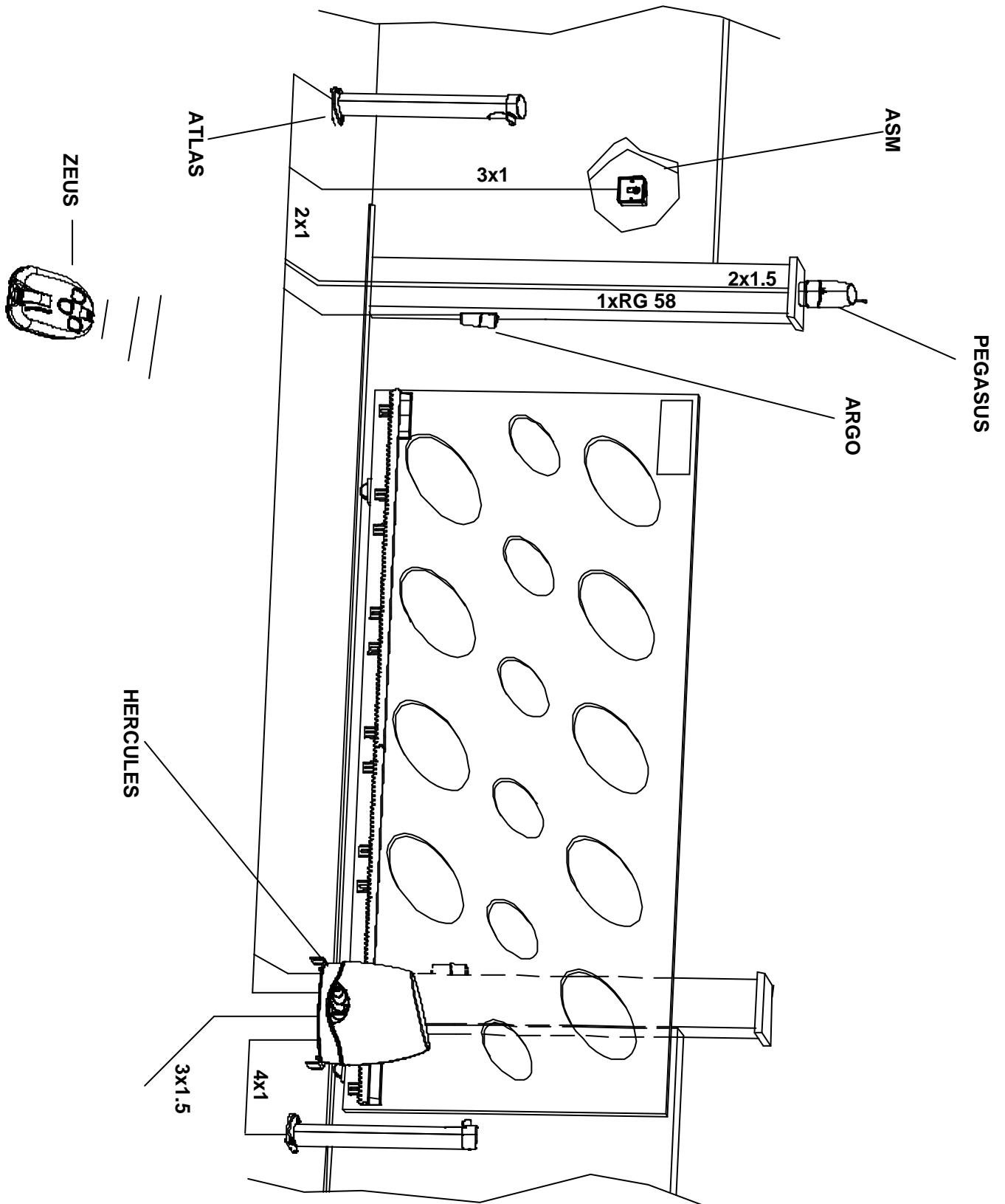




The electromechnical gear motor for sliding gates

# HERCULES

CE





## Attention!

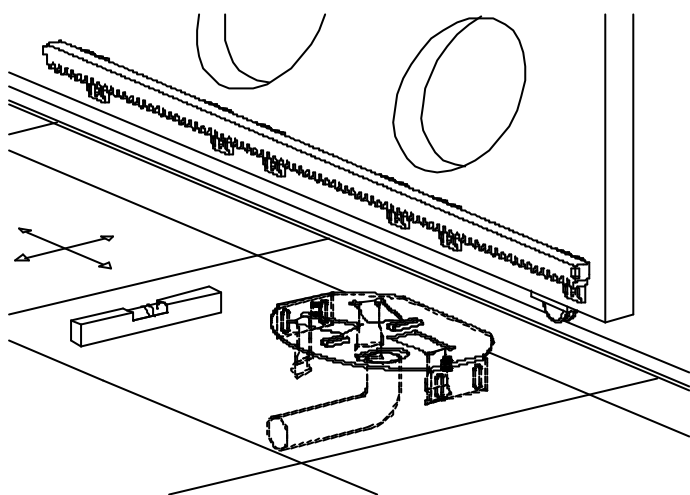
- This manual is for qualified installers only and not for the end user. It is the installer's job to explain to the user how the automatism works, about possible hazards related to it and the need for periodical maintenance.
- Installation must be carried out by qualified personnel only, in compliance with current standards concerning automatic closing mechanisms; particularly the installation has to comply with the 89/392 directive and the EN 12453 and EN12445 regulation.
- HERCULES is made specifically to control the automation of sliding gates and therefore it is forbidden to use it for any other purposes or improperly.
- Use original components only. Stagnoli is not liable for damages if any other components are used.
- Make sure that the gate structure is solid and suitable to be motorised.
- Make certain that when the gate is moving there are no points of friction and there is no chance of it derailing.
- Make absolutely certain the power is disconnected before carrying out any work on the device.
- Connect the power lead only to supply lines with adequate electrical protection; more specifically mount a device to guarantee disconnection of all phases from the mains that has a distance of at least 3.5 mm between the contacts.
- Be particularly careful when evaluating the safety devices to install and their location. Always install an emergency stop device that will cut power off in the case of necessity.
- Only qualified personnel must be allowed to service the unit.
