

HIGH SPEED

ANIMAL INSTINCT, DIGITAL SPEED



WHAT WE DO

INNOVATION, TOP NOTCH MECHANICS AND NEVER-ENDING TECHNOLOGICAL RESEARCH ARE THE ELEMENTS THAT MAKE ROGER TECHNOLOGY A UNIQUE AND DIFFERENT COMPANY

Starting from our first day of work we immediately gave priority to the development and production of excellent, completely Italian mechanics, based only on top quality ferrous and non ferrous raw materials and guaranteed by impeccable production and surface treatment processes. It was just a few years later, in the 1990s, that we created the first major step in our history, by implementing a mass production line for completely robotised motors, thus becoming a reference outsourcer for major brands of the gate automation market.

PEOPLE, IDEAS AND PRODUCT EXPERIENCE

From the very beginning Roger Technology has evolved and grown because it's people believe that any bright idea can lead to great change in the future. Our people are passionate and innovative in their approach to every challenge, always pushing the boundaries to develop extraordinary products.

In our language we translate the word "experience" as passion. It is this passion that drives us in the development of revolutionary **new products** that serve the real needs of our customers. We understand that our customers want a product designed around the way that they work.

*Primo Florian
Founding partner
Engineering
and design*

*Dino Florian
Founding President
Development
and design*

*Renato Florian
Founding partner
Assembly
and quality*





HIGH SPEED

WE'LL SHOW YOU A FASTER WAY TO WATCH YOUR GATE MOVE!
THE ROGER TECHNOLOGY SOLUTION FOR A FASTER GATE.

With the new high speed line, digital HIGH SPEED, it is possible to open and close your gate at very high speed, with maximum elegance and **more than doubling the decrease in waiting times** of other operators for gate automation.

We are offering you the ideal solution for all installations that require very fast manoeuvre times, intensive use, maximum movement elegance and total safety during the movement and obstacle detection phases.

THE DIGITAL SPEED TAKES OFF



COMPLETELY BRUSHLESS

THE REVOLUTIONARY DIGITAL MOTOR WITH 12 UNIQUE FEATURES



3-PHASE DIGITAL BRUSHLESS MOTOR

A very powerful motor with substantial torque. The motor is compact and neat due to the special concentrated coil windings, it is powered by a **three phase sinusoidal system**.



NO PROBLEM IN THE EVENT OF POWER FAILURE

With the help of internal or external batteries and the associated battery charging card, your automation system continues to operate for a considerable time **even during prolonged power cuts**, ensuring many more operations than traditional technologies.



SPEED, ACCELERATION AND DECELERATION WITH EXTREME ELEGANCE

The automation system with brushless digital technology creates perfect and elegant movements. With a constant **force and torque** at every point and with the option of varying the speed on deceleration and acceleration the system can be managed with maximum safety.



EXTREMELY LOW ENERGY CONSUMPTION

A motor that can operate at low voltage in super-intensive use and which can operate in environments with extremely demanding weather conditions while maintaining **very low energy consumption and absorption levels**.



