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CE

DEKRA CERTIFICATION BGV C1



TE-063

TORRE ELEVADORA

TOWERLIFT

TRAVERSENLIFT

MANUAL DE INSTRUCCIONES

OPERATING INSTRUCTIONS USER MANUAL

BEDIENUNGSANLEITUNG

PROLIFTS S.L.

V.08.19

LIFTING TOWER **TL-063**
TORRE ELEVADORA **TL-063**
TRAVERSENLIFT **TL-063**

CE

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BGV-C1

BGG-912

EC Conformity Declaration pursuant to the EC Machinery Directives 89/392/CE and 98/37/CE: Manual lifters

Find a copy of the certifications at the end of this booklet.
Puede ver una copia de las certificaciones al final del manual.

MADE IN SPAIN (EU)

Manufacturer - Fabricante

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RECYCLABLE

TL-063

F: Forks / Brazos de carga

S: Transport compartment / Alojamiento de transporte

T: Transport wheels / Ruedas de transporte

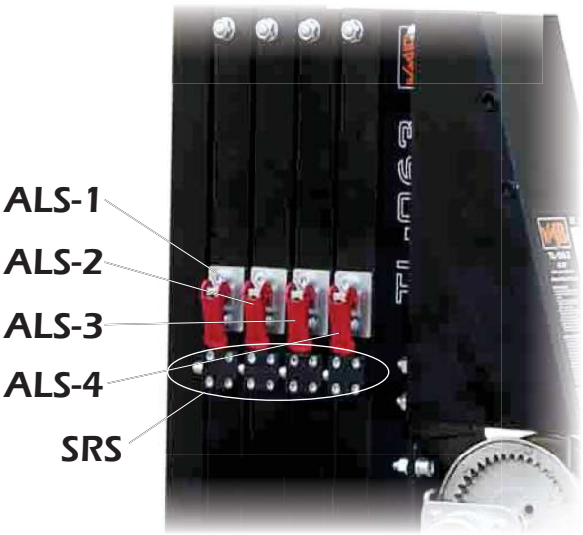
V: Working compartment / Alojamiento de trabajo

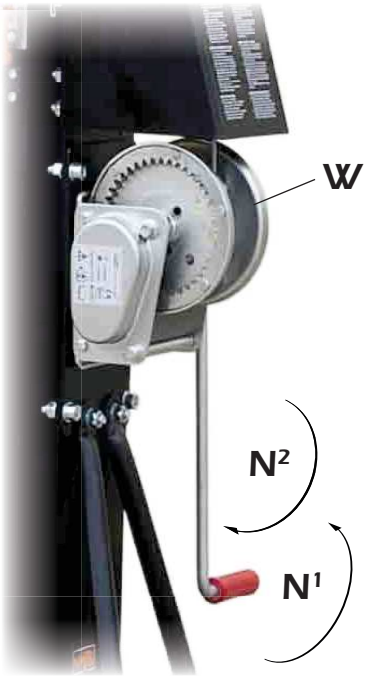


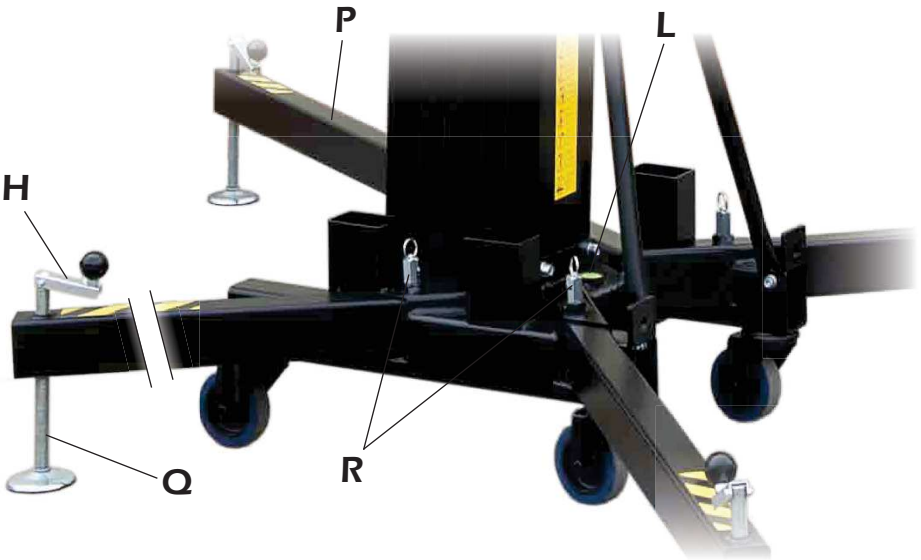
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TL-063

