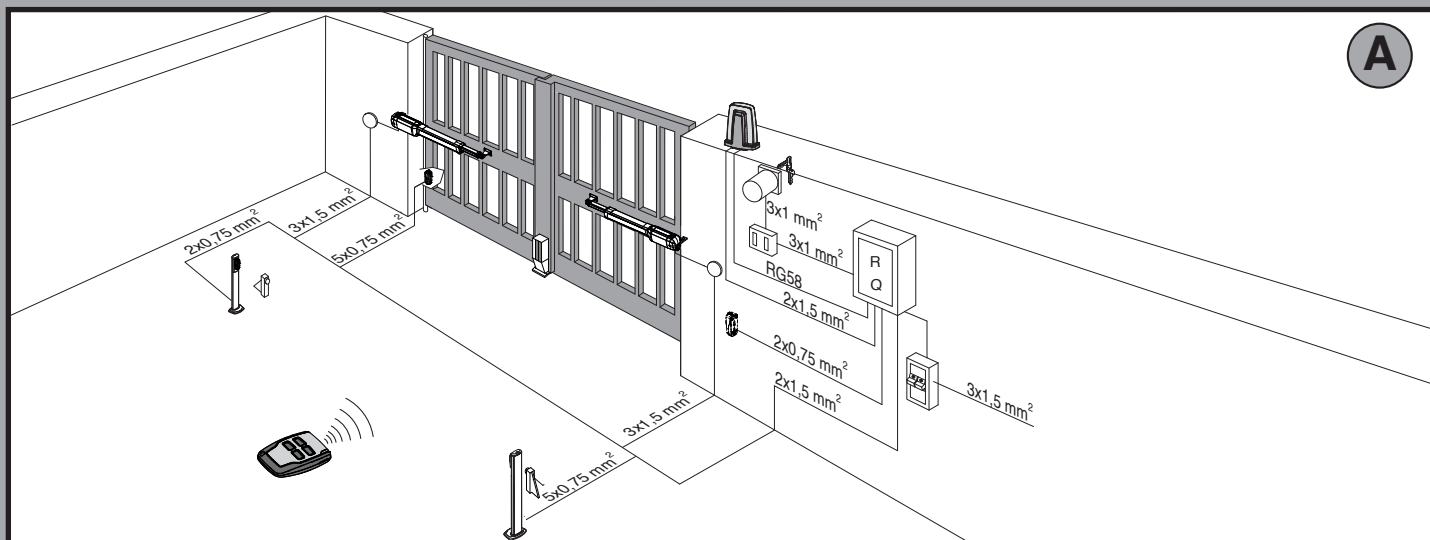
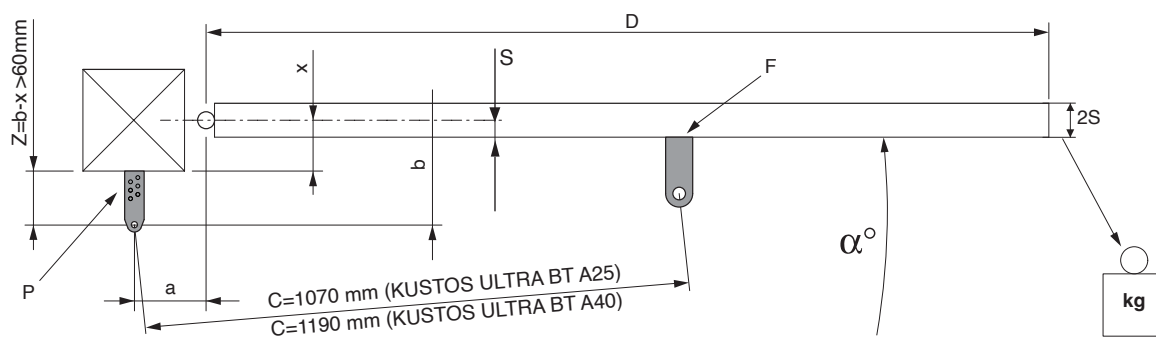