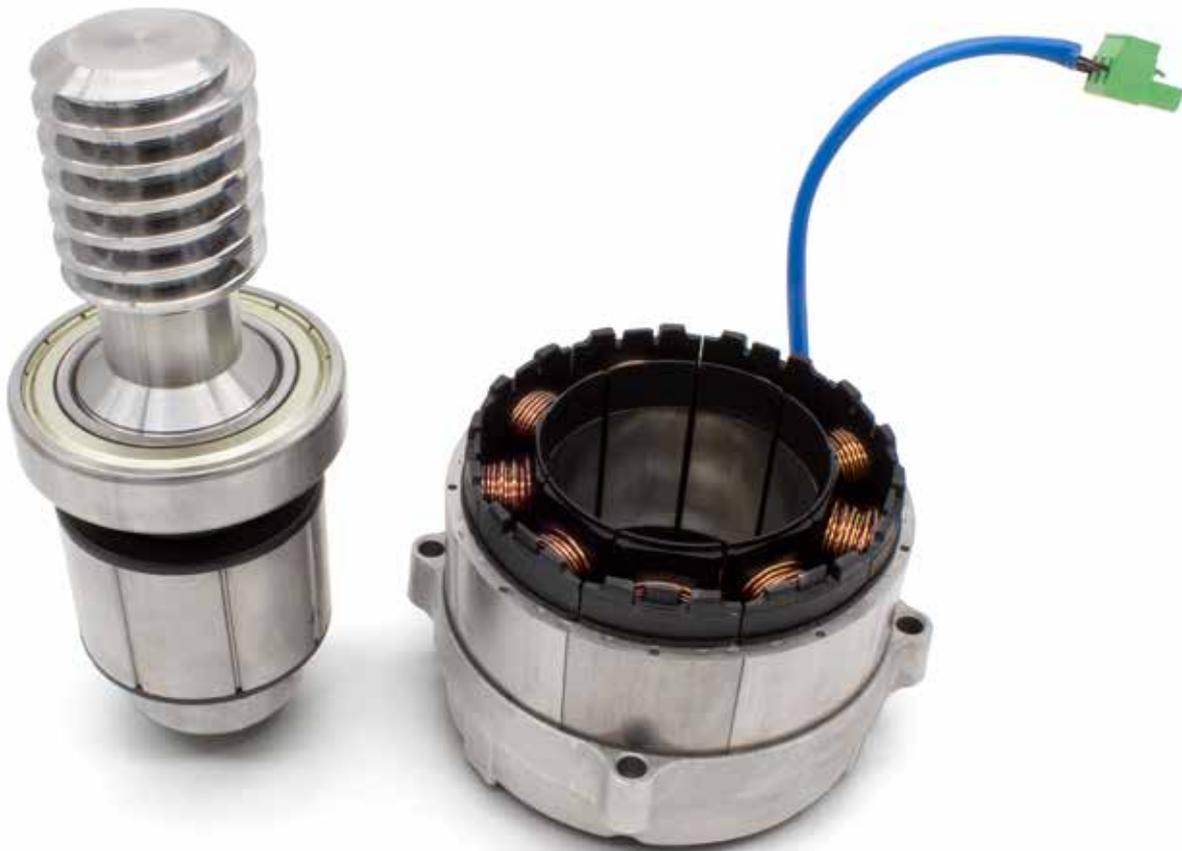
DIGITAL AND VECTORIAL AUTOMATION CONTROLLER

The BRUSHLESS digital controller, which operates at low voltage **24V/36V DC**, allows 100% control of the automation system in digital mode. Due to its operation entirely based on a DSP microcontroller the travel and all the movements of your automation system can therefore be programmed and customised easily, precisely and elegantly.



MOTOR AT AMBIENT TEMPERATURE

The brushless motor was created with the main goal of being a motor for super intensive use and **with a 99% efficiency**. Regardless of how many operations the engine performs in a day, it always remains cold or at the most reaches the outside ambient temperature.



THE DIGITAL SILENCE OF THE MOTOR

One great impact is the **silence** or the near absence of noise, generated by the BRUSHLESS motor during all its movements.



MOTOR FOR SUPER-INTENSIVE USE

We wanted to surprise our customers with a product that was fundamentally different to any other product on the market. Fact: our motor remains **permanently cold** even after many days of super intensive use.



IMPACT, OBSTACLE DETECTION AND REVERSAL IN TOTAL SAFETY

Thanks to digital technology we are able to **detect an obstacle** and reverse the motor instantly, by simply specifying the torque of the motor, the sensitivity, the time and the travel of the reversal. All in full compliance with safety requirements.



ONBOARD NATIVE DIGITAL ENCODER

The BRUSHLESS motor has a highly advanced **native digital encoder** that controls management of automation systems in a safe, precise and extremely elegant manner.



SIMPLE INSTALLATION WITH A SINGLE 3-WIRE CABLE

The BRUSHLESS motor can be installed by simply connecting it using three wires! What could be easier? This will provide full digital management of your automation system thanks to the **SENSELESS** and **SENSORED** (absolute encoder) technology incorporated in the BRUSHLESS sliding gate motors.



ADVANCED PRECISION ENGINEERING TO OBTAIN OPTIMAL MOTOR PERFORMANCE

We have created a mechanism that gives you the opportunity to get **the maximum performance out of the motor**. A product which combines the quality of the internal production processes, the mechanical processing and the use of high quality ferrous and non-ferrous materials.

HIGH SPEED



WE'LL SHOW YOU A FASTER WAY TO WATCH YOUR GATE MOVE

1

100% FASTER

HIGH SPEED technology allows your automation to open and close 100 % faster.

2

SEPARATE SPEED MANAGEMENT ON OPENING AND CLOSING

The Brushless Digital control allows you to customize the opening and closing of your automation with completely independent speeds.

3

SEPARATE MANAGEMENT SLOWDOWN IN OPENING AND CLOSING

The Digital Brushless control allows to set the slowdowns, the speed and their starting point in a completely different way both when opening and closing each motor.

