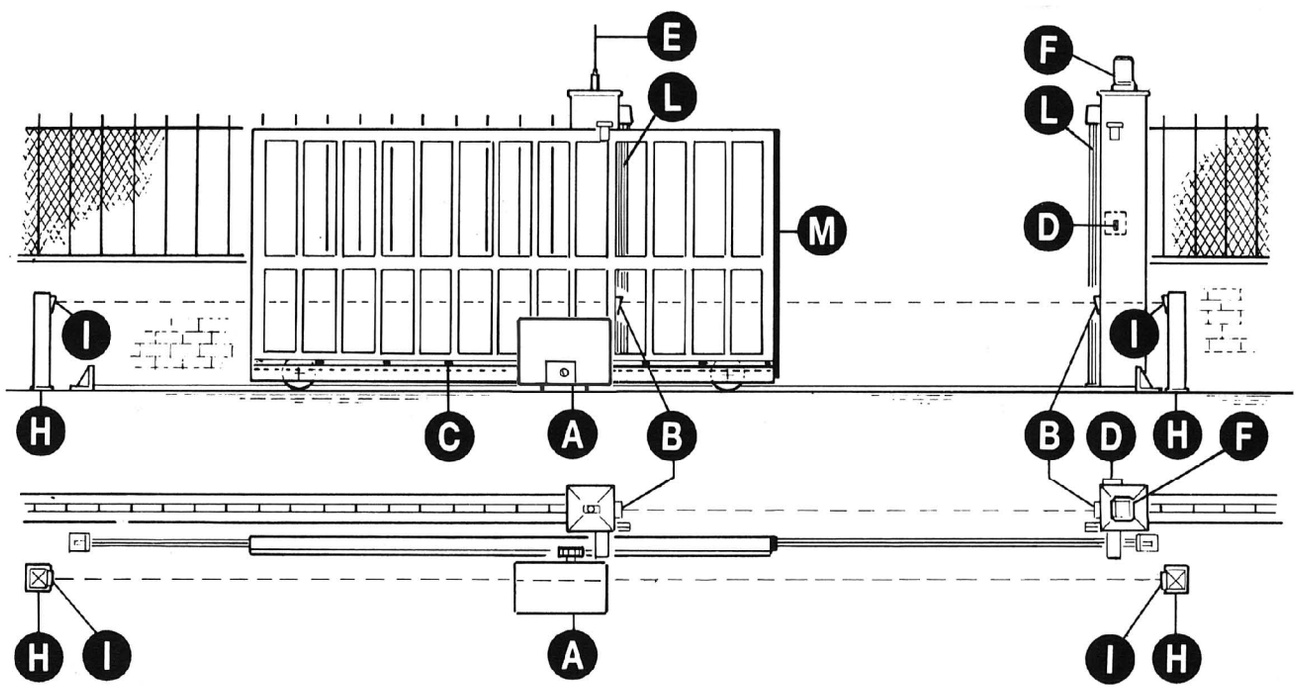
SYSTEM LAY-OUT



A - LEPUS BOX 6000 operator
B - Photoelectric cells (external)
C - Rack M6
D - Key selector
E - Tuned aerial
F - Flashing lamp
H - Galvanized column for P.E. cells
I - Photo electric cells (internal)
L - Safety strip fixed to column
M - Mecanichal or electrical safety strip

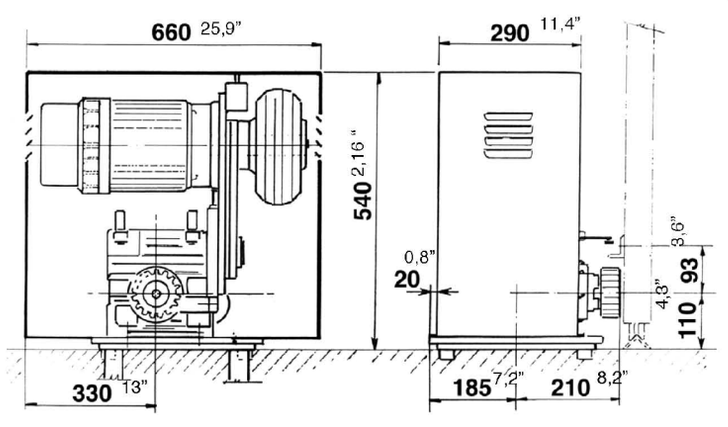
1

TECHNICAL FEATURES

Irreversible operating devices for sliding gates with a maximum weight of 6000 kg / 13.200 lbs.