H: Handle / Manivela
L: Spirit level
N: Force on hand crank / Fuerza sobre manivela
P: Leg / Pata
Q: Stabilizer / Estabilizador
R: Catch pawl / Gatillo bloqueo patas
SRS: Sequence Retainer System
W: Winch / Cabrestante







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1. Introduction.
2. Technical information.
3. Safety precautions.
4. Operation.
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6. Guarantee.

1. INTRODUCTION

Dear customer, in order to ensure a safe and reliable operation of the TL-063 towerlift please follow the instructions in this booklet carefully. Before operating the lift, read the instructions completely and please note the technical information contained within this manual.

All VMB products undergo very rigorous testing, under strict conditions and they are monitored continuously during the manufacturing process.

In order to guarantee the lifts function and safety, only original parts from the manufacturer must be used. If any parts other than those of the manufacturer are used, or the product is modified in any way, the user forfeits all warranty rights to claim. VMB reserves the right to modify the product specifications without prior notice.

The model type, production year and serial number must be quoted in any queries or orders for spare parts.

2. TECHNICAL INFORMATION

2.1 - TL-063 Towerlift.

2.2 - Designed to lift loads, such as trussing and lighting systems, vertically, up to different heights.

2.3 - Maximum load : 270 kg (595.3 lb).

2.4 - Minimum load: 25 Kg (55 lb).

2.5 - Security :
ALS (Automatic Lock System).

2.6 - Maximum height : 6.25 m (20.6').

2.7 - Folded height : 1.65 m (5.4').

2.8 - Transport surface:
0,5 x 0,6 x 1,65m (1.64 x 1.97 x 5.4')

2.9 - Shipping dimension:
0,53 x 0,63 x 1.67m (1.74 x 2.07 x 5.5')

2.10 - Work surface :
1.94 x 2.01 m (6.36' x 6.6').

2.11 - Unit weight : 150 Kg (308.7 lb).

2.12. - Load support:
Short forks (54.5 cm).

2.13 - Construction material : 6082-T6 alluminium for the main body, comprised of 5 profiles and a lifting carriage. Base and legs are made of steel profile according to DIN 2394. Catches and pulleys of ST-37 steel.

2.14 - Winch: 900 Kg Maximum load with automatic brake. Long crank.
Certification CE and GS TÜV.

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2.15 - Cable : Steel DIN 3060. Quality 180 Kg/mm^2 twist resistant.
Cable diameter: Ø6 mm

2.16 - Adjustable stabilizing feet with rubber non-slip supports.

2.17 - Safety catches to anchor the legs.

2.18 - Antirust protection, primed paint with cured polyester dust cover. The tower can be supplied with natural aluminium finish or black (version B).

2.19 - Spirit level to adjust the tower vertically.

2.20 - Swivel wheels to transport the lift when folded.

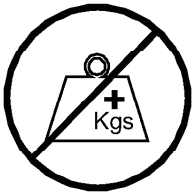
3. SAFETY PRECAUTIONS.



3.1 - The TL-063 is a machine designed to elevate loads upwards in a vertical direction, It should NEVER be used as a platform to elevate people.



