

# DRIVE 700 GATE OPERATOR

## Technical specifications

### OIL-HYDRAULIC PUMP

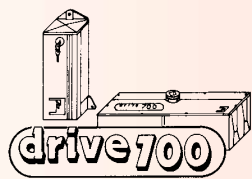
Pump flow rate - P3	0.85 l/min.
Average working pressure	1 MPa (10 bars)
Max. working pressure	3 MPa (30 bars)
Rotation angle	110°/175°
Rotation time 110°	23 s
Rotation time 175°	28 s
Rated torque	235 Nm
Cylinder bore	75 mm
Stroke	52 mm
Working temperature	-20°C +80°C
Oil type	A 15 FADINI by AGIP
Oil reservoir capacity	0.95 dm <sup>3</sup>
Oil volume in the jack	0.25 dm <sup>3</sup>
Static weight of motor/pump	8 Kg
Weight of DRIVE 700 with accessories	16 Kg
Static weight of the gate	700 Kg
Protection standards	IP 673
Duty cycle	23 sec. Open - 30 sec. Dwell - 23 sec. Close
Time of one complete cycle	76 s
No. of complete cycles Open-Dwell-Close	47/hour
No. of cycles a year, 8 hours a day	137'000

### ELECTRIC MOTOR

Power output	0.24 KW (0.33 HP)
Supply voltage / Frequency	230 V - 50 Hz
Absorbed current	2 A
Absorbed power	400 W
Capacitor	12.5 µF
Motor rotation speed	1'350 r.p.m.
Intermittent service	S 3

### WARNINGS

- The centre line of the jack shaft must coincide with the centre line of the gate hinge and pivot.
- Manual release by key. The release valve is fitted to the motor-pump unit (see instructions).
- 110° or 175° rotation options.
- With or without dampening device.
- Should the jack or motor-pump unit be removed from their seat, it is recommended to disconnect the electric cables from the junction box.
- Never cut off the electric cables.
- Do not turn over the motor-pump unit.
- Let waste oil out of the reservoir through the built-in funnel and recover it. Do not throw it away in the environment.
- Dispose properly of the packaging materials (cardboard, polystyrene, nylon) through specialized companies.
- All the electrical equipment must be properly earthed.



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AUTOMATIC GATE MANUFACTURERS

## Accessories



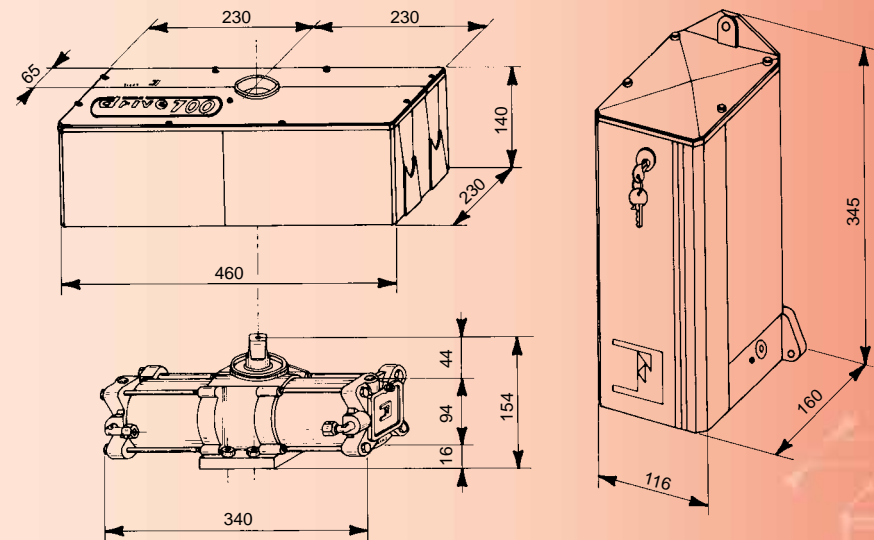
**ELPRO 13 CEI single-phase** electronic programmer    **SECH 15** keyswitch surface mount    Electric lock    **LAPI 2 - flashing lamp** with protection cage