LEPUS BOX 6000 is equipped with an easily adjusted hydraulic clutch which will not be affected by the various temperature changes. This softens the starts, stops and reversals of heavy gates.

Its self-braking motor is able to limit gate inertia during the stopping phase.



Measurements in mm/inch

TECHNICAL DATA	LEPUS BOX 6000	
Max. leaf weight	kg/lbs	6000/13200
Operating speed	m/s.	0,160
Thrust force to constant turns	N	9000
Rack		6
EEC Power supply		**400V 3~ 50Hz**
Motor capacity	W	3000
Power absorbed	A	6,9
Normative cycles	n°	300 - 95s/2s
Power supply		**380V 3~ 60Hz**
Motor capacity	W	3000
Power absorbed	A	6,9
Normative cycles	n°	300 - 95s/2s
Power supply		**220V 3~ 60Hz**
Motor capacity	W	3000
Power absorbed	A	11,9
Normative cycles	n°	300 - 95s/2s
Lubrification		SEA 0X68
Weight of electroreducer	kg	123
Noise	db	<70
Working temperature	°C	-10 ÷ +55
Protection	IP	557

INSTALLATION LEPUS BOX 6000

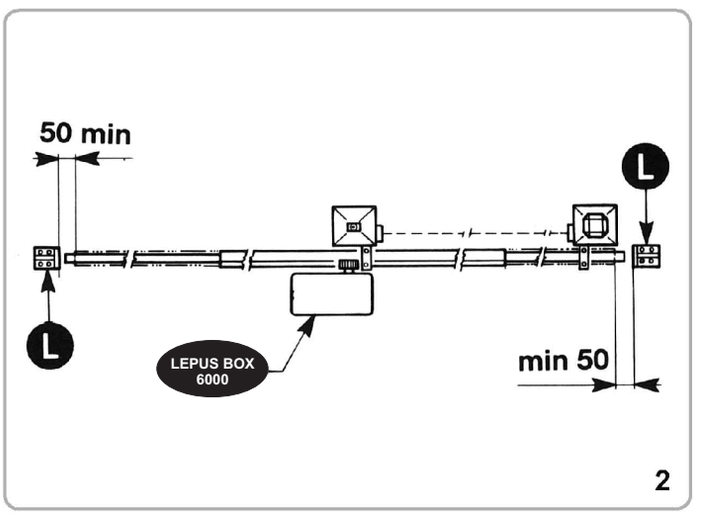
CHECKING BEFORE THE INSTALLATION

!! THE GATE SHALL MOVE FRICTIONLESS !!

N.B.: Gate features must be uniformed with the standards and laws in force. The door/gate can be automated only if it is in a good condition and its conditions comply with the EN 12604 norm.

- The door/gate leaf does not have to have a pedestrian opening. In the opposite case it is necessary to take the appropriate steps, in accordance with EN 12453 norm (for instance; by preventing the operation of the motor when the pedestrian opening is opened, by installing a safety microswitch connected with the control panel).
- Besides the electrical or mechanical limit switches available on the operators, there must be, on both ends of the installation, a fixed mechanical stopper which stop the gate in the unlikely event of ill functioning of limit swithces on the operators. For this reason the fixed mechanical stopper must be of an adeguate size to withstand the static and kinetic forces generated by the gate (12) (Fig.2).The guide must be provided with two mechanical stops at its ends (12) (Fig. 2).
- Gate columns shall have anti-derailment guides on their top (Fig. 3), to avoid the unintentional gate release. The guide must be provided with two mechanical stops at its ends (L) (Fig. 2).

N.B.: Eliminate those mechanical stops of the kind described by pic. 3. No mechanical stop shall be on top of the gate, since mechanical stops are not safe enough.