3.2 - Only place the lift on hard, flat surfaces always checking that it is in a vertical position by using the bubble level indicator (**L**) found on the base. Adjust the leg stabilizers (**Q**) by turning the handles (**H**) to level if necessary. NEVER use wedges or other foreign objects to balance the lift.



3.3 - The maximum load indicated on the characteristics label and the instructions manual should not be exceeded.



3.4 - This lift should NEVER be used to elevate a load that has not been properly checked. It is necessary to verify that the load is correctly supported and centred on the appropriate lift support so that the weight of the load will only elevate in a vertical direction.

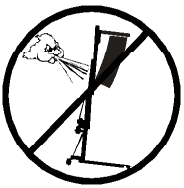
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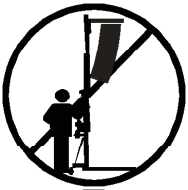
3.5 - Check that the legs (**P**) are placed and set-up correctly with their safety pins (**R**) inserted and locked.



3.6 - NEVER use the lift on a vehicle or any other mobile surface.



3.7 - If there is a possibility of strong winds or gusts, place the lift on the ground firmly and secure it with the use of straps. NEVER attach a strap to a vehicle or any other object that can possibly be moved.



3.8 - NEVER move the lift whilst it is carrying a load. It is not advisable to carry out any type of horizontal movement even small positional adjustments.



3.9 - NEVER allow any team member below the load or anybody else in the lifts operating zone.

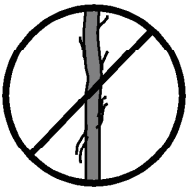


3.10 - Take care with all obstacles above the lift and its extension zone such as cornices, balconies, and luminous signboards. It is very important to avoid the presence of all types of cables below the extended lift.



3.11 - Do not use stepladders on the lift or use it as a support for them.

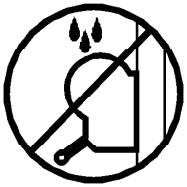
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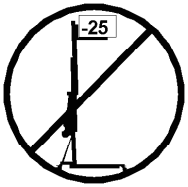
3.12 - Before using the lift, check the condition of the cable. The cable should not have broken threads or show any signs of crushed/flattened areas. NEVER use faulty cables, always change them if there is any doubt. Only use VMB steel cables; reference: DIN 3060. Quality: 180KG/mm and torsion resistant.



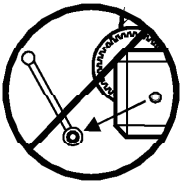
3.13 - All sections must be lowered first, and the legs placed in its transport position, before transportation.



3.14 - Do not grease or lubricate the winch's braking mechanism. The brake disks have been greased with a special heat and pressure resistant solution. Other products should not be used to avoid negative effects regarding the braking mechanism.



3.15 - The minimum load to avoid problems regarding the braking mechanism is 25Kg. Without this load the brake will not work.



3.16 - NEVER take apart the crank of the winch when the lift is carrying a load or extended.

ORIGINAL

3.17 - Only original replacement parts should be used.

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WIND SPEED CALCULATIONS

The BGV-C1 is an indoor certification. If you are going to use the towerlift outdoor and require a wind speed calculation please contact us, or contact a certified structural engineer.

4. USER INSTRUCTIONS.

4.1 - Place the lift on a firm, flat surface in the area it is to be used with the help of the transport wheels (***T***).

4.2 - Untighten the security knobs (**K**) and remove the legs (***P***) from their transport compartment (***S***) and fully insert them into their working positions (***V***) checking that they are fixed by the pins (***R***).

4.3 - Check that the lift is in vertical position using the spirit level (***L***) at the base of the tower, adjust the stabilizer (***Q***), turning the handle (***H***) if necesary.

4.4 - Release the forks (***F***) and place them in its working position ready to take the load on them. Insert the pins to block the forks.

4.5 - <u>DO NOT</u> OVERLOAD THE LIFT.

