



# ABACUS 220

**COMUNELLO**  
AUTOMATION

Electromechanical spindle actuators for residential swing gates.

For leaves up to 2.20 m (max. leaf weight 200 kg) and up to 300 kg (max. leaf length 1.2 m)



**ABACUS 220**

For swing leaves  
up to 2.20 m / 300 kg

All products in the Abacus line have a one-piece aluminium housing for the mechanical parts and operators which guarantees durability and safety. These products are designed to be long-lasting and perform to the highest standards in all weathers. Highest safety and reliability are guaranteed. The internal gearing is made from innovative materials for quiet movement. Simple to install and maintain.



ARTICLE	ABACUS 220 24V FM	ABACUS 220 24V FE	ABACUS 220 24V FE E	ABACUS 220 230V FM	ABACUS 220 230V FM E
Voltage	24 VDC	24 VDC	24 VDC	230 VAC	230 VAC
Power consumption	70 W	70 W	70 W	180 W	180 W
Max. absorption.	3 A	3 A	3 A	0,8 A	0,8 A
Max. thrust	1500 N	1500 N	1400 N	1400 N	1400 N
Standard stroke	296 mm	296 mm	296 mm	296 mm	296 mm
Duty cycle	Intensive use	Intensive use	Intensive use	50%	50%
Protection degree (IP)	IP44	IP44	IP44	IP44	IP44
Insulation class	2	2	2	1 (earthing)	1 (earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C
Encoder	-	-	Yes	-	Yes
No-load speed	18 mm/s	18 mm/s	18 mm/s	16 mm/s	16 mm/s
Weight	8 kg	8 kg	8 kg	8,6 kg	8,6 kg



# ABACUS 220

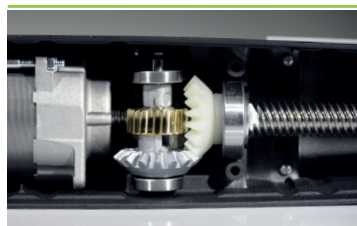
**COMUNELLO**  
AUTOMATION

## STRONG



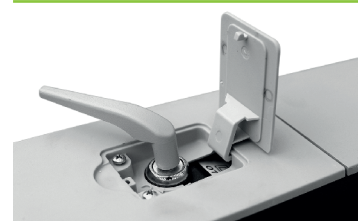
Monoblock aluminium casing  
Epoxy powder coating for max. resistance to  
all weather conditions.

## MECHANICAL MADE IN COMUNELLO



Metallic gear reducer and bearings. Multiple  
start worm screw for smooth movement.

## SAFE



Irreversible motor  
Easy-opening key-operated emergency  
release mechanism with aluminium handle.

## LIMIT STOPS



Available versions with mechanical or  
electronic limit switches. Programmable  
automatic/semiautomatic limit switches,  
timer and speed reducer.

## RELIABLE



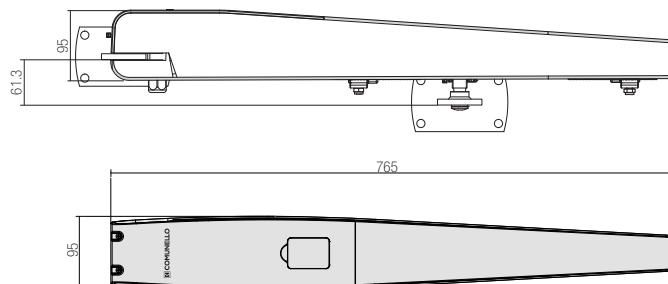
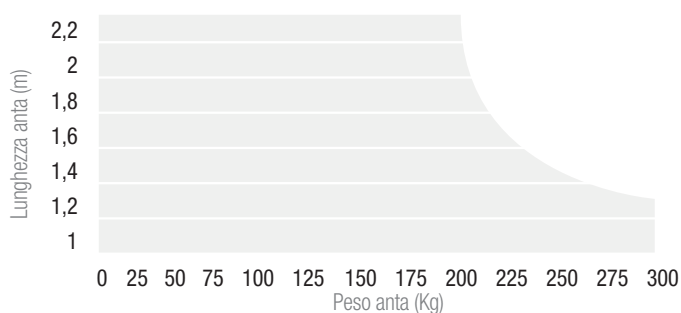
Bronze lead nut for quiet movement even  
under full load.

## OBSTACLE DETECTION



Optional versions with Encoder for more  
accurate and safer deceleration.

## OPERATING LIMITS



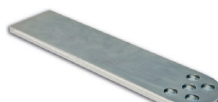
## MAIN FITTINGS



**AC 30**  
OUTDOOR ANTENNA



**AC 70**  
GALVANISED ADJUSTABLE REAR  
BRACKET



**AC 80**  
GALVANISED LONG REAR BRACKET



**AC 85**  
GALVANISED ADJUSTABLE FRONT  
BRACKET



**AC 10**  
12 V HORIZONTAL ELECTRIC LOCK



**QUAD 1 / QUAD 2 / QUAD HP**  
ELECTRIC SWITCHBOARD FOR 1 OR 2  
OPERATORS



**DART**  
PHOTOCELLS



**SWIFT LED**  
BLINKING WARNING LIGHTS



**VICTOR 2 RC**  
2 CHANNEL, ROLLING CODE REMOTE  
CONTROL



**INDEX**  
KEY SELECTOR SWITCH



**TACT RADIO**  
DIGITAL SWITCH WITH RADIO CON-  
TROLLED KEYPAD



**MAST 50**  
EXTRUDED ALUMINIUM COLUMN H  
50 CM

PLEASE FIND A COMPLETE LIST OF ACCESSORIES ON [WWW.COMUNELLO.COM](http://WWW.COMUNELLO.COM)