- The irreversibility of the gearmotor avoids the installation of electronic locks and in case of black-out, the manual key release allows easy opening and closing of the gate.

## Technical features

Stagnoli's HERCULES gearmotor is particularly suitable for sliding gates up to 500 kg and is available in the 230Vac and 24Vdc versions. HERCULES 24Vdc is available in the chain drive version too.

The following table lists the features of the various models:

Technical data	HERCULES 230V	HERCULES 24V
Supply power	230V~ / 50 Hz	230V~ / 50 Hz
Max. input current (A)	1.5	1
Motor supply power	230V~	24V =
Max. motor power (W)	200 W	150 W
Capacitor	10 $\mu$ F	-
Rpm	1400	1500
Reduction ratio	1/28	1/28
Working temperature (°C)	-20 ? +70	-20 ? +70
Thermal overload protection (°C)	150°	-
Work cycle (%)	RESIDENTIAL (30)	INTENSIVE (70)
IP protection level	44	44
Maximum thrust force	450 N	450 N
Maximum gate weight	500 Kg	500 Kg
Weight (Kg)	12	12



### Anchoring the foundation plate

Before commencing to anchor the foundation plate to the ground, first prepare one or two sheaths for passing the cables through (Fig.1) After having verified the optimum conditions for placing the plate, bend the fish-tail clamps vertically and concrete the plate in (Fig.1). However it is still compulsory to bury the foundation plate in concrete when the gate weighs more than 250 kg or if the automation has to work in particularly arduous conditions.

Fig.1

**Manual manoeuvre:** To move the gate manually proceed as described below (Fig.2):

1. Slide the lock cover back
2. Turn the key clockwise
3. Pull the handle until it is perpendicular to the motor

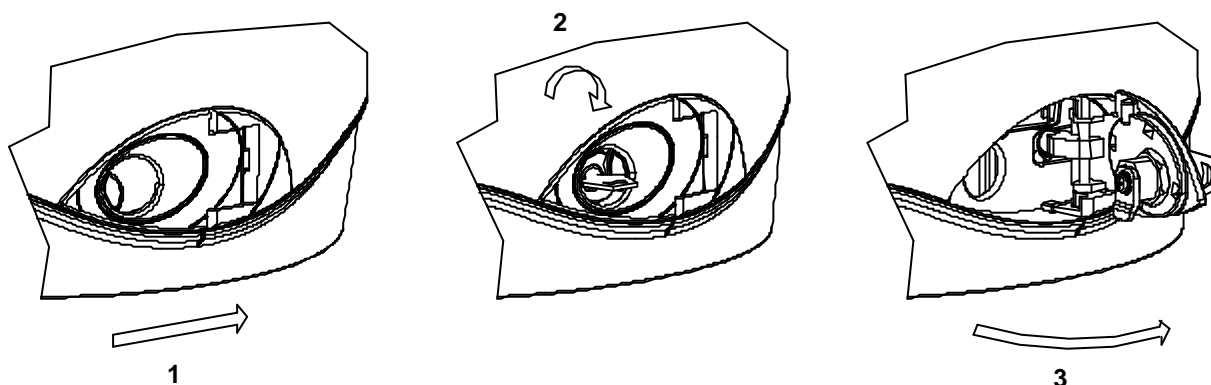


Fig.2

### Dimensions and room

Prior to installing, check the where the gear motor is to go keeping in mind the room needed (Fig. 3).