MAXIMUM LOAD IS 270 kg (595 lb) TL-063

The lift should NEVER be overloaded. Safety at work is the most important issue. Place the load onto the lift using an adequate VMB support according to the need, use so that the weight of the load will only be elevated in a vertical direction. The minimum load is 25 Kg.

4.6 - How to place the load:

Always load as close to the tower as possible. The maximum load diminishes according to the distance from the body of the tower as illustrated in the diagram ***4.6.1***, which shows the load on the gravity centre with distances to the lifting carriage at a maximum lifting. Use a VMB adaptor if necessary.

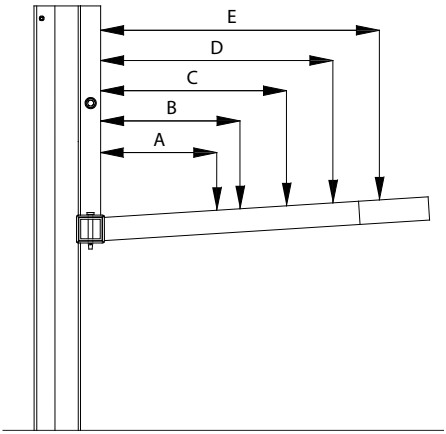
CAUTION

When two towers are used to elevate a truss bridge, or many towers to elevate a structure of any type, it is almost impossible that two or more people coordinate the winches elevating or lowering the loads, at exactly the same pace. At a certain point each tower will be extended to different height. For this reason it is necessary that the structure does not stretch and allows for these differences.

With a rigid fixation and if the level difference is significant, the force generated from the handle of the winch will deform the structure and apply a lateral force to the lifts causing them to break and block.

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Diagram 4.6.1



	Distance from the load's center to the lifting carriage	Maximum load TL-063
A	25 cm (0.82')	270 kg (595.3 lb)
B	30 cm (0.98')	230 kg (507 lb)
C	40 cm (1.31')	175 kg (385.8 lb)
D	50 cm (1.64')	140 kg (308.6 lb)
For large forks:		
E	60 cm (1.97')	115 kg (253.5 lb)

Security system ALS / ILS

The TL-063 incorporates the ALS security system (Automatic Lock Security). This VMB red trigger system automatically blocks the tower in the position it is left in. Each section of the lift has an ALS that blocks the section in the unlikely event of the cable breaking.

4.7 - Elevation:

Turn the winch crank clockwise (***N*^{1}**) to lift the carriage and profiles. The ALS systems enable the lift to rise and automatically block the carriage and profiles whilst rising ensuring that it will never fall. This enables the cable to be without any force and means it is only used for the elevation and descent of the lift. The SRS (Sequence-Retainer-System) will also ensure that the profiles rise in sequence, one after the other.

4.8 - Hold:

The tower can be left in any intermediate position if it is necessary. Just stop turning the handle of the winch and gently turn it in an anticlockwise direction (***N*^{2}**) to block the last profile risen. The ALS lock will take the pressure of the load and release strain applied on the cable.

4.9 - Lowering:

To bring the lift down you need to first turn the winch handle slightly clockwise (***N*^{1}**) and at the same time pull the red ALS lock (***ALS-1***) out. This releases the blocking systems. Then turn the handle anti-clockwise (***N*^{2}**), whilst maintaining the ALS lock pulled out until the profile has been completely lowered. All red ALS locks (***ALS-2, ALS-3 & ALS-C***) should be pulled out one by one whilst the handle is turned anti-clockwise (***N*^{2}**) and the profiles are brought down, one by one.

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If you release your finger from the ALS lock it will automatically block. In this case, repeat the first operation by turning slightly clockwise (***N¹***) and then anti-clockwise (***N²***) whilst always pulling the red ALS lock out. It is necessary to completely lower each profile before starting to lower the next.

CAUTION:

THERE IS NO NEED TO PULL THE ALS LOCKS HARD.

They unlock with the minimum pressure. If you find it difficult to extract, please, turn the winch clockwise slightly so that the pin is not holding all the weight. If you pull too hard you could damage or even break the ALS.

