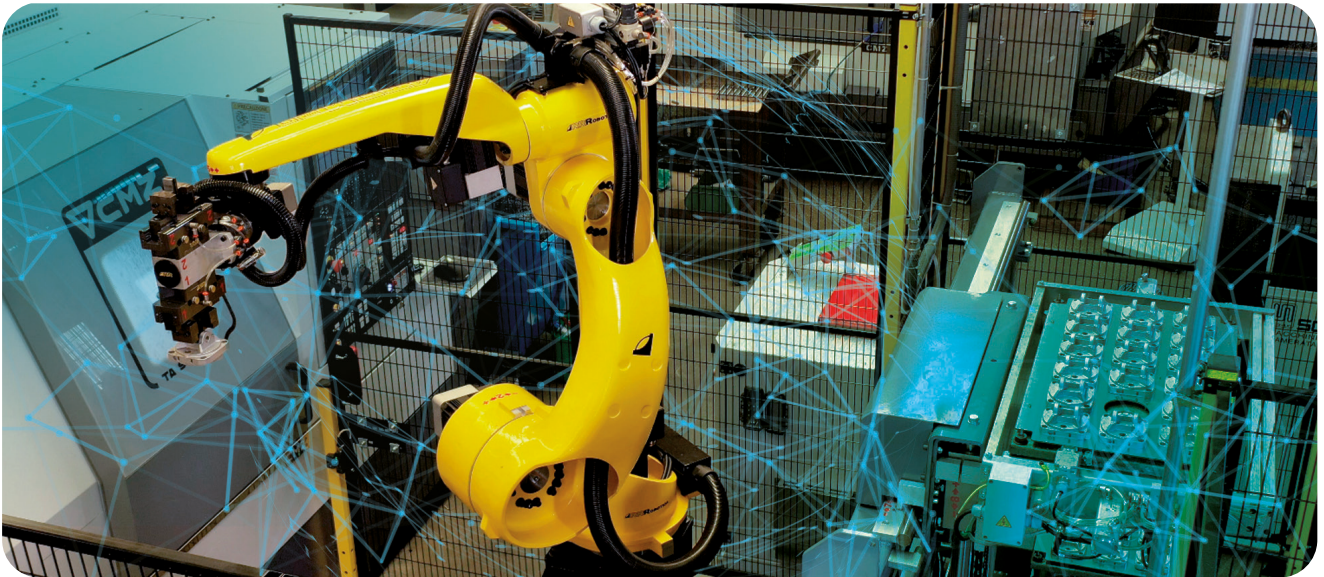


SEA[®] Journal



SEA SMART FACTORY

In 2018, we started the **digital transformation** of our industrial plant, in line with **Industry 4.0 principles**, by investing in a **high-tech numerical control machinery**. The main goal was to fully automate the production management and to facilitate the real-time monitoring and data analysis of the business processes in order to ensure higher efficiency and greater flexibility.

The interconnection of production machinery has made the dialogue between the plant and the central control system possible. In this way, in **SEA Smart Factory**, machines, people and systems fully collaborate, improving all internal and external business processes.

Most of our CNC machines are equipped with comprehensive, advanced software that allows us to have greater flexibility, from the initial setup to adaptive processes like product gauging and automatic compensations, reducing this way the manual intervention and saving time. The automation achieved allows us to run special production requests or to customize

products according our customers requirements in a very short time. Moreover, the CNC machines provide the possibility to make automatic production adjustments in real time helping the continuous improvement process and boosting the overall productivity.

Some other important benefits need to be mentioned, such us:

- Complete production processes' control
- Low quality products risk reduction
- Production continuity and downtimes prevention (predictive maintenance)
- Remote access to data
- Reduction of energy consumption costs

For us, this has been an important evolutionary step towards our industrial automation and plant digitalization, as we have improved not only the factory efficiency but the overall production performance and manufacturing process visibility.

CONTINUOUS SEARCH FOR INNOVATION

From the very beginning, we have made research and innovation our strengths with the commitment to offer cutting-edge solutions that satisfy our customers'

needs. We continuously invest time and efforts to develop new products that better suit the market evolution and our customers' requirements.

WE ARE PLEASED TO PRESENT YOU OUR LATEST PRODUCTS:

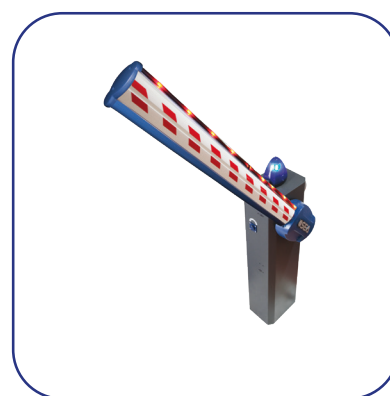
POSITION GATE RT



LEPUS INDUSTRIAL BR 36VDC



SPRINT BR 36VDC



POSITION GATE RT

Absolute encoder to be combined with SEA electronic control boards

The electronic device is an absolute encoder that allows to detect the exact position of the moving door and automatically finds slowdown points, avoiding the use of limit switches.