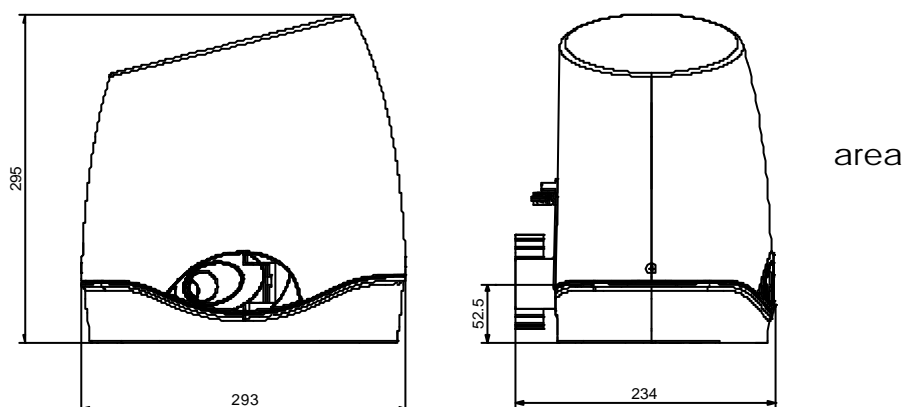


Fig.3

## Installing the gear motor

Unscrew the two side screws to remove the top (Fig.4).  
Position Hercules on the foundation plate, taking care to centre the antiskid device (Fig.5).

Fix the gear motor to the foundation plate with the screws but before tightening them completely, adjust the distance between Hercules and the gate.

Take the first sector of the rack and position it on top of the gear, check there is a clearance of at least 1 mm between the gear and rack; fix it to the gate with the screws.

Check the correct position by moving the gate by hand (Fig.6).

