

**CUPPON**

**20.**  
**YEAR**





[www.sinuselektronik.com](http://www.sinuselektronik.com)



**01** SMART HOME



**02** AUTOMATIC DOOR



**03** MOTOR SYSTEMS



**04** SHUTTER UPS



**05** REMOTE CONTROLLER



**06** RECEIVER



**07** GARAGE OPENER



**08** WELDING MACHINE

**1998****First Production**

Our journey as Sinus Electronics started with the production of the first Regulator and Uninterruptable Power Supply under the name of Sinus Electronics brand in 1998, Karaköy.

**2009****First Factory**

In 2009, in order to compete with our national and international competitors, a new production plant was built in Ümraniye, Istanbul. Smd and TH code lines were established and production activities were performed into the plant. At the same plant, the production of automatic door systems was started in 2011.

**2002****First Export**

We first start to export our product to Europe market in 2002. We enter a new market with our Shutter UPS systems. In order to increase our product sales to new markets, we develop our technology with the newest.

**2019****New Investments**

In 2014, a new brand titled "Cuppon" was created with the idea of creating a global brand. A new modern production plant was established in 2019 in Umraniye-Istanbul, with a closed area of 2,500 square meters. As a result of our decision to grow with the new sector and new products, "Cuppon Smart Home" brand went into action in the Smart home systems industry.



## CORPORATE

SINUS ELECTRONICS is a leading company in its sector founded in 1998 in order to carry out production, marketing and technical service activities of CUPPON engine systems, shutter ups, controller, receivers, inverter welding machine in line with the needs that occur in door automation and power electronics industry.

In later years, Sinus Electronics which increases its product range and adapt itself in parallel with the latest developments in technology, started to manufacture automatic sliding door systems, remote controller, receiver unit and inverter welding machine as well as shutter ups. Our company, with its ever-increasing experience, reached innovative, creative, respected and accredited position by manufacturing highly competitive devices

Our company, which has a dynamic staff of 50 people, takes firm steps towards being a company serving worldwide by organizing continuous trainings and following all developments in the sector.

## OUR VISION

Our vision is to take part in electronics industry as being a model and leader company with not only our product quality but also our service mentality and to spread CUPPON brand in the worldwide.

Our values:

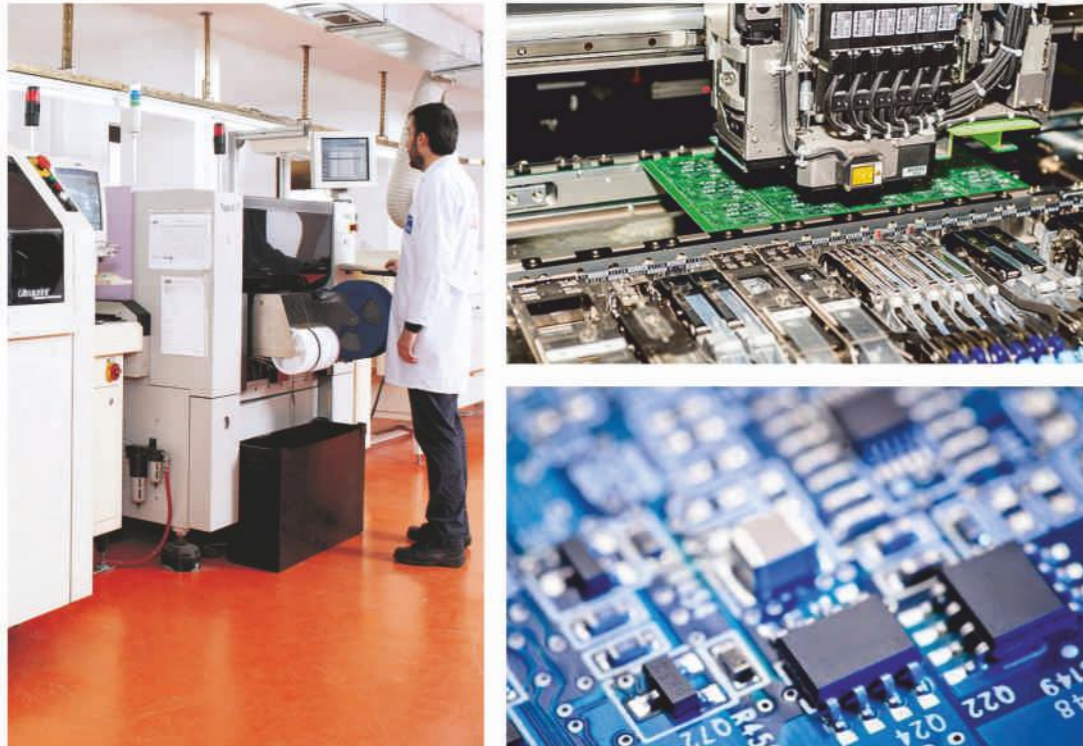
- Being open to change and development,
- Being customer- and quality-oriented,
- Doing accurate and fair business,
- Believe in teamwork,
- Being devoted,
- Being reliable,

## OUR MISSION

Our mission is to become a company that creates value for our country, customers and employees.

Our critical success factors:

- Customer satisfaction,
- Employee satisfaction,
- Clean and hygienic environment,
- Strong financial structure and communication
- Product quality
- Continuous improvement



### SMD Code

As Sinus Electronics, we provide rapid and quality solutions with single- and double-sided electronic cards in ESD-controlled environment, conforming to the IPC standards, with 30.000 pcs/hour capacity in state-of-art our SMD assembly line. Depending on the customer's request, leaded or lead-free soldering processes as well as glue are carried out in SMD code.

Thanks to the detailed temperature control features of our 12-zone (9 heating zone -3 cooling zone) oven, the processes of only soldering, only glue, or both and/or soldering on both sides of the same card can be performed on our PCB line coded with SMD.

The cards on which SMD code baking has completed and are examined in terms of solder, skewness, direction using the high-resolution (AOI) Automatic Optical Inspection devices in a very fast and error-free manner and if an error is detected in the production process after this inspection, the defective cards are revised and corrected.

The materials to be used in the cards can be supplied by our company or our customers. Our customers' materials are kept in their special shelves in our storage and our customers are informed through the forms indicating stock and need status in production planning phase.

### SMD Code Criteria:

Component Height: 25 mm Min.

Component Measure: 01005

Component Code Sensitivity: 50m@ Laser Centering / 30mm@ Vision Centering Component

Drawing Range: 1.0x5 mm - 74x74 mm

Lineable PCB Measure: Max. 700 x 460 mm / Min. 50 x 40 mm



### TH Code

Regarding TH materials prepared in cutting and forming machines, after their code is made to the cards in manual coding lines, leaded or lead-free soldering process is performed by pre-heat type double wave solder machine. In soldering processes, a perfect manufacturing procedure is enabled with the most suitable soldering profile in order to avoid Flux wastes and short circuit on cards.

We provide rapid and quality solutions to our customers with a code capacity of 3000 components per hour on true hole code line. The values, directions and soldering qualifications of the components on the coded cards are controlled manually.

### Material Supply

In line with our customers' demand, we carry out PCB, elect., deficient component or full component supply for the electronic cards which we will produce.

We are aiming to purchase the correct component with the best cost from its alternatives by carrying on a meticulous study during the whole purchasing process. The compatibility of outsourced production materials with quality standards is checked by our incoming quality control personnel and the result obtained is recorded to the stocks by being transferred to the production department.

Besides, incoming quality control department gives information to the purchasing department in order to take the inventory of materials brought by customers and to supply the deficiencies.



### R&D:

Sinus Electronics is a leading company with its products and technology that makes a difference in its sector. We regard our R&D activities as a basis of our production strategies. We provide project designing or technical support services with our experienced electronic engineers and trained personnel. In this context, we provide the following services:

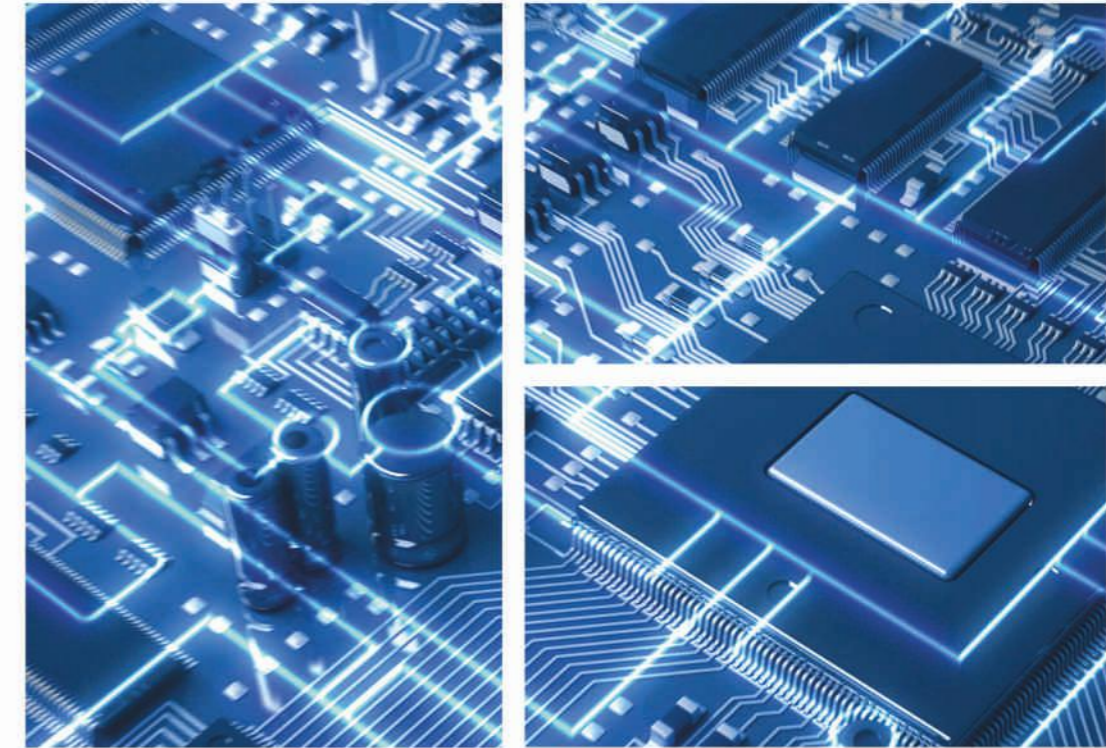
- \*Improving the current design,
- \*PCB (Electronic card) design or adjustment
- \*Building a prototype
- \*Electronic card modernization (TH-SMD Conversion)
- \*Making ready for mass production.

### Electrical Test

Electrical and function tests can be performed in accordance with the procedure determined by the customer.

### Mounting- Packaging and Shipping

Mounting and cabling processes are conducted in accordance with the technical documents specified by customer and the cards processed are wrapped and packaged using anti-static materials. The packaged products are shipped with our company's vehicles in Istanbul. For our customers outside of Istanbul, products are sent via contracted courier company.



### Our Suppliers

Regarding the products that we produce as Sine Electronics, we become more stronger by supplying the products of the world's leading companies having high product quality and brand value. We make collaborations and business partnerships with a wide range of suppliers both in production and other processes.

**SAMSUNG** **Panasonic** **SHARP** **TOSHIBA** **SCHRACK**  
TECHNIK

**TEXAS** INSTRUMENTS **infineon** **Atmel** **QUECTEL**  
Wireless Module Expert

**NXP** **MICROCHIP** **PANJIT** **NORDIC** **ST**  
SEMI CONDUCTOR SEMICONDUCTOR

# R&D

Sinüs Elektronik, future technologies closely by making a continuous difference in the industry, products and a leading technology companies are. Projects you have developed we will be happy to implement.