2

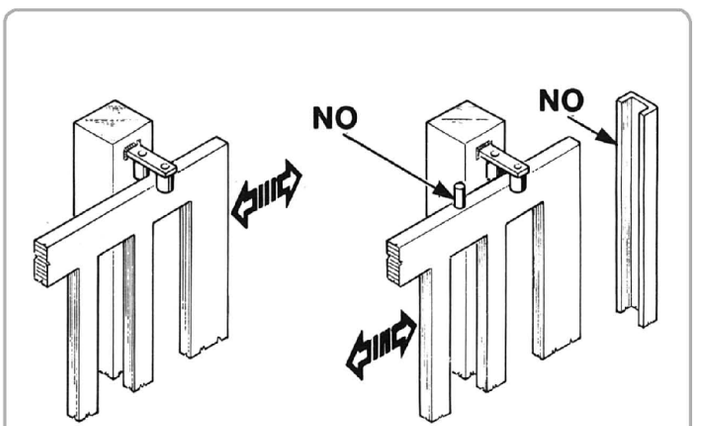
Parts to install meeting the EN 12453 standard

COMMAND TYPE	USE OF THE SHUTTER		
	Skilled persons (out of public area*)	Skilled persons (public area)	Unrestricted use
with manned operation	A	B	
with visible impulses (e.g. sensor)	C	C	C and D
with not visible impulses (e.g. remote controldevice)	C	C and D	C and D
automatic	C and D	C and D	C and D

* a typical example are those shutters which do not have access to any public way.

A: Command button with manned operation (that is, operating as long as activated)

B: Key selector with manned operation
C: Safety edges
D: Photocells (To apply every 60÷70 cm for all the height of the column of the gate up to a maximum of 2,5 m - EN 12445 point 7.3.2.1).



3

EMERGENCY RELEASE

To be undertaken after disconnecting power supply.

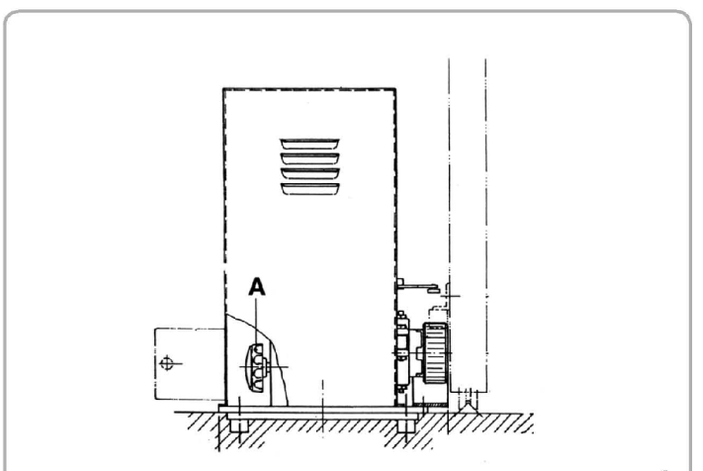
The operator is irreversible and keeps the door closed even without a lockset.

To open the gate manually, in open the motor cover and turn the knob «A» anti-clockwise.

To restore electric working you have to turn the lever clockwise (Fig. 4).

In order to carry out the manual operation of the gate leaf the followings must be checked:

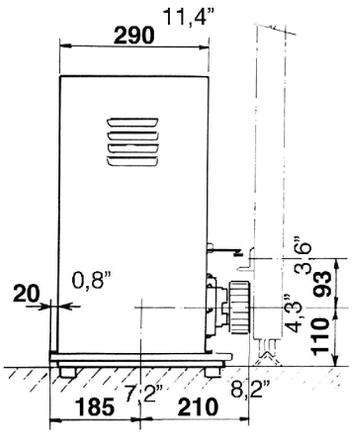
- That the gate is endowed with appropriate handles;
- That these appropriate handles are placed so to avoid safety risks for the operator;
- That the physical effort necessary to move the gate leaf should not be higher than 225 N, for doors/gates for private dwellings, and, 390N for doors/gates for commercial and industrial sites (values indicated in 5.3.5 of the EN 12453 norm).



4

Motor and rack installation

LEPUS BOX 6000 has a plate to be cemented to the ground and is locked in place by the four supplied 14x45 hex bolts using a N° 22 setscrew wrench.
The rack must be fixed at a certain height with respect to the motor base.
This height can be varied thanks to the slots on the rack.
The rack must not be welded, but simply fixed to the gate with threaded screws.
The height needs to be adjusted so that the gate does not rest on the reduction unit traction gear (Fig. 5,6).
Holes with a diameter of 7 mm should be made to fix the rack into the gate, and they should be threaded using a M8 type screw tap.
The pinion must have a clearance of 1 to 2 mm with respect to the rack.