4

ACCELERATION MANAGEMENT ON OPENING AND CLOSING

Thanks to the Brushless Digital control it is possible to set the accelerations and the relative speed with absolute freedom both when opening and closing.

5

SAFETY AND OBSTACLE DETECTION AT MAXIMUM SPEED

HIGH SPEED technology gives you the advantage of being able to move your automation at very high speed while maintaining safety and efficient obstacle detection as your main objective.

6

INTENSIVE USE WITH VERY LOW CONSUMPTION

The HIGH SPEED technology, regardless of the maximum speed of movement, guarantees a super intensive use of your automation, keeping power consumption extremely low and the motor temperature always cold.



HIGH SPEED technology is suitable for sliding gates, swing gates and automatic barriers.

THE RANGE OF HIGH SPEED DIGITAL MOTORS

THE RANGE OF SOLUTIONS FOR DIGITAL INSTALLATIONS WITH FAST MANOEUVRING TIMES, INTENSIVE USE, MAXIMUM ELEGANCE AND TOTAL SAFETY

SLIDING GATES



BM30



BH30



BG30

SWING GATES



BE20



SMARTY4

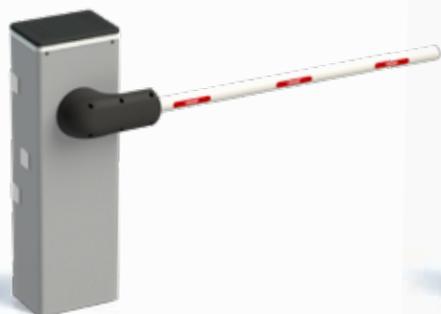


BR21

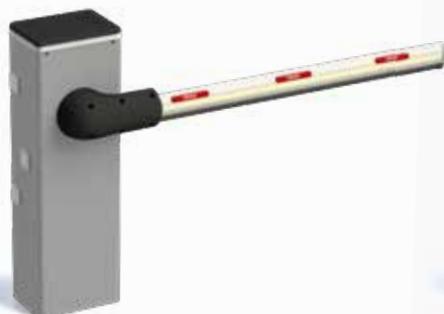


AYRON

AUTOMATIC BARRIERS



BI/001PC



BI/001PE



BI/004 (with boom up to 3 mt)



SLIDING GATES



	BM30/304/HS	BH30/604/HS	BG30/1004/HS	BG30/1504/HS	BG30/1804/HS
DESCRIPTION	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, irreversible, ideal for sliding gates up to 400 kg with built-in digital controller B70 series, magnetic limit switch.	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 600 kg with built-in digital controller B70 series, magnetic limit switch.	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 1000 kg with built-in digital controller B70 series, magnetic limit switch.	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 1500 kg with built-in digital controller B70 series, with magnetic limit switch.	Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 1800 kg with built-in digital controller B70 series, with magnetic limit switch.
MAX GATE WEIGHT	400 kg	600 kg	1000 kg	1500 kg	1800 kg
POWER LINE SUPPLY	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz
MOTOR POWER SUPPLY	24V	24V	36V	36V	36V
POWER RATING	125W	130W	590W	650W	650W
FREQUENCY OF USE	Intensive use 	Intensive use 	Intensive use 	Intensive use 	Intensive use 
THRUST	50 - 350N	50 - 500N	50 - 800N	50 - 1000N	50 - 1250N
OPERATING TEMPERATURE	-20+55°C	-20+55°C	-20+55°C	-20+55°C	-20+55°C
PROTECTION LEVEL	IP43	IP43	IP43	IP43	IP43
REDUCTOR TYPE	Irreversible	Irreversible	Irreversible	Irreversible	Irreversible
MANOEUVRE SPEED	26 m/min (0.44 m/s)	26 m/min (0.4 m/s)	20 m/min (0.33 m/s)	25 m/min (0.42 m/s)	18 m/min (0.30 m/s)
LIMIT SWITCH	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
ONBOARD CONTROL UNIT	B70/1DC	B70/1DC	B70/1DCHP	B70/1DCHP	B70/1DCHP
ENCODER	Digital native encoder + magnetic digital SENSORED, 4096 PPR	Digital native encoder + magnetic digital SENSORED, 4096 PPR	Digital native encoder + magnetic digital SENSORED, 4096 PPR	Digital native encoder + magnetic digital SENSORED, 4096 PPR	Digital native encoder + magnetic digital SENSORED, 4096 PPR
BATTERIES RECOVERY	/	Optional 2 internal battery 12V 1,2AH Optional 2 external battery 12V 4,5AH	Optional 2 external battery 12V 4,5AH	Optional 2 external battery 12V 4,5AH	Optional 2 external battery 12V 4,5AH
TYPE EXIT GEAR	Z15/mod 4	Z15/mod 4	Z17/mod 4	Z20/mod 4	Z17/mod 4
OPERATING CYCLES PER DAY (OPENING/CLOSING - 24 HOURS NO STOP)	500	800	800	800	800
MAXIMUM DIMENSION PRODUCT IN MM (L X W X H)	250 x 165 x 290	315 x 165,8 x 329	346 x 180 x 362	346 x 180 x 362	346 x 180 x 362
PRODUCT WEIGHT PACKED (KG)	10,7	11,9	19,6	20,1	20,1