**IMAGINE**

**DESIGN**



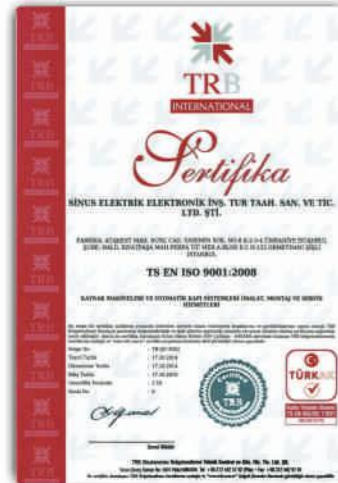
**PRODUCE**



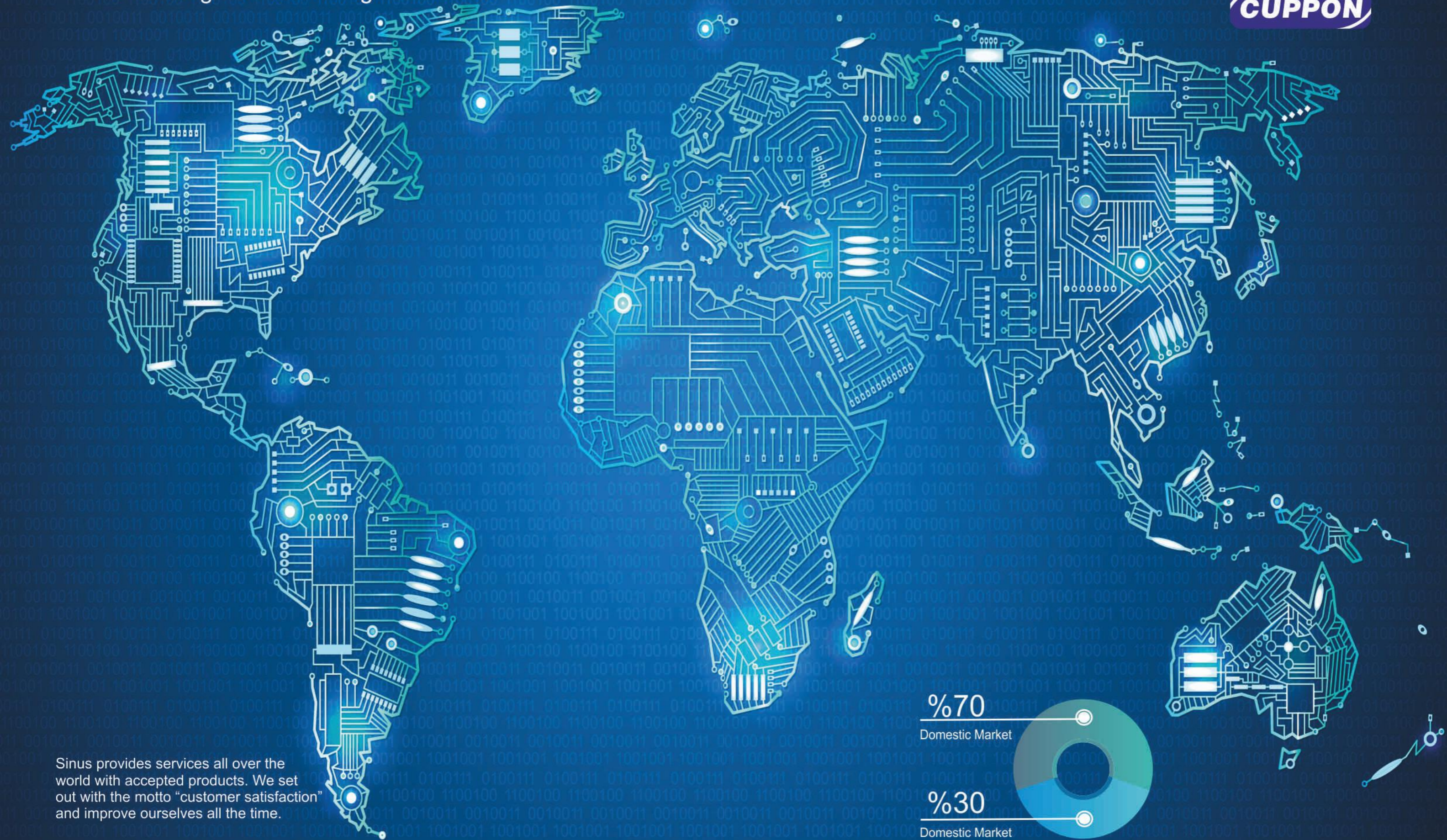




Certificates

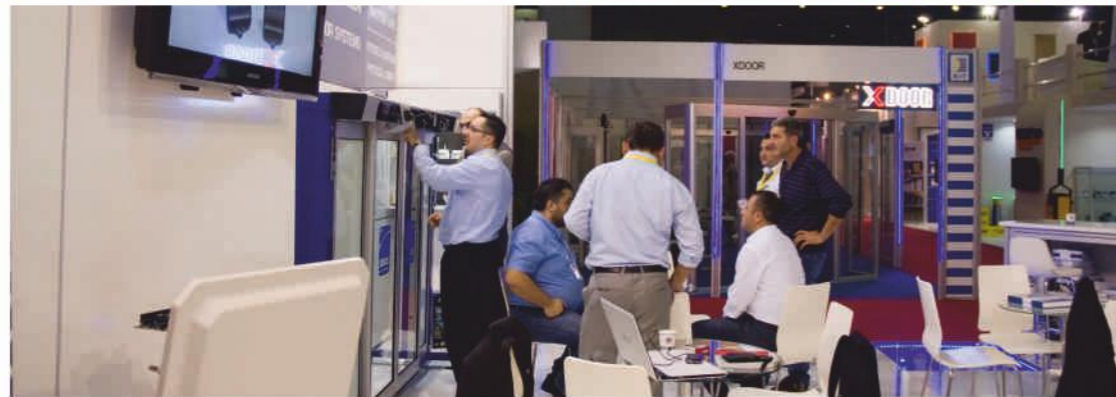
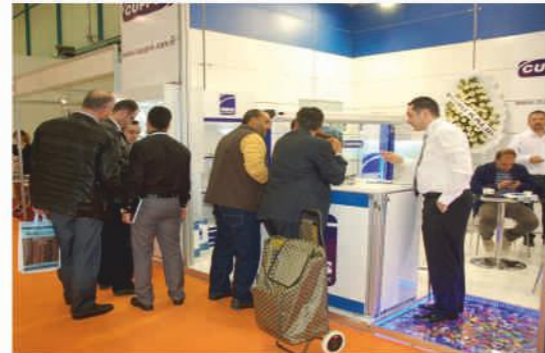


Forwarding with technological ideas...



Sinus provides services all over the world with accepted products. We set out with the motto "customer satisfaction" and improve ourselves all the time.





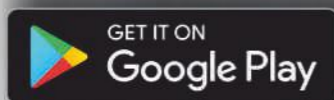




**SMART HOME  
SYSTEMS**

SMART HOME  
SYSTEMS





### What is Smart Home?

**Smart Home Systems** are designed to make people's dreams easier, to make life more comfortable, to provide energy efficiency and to increase safety.

As a consequence of the rapid development in home technologies and the internet, **Smart Home Systems** have been able to control many systems and detect external sensor data and make decisions and reacts accordingly.

Automatization of certain routine tasks by using **Smart Home Systems** will enable to ease the hard day's jobs, to increase the human productivity and life comfort, and to save time and energy in the work done.



### What does a Smart Home System make?

- It directs: Smart Home directs the person who rings the bell while you're away to your mobile phone, enable you talking with the said person, and also creates the impression that you're at home against malicious people.
- It detects: Smart Home detects theft, sabotage, fire, extortion and emergency medical conditions and takes necessary precautions.
- It takes precautions: Smart Home detects gas and water leak and closes the concerning valve and notifies you.
- It deters: Smart Home gives the impression that someone is at home by opening and closing lights and curtains when you're not at home, thereby provides a deterrent effect to malicious people.

Cuppon Smart Home enriches your life. With a single touch, you can make your life more comfortable, safe and economical. Thanks to the Cuppon Smart Home, you can control your lights, curtains, television, home temperature, water, electricity, gas, doors and security system as you wish. Your life is now in your hands. The Cuppon Smart Home application is compatible with iOS and Android.

People from all ages can control their house with the user-friendly application and interface of Cuppon. Whether you are on a business trip, on holiday or shopping, you can remotely control your home with your mobile phone and secure your home from anywhere in the world.







**CUPPON**



**AUTOMATIC DOOR  
SYSTEMS**

AUTOMATIC DOOR  
SYSTEMS

**CSD 250**



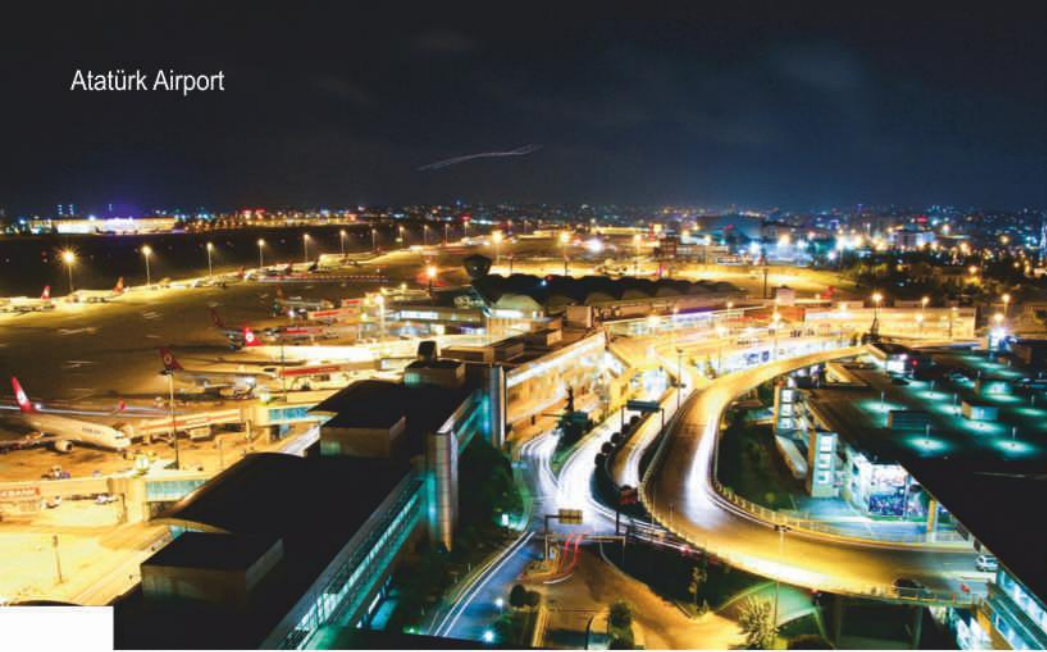
**CSD 200**



**CSD 150**



Atatürk Airport



Malatya Airport



Mall of İstanbul AVM



Akademi Hospital



Medical Park Hospital



Kırklareli State Hospital



Bayrampaşa Municipality



Crowne Plaza



Bahçelievler Municipality



Goodwood Press & Media England



BIDV Bank Vietnam



University Hochiminh Vietnam



# Smart

Automatic sliding door systems automatically adjust themselves by detecting the appropriate speed and distance with a self-learning system in single or double leaf mechanisms.

## CSD 250 AUTOMATIC SLIDING DOOR



# Functional

CSD 200 automatic sliding door system provides excellent ease of use with its unique designed multifunction LCD display control system and is easy to install with modular joint elements.

## CSD 200 AUTOMATIC SLIDING DOOR



## CSD 150 AUTOMATIC SLIDING DOOR



# Safe

CSD 200 automatic sliding door system offers you an battery alternative against power cut. You can have manual or electronic lock option with the electromechanical lock system developed for your safety.

# Fast

automatic sliding door systems have high performance and efficiency operation ability. You can control your door via your mobile phone with the Bluetooth module (optional).

## AUTOMATIC DOOR SYSTEMS

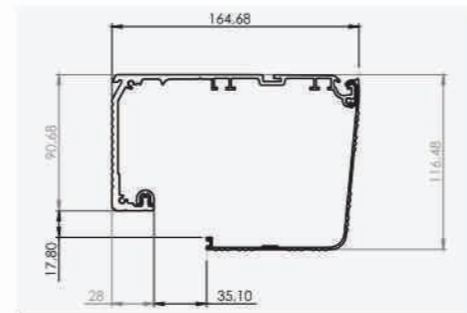
# CSD 250



EN16005



- 100% Turkish made product
- 1.000.000 Cycle on/off
- Turkish-English-France-Arabic-Russian language support
- Able to connect for building automation systems
- Emergency exit button (optional)
- Wireless control panel (optional)
- Position key switch (optional)
- Wi-Fi communication (optional)
- Interlock communication



Aluminium Chassis Dimensions

## AUTOMATIC DOOR SYSTEMS

### Technical Properties

Operating Voltage	230 V AC ± %10 50 Hz
Current Draw	0,6 A
Engine Voltage & Power	24 V DC - 95 W
Opening Speed (Adjustable)	0.9 m/h
Closing Speed (Adjustable)	0.7 m/h
Staying Open Duration	0-99 seconds
Maximum Leaf Weight	100 kg (1 leaf), 100+100 kg (2 leaves)
Operating Temperature	Between -15°C and 60°C
Failure Reporting Warning	Led Light Warning On Manual Installation Panel Error Code And Sound Warning On Wireless Control Panel
Protection Level	IP 20 (only for dry environments)
Language Properties	Turkish & English

### Aluminium

Aluminium Chassis Dimensions	3.5 / 4.5 / 6.5 meter
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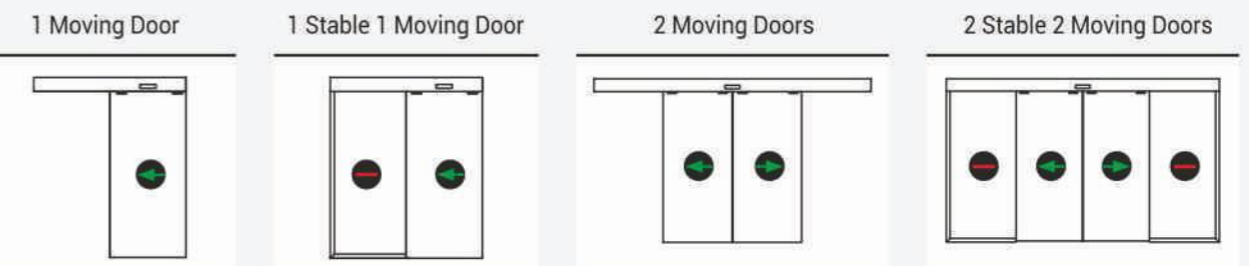
### Operation Modes

Permanent Open	●	Permanent Close	●
Only Input	●	Only Output	●
Automatic Operation	●	Half Opening	●
Night Mode	●		

### Additional Properties

Engine Lock	●	Extra Radar	○
Adjustable Speed	●	Curtain Photocell Microwave Radar	○
Adjustable Distance	●	Opening-Closing with Remote Controller	○
Adjustable Staying Open Duration	●	PC Connection	○
Adjustable Operation Time	●	Electromechanical Lock	○
Audible Alarm	●	Battery Module	○
Self-Positioning	●	Hand Sensor	○
Photocell	●	Bend Button	○
Interlock System	○	Thumbwheel Switch & RF Card Reader	○
Extra Photocell	○	ID Card Transition	○
Length Photocell	○	Compatibility with Smart Home System	○
Wireless Control Panel	○	Manuel Control Panel	○
Position Key Switch	○		

● Available ○ Optional



Installation and User Manual Available

## AUTOMATIC DOOR SYSTEMS

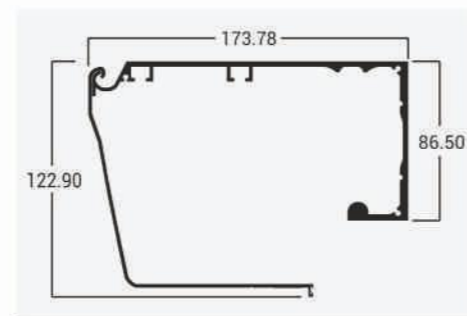
# CSD 200 CE EN16005



### Optional Accessory



- 100% domestic production and software system developed by Turkish engineers
- 1.000.000 Cycle on/off
- Compression sensor system
- Turkish and English menu interface
- Design suitable for building automation (alarm and fire exit)
- Easy installation and parameter adjustment with digital position switch
- Interlocking system between two door
- Suitable for smart home system



Aluminium Chassis Dimensions

## AUTOMATIC DOOR SYSTEMS

### Technical Properties

Operating Voltage	230 V AC ± %10 50 Hz
Current Draw	0,6 A
Engine Voltage & Power	24 V DC - 95 W
Opening Speed (Adjustable)	0.9 m/h
Closing Speed (Adjustable)	0.7 m/h
Staying Open Duration	0-99 seconds
Maximum Leaf Weight	100 kg (1 leaf), 100+100 kg (2 leaves)
Operating Temperature	Between -15°C and 60°C
Kit Dimensions & Weight	60 x 30 x 12 cm / 13 kg
Failure Reporting Warning	With trouble code and sound via LCD screen
Protection Level	IP 20 (only for dry environments)
Language Properties	Turkish & English