Measurements in mm/inch

5

Limit switch adjustment

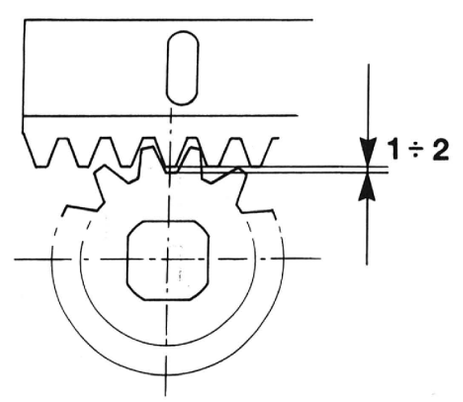
LEPUS BOX 6000 has two independent watertight limit switches mounted on the reduction gear. These are able to stop the gate from moving.

Hydraulic clutch adjustment

Unscrew plug A, remove three-quarters of the oil in the hydraulic clutch, then re-tighten the plug. Now gradually add small amounts of the removed oil through the hole of plug B until the gate starts to move at a progressive speed (it must reach normal running speed within 2 seconds).

CLUTCH MAINTENANCE

Change the oil for the first time after 2 months service and once a year from then on.



6

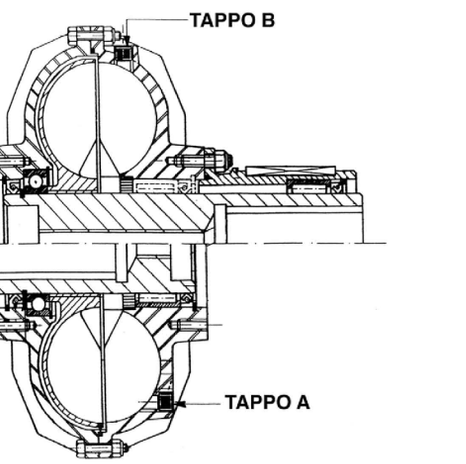
Adjusting the V-belts

LEPUS BOX 6000 has two V-belts that transmit power from the motor-clutch unit to the reduction gear. These two belts are adjustable and their tension can be varied by shifting the motor-clutch unit in height.
To do this, use a N° 22 wrench to release the four bolts that fix the motor to the slideways. Now use a N° 17 wrench to turn the screw between the reduction gear and motor clockwise to slacken the belts, or anticlockwise to tighten them.
NOTE: It is absolutely essential to comply with this procedure to prevent the reduction gear from being excessively stressed by kick-back from the gate when starting, stopping and reversing (the part should be replaced every 2 years).
NOTE: The V-belts will have already been adjusted when LEPUS BOX 6000 is supplied.

Maintenance

To be undertaken only by specialized staff after disconnecting power supply.

Clean the sliding guide of stones and dirt periodically only when the gate does not move.



