



Facil - Arc

Articulated Arm Automations
for Swing Gates



Facil - Arc



The Ideal Solution for Complex Applications

The most appropriate words to describe Facil and Arc automations are ease of use and flexibility. Irreversible electromechanical automations for swing gates, they are the ideal solution for heavy duty applications. Quiet and sturdy, they are easy to install and can be connected to any application, however complex, such as wings supported by very large or out-of-plumb pillars. Facil and Arc have been designed to ensure ease of installation and connection, as well as suitability to use with different types of motor and its practicality.

For both actuators, the ABS guard ensures a good weather resistance and boasts high quality and elegant finishes, simple and clean lines, and perfectly blends to any type of entrance.

Facil has also been designed to accommodate a cord-operated release system and a reduction unit disconnected indication microswitch. The automation comes complete with adjustable mechanical stops.



Facil



Arc

Technical Specifications

	FACIL 3	FACIL 3E	FACIL 3H	ARC 1BH
Description: Electromechanical actuator	irreversible for up to 2.3 m wide wings (230 V~ motor)	irreversible for up to 2.3 m wide wings (230 V~ motor)	irreversible for up to 2.3 m wide wings (24 V= motor)	irreversible for up to 5 m wide wings (24 V= motor)
Maximum capacity	200 kg x 2.3 m 300 kg x 1 m	200 kg x 2.3 m 300 kg x 1 m	200 kg x 2.3 m 300 kg x 1 m	500 kg x 3 m 250 kg x 5 m
Duty class	3 - medium	3 - medium	3 - heavy	4 - heavy
Intermittent operation	S2 = 15 min S3 = 25%	S2 = 15 min S3 = 25%	S2 = 30 min S3 = 50%	S2 = 30 min S3 = 50%
Power supply	230 V~ / 50 Hz	230 V~ / 50 Hz	24 V=	24 V=
Insulation class	class 1	class 1	class 3	class 3
Input	1.2 A	1.2 A	8 A	12 A
Torque	240 Nm	240 Nm	200 Nm	300 Nm
Opening time	22 s/90°	22 s/90°	12÷32 s/90°	15÷30 s/90°
Maximum opening	135°	135°	135°	130°
Release system for manual opening	key operated	key operated	key operated	key operated
Operating temperature	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C
Protection rating	IP 54	IP 54	IP 54	IP 54
Product dimensions (mm)	188x285x332	188x285x332	188x285x332	374x130x150
Control panel	E2 LOGIC M	E2 (built in)	VIVA H	VIVA H

▶ No problem in case of power failure

The key operated, easily accessible release door is built into the front of the cast aluminium casing.



The Deb 04 device, which is easily operated with a cord, allows the automation to be remotely controlled without opening the door.



▶ Carefully designed with safety in mind

The shape of the articulated arm and its connection to the casing have been designed to avoid any shearing problems.



Facil is fitted with built in and adjustable open-close mechanical stops. A limit switch unit can be installed to supply visual indicators or to stop the wing.

▶ Ready and easy to install

An industry first, Facil features a built in electronic panel.

In the 230 V AC version, the E2 control panel is built in and can easily be removed, which leads to obvious advantages during the installation stage and any maintenance operations carried out on the automation.

After removing the guard, the see through control panel enclosure can be taken out to reveal the controls, and opened with a simple action to access all electrical connections.