INSTALLATION DIAGRAM



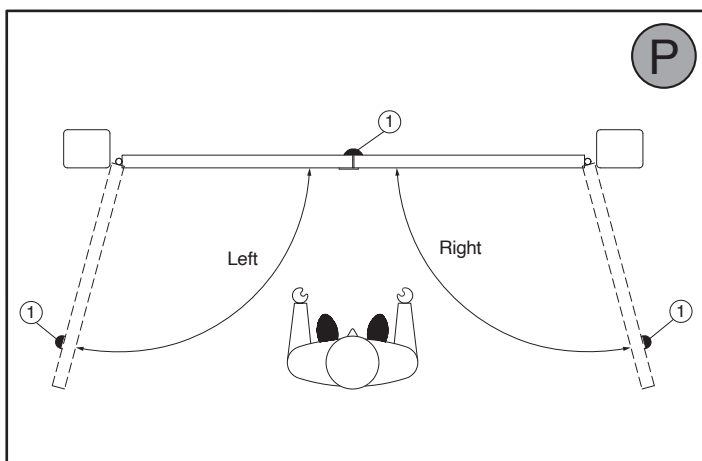
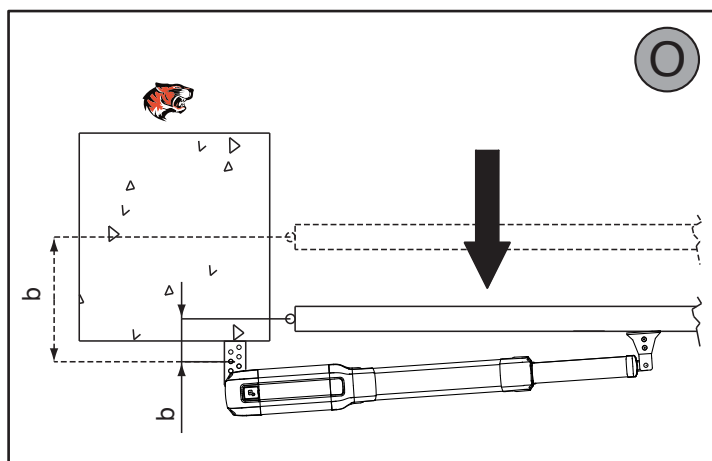
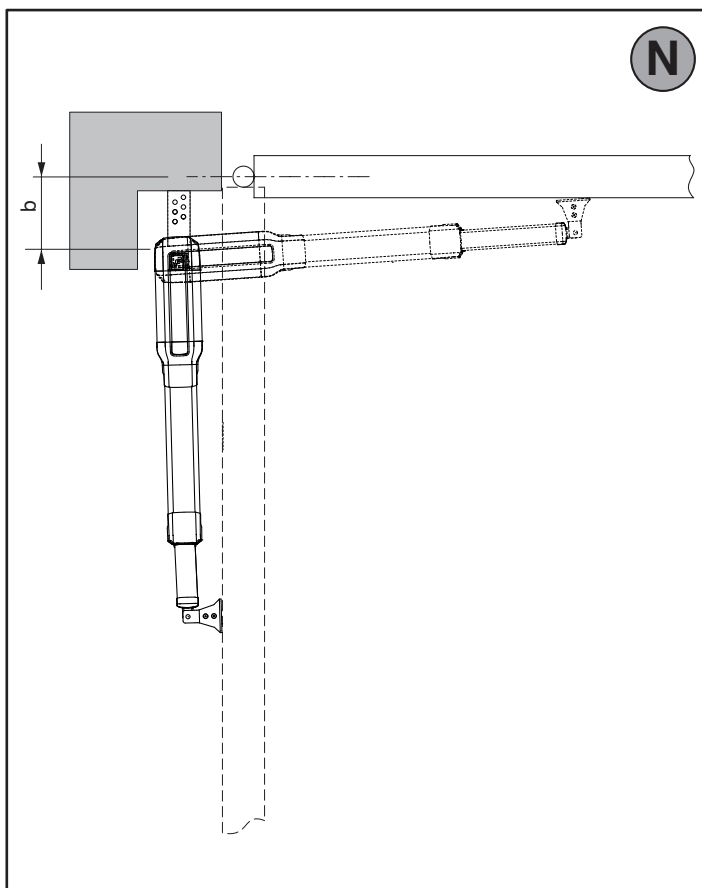
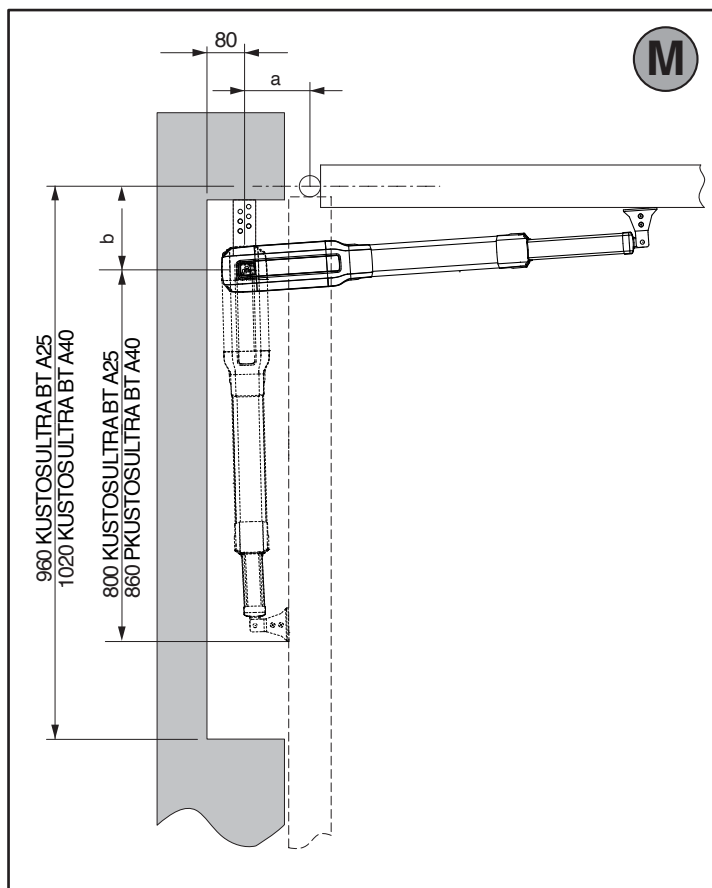
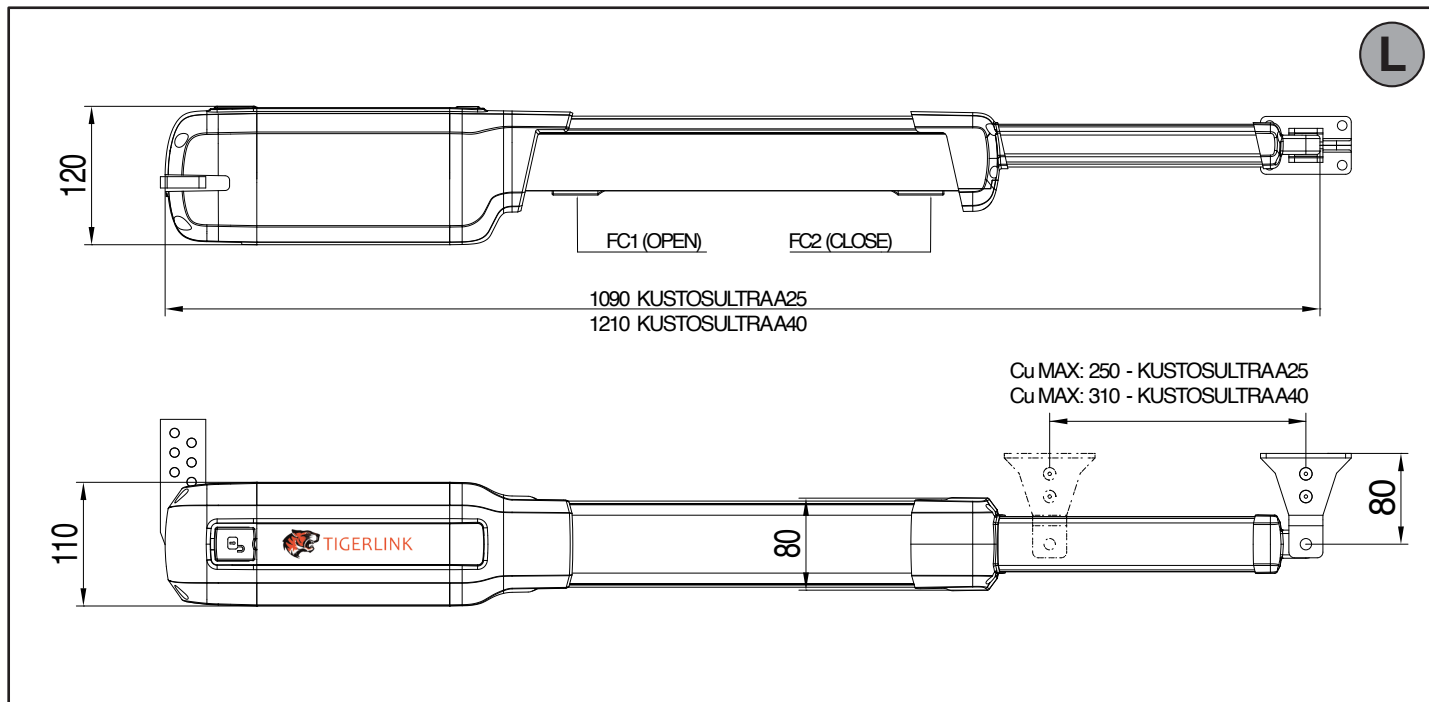
1	S (mm)	KUSTOSULTRA BT A25		KUSTOSULTRA BT A40	
		 125 kg (~ 1250 N)	 250 kg (~ 2500 N)	 125 kg (~ 1250 N)	 250 kg (~ 2500 N)
		b (mm)		b (mm)	
	20	100 ÷ 120	130 ÷ 210	130 ÷ 160	170 ÷ 260
	30	100 ÷ 130	140 ÷ 210	130 ÷ 170	180 ÷ 260
	40	100 ÷ 140	150 ÷ 210	130 ÷ 180	190 ÷ 260
	50	100 ÷ 150	160 ÷ 210	130 ÷ 190	200 ÷ 260