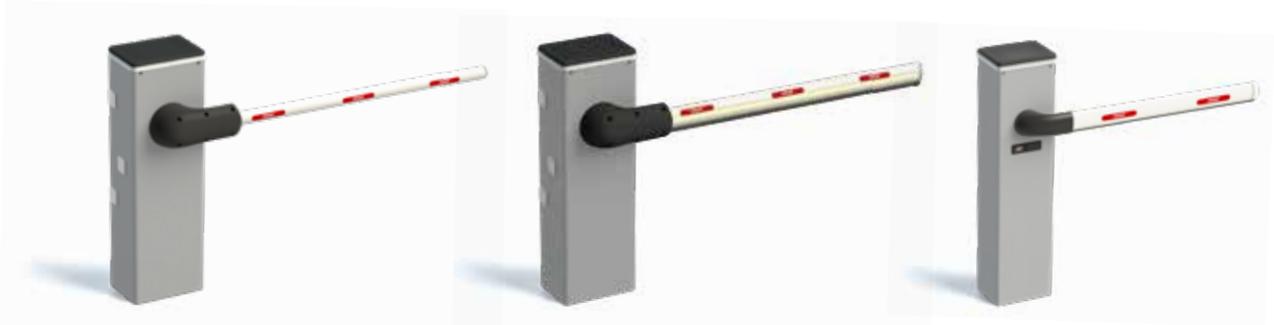
SWING GATES



	BE20/200/HS	SMARTY4/HS	BR21/351/HS BR21/361/HS	AY/250/M AY/250/S
DESCRIPTION	Electromechanical actuator BRUSHLESS HIGH SPEED, low voltage, super intensive use, with native encoder onboard, irreversible, ideal for swing gates with leaf up to 2,5 mt length, with mechanical stopper in opening and closing.	Low voltage HIGH SPEED Irreversible BRUSHLESS electromechanical gear motor for extremely heavy duty. For swing gates with gate leaf up to 4 m.	Electromechanical underground motor, BRUSHLESS HIGH SPEED, low voltage, super intensive use, with native encoder onboard, irreversible, ideal for swing gates with leaf up to 3 mt.	Electromechanical motor BRUSHLESS HIGH SPEED, low voltage, super intensive use, with native encoder onboard, irreversible, ideal for swing gates with leaf up to 2,5 mt length, with mechanical stopper in opening and closing.
POWER LINE SUPPLY	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz
MOTOR POWER SUPPLY	36V	36V	36V	24V DC
POWER RATING	200W	200W	200W	160W
FREQUENCY OF USE	Intensive use 	Intensive use 	Intensive use 	Intensive use 
TORQUE	/	/	50 - 200 N m	/
THRUST	100 - 2200N	600 - 4500N	/	50 - 200N
OPERATING TEMPERATURE	-20 C° +55 C°	-20 C° +55 C°	-20+55°C	-20 C° +55 C°
PROTECTION LEVEL	IP43	IP44	IP67	IP43
REDUCTOR TYPE	Irreversible	Irreversible	Irreversible	Irreversible
MANOEUVRE SPEED	3 cm/s	2 - 1 cm/s	2 Rpm	4 - 1,5 Rpm
OPENING TIME AT 90°	10-15 s	15-25 s	10-25 s	10-18 s
STROKE	400 mm	370 mm	/	350-450 mm
LIMIT SWITCH	Mechanical stopper in opening and closing	Mechanical stopper in opening and closing	Mechanical stoppers	Mechanical stopper in opening and closing
DIGITAL CONTROLLERS	230V: EDGE1/BOX - 115V: EDGE1/BOX/115	230V: EDGE1/BOX - 115V: EDGE1/BOX/115	230V: EDGE1/BOX - 115V: EDGE1/BOX/115	AY/250/M: On board (B70/2ML) AY/250/S: Not present
RELEASE SYSTEM	/	/	/	Internal lever or external lever with cord (optional)
ENCODER	Digital native encoder SENSORLESS 48 PPR	Digital native encoder SENSORLESS 48 PPR	Digital native encoder SENSORLESS 48 PPR	Digital native encoder SENSORLESS 48 PPR
MAXIMUM OPENING	/	/	105° (optional 125° - 360°)	/
POWER SUPPLY CABLE LENGTH	/	/	Standard version with 2 mt cable (BR21/351/HS) Standard version with 10 mt cable (BR21/361/HS)	/
BEARING ON MAIN SHAFT	/	/	Standard	/
OPERATING CYCLES PER DAY (OPENING/CLOSING - 24 HOURS NO STOP)	800	1000	1300	800
MAXIMUM DIMENSION PRODUCT IN MM (L X W X H)	867 x 105 x 155	1162 x 116 x 165	345 x 224 x 144	189 x 245 x 270 (330)
PRODUCT WEIGHT PACKED (KG)	8	16,5	12,8	13,2 (AY/250/M) 10,1 (AY/250/S)