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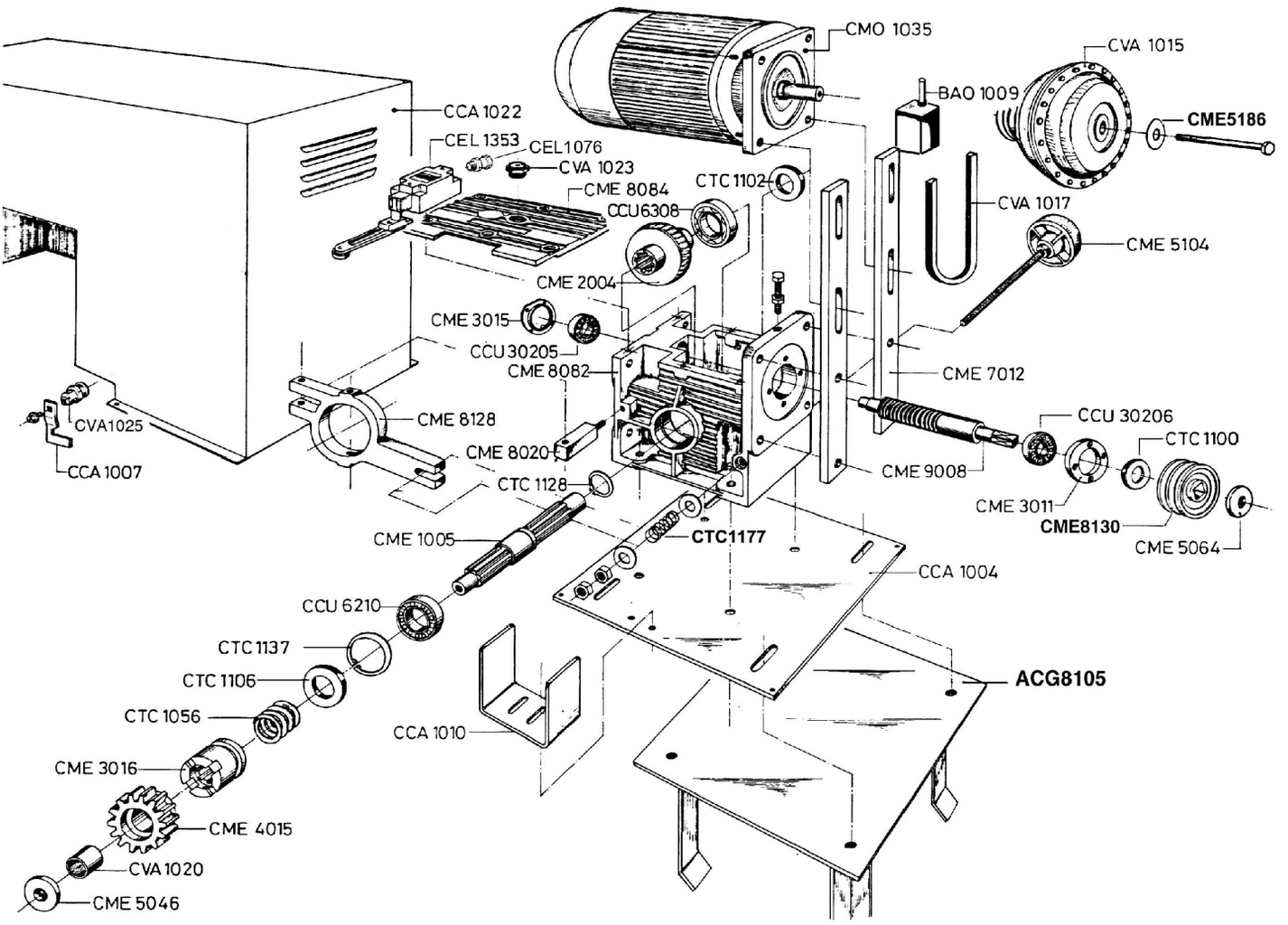
SEA®
Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 804888

CE

LEPUS BOX 6000



Codice	Descrizione
ACG8105	Piastra da interrare LEPUS BOX 6000
BA01009	Scat. Sicurezza LEPUS
CCA1004	Piastra di base LEPUS BOX 6000
CCA1007	Gancio per serratura
CCA1010	Protezione ingranaggio LEPUS BOX 6000
CCA1022	Carter LEPUS BOX 6000
CCU30205	Cuscinetto 30205 25 52 16,25
CCU30206	Cuscinetto 30206 30 62 17,25
CCU6210	Cuscinetto 6210 50 90 20
CCU6308	Cuscinetto 6308 40x90x23
CEL1076	Pressacavo PG13.5
CEL1353	Finecorsa 3SE3120-1U
CME1005	Albero di traino LEPUS BOX 6000
CME2004	Corona bronzo con mozzo ghisa Z=42
CME3011	Flangetta posteriore
CME3015	Flangia coperchio
CME3016	Giunto innesto
CME4015	Ingranaggio di traino
CME5046	Piattello di fermo
CME5050	Rondella
CME5064	Rondella
CME5104	Manopola di sblocco

Codice	Descrizione
CME7012	Guida scorrimento motore
CME7013	Piastrina porta sicurezza
CME8020	Blocchetto biella di sblocco
CME8082	Carcassa riduttore
CME8084	Coperchio riduttore LEPUS BOX 6000
CME8128	Biella di sblocco LEPUS BOX 6000
CME8130	Puleggia doppia
CME9008	Vite senza fine LEPUS BOX 6000
CMO1035	Motore LEPUS BOX 6000 400V/50Hz 3P
CTC1056	Molla preminnesto LEPUS BOX 6000
CTC1078	Molla
CTC1100	Paraolio 30x55x10
CTC1102	Paraolio 40x80xx10
CTC1106	Paraolio 50x90x10
CTC1128	Seeger E50
CTC1137	Seeger I90
CVA1015	Frizione oleodinamica B20ZD28
CVA1017	Cinghiolo A-27
CVA1020	Boccola MB 35-35 DU
CVA1023	Tappo livello olio TLA4 20 0,5
CVA1025	Cilindretto serratura