### Aluminium

Aluminium Chassis Dimensions	3.5 / 4.5 / 6.5 meter
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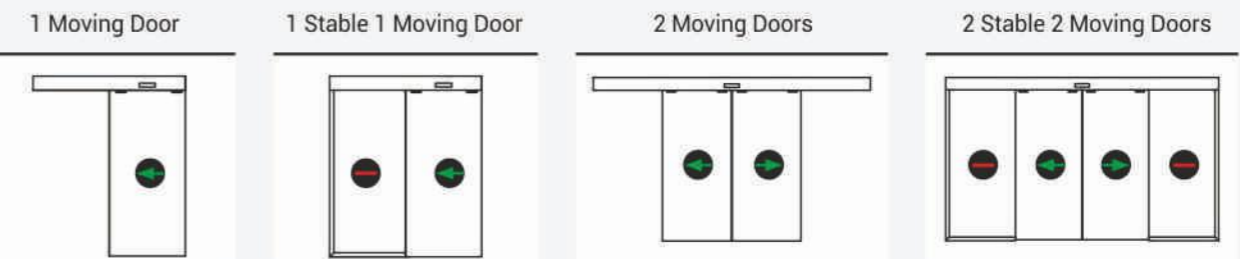
### Operation Modes

Permanent Open	●	Permanent Close	●
Only Input	●	Only Output	●
Automatic Operation	●	Half Opening	●
Night Mode	●		

### Additional Properties

Engine Lock	●	Extra Radar	○
Adjustable Speed	●	Curtain Photocell Microwave Radar	○
Adjustable Distance	●	Opening-Closing with Remote Controller	○
Adjustable Staying Open Duration	●	PC Connection	○
Adjustable Operation Time	●	Electromechanical Lock	○
Audible Alarm	●	Battery Module	○
Interlock System	●	Hand Sensor	○
Self-Positioning	●	Bend Button	○
Photocell	●	Thumbwheel Switch & RF Card Reader	○
Extra Photocell	○	ID Card Transition	○
Length Photocell	○	Compatibility with Smart Home System	○

● Available ○ Optional



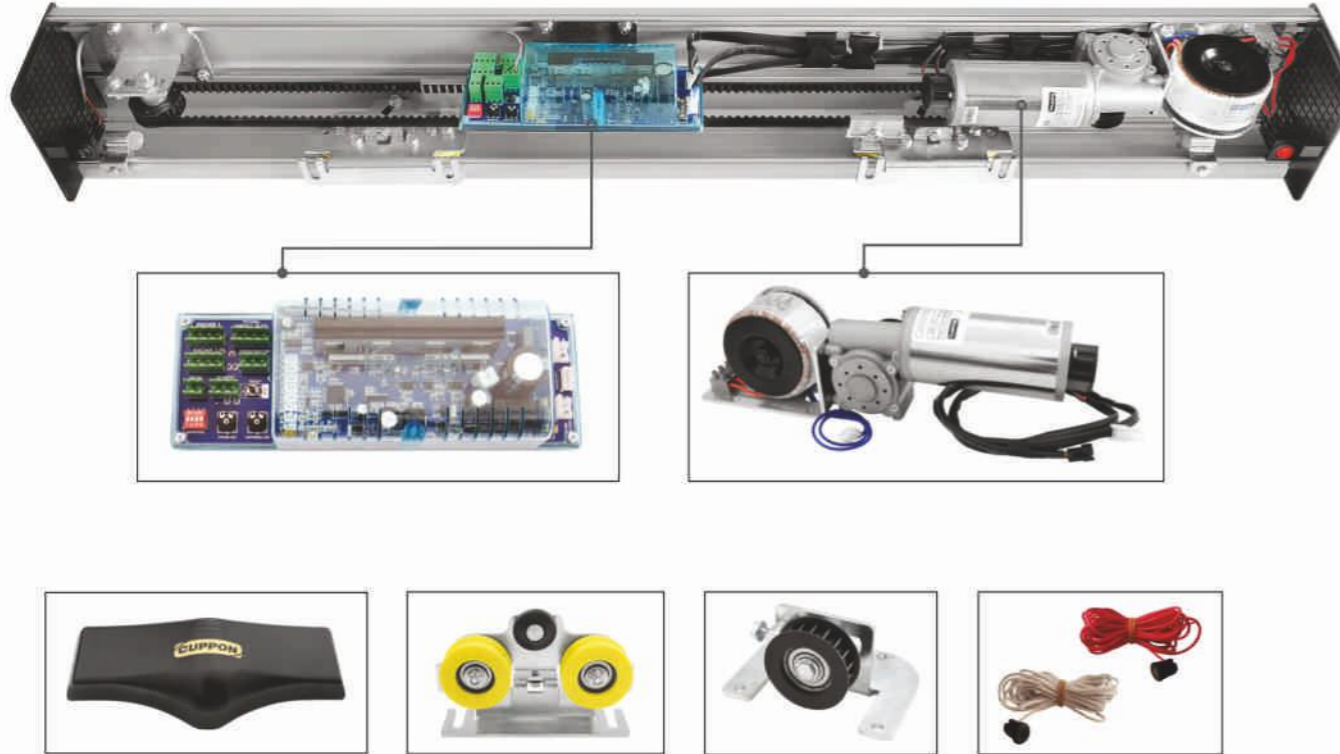
Installation Video Available



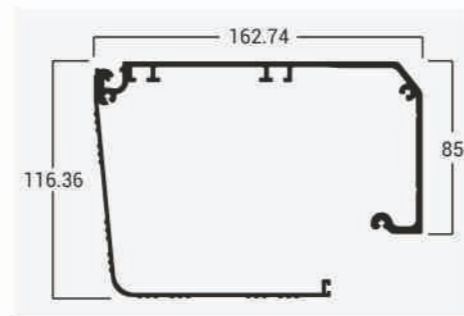
Installation and User Manual Available

## AUTOMATIC DOOR SYSTEMS

# CSD 150 CE EN16005



- 100% domestic production and software system developed by Turkish engineers
- 1.000.000 Cycle on/off
- Compression sensor system
- Easy Installation with a single touch
- Design suitable for building automation (alarm and fire exit)
- Suitable for smart home system



AluminiumChassis Dimensions

## AUTOMATIC DOOR SYSTEMS

### Technical Properties

Operating Voltage	230 V AC ± %10 50 Hz
Current Draw	0,6 A
Engine Voltage & Power	24 V DC - 95 W
Opening Speed (Adjustable)	0.9 m/h
Closing Speed (Adjustable)	0.7 m/h
Staying Open Duration	3 & 5 seconds (two-stage with switch)
Maximum Leaf Weight	75 kg (1 leaf), 75+75 kg (2 leaves)
Operating Temperature	Between -15°C and 60°C
Kit Dimensions & Weight	50 x 30 x 15 cm / 11 kg
Failure Reporting	Led display on main board
Protection Level	IP 20 (only for dry environments)
Language Properties	Turkish & English

### Aluminium

AluminiumChassis Dimensions	3.5 / 4.5 / 6.5 meter
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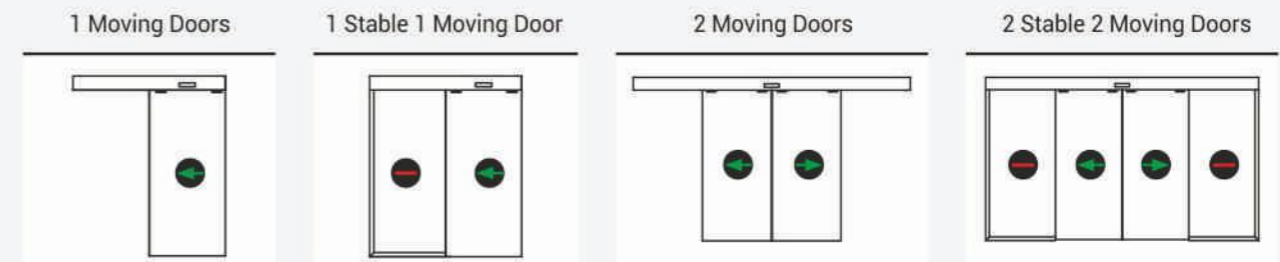
### Operation Modes

Permanent Open	●	Permanent Close	●
Only Input	●	Only Output	●
Automatic Operation	●	Half Opening	●

### Additional Properties

Engine Lock	●	Curtain Photocell Microwave Radar	○
Adjustable Speed	●	Opening-Closing with Remote Controller	○
Adjustable Staying Open Duration	Two-stage with switch	Hand Sensor	○
Self-Positioning	●	Bend Button	○
Photocell	●	Thumbwheel Switch & RF Card Reader	○
Extra Photocell	○	ID Card Transition	○
Length Photocell	○	Compatibility with Smart Home System	○
Extra Radar	○		

● Available ○ Optional



## AUTOMATIC DOOR SYSTEMS

### Automatic Sliding Door Comparing Table

Technical Properties	CSD 200 Automatic Sliding Door	CSD 150 Automatic Sliding Door
Operating Voltage	230 V AC ± %10 50 Hz	230 V AC ± %10 50 Hz
Current Draw	0,6 A	0,6 A
Engine Voltage & Power	24 V DC - 95 W	24 V DC - 95 W
Opening Speed (Adjustable)	0.9 m/h	0.9 m/h
Closing Speed (Adjustable)	0.7 m/h	0.7 m/h
Staying Open Duration	0-99 seconds	3 & 5 seconds (two-stage with switch)
Maximum Leaf Weight	100 kg (1 leaf), 100+100 kg (2 leaves)	75 kg (1 leaf), 75+75 kg (2 leaves)
Operating Temperature	Between -15°C and 60°C	Between -15°C and 60°C
Kit Dimensions & Weight	60 x 30 x 12 cm / 13 kg	50 x 30 x 15 cm / 11 kg
Failure Reporting	Warning with trouble code and sound via LCD screen	Led display on main board
Protection Level	IP 20 (only for dry environments)	IP 20 (only for dry environments)
Language Properties	Turkish & English	Turkish & English
<b>Aluminium</b>		
Aluminium Chassis Dimensions	3.5 / 4.5 / 6.5 meter	3.5 / 4.5 / 6.5 meter
<b>Operation Modes</b>		
Permanent Open-Close	●	●
Only Input-Output	●	●
Automatic Operation	●	●
Half Opening	●	●
Night Mode	●	X
<b>Additional Properties</b>		
Engine Lock	●	●
Adjustable Speed	●	●
Adjustable Distance	●	X
Adjustable Staying Open Duration	●	Two-stage with switch
Adjustable Operation Time	●	X
Audible Alarm	●	X
Interlock System	●	X
Self-Positioning	●	●
Photocell	●	●
Extra Photocell	○	○
Length Photocell	○	○
Extra Radar	○	○
Curtain Photocell Microwave Radar	○	○
Opening-Closing with Remote Controller	○	○
PC Connection	○	X
Smart Home System	○	○
Electromechanical Lock	○	X
Battery Module	○	X
Hand Sensor	○	○
Bend Button	○	○
Thumbwheel Switch & RF Card	○	○
ID Card Transition	○	○

● Available ○ Optional X Unavailable

## AUTOMATIC DOOR SYSTEMS



#### SRDR-2 Motion Sensor

- Product Code: SRDR-2
- Supply Voltage: 12-24 V AC/DC
- Transmission Frequency: 24 GHZ - K Band
- Contact Structure: Solid State
- Output Time: 1 second
- Sensing Range: Max. 6 meters
- Area of Usage: Automatic glass doors



#### SRDR-4H Automatic Door Activation Combined With Pedestrian Safety

- Product Code: SRDR-4H
- Brand: Hotron
- Detection Method: Active infrared detection
- Installation Height: 2000mm-3000mm
- Product Dimensions: 210mm (L), 59mm (H)28.5mm (D)
- Staying Open Duration: 2 seconds 30 seconds, 1 minute and continuous
- IP Class: IP54
- Supply Voltage: 12 - 24VAC/DC ± 10%
- Power Consumption: AC12V-1.3 [VA] (Max); DC12V-65[mA] (Max); AC24V-1.5[VA] (Max); DC24V-35[mA] (Max)
- Operation Temperature: Between -20 °C and 60 °C
- Product Weight: 180g
- Colour: Black



## AUTOMATIC DOOR SYSTEMS



## SNNR Keypad &amp; RD ID Card Reader

- Product Code: SNNR
- Operating Voltage: AC/DC 12-24V
- Static- Active Current: 40 - 60 mA
- Storage Capacity: 2000 ID Cards
- Contact Time: 01-99 seconds
- Reading Distance: 10-100 mm
- Operation Temperature: -10°C ~ +60°C
- Card Type: EM or EM-compatible card
- Dimensions: 140 x 47 x 20 mm



## SNEL Hand Sensor

- Product Code: SNEL
- Operating Voltage: AC/DC 12-24V
- Static Current: 65 mA
- Operation Method: Laser sensor
- Contact Distance: 5 cm
- Operation Temperature: -10°C ~ +60°C
- Installation: with hidden screw
- Dimensions: R (Diameter): 84 mm - H (Height): 23 mm



## SNRI RF ID Card Reader

- Product Code: SNRI
- Operating Voltage: AC/DC 12-24V
- Static- Active Current: 40 - 60 mA
- Storage Capacity: 2000 ID Cards
- Contact Time: 1 sec.
- Reading Distance: 10-100 mm
- Operation Temperature: -10° C ~ +60° C
- Card Type: EM or EM-compatible card
- Dimensions: 140 x 47 x 20 mm



## SDA Touch Type Switch

- Product Code: SDA
- Contact Structure: Normally Open
- External Appearance: Polyester, black colour
- Dimensions: 205 x 41 x 15 mm
- Area of Usage: Photocell door, automation

## AUTOMATIC DOOR SYSTEMS



### SCKF PLUS Automatic Door Photocell

- Product Code : SCKF
- Supply Voltage : 6-30 V AC/DC
- Signal Type : Infrared
- Contact Output : NO/NC Dry contact - 2A
- Photocell Cable Length : 5 meter
- External Appearance : Polyester, white color
- Area of Usage : Sliding glass door, security photocell

## AUTOMATIC DOOR SYSTEMS



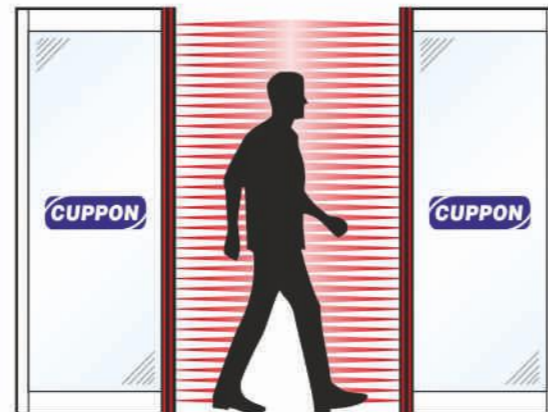
### SAM Battery Backup Module

- Product Code: SAM
- Battery: 2 x 12V 7 Ah
- Charger Module: 27.6V / 0.600mA SMPS
- Working Period: 6 hours
- Dimensions: 430 x 80 x 100 mm
- Area of Usage: Photocell door