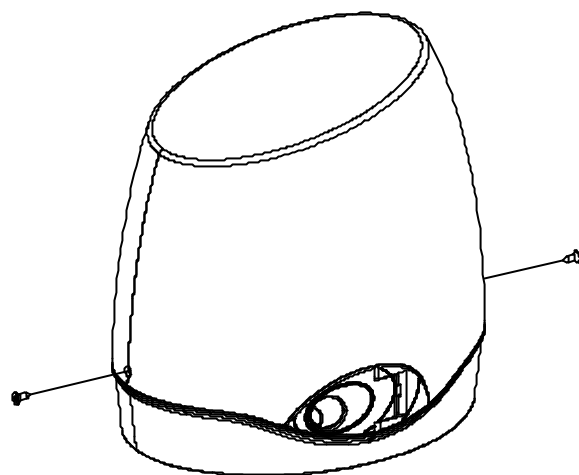


Fig.4

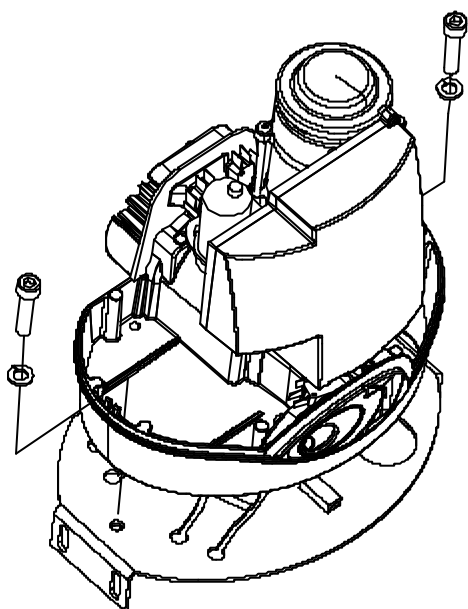


Fig.5

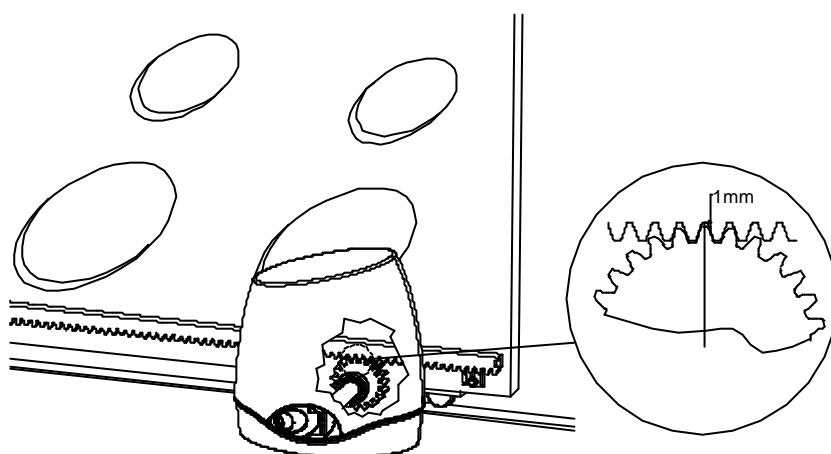


Fig.6

Fix the rest of the rack, utilising a piece of rack to maintain the pitch between joints (Fig.7).

Position the limit switch brackets on the rack and, sliding the gate, adjust the position of the brackets according to the opening and closing wanted. Now fix the brackets permanently.

