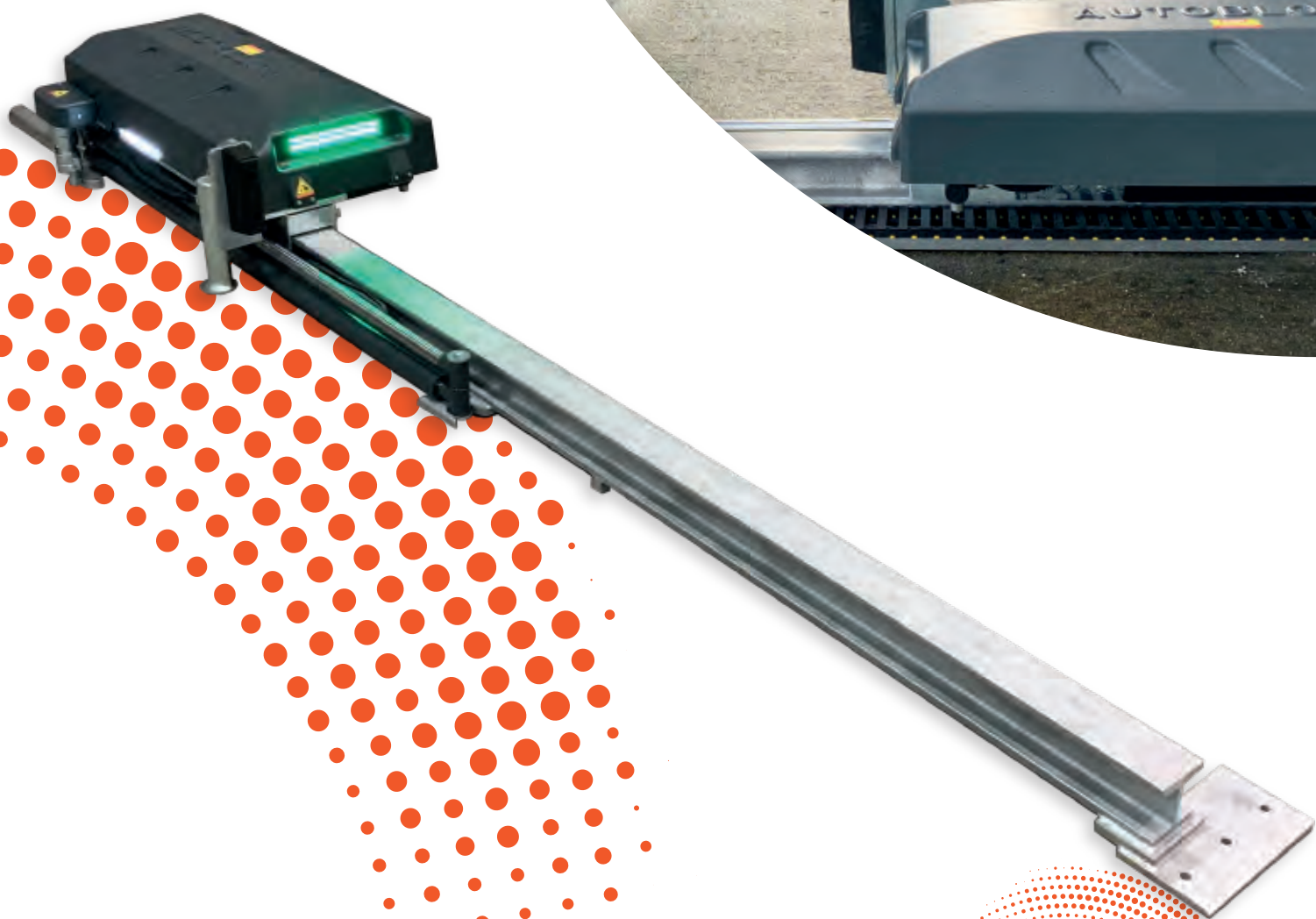


**AUTOBLOCK** 

EVOLUTION

AUTOMATIC VEHICLE  
RESTRAINT SYSTEM IN  
LOADING DOCKS AREA



**SystemBlock**

WORK SAFETY IN LOADING  
AND UNLOADING DOCKS

# System Block

## WORK SAFETY IN LOADING AND UNLOADING DOCKS

System Block CYM, SL is **distributor** for **Autoblock** and **Easyblock**, loading bays vehicle restraint systems.

### Values

#### SERVICE

We treat people how we would like to be treated. For this reason, we offer the service that we would like to receive.

#### INTEGRITY AND HONESTY

Are the founding values of our organization.

#### CONTINUOUS IMPROVEMENT

Active listening to our customers, users and drivers helps us to constantly evolve products.