4.10 - Transport:

For the transport of the tower is necessary to fold the machine lowering every profile completely. Once the towerlift is completely folded, place the legs in their transport compartment (**S**) and tighten the legs with the security knobs (**K**), then the lift will be ready to be transported.

5. MAINTENANCE.

5.1 - Regularly check the state of the cable. If the cable has broken threads, or if it shows any signs of crushed/flattened areas, it should be changed and replaced immediately with a new one. Do not use the lift if the cables are in bad condition. Only use VMB steel cables reference: DIN 3060 torsion resistant.

5.2 - The lift is supplied from the factory completely greased. However, it is recommended to periodically grease according to use, the gearing, the axis bearings, the spiral of the crank, and the sections.

5.3 - All lifts should undergo an annual technical inspection carried out by an authorized VMB dealer to check the certifications and general condition of all the lift's elements and security systems involved in the lift's use.

5.4 - Only use original spare parts to guarantee a continued security level. The user loses all rights to warranty if any spare parts other than originals are used or carries out any modification or alteration to the towerlift.

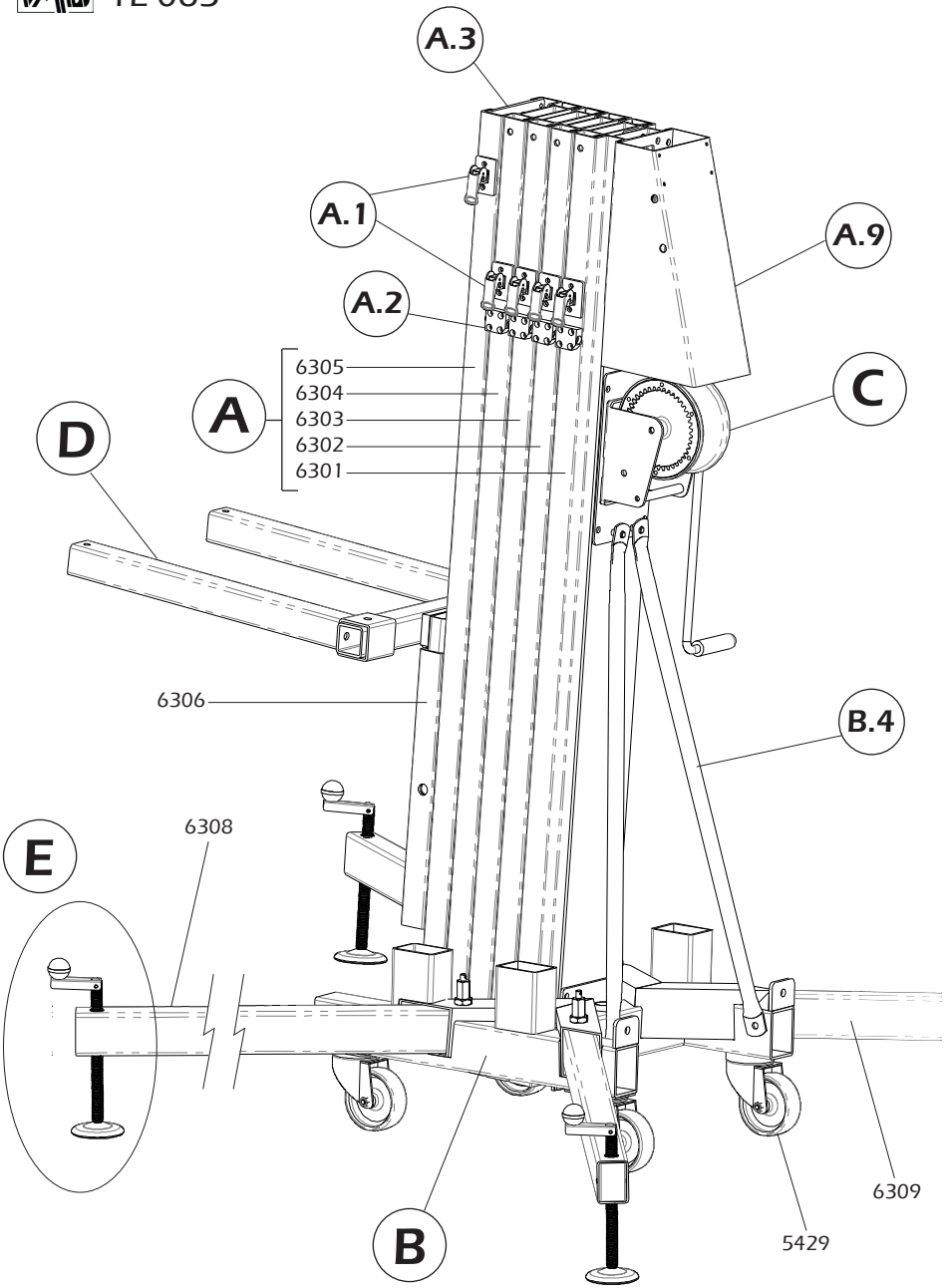
5.5 - To request a spare part please indicate the corresponding code which can be found in this manual together with the lift's serial number and year of manufacture.