2 KUSTOSULTRA BT A25

[illegible]

3 KUSTOSULTRA BT A40

[illegible]



2) GENERAL INFORMATION

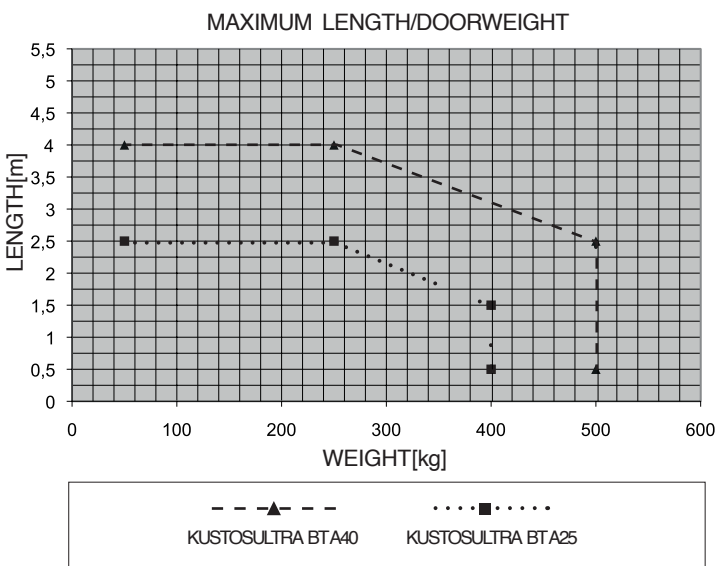
Electromechanical operator designed to automate residential-type gates. The gearmotor keeps the gate locked on closing and on opening, without needing an electric lock for leaves up to 3m long. For leaves ranging between 3m and 5m long, the electric lock becomes indispensable. The operator is provided with an electronic torque limiter. It must be controlled by an electronic control panel provided with torque setting. The end-of-stroke operation is controlled by two magnetic limit devices. The operator is provided with an obstacle detection system complying with EN12453 and EN12445 standards.

The following optional accessories are available on request:

- Buffer battery kit mod. BTBAT

Allows operation of the automation even when there is no mains power supply for a short period of time.