AUTOMATIC BARRIERS



	BI/001PC - BI/001PC/115	BI/001PE	BI/004 - BI/004/115
DESCRIPTION	BRUSHLESS 36V DC Barrier	BRUSHLESS 36V DC Barrier	BRUSHLESS 36V DC Barrier
BOOM	up to 3 m	up to 3 m	up to 3 m
LINE POWER SUPPLY	230V AC - 115V AC 50/60Hz +-10%	230V AC 50/60Hz +-10%	230V AC - 115V AC 50/60Hz +-10%
BRUSHLESS MOTOR POWER SUPPLY	36V	36V	36V
MAX POWER	450W	450W	220W
FREQUENCY OF USE	Continuous	Super Intensive 	Continuous
OPERATING TEMPERATURE	-20 +55°C	-20 +55°C	-20 +55°C
DEGREE OF PROTECTION	IP54	IP54	IP54
OPEN TIME 90°	From 1 to 3 s	From 2 to 4 s	From 1,5 to 6 s (with boom up to 3 mt)
ENCODER	Absolute digital encoder	Absolute digital encoder	Absolute digital encoder
TYPOLOGY ENCODER	Digital SENSORED	Digital SENSORED	Digital SENSORED
ONBOARD CONTROL UNIT	CTRL/P	CTRL/P	CTRL
DAILY OPERATION CYCLES (OPEN / CLOSE - 24 HOURS NON-STOP)	12000	8000	5000
PACKAGED PRODUCT WEIGHT	87,6 kg	72 kg	47 kg
DIMENSIONS	380 x 270 x 1237 (L x P x H)	380 x 270 x 1237 (L x P x H)	287 x 310 x 1.203 (L x P x H)
RELEASE	Release of reduction gear on bearings, with European cylinder key	Release of reduction gear on bearings, with European cylinder key	Handle with a twin-acting elliptical lever and key with a STANDARD cylinder
EXP B-CONNECT INPUT PREDISPOSITION	✓	✓	✓
NUMBER OF PACKAGES PER PALLET	6	6	8



Brushless Motor



Intensive Use



High Speed Motor



Reversible Motor

CONTROL AND SAFETY SYSTEMS

CONTROL SYSTEMS



2 and 4-channel transmitters with hybrid rolling code and fixed code technology with integrated self-learning functionality

SAFETY DEVICES (PHOTOCELLS)



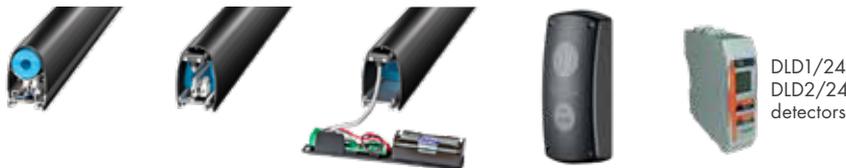
F2/F4 series fixed, adjustable and synchronised photocells for integrated connection to control units with anti-vandal devices

CONTROL DEVICES



Digital keypad and key selectors in outdoor or flush-mounted version in wired or wireless mode

DETECTION DEVICES



DLD1/24
DLD2/24
detectors

Obstacle detection devices with sensitive and magnetic edges in passive, mechanical and resistive technology with wired and wireless communication technology

LIGHTING DEVICES



LED signalling and courtesy light for 24V DC - 230V AC flashing light management for residential and industrial sector

IP CONTROL DEVICE (B-CONNECT)



IP connector for total management of BRUSHLESS digital controllers in web browser mode



PREMIUM DEALER / PROFESSIONAL DEALER



100% Made in Italy

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