6. GUARANTEE.

The warranty period for this lift is 2 years from the date of purchase.

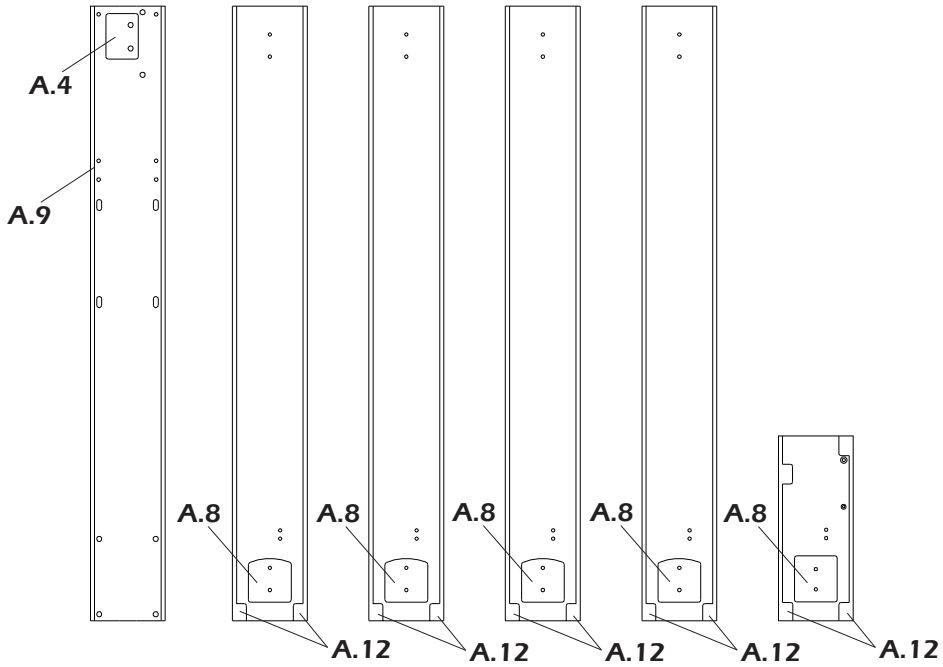
PRO LIFTS S.L. promises, that from the date of purchase and during the warranty period to resolve any faults that may occur, produced through defect material or fabrication. Damage caused by improper use, product modification, third party manipulation or accidental fire are not covered by this warranty.