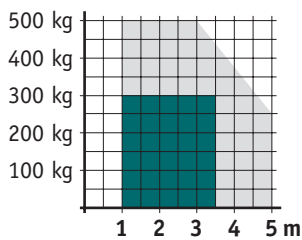


▶ Installation options

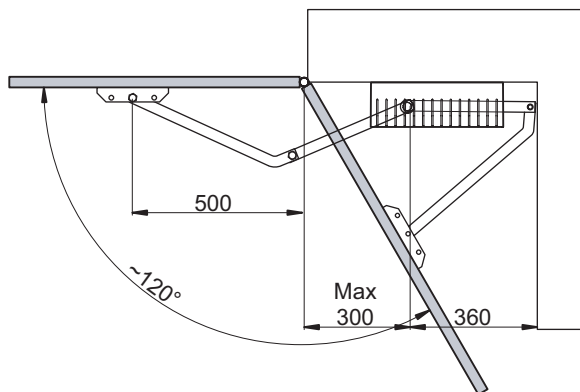
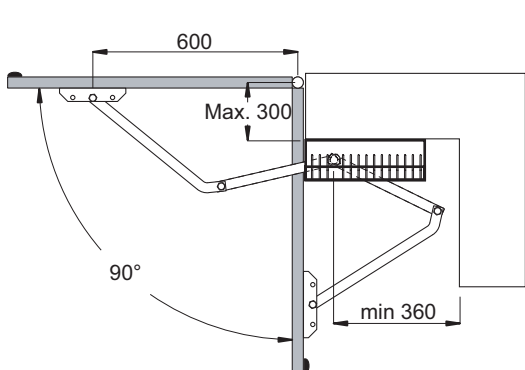
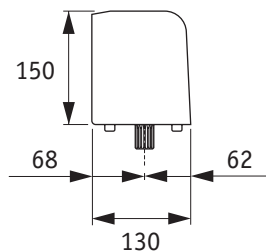
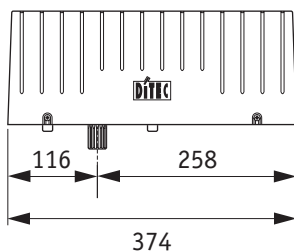
Facil also allows the customer to select the most appropriate gate automation between two options: 1 actuator with built in control panel and 1 without control panel or 2 actuators with external panel.

Operating Data Diagrams

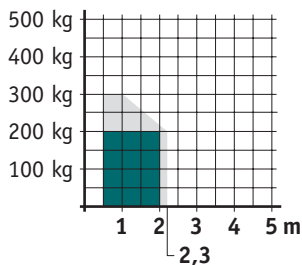
Arc 1BH



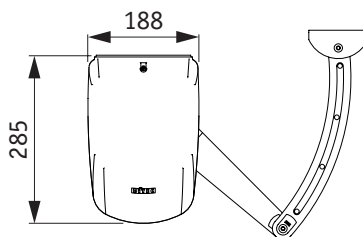
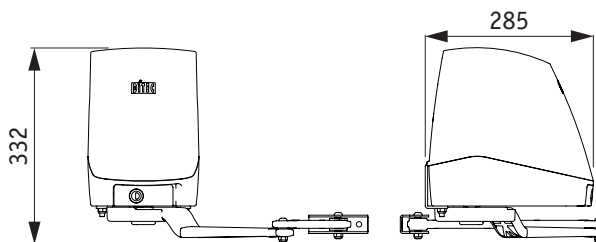
Recommended use
 Operation limit



Facil

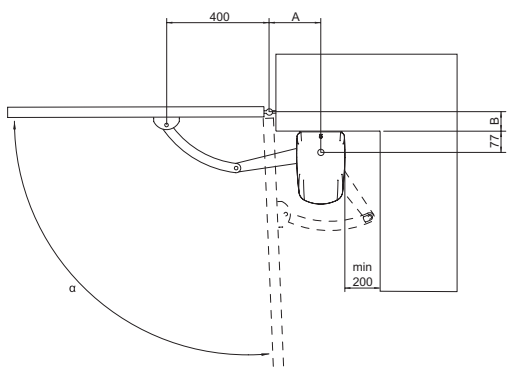


Recommended use
 Operation limit













































The new Facil automation is long and narrow in order to accommodate the control panel and to make it the ideal solution for very narrow posts.

To ensure suitability for reduced operating space, a special version has been designed, featuring a cast aluminium sliding arm.



		A (mm)								
		120	130	140	150	160	170	180	190	200
B (mm)	0	90°	90°	95°	95°	100°	100°	105°	105°	110°
	50	90°	90°	95°	95°	95°	95°	95°	95°	95°
	100	90°	90°	90°	90°	90°	90°	90°	90°	/
	150	90°	90°	90°	90°	90°	90°	90°	/	/
	200	90°	90°	90°	90°	90°	/	/	/	/