### SBFT Length Photocell & Control Card

- Product Code: SBFT
- Number of Sensing Point: 32 pcs infrared led
- Operating Distance: 0-4 meters
- Supply Voltage: 220V AC
- Output: 1 Relay contact (6A) N/O and N/C
- Audible Warning: Available
- Dimensions: min. 70 cm / Max. 195 cm



### SAN ID Keychain

- Product Code: SAN
- Signal Transmission Speed: 3.9 KBPS (THRC12)
- Carrier Frequency: 125 KHZ (THRC12)
- Memory: 64 bit
- Colour: Blue
- Dimensions: 35 x 28 mm
- Area of Usage: Photocell door, Automation



### SRFM RF Receiver

- Product Code : SRFM
- Frequency : 433.92 MHZ
- Operating Voltage : 12V DC
- Remote Controller Record : Fix Code: Ability to introduce 42 passwords
- Code Structure : Fix Code
- External Appearance: Polyester, black colour
- Dimensions: 70 x 40 x 20 mm
- Area of Usage: Photocell door



### SCA ID Card

- Product Code: SCA
- Signal Transmission Speed: 3.9 KBPS (THRC12)
- Carrier Frequency: 125 KHZ (THRC 12)
- Memory: 64 bit
- Colour: White
- Dimensions: 80.5 x 54 x 1.88 mm
- Area of Usage: Photocell door, automation

## AUTOMATIC DOOR SYSTEMS



### Battery Backup Module

- Product Code : SAM-250
- Battery : 24V 800mAh Ni-Cd Battery
- Charging Unit : 24V 1A SMPS
- Working Time : 5 min.
- Charging Time : 8 hours
- Dimension : 200x95x45mm
- Usage : Automatic door



### Electronic Lock

- Product Code: SEK-250
- Working Voltage : 24V DC
- Dimensions: 80 x 80 x 75 mm
- Usage : Automatic door
- Working in Power Failure, Rechargeable battery
- Emergency Button
- Test Button, Know position of the door
- With low noise, The best in class

Glass Bracket  
1 Meter



## AUTOMATIC DOOR SYSTEMS



### Multi pass systems

In order to make the entrance system of your automatic sliding door more special, it provides different usage system possibilities like coded pass system, touch-operated pass system, pass with ID card, hand sensor.

### Different combinations

Cuppon brand automatic sliding door systems, providing that considering their carrying capacity, it activates the opening of single or double-wing doors made of glass, aluminum, wood and steel materials. It is possible for you to use different colors suitable to your facade.



**CUPPON**



## MOTOR SYSTEMS

MOTOR SYSTEMS



Safety certificates of the Cuppon motor:



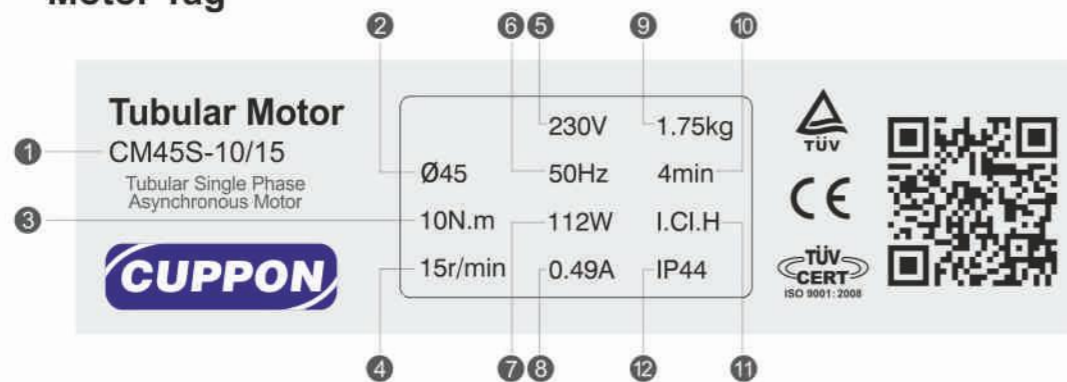
European CE Certificate

TUV Certificate

European Wireless Emission Frequency Certificate

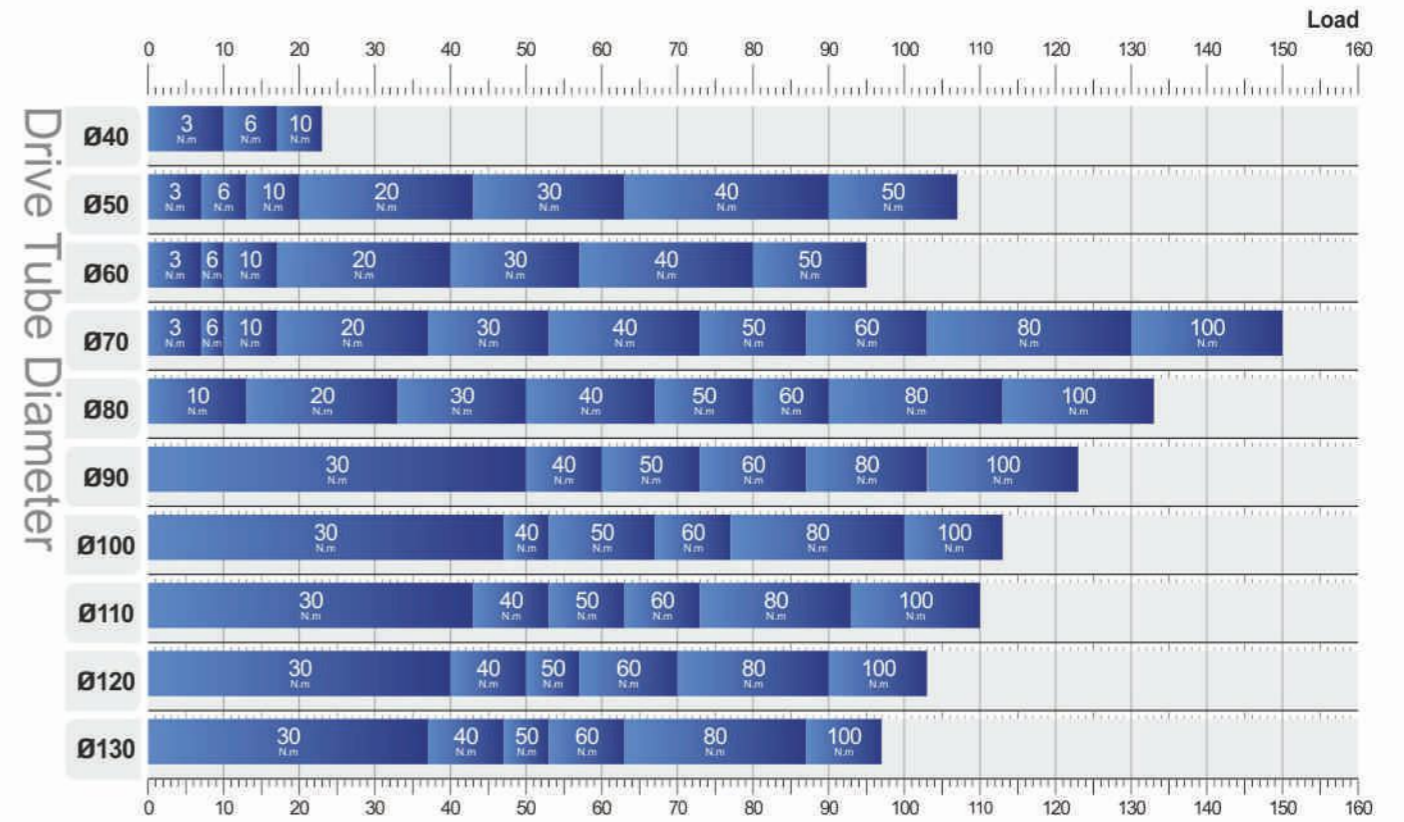
- ISO9001, ISO9001: Quality System Certificate
- Global Environmental Protection Certificate
- 3C Safety Certificate
- North American UL Certificate
- European CE Certificate
- TUV Certificate
- European Wireless Emission Frequency Certificate

Motor Tag

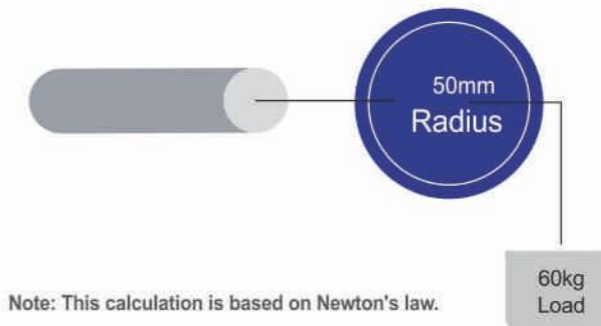


- 1 Motor Code
- 2 Tube Diameter
- 3 Rated Torque
- 4 Rated Speed
- 5 Rated Voltage
- 6 Rated Frequency
- 7 Rated Power
- 8 Rated Current
- 9 Motor Weight
- 10 Work Time
- 11 Insulation Degree
- 12 Degree of Protection

# HOW TO CHOOSE ?



The diagram is only for reference for end users.



Note: This calculation is based on Newton's law.

$$\text{Torque(N.m)} = \text{Radius} * \text{Load} + 100$$

$$?(N.m) = 50\text{mm} \times 60\text{Kg} \div 100 = 30\text{N.m}$$

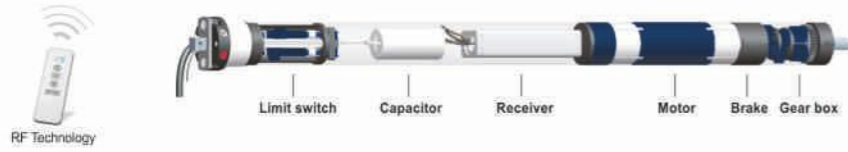
## INTERNAL STRUCTURE OF MOTOR

## INTERNAL STRUCTURE OF MOTOR

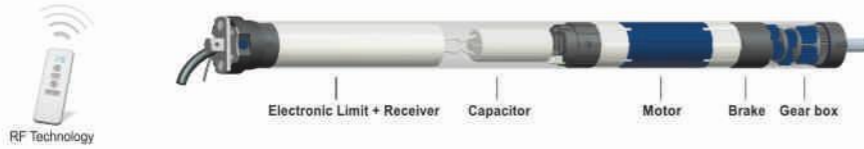
**CM35S** 35 mm Standard Motor



**CM35R** 35 mm Radio Motor



**CM35E** 35 mm Electronic Motor



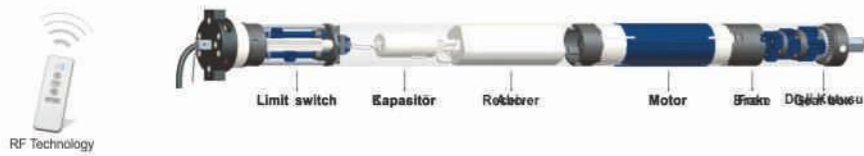
**CM45SS** 45 mm Standard Motor / Super Short



**CM45S** 45 mm Standard Motor



**CM45R** 45 mm Radio Motor



**CM45E** 45 mm Electronic Motor



**CM59E** 59 mm Electronic Motor



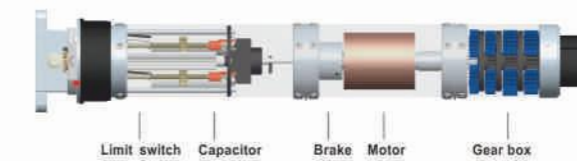
**CM59R** 59 mm Radio Motor



**CM59** 59 mm Manual Motor / Mechanical Limit



**CM92** 92 mm Manual Motor / Mechanical Limit



**CUPPON**

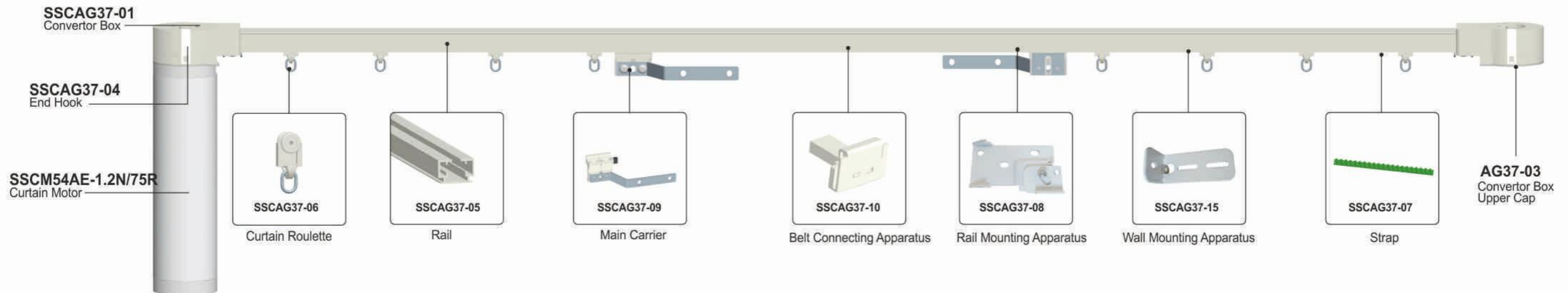
## CURTAIN MOTOR SYSTEMS

CURTAIN MOTOR SYSTEMS



# Curtain Motor

## Function Description



### Precision Operation Function

DC curtain motor has slow-opening/closing function. When it opens and reaches to the limit position, the speed slows down and the curtain runs more slowly.

### Electronic Memory Limit Function

In this motor with electronic limit, there is no need to adjust the limit position manually, so the mounting time is very short. Electronic limit function automatically updates limit difference in every day and maintains full limit position.

### Built-in Receiver Function

Cuppon curtain motor has built-in receiver. This receiver is compatible with other Cuppon remote controllers. Curtains can be controlled on an individual or group basis.

### Compression and Stop Function

The curtain stops automatically when it encounters any pressure.

### Operation Function with a Light Touch

If you pull the curtain slightly about 20 cm, the curtain operates automatically and the motor runs until it is fully opened or closed (no remote controller required).

### Long Term Use, Durable Design

Wear resistant belt is used. The system maintains its initial shape after 15,000 use. It has a 20-year service life if used twice a day.

### Manual Operation Function When Power Off

When power off, you can manually pull the curtain to open and close.

### External Dry Contact Function

A mechanical switch or touch switch can be connected to the dry contact input.