#### APPRECIATION

We appreciate each opportunity and experience. This leads us to observe and comply with above mentioned values.

### Mission

Minimize as much as possible the risks of occupational accidents in the loading and unloading bays area.

Furthermore, System Block is linked with the sole worldwide manufacturer of such systems, Construccions Metàl·liques Casanova, S.A.

# AUTOBLOCK

## EVOLUTION



IT IS AN AUTOMATIC TRUCK RETENTION SYSTEM IN **LOADING AND UNLOADING DOCKS** DURING TRANSHIPMENT.

IT **GUARANTEES OCCUPATIONAL SAFETY** OF THE OPERATORS AND PREVENTS DRIVERS TO GET OFF THE TRUCK AND CROSS LOADING DOCK EXTERNAL AREA.

#### EASY TO USE.

THE OPERATOR HAS THE **FULL CONTROL** ON THE SYSTEM.  
IT FITS ALL **DIFFERENT KIND OF DOORS**: MANUAL AND AUTOMATIC. IT IS COMPATIBLE WITH 98% OF THE TRAILERS EXISTING ON THE MARKET.

IT COMPLIES WITH RELEVANT RECOMMENDATIONS ISSUED BY:

**IRRST** - INSTITUT DE RECHERCHE EN SANTÉ ET EN SÉCURITÉ DU TRAVAIL (CANADA)

**INRS** - INSTITUT NATIONAL DE RECHERCHE ET DE SÉCURITÉ (FRANCIA)

**INSST** - INSTITUTO NACIONAL DE SEGURIDAD Y SALUD EN EL TRABAJO (SPAGNA)

## FREEDOM

WE DON'T WANT YOU TO DEPEND ON US  
WE WORK HARD BECAUSE **YOU CHOOSE US.**

**Autoblock electrical components are standard, therefore easy to procure.**

If you have a Maintenance Team, **we will train them** in order to permit them to troubleshoot and correct minor issues.

## EVOLUTION



With our experience and thanks to contributions coming from clients, installers, users and drivers, our product has evolved and finally landed on the new **Autoblock Evolution**.

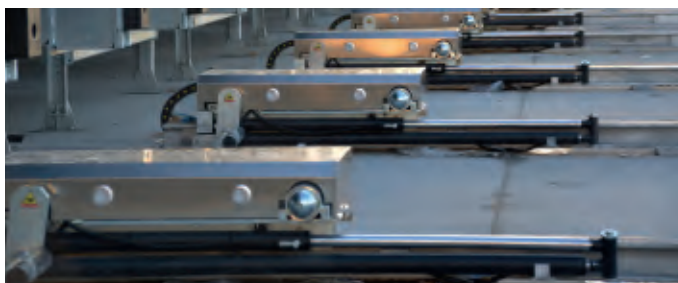
### 2019 - 2020

Detection arm made retractable: increased protection.  
Inox hood changed to resin: improved adaptability and aesthetic.  
Driver traffic light embedded in the resin hood.  
Tire detection by mean of optoelectronic sensor.  
Release of a new PLC software.



### 2018

Blocking arm improvement, added a foot.  
Cover protection thanks to a rubber stop.  
Electric system improvement.  
Release of a new PLC software.



### 2017

Improvement of tire detection arm.  
Inox steel cover improved.  
Improvement of hydraulic system.



### 2015

Autoblock has been presented during Preventica event in 2015. Here it was awarded the Prize for Innovation in Health and Safety.



# AUTOBLOCK EVOLUTION IS SAFETY

Prevention is always an advantage.

POSSIBLE ACCIDENTS PREVENTED	AUTOBLOCK EVOLUTION SAFETY
Fall from the dock Personnel entrapment	It doesn't permit to open loading dock door if the truck is not properly blocked by mean of Autoblock Evolution.
Forklift fall due to trailer natural displacement during loading operations.	Allowed distance between Autoblock Evolution blocking arm and the tire can range between 30 e 60mm. It can be regulated by mean of a optoelectronic sensor granting maximim accuracy.
Untimely leave of the truck.	It doesn't permit to release the trailer until loading dock door is closed.
Pedestrians run over	Blocking and releasing activities are only controlled by the operator from inside logistic base. This permits to prohibit personnel transit in the loading dock external area keeping it clear.



## AUTOBLOCK EVOLUTION FEATURES



### OPTOELECTRONIC SENSOR FOR MAXIMUM RESTRAINT ACCURACY

This is the most important improvement on the latest Autoblock Evolution model. This sensor allows the tire blocking with maximum precision. It allows tire detection, discarding the elements placed to protect the tire itself, by means of communication with the Autoblock Evolution configuration system.

The optoelectronic sensor can be calibrated by means of the potentiometer which must reach 800mm to ensure detection.