▶ System and Control Panel Main Functions

	FACIL 3 - FACIL 3E	FACIL 3	FACIL 3H - ARC 1BH
	E2	LOGIC M	VIVA H
Description: Control panel	for 1 or 2 motors 230 V~ with built in radio	for 1 or 2 motors 230 V~	for 1 or 2 motors 24 V=
Mains power supply	230 V~ / 50 Hz	230 V~ / 50 Hz	230 V~ / 50-60 Hz
Batteries (ensure gate operation in the event of power cuts)			 (optional)
Number of motors	1 or 2	1 or 2	1 or 2
Motor power supply	230 V~ / 1 x 5 A 230 V~ / 2 x 2.5 A	230 V~ / 1 x 5 A 230 V~ / 2 x 2.5 A	24 V= / 2 x 12 A
Accessories power supply	24 V= / 0.5 A	24 V= / 0.5 A	24 V= / 0.5 A
Electrically operated lock	12 V= / 15 W	24 V= / 1.2 A	24 V= / 1.2 A
Flashing light	230 V	230 V and 24 V	24 V
Gate open warning light (warns the user if gate is not fully closed)	from limit switch and analogue	from limit switch and analogue	analogue
Courtesy light	 (with 1 motor only)	 (with 1 motor only)	24 V
Limit switch provision			
Force adjustment control	electronically controlled	transformer controlled	automatically controlled
ODS - Obstruction detection system (causes the gate to stop or reverses operation when an obstruction is detected)			
Speed adjustment			
Braking/slowdown control (ensures best approach)			
Operation time adjustment			
Open control	 (with dip-switch)		
Partly open control	 (with radio only)		
Close control			
Automatic timed close control			
Inching control			
Hold-to-run control			
Stop safety device			
Reverse operation safety device			
Safety test function (for SOF self-controlled safety devices)			
NIO - Antifreeze System (for maintaining motor efficiency even at very low temperatures)			
Soft start			
Operating temperature	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C
Protection rating	IP 55	IP 55	IP 55
Product dimensions (mm)	187x261x105	187x261x105	238x357x120

▶ Common Accessories

- ▶ Key operated handle with 5 m remote release cord
- ▶ Limit switch unit
- ▶ Internal and external battery for VIVA H control panel

▶ Arc Accessories

- ▶ Gear motor front mounting plate
- ▶ Adjustable stop

▶ Accessories

The wide range of DITEC accessories offers access systems with several control and monitoring options.



GOL 4 transmitters
Fixed code, four-channel - four-function transmitters, with cloning option, or with rolling code system. Certified and compliant with all current directives.

▶ Standards

The system has been manufactured by using only DITEC manufactured accessories and safety devices.

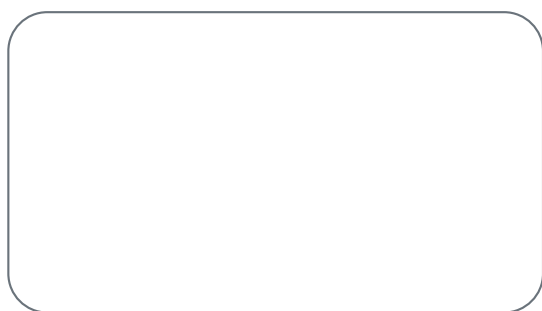
All DITEC automations are affixed with the CE mark and are designed and manufactured in compliance with the Machinery Directive (98/37/EC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC).

DITEC S.p.A. operates a policy of continuous development and reserves the right to make changes and improvements to their products.

The technical data contained within this document is therefore not binding.

Further information can be found in our on-line technical manuals at:

www.ditec.it



▶ **GOL 4 transmitter supports**
Smartly designed, these transmitters can be positioned on any surface: from the car dashboard to a garage or house wall. The remote control can be easily located in its housing and is always ready for use.



▶ **Xel 2 and Lab 3 infra-red photocells**
These photocells allow the automation to operate to the highest safety levels. Can be wall or column mounted. Modulated infra-red beam. Can be installed even in critical, reduced space installations.



▶ **Xel 5 key-operated selector switch**
Fitted with a tamper proof or vandal resistant device. Can be wall or column mounted.



▶ **Sof safety ribs**
These ensure maximum safety when opening and closing any entrance system.



▶ **Lan 4 digital combination systems**
Digital vandal-resistant combination keyboard. Up to 8 number PIN.



▶ **Flashing light**
24 V with flashing operation controlled by the control panel and 230 V with built in flashing circuit.



▶ **Teo L keyboard transmitter with digital combination**
Four-channel coded control. Allows electrically operated entrances to be opened with radio signals by entering a code. Can be wall mounted.



▶ **Lan 7 control systems with proximity control**
Remote identification system, featuring TRANSPONDER technology. Allows detection without the need for a touch-controlled device.



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