MOTOR SYSTEMS > Curtain Motor

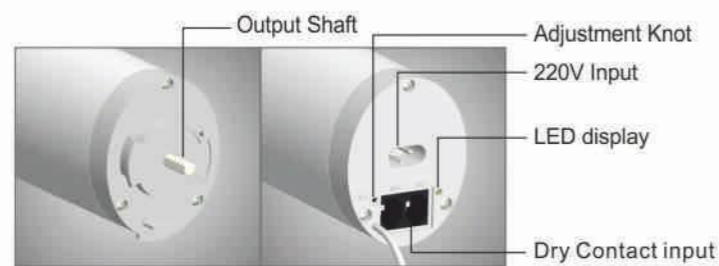
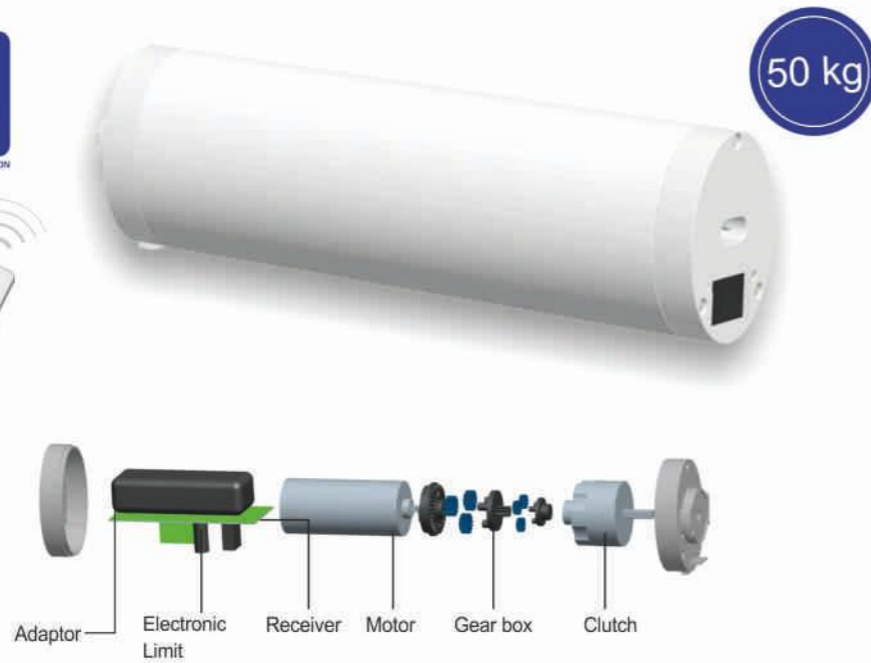
# CM54AE

**RF-Controlled Curtain Motor Characteristics:**

- Electronic Limit
- Built-in Receiver
- Compression and stop function
- Operation function with a light touch
- Manual operation function when power off
- Long-term use
- External connection with dry contact function
- Third, fourth, fifth limit position
- Precision operation function
- RS485 Communication function



RF Technology



## SSCM54AE - RF Controlled Curtain Motor

Motor Type	Security Curtain Weight	Nominal Torque	Nominal Rate	On/off Speed	Nominal Current	Working Period	Degree of Protection	Max. cycles	Line Length	Weight
	Kg	N.m	rotation	cm/s	A	h	Ip	Cycle	m	Kg
★ 180-240V/50Hz.60Hz										
SSCM54AE-1.2/75	50	1.2	75	12	0.13	240	40	∞	≤12	1.04

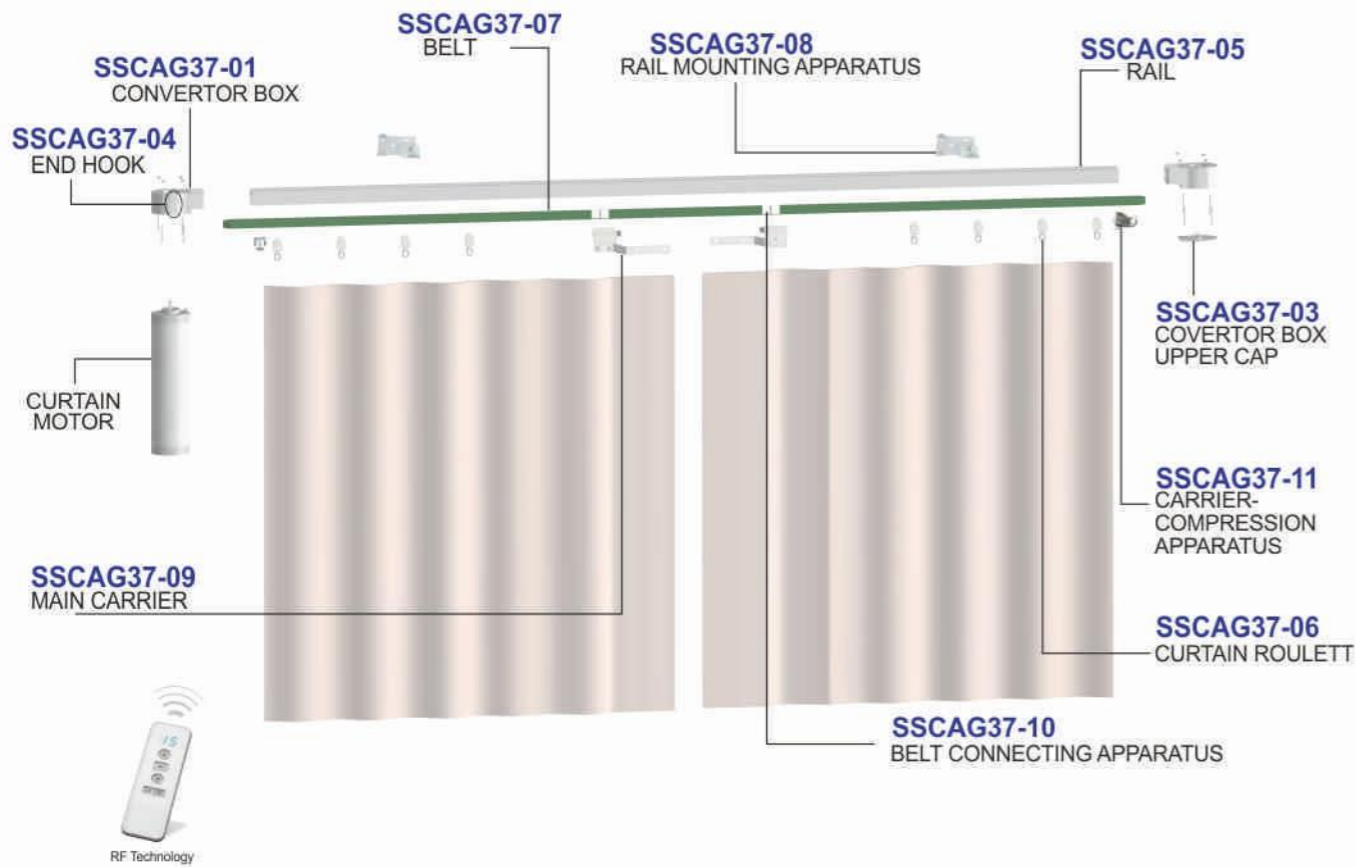
AC 100-240V/50Hz.60Hz



Power Cable

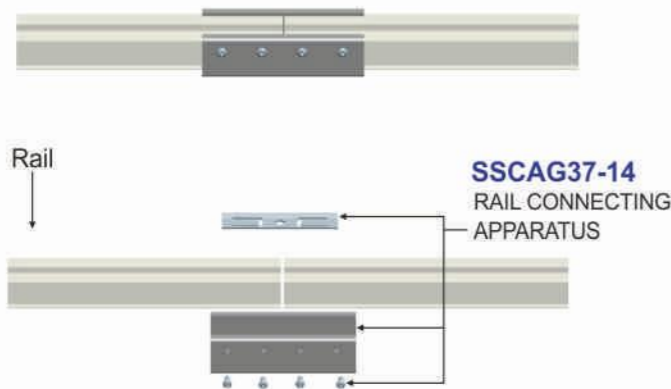


# Curtain Rail System



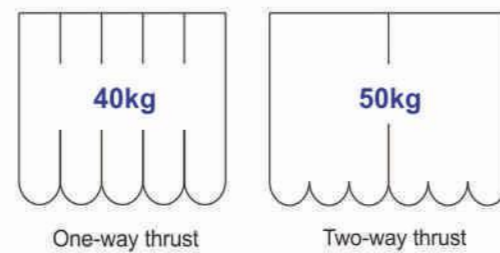
## Motor Curtain Rail

### Rail Positioning



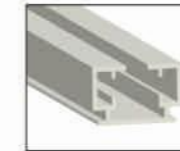
### Weight:

Security Weight For Curtain Motor  
SSCM54AE-1.2/7S

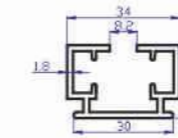


# Accessories

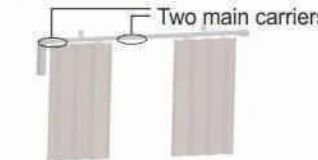
Rail Appearance



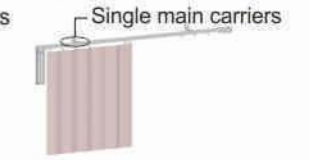
Rail Dimension



Two-way thrust



One-way thrust



NO	PRODUCT PHOTO	PRODUCT NAME	PRODUCT CODE	DESCRIPTION	REQUIRED QUANTITY
1		RAIL	SSCAG37-05	ALUMINUM	PURCHASE BY REQUIRED LENGTH
2		BELT	SSCAG37-07	MAX. 100 KG	PURCHASE BY REQUIRED LENGTH (UNIT: METER) TAKE USER MANUAL AS REFERENCE FOR CALCULATION
3		MAIN CARRIER	SSCAG37-09 SSCAG37-10		ONE-WAY THRUST SSCAG37-09 1PCS SSCAG37-10 2PCS TWO-WAY THRUST SSCAG37-09 2PCS SSCAG37-10 4PCS
4		RAIL MOUNTING APPARATUS	SSCAG37-08	METAL	2 PCS FOR 1 M RAIL
5		RAIL MOUNTING APPARATUS	SSCAG37-15	METAL	2 PCS FOR 1 M RAIL
6		CURTAIN ROULETTE	SSCAG37-06	PLASTIC	6 PCS FOR EACH 1 M
7		RAIL CONNECTING APPARATUS	SSCAG37-14	METAL	1 PCS FOR EACH JOINT
8		COVERTOR BOX MOUNTING			ONE-WAY THRUST SSCAG37-01 2PCS SSCAG37-03 1PCS SSCAG37-04 2PCS SSCAG37-11 2PCS TWO-WAY THRUST SSCAG37-01 2PCS SSCAG37-03 1PCS SSCAG37-04 2PCS SSCAG37-11 2PCS

MOTOR SYSTEMS > Curtain Motor

# CM35S

Ø35 S: Standard Mechanical Limit



Automatic Roller Curtain



Automatic Projection Screen

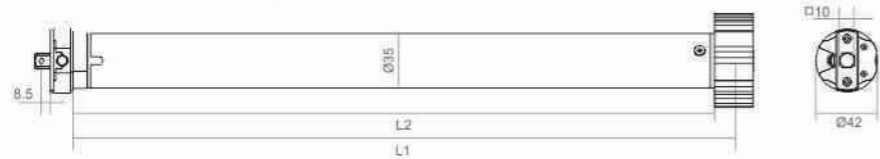


Automatic Wooden Blind

Internal Structure



Dimensional Drawing



316 LIMIT SWITCH



MOTOR SYSTEMS > Curtain Motor

# CM35R

Ø35 R: Receiver Motor Mechanical Limit



RF Technology



Automatic Roller Curtain



Automatic Projection Screen

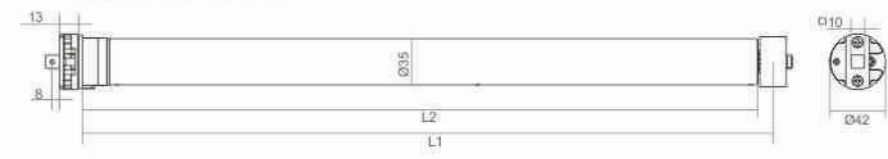


Automatic Wooden Blind

Internal Structure



Dimensional Drawing



316 LIMIT SWITCH



CM35S Product Range- Standard Motor

Product Certificate

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
* 230V/50Hz - IP44								
CM35S-6/28	6	28	35	121	0.53	4	37	445/432
CM35S-10/17	10	17	35	121	0.53	4	37	445/432
CM35S-13/14	13	14	35	121	0.53	4	37	445/432



CM35R Product Range- Receiver Motor

Product Certificate

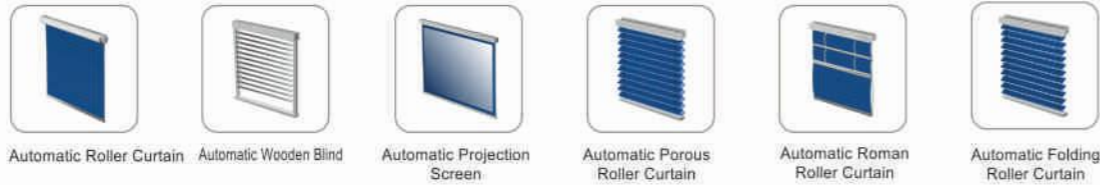
Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
* 230V/50Hz - IP44								
CM35R-6/28	6	28	35	121	0.53	4	37	565/552



# MOTOR SYSTEMS > Curtain Motor

## CM35E

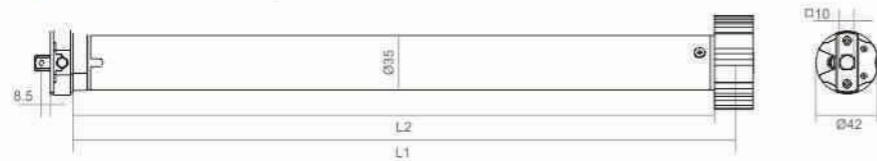
Ø35 **E: Motor with Electronic Receiver**  
 Electronic Limit + Built-in Receiver +  
 3. Limit + Gradual Operation + Compression



### Internal Structure



### Dimensional Drawing



### 321 LIMIT SWITCH



### CM35E Product Range- Motor with Electronic Receiver

Product Certificate

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
* 230V/50Hz - IP44								
CM35E-6/28	6	28	35	130	0.56	4	∞	554/541