Position Gate Main advantages:

- Feedback for speed control during opening and closing of the gate
- Function of reversal on obstacle
- Storage of door position and in case of power failure or manual door release, no need to reset the zero point
- It's possible to mount it on already installed systems, without having to change the attacks and installation quotas (swing type operators)
- It allows to build plants in compliance with the requirements of the (UNI EN 12453:2017) regarding safety and impact forces

Test & Certifications Conformity

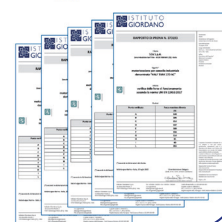
POSITION GATE RT

*Absolute Encoder
for swing, sliding gates and barriers*



*Test and Certification of Conformity
(UNI EN 12453:2017) regarding safety
and impact forces*

**ISTITUTO
GIORDANO**



The product has been certified by Istituto Giordano in accordance with UNI EN 12453:2017

Hydraulic operator FULL TANK 270 SC (230Vac)

Hydraulic operator COMPACT 800 AC 140° (36Vdc Brushless)

Hydraulic operator COMPACT 800 AC 140° (230V)

Hydraulic operator SUPER FULL TANK G4T AC (230Vac)

Hydraulic barrier SPRINT (36Vdc Brushless)

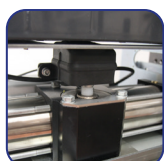
APPLICATIONS:

Operators for swing gates

Position Gate RT
Optional



Position Gate RT
Standard



Field



Super full
tank



Compact



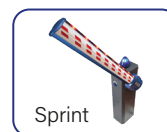
Full tank



Joint

Automatic Barriers

Position Gate RT

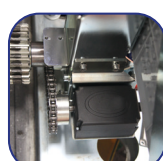


Sprint

standard for 36Vdc
optional for
120 Vac/2 30Vac

Operators for sliding gates

Position Gate RT



standard for BIG 4000
optional for LEPUS Industriale



Lepus
Industriale



Big

LEPUS INDUSTRIAL BR 36VDC



BRUSHLESS technology

Main functional characteristics:

- Gearmotor in oil bath for condominium sliding gates for max leaf weight up to 1000 kg
- Equipped with metal case
- Small operator with very compact sizes
- Industrial-Heavy Duty applications
- Additional battery back-up with solar panel KIT SUNNY
- Oil-bath lubrication in the gears reductions and electric motor
- Absolute Encoder built-in (POSITION GATE RT), for speed control during opening/clo-

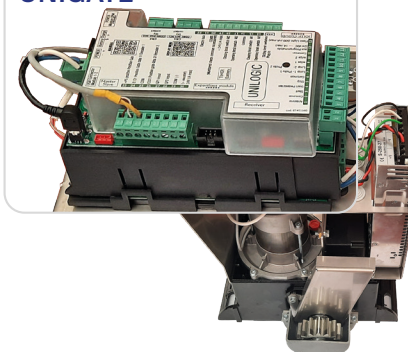
sing and function of reversal on obstacle. The electronic device allows to build plants in compliance with the requirements of the (UNI EN 12453:2017) regarding safety and impact forces.

Control unit **UNIGATE BR 36Vdc** on board, with display Lcd 2x8 characters and backlit, to set Ramps of Accelerations/Decelerations and Keep High Torque in Slow-Down.

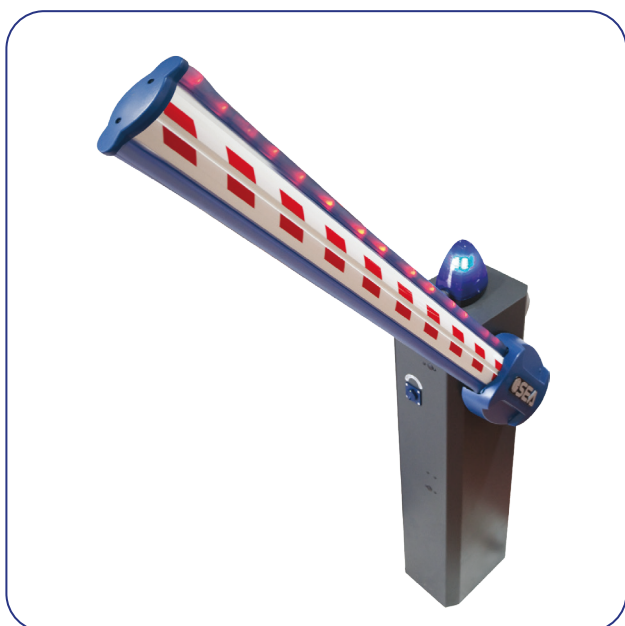
UNIGATE'S main advantages:

- Digital control unit with Lcd display
- Adjustable speed
- Adjustable acceleration/deceleration
- Continuous motor cycles
- High strength in slowdown
- Possibility to manage obstacle reverse

UNIGATE



SPRINT BRUSHLESS 36VDC



BRUSHLESS technology

Hydraulic barrier for passages up to up to 5 m

The product is equipped with:



Absolute encoder POSITION GATE RT (build-in Brushless model)



Bypass valves

Main functional characteristics:

- Hydraulic barrier for beam up to 5 m
- Possibility to add emergency batteries to guarantee the operation also in case of power failure
- Cataphoresis treated and polyester painted steel casing for long time lasting, INOX (316) steel casing available
- Absolute Encoder built-in for speed control during opening/closing and function of reversal on obstacle
- 36Vdc power supply
- Control unit UNIGATE* with brushless technology

*UNIGATE'S main advantages:

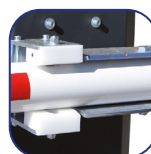
- Digital control unit with lcd display
- Adjustable speed
- Adjustable acceleration/deceleration
- Continuous motor cycles
- High strength in slowdown
- Possibility to manage obstacle reverse

Sprint Brushless Main advantages:

- More duty cycles
- More torque
- Speed (adjustable)



Strip Led - IP 67 (optional)



Quick release on request (optional)



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