3) TECHNICAL SPECIFICATIONS	
Power supply	24V ---
Max. Absorbed power	40 W
Absorbed current	1,5 A
Push and pull force	2000 N (~200 kg)
Stem speed	15 mm/s approx.
Impact reaction	Torque limiter aboard control board
Limit devices	Magnetic, incorporated and adjustable
Manual manoeuvre	Personalized release key
Environmental conditions	-20°C a +55°C
Type of use	semi-intensive
Maximum leaf length without electric lock	2 m KUSTOSULTRABT A25 3 m KUSTOSULTRABT A40
Maximum leaf length with electric lock	2,5 m KUSTOSULTRABT A25 4 m KUSTOSULTRABT A40
Max. leaf weight	4000 N (~400 kg) KUSTOSULTRABT A25 5000 N (~500 kg) KUSTOSULTRABT A40
Protection level	IP 44
Controller weight	50N (~5kg) KUSTOSULTRABT A25 77N (~7,7kg) KUSTOSULTRABT A40
Dimensions	See Fig. L
Lubrication	permanent grease
Sound pressure	LpA < 70 dbA



4) TUBE ARRANGEMENT Fig. A

Install the electrical system referring to the standards in force for electrical systems CEI 64-8, IEC 364, harmonization document HD 384 and other national standards.

5) INSTALLATION DIAGRAM Fig. B

P rear bracket fastening to pillar

F front fork fastening leaf

a-b distances for determining bracket "P" fastening point

C value of fastening centre-to-centre distance

D gate length

X distance from gate axis to corner of pillar

S half door thickness

Z value always greater than 45 mm (b - X)

kg max. weight of leaf

α° leaf opening angle



6) PILLAR FASTENINGS INSTALLATION DISTANCES Fig. B Rif. 2-3

6.1) How to read the installation distance tables

Select "a" and "b" according to the angle in degrees α° that the gate has to open. The optimum "a" and "b" values for 92° opening at constant speed are highlighted. If there is too large a difference between "a" and "b", the leaf will not travel smoothly and the pushing or pulling force will fluctuate during its stroke. To respect the opening speed and ensure the controller operates correctly, it is best to keep the difference between "a" and "b" as low as possible.

The table has been worked out for A40 mm (KUSTOSULTRABT A40), 20 mm (KUSTOSULTRABT A25) thick medium-size gate. Always check that there is no possible collision between the gate and the operator.

7) FASTENING OF FITTINGS TO PILLAR Fig. C

8) POWER CABLE Fig. D

The board power supply cable must be of the H05RN-F type or equivalent. The equivalent cable must guarantee:

- permanent outside use
- maximum temperature on the cable surface of +50°C
- minimum temperature of -25°C

If the motor vibrates but does not rotate, the problem may be:

- Incorrect wiring (see wiring diagram)
- If the leaf moves in the wrong direction, swap over the motor's start connections in the control unit.

The first command following a mains power outage should be open LEAF STOPS.

9) ATTACHING MOTOR TO FASTENING ON PILLAR Fig. E

10) MAXIMUM TILT Fig. F

11) CORRECT INSTALLATION Fig. G

Correct installation entails maintaining a rod stroke margin of approx. 5-10 mm to avoid possible trouble with operation.

12) FASTENING OF FITTINGS TO LEAF Fig. H

Line up the front and rear brackets as shown in Fig. H Ref. 1.

13) OPERATOR ATTACHMENT ON DOOR Fig. I

14) LIMIT DEVICE ADJUSTMENT Fig. J-K

ATTENTION! To avoid braking the limit switch cable, tighten screw A keeping the wire B well tightened (as shown in Fig. K Ref. 6).

15) DIMENSIONS Fig. L

16) TIPS FOR SPECIAL INSTALLATIONS Fig. M, N, O.

With the leaf fully open, create a recess to accommodate the operator. Fig. M gives the minimum dimensions of the recess for the various KUSTOSULTRABT A25 - KUSTOSULTRABT A40 models.

If distance "b" is greater than the values given in the installation tables:

- create a recess in the pillar Fig. N
- move the leaf so that it is flush with the pillar Fig. O.

17) LEAF STOPS AT GROUND LEVEL

For the actuator to work properly, it is advisable to use stops "Fig. P Ref. 1" to stop the leaves both when they are open and closed, as illustrated in Fig. P. The leaf stops must prevent the actuator rod from reaching the end of its travel.

18) MANUAL OPENING (See USER GUIDE-FIG. Y-).

19) ELECTRIC LOCK

⚠ WARNING: In the case of leaves longer than 3m, it is indispensable to install a solenoid latch.

For electric lock connection, the optional board is required (refer to the appropriate instruction).