AC 230V/50HZ  
 Blue=Neutral  
 Brown=Phase  
 Green/Yellow=Earth



**CUPPON**



**BLIND MOTOR SYSTEMS**

BLIND MOTOR SYSTEMS



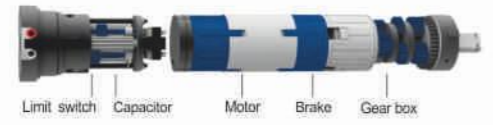
# MOTOR SYSTEMS > Blind Motor CM45SS

Ø45 **SS: Ultra Mini Motor**  
Mechanical Limit + Ultra Mini

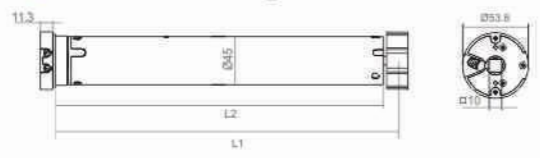
**SUPER  
SHORT  
MOTOR**



Internal Structure



Dimensional Drawing



443 LIMIT SWITCH



## CM45SS Product Range- Ultra Short Motor

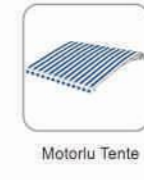
Product Certificate

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
★ 230V/50Hz - IP44								
CM45SS-10/15	10	15	45	125	0.53	4	16	321/305



# MOTOR SYSTEMS > Blind Motor CM45S

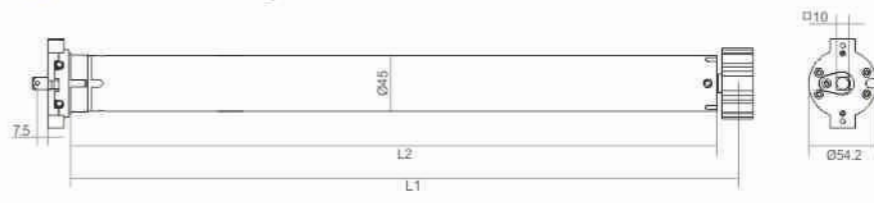
Ø45 **S: Standard Motor**  
Mechanical Limit



Internal Structure



Dimensional Drawing



441 LIMIT SWITCH



## CM45S Product Range- Standard Motor

Product Certificate

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
★ 230V/50Hz - IP44								
CM45S-10/15	10	15	45	125	0.49	4	22	444/428
CM45S-20/15	20	15	45	145	0.64	4	22	444/428



MOTOR SYSTEMS > Blind Motor

# CM45R

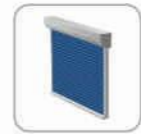
Ø45 R: Receiver Motor  
Mechanical Limit



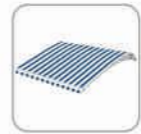
RF Technology



Automatic Roller Curtain



Automatic Roller Blind

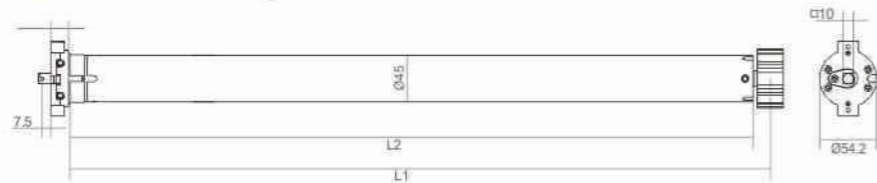


Automatic Sun Shade

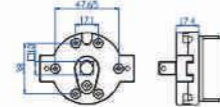
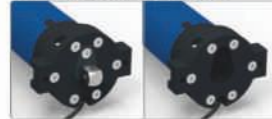
Internal Structure



Dimensional Drawing



441 LIMIT SWITCH



CM45R Product Range- Receiver Motor

Product Certificate

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
★ 230V/50Hz - IP44								
CM45R-10/15	10	15	45	112	0.49	4	22	564/548
CM45R-20/15	20	15	45	145	0.64	4	22	564/548



**CUPPON**



**REGOLA  
&  
GUILLOTINE  
MOTOR SYSTEMS**

REGOLA & GUILLOTINE MOTOR SYSTEMS





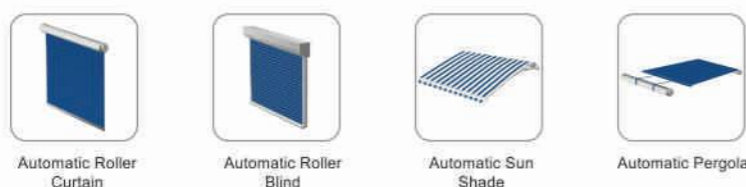
## MOTOR SYSTEMS > Pergola & Guillotine Motor

# CM45E

**Ø45 E: Motor with Electronic Receiver**  
 Electronic Limit + Built-in Receiver + Third Limit +  
 Gradual Operation Function + Compression-Block Sensor Function



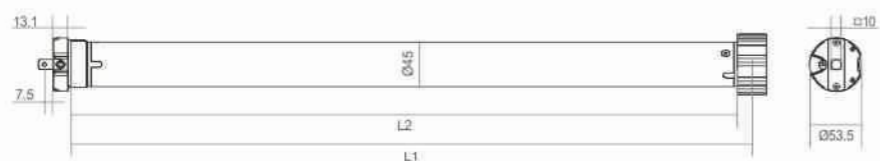
RF Technology



### Internal Structure



### Dimensional Drawing



### 452 LIMIT SWITCH



## CM45E Range- Motor with Electronic Receiver

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min.	Cycle	mm
<b>230V/50Hz - IP44</b>								
CM45E-50/12	50	12	45	230	1.02	4	∞	584/568



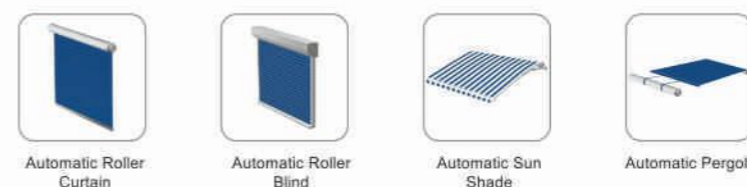
## MOTOR SYSTEMS > Pergola & Guillotine Motor

# CM59E

**Ø59 E: Motor with Electronic Receiver**  
 Electronic Limit + Built-in Receiver + Third Limit +  
 Gradual Operation Function + Compression-Block Sensor Function



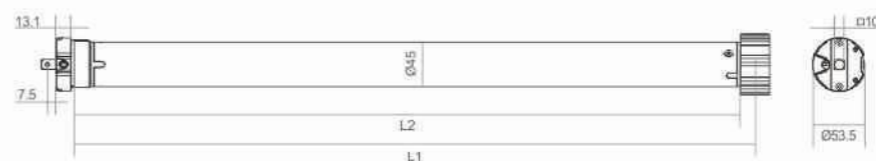
RF Technology



### Internal Structure



### Dimensional Drawing



### 452 LIMIT SWITCH



## CM59E Range- Motor with Electronic Receiver

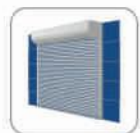
Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min.	Cycle	mm
<b>230V/50Hz - IP44</b>								
CM59E-120/9	120	9	59	365	1.34	4	24	742/722
CM59E-140/7	140	7	59	396	1.34	4	24	742/722



MOTOR SYSTEMS > Pergola & Guillotine Motor

# CM59R

Ø59 R: Receiver Motor  
Mechanical Limit

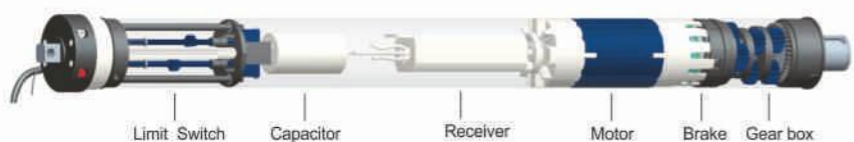


Automatic Roller Door

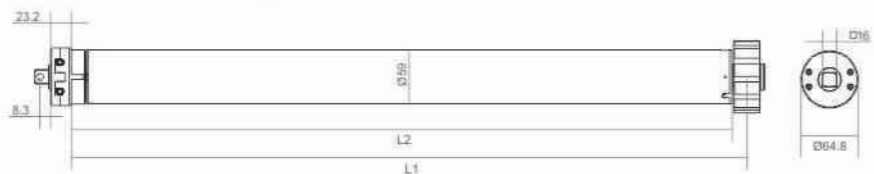


Automatic Sun Shade

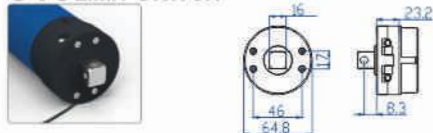
Internal Structure



Dimensional Drawing



510 LIMIT SWITCH



### CM59R Product Range- Receiver Motor

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	L1/L2
	N.m	rotation	mm	W	A	min	Cycle	mm
★ 230V/50Hz - IP44								
CM59R-120/9	120	9	59	365	1.34	4	24	742/722
CM59R-140/7	140	7	59	396	1.34	4	24	742/722

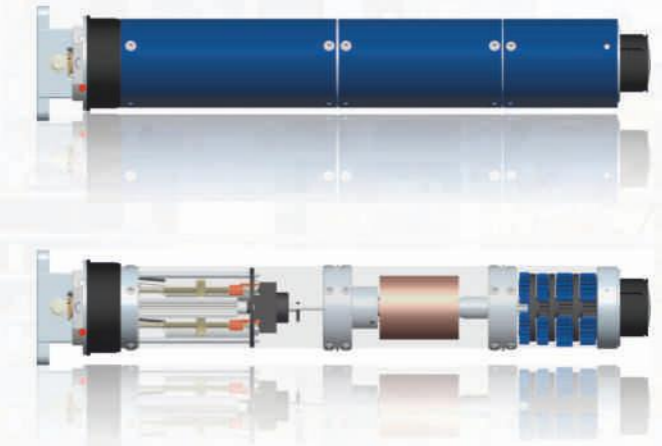
AC 230V/50HZ



Blue=Neutral  
Brown=Phase  
Green/Yellow= Earth

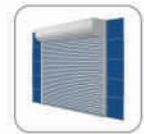


## SHUTTER MOTOR SYSTEMS

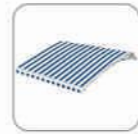


# MOTOR SYSTEMS > Shutter Motor CM59

Ø59 M: Manual Motor  
Mechanical Limit

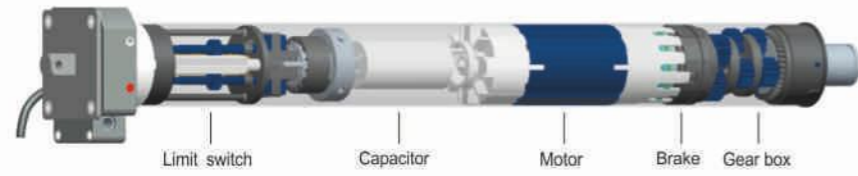


Automatic Shutter

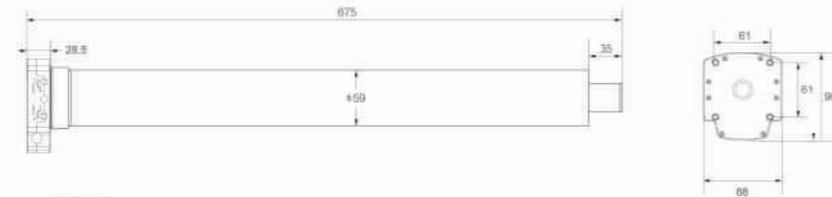


Automatic Sun Shade

### Internal Structure



### Dimensional Drawing

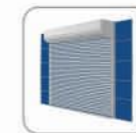
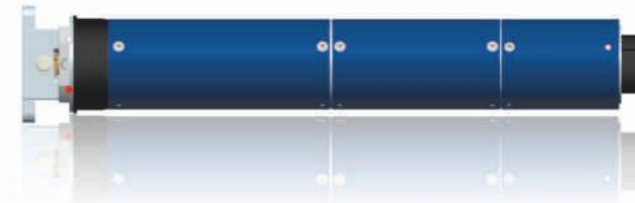


### 527 LIMIT SWITCH



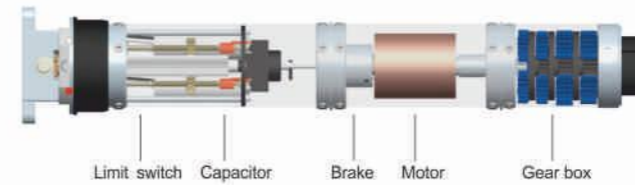
# MOTOR SYSTEMS > Shutter Motor CM92

Ø92 M: Manual Motor  
Mechanical Limit



Automatic Shutter

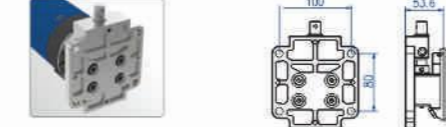
### Internal Structure



### Dimensional Drawing



### 927 LIMIT SWITCH



## CM59 Product Range- Manual Motor

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	Net Weight
	N.m	rotation	mm	W	A	min.	Cycle	Kg
<b>230V/50Hz - IP44</b>								
CM59-60/70	60	12	59	288	1.25	4	26	5.8
CM59-80/70	80	12	59	370	1.80	4	26	6.0
CM59-100/70	100	12	59	441	1.92	4	26	6.6
CM59-120/70	120	12	59	450	2.00	4	26	6.8
CM59-140/70	140	9	59	465	2.10	4	26	7



## CM92 Product Range- Manual Motor

Motor Type	Nominal Torque	Nominal Rate	Pipe Diameter	Nominal Power Input	Nominal Current	Working Period	Max. Cycles	Net Weight
	N.m	rotation	mm	W	A	min.	Cycle	Kg
<b>230V/50Hz - IP44</b>								
CM92-230/102	230	12	92	830	3.60	4	13	12
CM92-330/102	330	8	92	910	4.00	4	13	14



**CUPPON**



## CHAIN MOTOR SYSTEMS

CHAIN MOTOR SYSTEMS



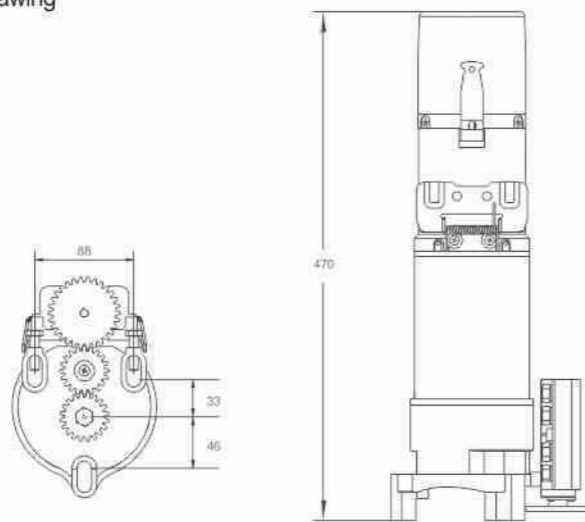
## MOTOR SYSTEMS > Chain Motor

# CMZ

- Compact design, attractive appearance, safe and reliable performance
- Light weight, low noise, functional installation advantages
- Manual operation function in case of power failure



### Dimensional Drawing



### CMZ Product Range- Chain Motor

Motor Type	Rated Voltage	Rated Power	Torque	Max. Current	Rotating	Rated Current	Running Time	Weight
	V	W	N.m	Kg/f	rmp	A	min.	Kg
<b>230V/50Hz - IP44</b>								
CMZ600-A/1P	230	370	420	600	6.5	6	>5	11.7
CMZ800-A/1P	230	400	650	800	5.3	9	>5	13
CMZ1000-A/1P	230	420	820	1000	5.5	9	>5	14





## GATE MOTOR SYSTEMS

GATE MOTOR SYSTEMS



# MOTOR SYSTEMS > Gate Motor CSG-600 KIT

- CSG-600 is designed to control sliding doors for home and industrial use with a strong working capacity.
- Control panel is built into motor. Equipment such as photocell, flasher, and external button can easily be connected and programmed by the user.
- It can be managed with remote controller.
- Motor can be disengaged by manual switch in case of emergency.