### EVOLUTION

### RESIN HOOD

In addition to a more pleasing aesthetic appearance, it offers a greater adaptability in the event of minor collisions or pressures.

### BUILT-IN TRAFFIC LIGHT

Two high-intensity LED strips incorporated into the Autoblock Evolution replace the traffic light on the facade and facilitate the driver's vision.

### RETRACTABLE TIRE DETECTION ARM

Tire detection arm remains retracted while Autoblock Evolution is in standby position, thus avoiding knocks and possible damages.

### AUXILIARY LED

It is a white LED strip equipped with a twilight sensor that helps the driver during the manoeuvre to approach the dock since it illuminates the area in which he will have to position the truck.

### WINTER / SUMMER MODES

Winter mode is recommended in areas with temperatures below 0 ° C. In this way the hydraulic system will be activated every 4 hours to keep the oleodynamic circuit in good condition.

The oil used is over 95% biodegradable and its freezing point is -25 ° C.



Retractable tire detection arm

## LUMINOUS AND ACOUSTIC INDICATORS

### OPERATOR

#### LUMINOUS INDICATORS

The two lights found in the electrical panel indicate the functions that the operator can perform:

##### Autoblock Evolution Standby position



- ☒ It is the Blockage button. When on, **green** color, it means that the Autoblock Evolution is in the standby position.
- ☒ This **red** LED indicates that the door cannot be opened nor the ramp activated.
- ☐ It is the Unblock button. When off, it means that the Evolution Autoblock is in the **standby** position.

##### Autoblock Evolution blocked position with closed door



- ☐ The Blockage button **is off**, this means that Autoblock Evolution is restraining the truck.
- ☒ **Green** LED, indicates that the door is closed and the ramp in rest position.
- ☒ The Unblock button is **green**, this means that the Autoblock Evolution is in the blocked position and can be unblocked.

##### Autoblock Evolution blocked position with opened door



- ☐ The Blockage button **is off**, this means that Autoblock Evolution is restraining the truck.
- ☒ **Green** LED, indicates that the door is open and that the ramp is active.
- ☐ The Unblock button is off and this means that the Autoblock Evolution is in the **blocked** position and the door is open therefore it cannot be unblocked.

### DRIVER

#### LUMINOUS INDICATORS

##### Green light

Indicates that the truck can enter or leave the loading bay area.



##### Red light

Indicates that the truck cannot leave loading bay because it is restrained.



### GENERAL ACOUSTIC INDICATORS

#### FOR OPERATOR AND DRIVER

An acoustic signal is activated during the movement of the **Autoblock Evolution**, both during the locking action and during the unlocking action. An acoustic signal is activated when some manoeuvres has not been carried out correctly. Under no circumstances the driver can withdraw the locking arm voluntarily.

## TECHNICAL FEATURES

### TECHNICAL FEATURES

<b>Weight</b>	780 kg
<b>Length</b>	4.500 mm
<b>Flooring</b>	Concrete
<b>Anchoring</b>	Mechanical anchor M16
<b>Blocking arm Ø</b>	Massive 110mm
<b>Blocking height*</b>	370 mm <small>*Consult us to verify the possibility of blocking at different heights.</small>
<b>Restrained vehicles</b>	From 750mm up to 1200mm tire Ø
<b>Mechanical resistance</b> (pressure exerted on the blocking arm)	More than 115kN

### ELECTRICAL SPECIFICATIONS

<b>Power supply</b>	400 V
<b>Required current</b>	7 A
<b>Control</b>	24 V CC

### HYDRAULIC SPECIFICATIONS

<b>Motor Oil</b>	1500 RPM 220/380 Triphasic
<b>Oil</b>	Biodegradable over 95%, BESLUX HIDRO – BAT 32

#### REGULATIONS, RECOMMENDATIONS

The AUTOBLOCK EVOLUTION system complies with the regulatory provisions defined in the Appendix of the European Directive 2006/42 / EC.

Furthermore, it complies with  
 Directive EMC 2014/30/ UE  
 IEC 60204-1:2007/A1:2009  
 ISO 4413:2011  
 ISO 13849-1:2016

#### IMPORTANT NOTICE

As a result to the constant evolution of the products, ASA FERMETURES reserves the right to modify or amend the commercial and technical characteristics of this product, without prior warning. The characteristics are published on an indicative basis and do not represent a compromise from ASA FERMETURES, SYSTEM BLOCK or their distributors.

Easyblock and Autoblock products are international patents registered by ASA FERMETURES.



**WORK SAFETY IN LOADING  
AND UNLOADING DOCKS**



\*Model Easyblock H50.

**AUTOBLOCK**   
EVOLUTION

**SystemBlock**

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**PREVENTIVE AND CORRECTIVE  
MAINTENANCE SERVICE.**