**A43** aerial    Mechanical latch "slider" type    **DIFO 33** photocells    **ASTRO 43/1R** radio receiver



**PULIN 3** button switch    **ASTRO 43/4 TR** quartz transmitter



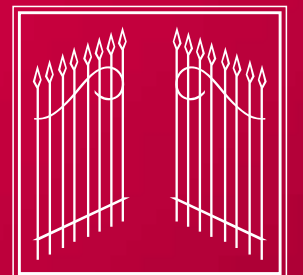
EUROPEAN MARK CERTIFYING CONFORMITY TO THE ESSENTIAL REQUIREMENTS OF THE STANDARDS 98/37 EC

- DECLARATION OF CONFORMITY
- GENERAL WARNINGS
- UNI 8612 STANDARDS
- CEI EN 60204-1 STANDARDS
- WARRANTY CERTIFICATE ON THE CUSTOMER'S REQUEST

The "CE" mark certifies that the operator conforms to the essential requirements of the European Directive art. 10 EEC 73/23, in relation to the manufacturer's declaration for the supplied items, in compliance with the body of the regulations ISO 9000-UNI EN 29000. Automation in conformity to EN 12453, EN 12445 safety standards. The growth of MECCANICA FADINI has always been based on the development of guaranteed products thanks to our "TOTAL QUALITY CONTROL" system which ensures constant quality standards, updated knowledge of the European Standards and compliance with their requirements, in view of an ever increasing process of improvement.

# DRIVE 700

➤ Underground oil-hydraulic gate operator



**FADINI**  
the gate opener

## Hydraulic swinging gate operator



**DRIVE 700** hydraulic automation systems are designed and built for underground installation, at the foot of gates or doors. Even pre-existing gates and doors can be invisibly automated in this way. Automatic control is achieved by mounting a hydraulic jack on each wing. The jack is connected, by copper tubes, to a hydraulic unit with a drive pump in an oil bath. The pump is equipped with highly sensitive maximum pressure "by pass" valves. These, correctly adjusted, guarantee maximum protection against crushing accidents. The die-cast aluminium hydraulic jack, with its ground and hardened steel rotary movement transmission, comes furnished with 110° or 175° opening angles. Drive 700 is available with or without a bi-directional hydraulic lock (when no lock is supplied, an electric lock must be mounted on the wing). An optional patented brake can be inserted inside the jack to obtain soft and smooth gate opening and closing. This brake slows down rotary movement during the last 40 cm of travel. The entire automation system is controlled by an electronic programmer, that permits both automatic and semi-automatic functional modes. The command signal to the programmer can come from a wall-mounted push-button or from a remote portable radio transmitter. Hydraulic Drive 700 is equipped, in case of electric power failure, with a simple manual release

mechanism that permits the gate to be opened. Hydraulic Drive 700 offers maximum automation reliability, due both to time-tested technical features and to the technological systems employed by Meccanica Fadini - a name that stands for manufacturing perfection.



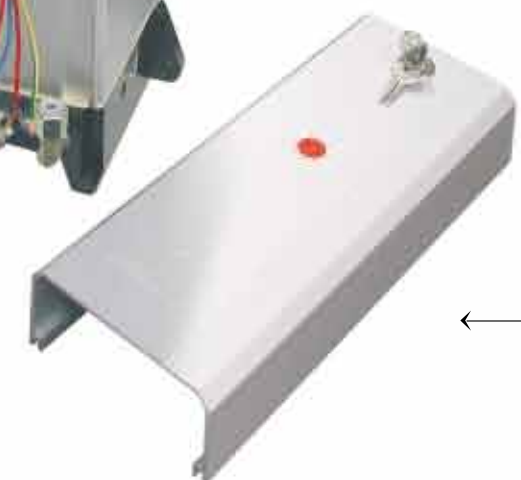
Jack with dampening device

Ⓐ Jack and hydraulic unit installation

Ⓑ Case with hydraulic jack



Hydraulic unit



Cover