CSG-600 Gate Motor

# MOTOR SYSTEMS > Gate Motor CSG-600 KIT



SLEF Flasher



KP-105 Garage Opener



2BK Remote Controller



SFTS Security Photocell



Rack gear  
8mm x 4m

## CSG-600 KIT- Garden Motor

Motor Type	Operation Voltage	Engine Speed	Door Movement Speed	Output Torque	Working Period	Limit Switch	Remote Controller Operation Range	Remote Controller Frequency	Automatic Power Off	Engine Power	Max. Door Range	Opening Speed	Noise	Operation Temperature
	V	r/min.	m/min.	N.m	sn		m	MHZ	sn	W	kg	m/min.	dB	°C
★ 230V/50Hz - IP44.														
CSG-600 KIT	AC220V 50Hz	1400	14m/min (24gear) 11m/min (19gear)	14Nm	90 sn	Snap.Limit Switch	30 m	433.92 MHZ	5-120 sn	250W	600 kg	10m/min	≤60dB	-10°C ~ + 50 °C





**CUPPON**



## SHUTTER UPS SYSTEMS



Turkish Patent Institute Useful Model No: TR200601937Y

## SHUTTER UPS SYSTEMS



### SM-1200 Shutter UPS (Dual Output)

- Product Code :SM-1200
- Power: 1000 W
- Input Voltage & Frequency: 220 VAC; 1 Phase/ 50-60 Hz
- Output Voltage & Frequency: 220 VAC; 1 Phase 50-60 Hz
- Grid Operation Range: 170 - 230 VAC
- RF Operation Frequency: 433.92 MHZ
- Battery Type & Warranty: Maintenance free dry type / 2 years
- Number of Battery: 2 pieces 12V 9 Ah
- Charge & Stand by Period: 12 hours/ 4 days (96 hours)
- Remote Controller Range: 30 m
- Indicators: Line - Message – Battery
- Alarm & Warnings: Warning on operation from the battery, excessive load warning, no battery warning, no network warning
- Protection: Excessive load protection, short circuit protection
- Operation Temperature: 0°C - 50°C
- Net & Lifting Weight: 6.8 kg /160 - 220 kg
- Dimensions: 320 x 230 x 76 mm
- Options: External Receiver, 42 pcs remote controller

## SHUTTER UPS SYSTEMS



### SM-1100 Shutter UPS (Single Output)

- Product Code: SM-1100
- Power: 1000 W
- Input Voltage & Frequency: 220 VAC; 1 Phase/ 50-60 Hz
- Output Voltage&Frequency: 220 VAC; 1 Phase/ 50-60 Hz
- Grid Operation Range: 170 - 220 VAC
- RF Operation Frequency: 433.92 MHZ
- Battery Type & Warranty: Maintenance free dry type / 2 years
- Number of Battery: 2 pieces 12V 7 Ah
- Charge and Stand by Period: 12 hours/ 4 Days (100 Hours)
- Remote Controller Range: 30 m
- Indicators: Grid Voltage (Line) and Inverter (Battery) warning led
- Alarms & Warnings: Warning on operation from battery, no network warning
- Protection: Excessive load protection, short circuit protection
- Operation Temperature: 0°C - 50°C
- Net & Lifting Weight: 6.4 kg) 160 - 220 kg
- Dimensions: 370 x 320 x 150 mm
- Options: External Receiver, 42 pcs remote controller

## SHUTTER UPS SYSTEMS



### SM-1500 Shutter UPS (Single Output)

- Product Code: SM-1500
- Power: 1500 W
- Input Voltage & Frequency: 220 VAC; 1 Phase / 50-60 Hz
- Output Voltage & Frequency: 220 VAC; 1 Phase/ 50-60 Hz
- Grid Operation Range: 150 - 270 VAC
- RF Operation Frequency: 433.92 MHz
- Battery Type & Warranty: Maintenance free dry type / 2 years
- Number of Battery: 4 pieces 12V 9 Ah
- Charge and Stand by Period: 12 hours/ 8 Days (200 Hours)
- Remote Controller Range: 30 m
- Indicators: Network, inverter voltage and loading led
- Alarm & Warnings: Warning on operation from the battery
- Protection: Excessive load protection
- Operation Temperature: 0°C - 40°C
- Net & Lifting Weight: 21 kg / 400 kg
- Dimensions: 335 x 265 x 120 mm
- Options: External Receiver, 42 pcs remote controller

**CUPPON**



**REMOTE  
CONTROLLER  
SYSTEMS**



REMOTE CONTROLLER  
SYSTEMS

## REMOTE CONTROLLER SYSTEMS



### 2BR - 4BR Remote Controller

- Product Code : 2BR-4BR
- Channel Numbers : 2 Channels - 4 Channels
- Frequency : 433.92 MHZ
- Operating Voltage : 12V 27A
- Power Consumption : 5mW
- Range : 30 meters
- Dimensions : Diameter : 48mm / Height : 17,5mm
- Type of Control : Microprocessor controlled
- Password Loading: Special password loading for companies by use of an infrared device
- Area of Usage : Window blind, shutter, barrier, garden door, automation



### 2BY Remote Controller

- Product Code 2BY
- Channel Numbers: 2 Channels
- Frequency: 433.92 MHZ
- Operating Voltage: 12V 27A
- Power Consumption: 5mW
- Range: 30 meters
- Dimensions: 40 x 55 x 15 mm
- Type of Control: Microprocessor controlled
- External Appearance: Black, white, cream, claret red colour
- Password Loading: Special password loading for companies by use of an loading device
- Area of Usage: Window blind, shutter, barrier, garden door, automation



### 2BM - 4BM Remote Controller

- Product Code :2BM-4BM
- Channel Numbers: 2 Channels- 4 Channels
- Frequency: 433.92 MHZ
- Operating Voltage: 12V27A
- Power Consumption: 5mW
- Range: 30 meters
- Dimensions: 30 x 60 x 13 mm
- Type of Control: Microprocessor controlled
- External Appearance: Chrome edging, black colour
- Password Loading: Special password loading for companies by use of an loading device
- Area of Usage: Window blind, shutter, barrier, garden door, automation

## REMOTE CONTROLLER SYSTEMS



### 2BK - 4B Remote Controller

- Product Code 2BK - 4B
- Channel Numbers: 2 Channels- 4 Channels
- Frequency: 433.92 MHZ
- Operating Voltage: 12V 27A
- Power Consumption: 5mW
- Range: 30 meters
- Dimensions: 30 x 55 x 15 mm
- Type of Control: Microprocessor controlled
- External Appearance: Stainless surface, chrome edging, black-cream colour
- Password Loading: Special password loading for companies by use of a wireless loading device
- Area of Usage: Window blind, shutter, barrier, garden door, automation



### SGM Group Remote Controller

- Product Code SGM
- Channel Numbers: 1-2-6-15 Channels
- Frequency: 433.92 MHZ
- Operating Voltage: 2 x 3V CR2032 coin battery
- Power Consumption: 5mW
- Range: 30 meters
- Dimensions: 128 x 42 x 16 mm
- Type of Control: Microprocessor controlled
- External Appearance: Black, white colour
- Area of Usage: Window blind, curtain, automation

**CUPPON**



**RECEIVER  
SYSTEMS**



## RECEIVER SYSTEMS



### TR-22 Receiver

- Product Code : TR-22
- Channel Numbers : 2 Channels
- Frequency : 433.92 MHz
- Operating Voltage : 220VAC 50Hz
- Contact Output : 220V - 16A, can be used in two-way engines
- Dimensions : 110 x 84 x 35 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code type : Fix Code
- Area of Usage : Window blind, shutter, automation
- External Appearance : Polyester, grey colour



### WA-22 Wi-Fi Receiver

- Product Code : WA-22
- Channel Numbers : 2 Channels
- Wi-Fi Interface : IEEE 802.11 b/g
- Data Rate : 1-2-5.5-11 Mbps for 802.11b  
6-9-12-18 Mbps for 802.11g
- Encryption Algorithm : VVPAAA/PA2
- Operating Voltage : 220V AC 50Hz
- Contact Output : 220V - 16A. Can be used two-way engines
- Dimensions : 110 x 84 x 35 mm
- External Appearance : Polyester, grey colour
- Area of Usage : Window blind, shutter, automation



## RECEIVER SYSTEMS



### SN-32 Receiver

- Product Code SN-32
- Channel Numbers: 2 Channels
- Frequency: 433.92 MHz
- Operating Voltage: 220V AC 50Hz
- Contact Output: 220V - 10A. Can be used two-way engines
- Dimensions: 132 x 40 x 30 mm
- Remote Controller Record: Ability to introduce 42 passwords
- Code type: Fix Code
- External Appearance: Polyester, cream, blue, orange colour
- Area of Usage: Window blind, shutter, automation



### SN-12 Receiver

- Product Code : SN-12
- Frequency : 433.92 MHz
- Operating Voltage : 12 - 24 V AC/DC
- Dimensions : 105 x 39 x 25 mm
- Contact Output : NO/NC Dry Contact- 2A
- Remote Controller Record : Ability to introduce 42 passwords
- Code Structure : Fix Code
- External Appearance : Polyester, white, cream colour
- Area of Usage : Window blind, shutter, automation



### SP-22 Shutter Receiver

- Product Code : SP-22 Shutter Receiver
- Channel Numbers : 2 Channels
- Frequency : 433.92 MHz
- Operating Voltage : 220V AC 50Hz
- Contact Output : 220V - 10A, can be used in two-way engines
- Dimensions : 110 x 35 x 22 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code type : Fix Code
- External Button : Available
- Audible Warning : Available (Optional)
- External Appearance : Polyester, white colour
- Area of Usage : Window blind, shutter, automation

## RECEIVER SYSTEMS



### SNB-55 Receiver

- Product Code : SNB-55
- Channel Numbers : 2 Channels
- Frequency : 433.92 MHZ
- Operating Voltage : 220VAC 50Hz
- Contact Output : 220V AC - 10A, can be used in two-way engines
- Dimensions : 92 x 57 x 26 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code type : Fix Code
- Area of Usage : Window blind, shutter, automation
- External Appearance : Polyester, white colour
- With 2 controls

## RECEIVER SYSTEMS



### SCD-100 Shutter Receiver

- Product Code : SCD-100
- Channel Numbers : 2 Channels
- Frequency : 433.92 MHZ
- Operating Voltage : 220V AC 50Hz
- Contact Output : 220VAC - 10A, can be used in two-way engines
- Tuning Modes : Auto Power Off Engine Rotation Selector Stop Button Flasher mode:
- Dimensions : 130 x 106 x 45 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code Structure : Fix Code
- External Appearance : Polyester, black colour
- Area of Usage : Shutter, automation
- External Equipment : Safety photocell and flashing light



### FA-22 Photocell Receiver

- Product Code : FA-22
- Channel Numbers : 2 Channels
- Frequency : 433.92 MHZ
- Operating Voltage : 220V AC 50Hz
- Photocell Feeder : Internal 12V DC
- Contact Output : 220VAC - 16A. Can be used two-way engines
- Dimensions : 110 x 84 x 35 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code type : Fix Code
- External Appearance : Polyester, grey colour
- Area of Usage : Shutter, automation



### KP-106 Chain Motor Control Panel

- Product Code : KP-106
- Frequency : 433.92 MHZ
- Operating Voltage : 220V AC 50 Hz
- Dimensions : 130 x 106 x 45 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code Structure : Fix Code
- Setting Modes : Auto power off mode, engine rotation mode, photocell mode, stop/button mode
- Safety Hardware : Photocell Input
- Type of Control : Remote controller, button
- External Appearance : Polyester, black colour
- Area of Usage : Chain motor
- External Equipment : Security photocell



## RECEIVER SYSTEMS



### SDM Dimmer Receiver

- Product Code : SDM
- Channel Numbers : 3 Channels
- Frequency : 433.92 MHZ
- Operating Voltage : 12/24V DC
- Channel Output : 12/24V DC
- Output Power : 360W
- Dimensions : 110 x 84 x 35 mm
- Remote Controller : Compatible with group remote controller
- Code type : Fix Code
- External Appearance : Polyester, grey colour
- Area of Usage : Automation



### RGB Dimmer Receiver

- Product Code : SRGB
- Channel Numbers : 3 Channels
- Number of Colour Dimmed : 7 Colours
- Frequency : 433.92 MHZ
- Operating Voltage : 12/24V DC
- Contact Output : 12/24V DC
- Output Power : 360W
- Dimensions : 110 x 84 x 35 mm
- Remote Controller : Compatible with SGK-6 Group Remote Controller
- Code Structure : Fix Code
- Area of Usage : Automation
- External Appearance : Polyester, grey colour



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## GARAGE OPENER SYSTEMS



## GARAGE OPENER SYSTEMS



### UHF RFID Long Distance Antenna

- Product Code : UHF RFID
- Operation Frequency : GB 920MHz- 925MHz, GB 840MHz^ 845MHz, FCC 902 MHz— 928 MHz, ETSI 865MHz - 868MHz
- RF Output Power (Port) : 30dBm /1dB (MAX.)
- Supported Protocol : ISO18000-6C/6B
- RS232 Serial Communication Rate : 115200bps (default), 19200 bps, 9600bps
- RS485 Interface Communication Rate : 115200bps (default), 19200 bps, 9600bps
- Channel Bandwidth : <200KHz
- Built-in Cyclical Polarized Antenna Gain : <8dBi
- RS485 /Ethernet Length : Max. 80 meters
- Serial Port Cable Length : Max. 5 meters
- Operation Temperature : -20°C ~ + 70 °C
- Degree of Protection : IP65
- Dimensions : 290 x 290 x 55 mm