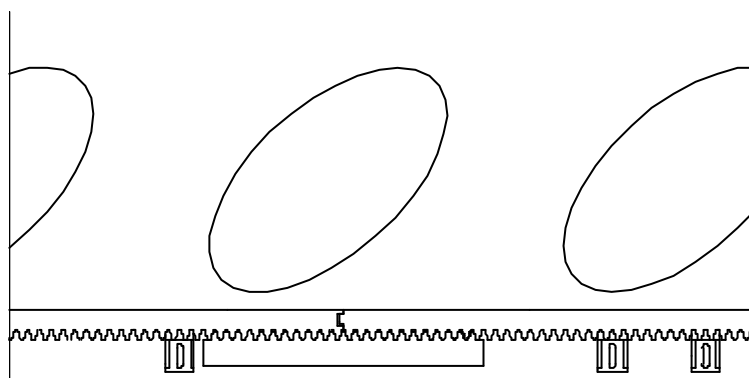
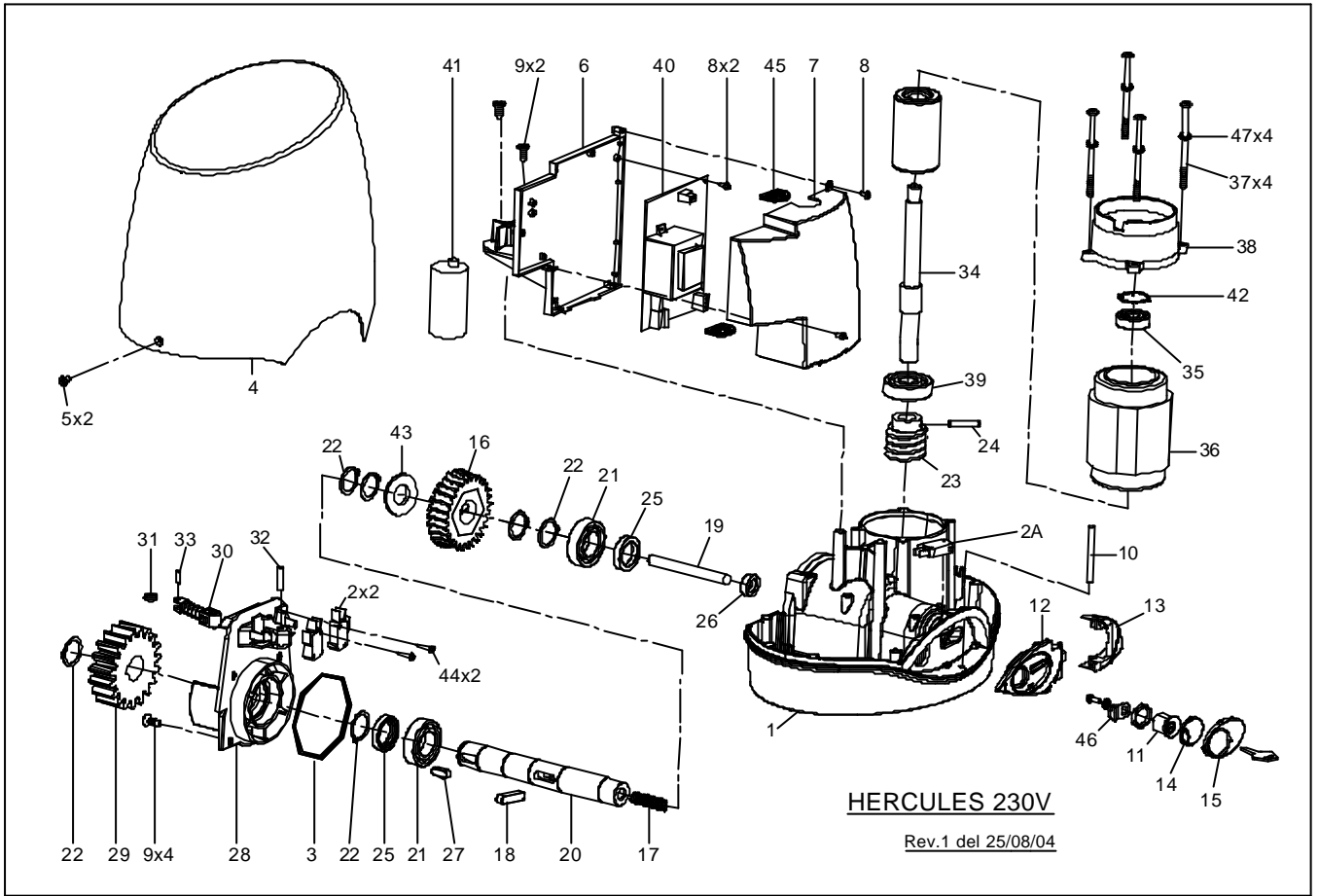
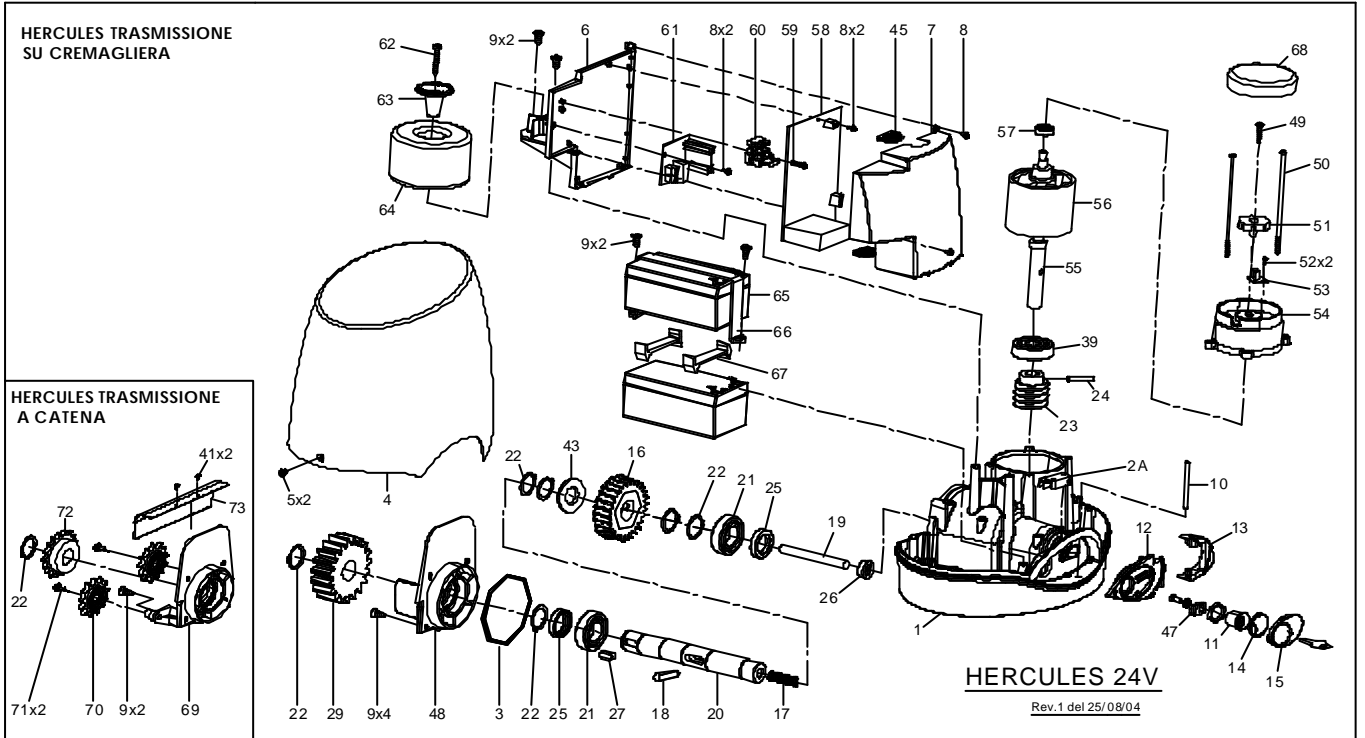


Fig.7



**HERCULES TRASMISSIONE SU CREMAGLIERA**

**HERCULES TRASMISSIONE A CATENA**



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