur and AV system
Photocells for safety bars which check the efficiency of the mobile bar before each manoeuvre. They ensure the safe operation of the gate through the operating consent obtained from the self-testing circuit of the control panel through a cable winder device.



Lab
Photocells operating with modulated infrared rays to permit the automatic system to operate at the maximum level of safety.



Bix
Opening and closing the gate becomes even easier with a remote control device. There is no need to remove your hands from the steering wheel of your vehicle, and you can control the automatic system of the gate and other devices such as the garden lights and the burglar alarm of the house with one or two flashes. If instead you wish to use other new generation self-learning radio frequency systems, featuring 16 million combinations, the following devices are available:

- Attractively designed miniature remote controls, with single code, and relative receivers, CEPT T/R 01.04 type-approved;
- "Rolling-code" miniature remote controls which make the detection and duplication of the code practically impossible, due to its continual variation.



Hip
Rubber bars designed to guarantee the safe operation of the gate.



Lab 55
Key selectors with an anti-burglary system. Models available for both wall mounting and embedding.



Lamp
Elegantly designed flashing light, used to signal the movement of the gate.



Lan 4
Digital non-volatile programmable combination selector, in an anti-vandal steel casing.



Regulations

DITEC automatic systems possess the CE mark and are designed and built in compliance with the safety requirements of the Machines Directive (89/392/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC).

DITEC S.p.A. reserve the right to make modifications aimed at improving the products.

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