### SHG-10 Control Card

- Product Code : SGH-10 RFID
- Operation Voltage : 12-24V DC
- Contact Structure : Dry contact output
- Tag Capacity : Ability to introduce 2000 tag in total
- Cable Range : Max. 100 meters
- Signal input for Loop Detector : 5-24 VDC
- Ability to delete all tag details on memory with a single button
- Ability to introduce buttonless tag with master card

## GARAGE OPENER SYSTEMS



### RFID Tag

- Product Code : RFID Vehicle Tag
- Operation Frequency : UHF 860MHz-960MHz
- 860MHz/960MHz Integrated Circuit Operation : UHF EPC Gen2 (EPC CLASS 1 GEN 2)
- Operation Temperature : -40° C ~ +80° C
- Storage Temperature : -40° C ~ +100° C
- Sensing Range : 5-7 meters
- External Appearance : ABS / PVC



### Loop Detector

- Product Code : LC10-2-D 230 VAC
- Operating Voltage : AC 220V / 50
- Operation Frequency : 20....120KHZ
- Number of Channel : 2 Relays output
- Operation Temperature : -20° C ~ +70° C
- Switchable Voltage and Current : 250V AC - 6A
- Loop Inductive : 100....1000uH
- Calibration Time : 2 sec.
- Cable Length : Max. 150 meters
- Dimensions : 75 x 38 x 95 mm



### KP-105 Garage Opener

- Product Code : KP-105
- Frequency : 433.92 MHz
- Operating Voltage : 220V AC 50 Hz
- Dimensions : 130 x 106 x 45 mm
- Remote Controller Record : Ability to introduce 42 passwords
- Code Structure : Fix Code
- Setting Modes : Auto power off mode, engine rotation mode, flasher selection mode, operation time mode
- Safety Hardware : Photocell and engine limit switch input
- Type of Control : With remote controller and button
- External Appearance : Polyester, black colour
- Area of Usage : Garage door, barrier systems
- External Equipment : Safety photocell, safety switches and flashing light

## GARAGE OPENER SYSTEMS



### SLEF Led Flasher

- Product Code : SLEF
- Operating Voltage : 12-24VAC/DC - 12-270VAC/DC
- Power Consumption : < 2.5 W
- Dimensions : 90 x 125 mm
- Area of Usage : Garage Door, barrier systems, automation



### STFS Security Photocell

- Product Code : STFS (Photocell)
- Supply Voltage : 12-24 VAC/DC
- Sensing Range : Max. 15 meters
- Blocked Sensing Time : 1 second
- Operation Temperature : -10° C / 50° C
- Installation : Wall-mounted



### STFS-2 Security Photocell

- Product Code : STFS-2
- Supply Voltage : 12-24 VAC/DC
- Sensing Range : Max. 15 meters
- Blocked Sensing Time : 1 second
- Operation Temperature : -10° C / 50° C
- Installation : Wall-mounted
- Ability to adjust from 0 to 90°C depending on mounting condition of the receiver and transmitter module

## GARAGE OPENER SYSTEMS



### Retroreflective Sensor

- Product Code : RLK31-54
- Supply Voltage : 24...240V AC / 12...240V DC
- Sensing Range : 12 meters
- Reaction Time : 25msec
- Operation Temperature : -25 — 55 °C
- Dimensions : 18 x 36 x 62 mm
- Installation : Wall-mounted



### KP-104 Garage Opener

- Product Code : KP-104
- Frequency : 433.92 MHZ
- Operating Voltage : 220V AC 50 Hz
- Contact Output : 220V AC
- Dimensions : 125 x 125 x 42 mm
- Remote Controller Record : Ability to introduce 62 passwords
- Code Structure : Fix Code
- Setting Modes : Auto power off mode, engine rotation mode Photocell command mode, Switch mode
- Safety Hardware : Photocell and engine limit switch input
- Type of Control : Remote controller and button
- External Appearance : Polyester, white colour
- Area of Usage : Garage door, barrier systems
- External Equipment : Security photocell, security switches and flashing light
- KP-104 Contact is 220V AC from output.
- If contact output is requested to be dry contact, KP-103 model should be used.

## GARAGE OPENER SYSTEMS

### RESISTANCE PROTECTION SYSTEMS

#### SSCAR Resistance Protection Systems

- Product Code : SSCAR
- Supply : 3V, 1 pcs CR2430 Battery
- Transmitter Frequency : 433,92 Mhz
- Transmitter Power : 10 mw
- Operation Temperature Output : -20°C + 55°C
- Outdoor Operating Distance : Indoor 35 meter



4B Remote Controller



FA-22  
Photocell Receiver



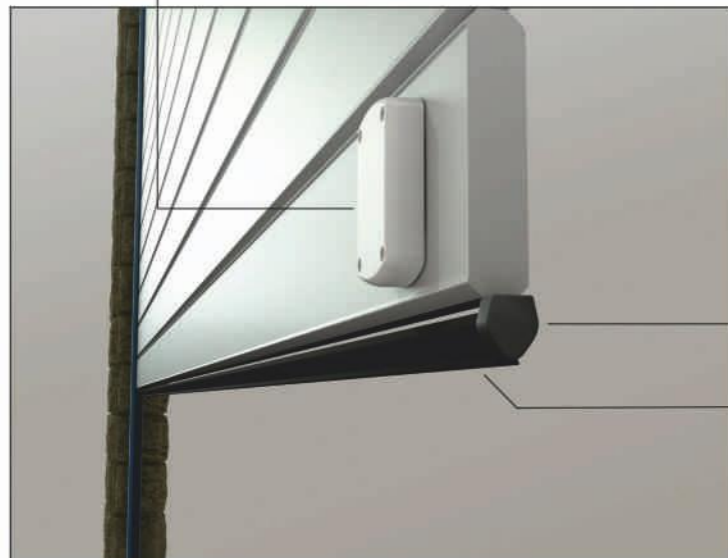
SSCARE10  
Resistance Remote Sensor



Sensor Rubber  
Plug



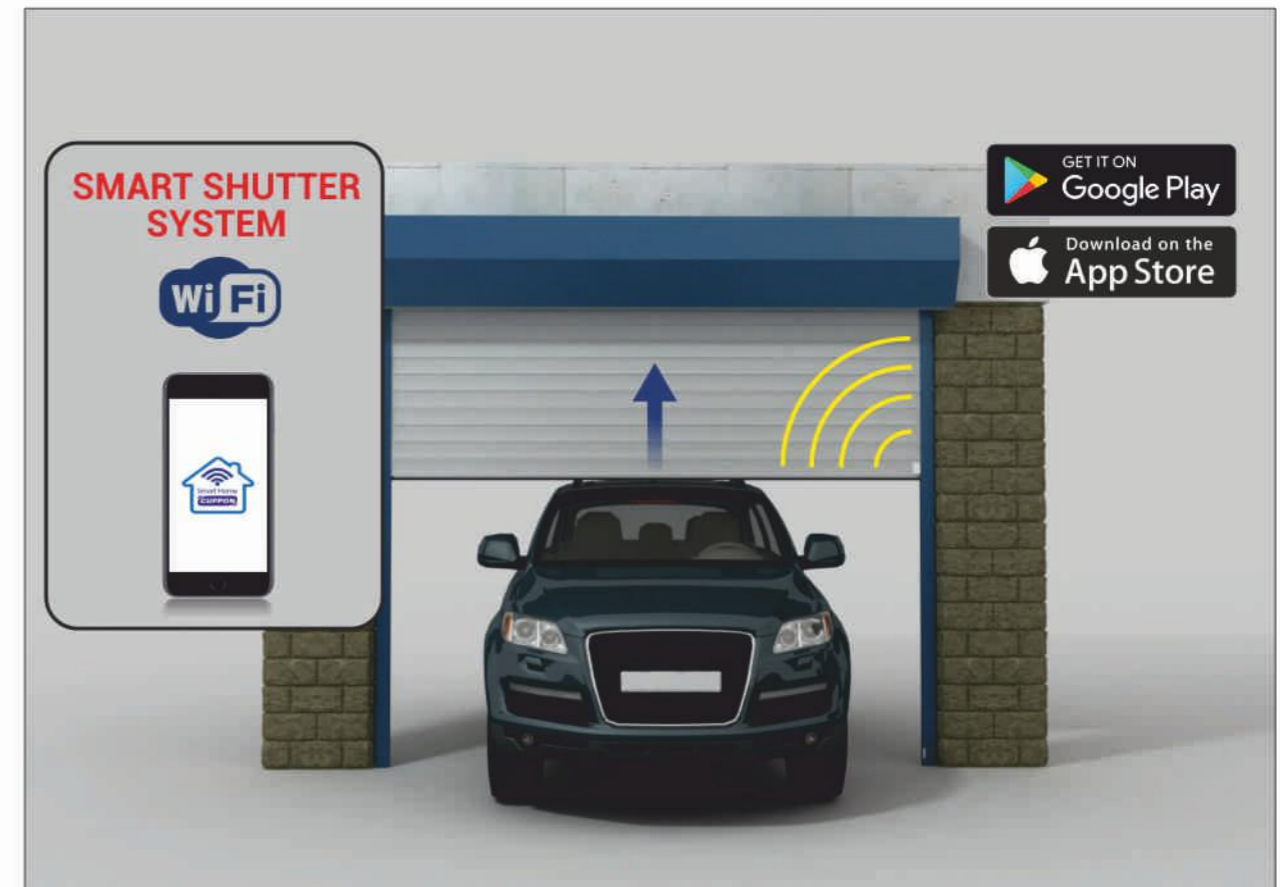
SSCARG06  
Resistance Rubber



## GARAGE OPENER SYSTEMS

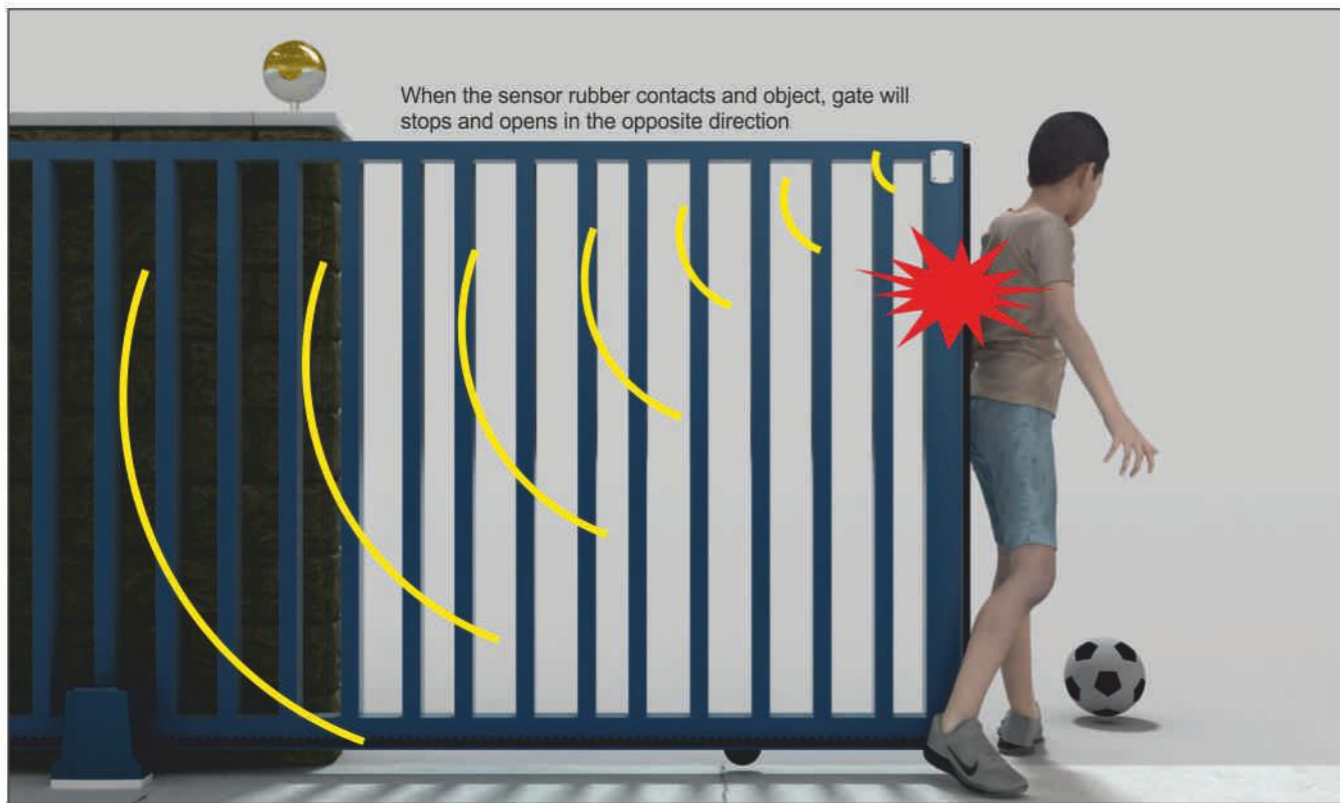


When the sensor rubber contacts any object, the door moves in the opposite direction.



## GARAGE OPENER SYSTEMS

### RESISTANCE PROTECTION SYSTEMS



## GARAGE OPENER SYSTEMS



**CUPPON**



**WELDING  
MACHINE**



Turkish Patent Institute Useful Model No: 201102002

WELDING  
MACHINE

## WELDING MACHINE



### S-200 A Inverter Welding Machine

- Product Code : S-200A
- Input Voltage : 220 VAC  $\pm$  10% /1 Phase
- Power Drawn From Grid : 4,7 kW @60% / 5.4 kW @35
- Frequency : 50/60 Hz
- Conversion Rate : 60% - 40%
- Output Current : 170-200 A
- Output Voltage : 25 V DC - 26 V DC
- Welding Current Range : 20 - 200 A
- Max. Open Circuit Voltage : 55 V.DC
- Value and Type of Fuse : 30 A time delay
- Protection : Fan cooling, thermo protection
- Unloaded Power : 40 W
- Efficiency : 85%
- Power Factor : 0,93
- Isolation Class : B
- Protection Class : IP 21
- Net Weight : 6.5 kg
- Dimensions : 295 x 330 x 140 mm

2 years guarentee ISO 9001:2000 and CE Certified\* Made in Turkey  
Ability to burn rutile and basic electrode in dimensions 2.00mm, 2,5 mm, 3.25 mm and 4.00 mm  
Turkish Patent Institute Design Registration No: 201102002







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