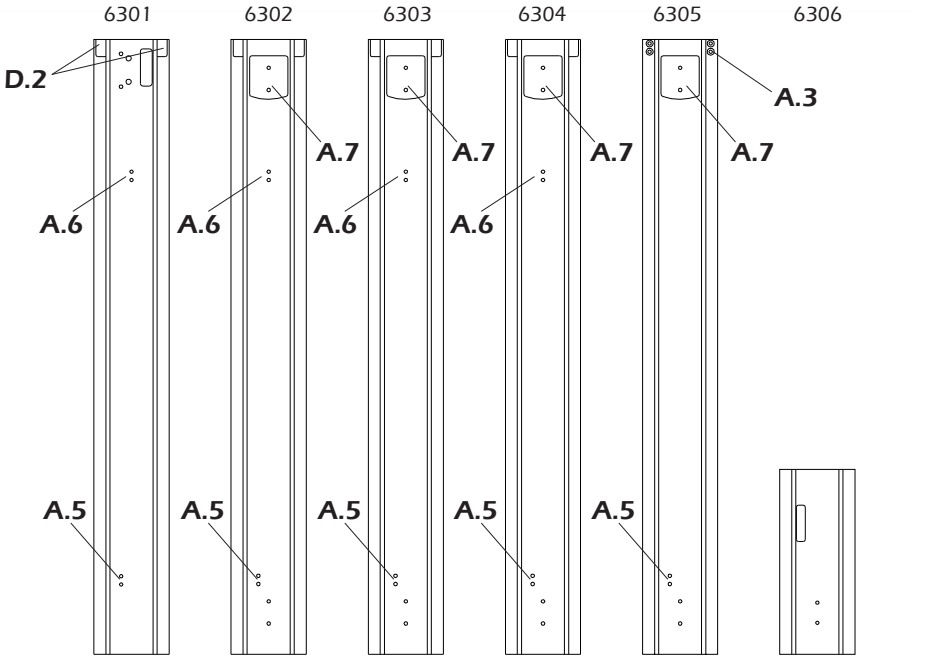
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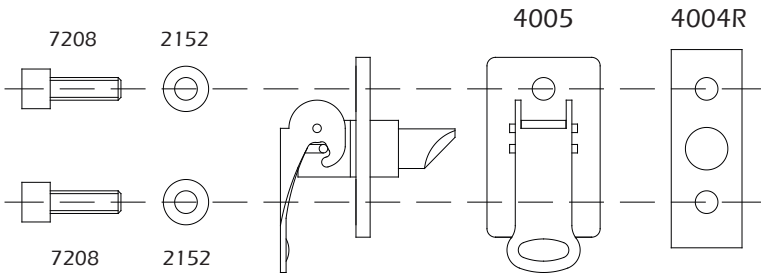
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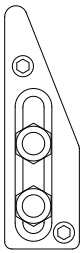


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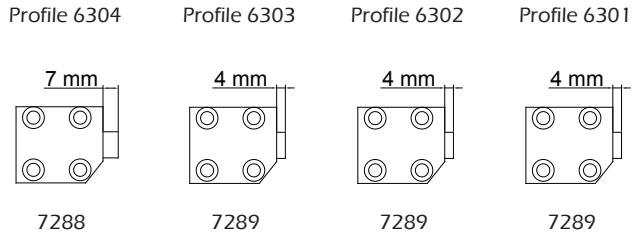
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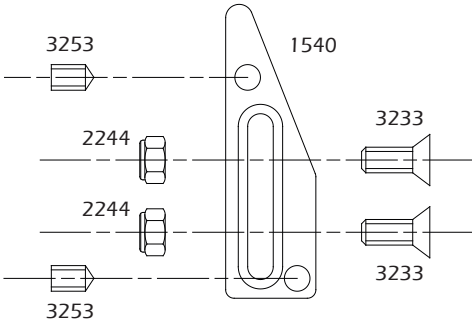


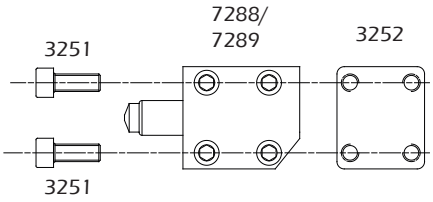
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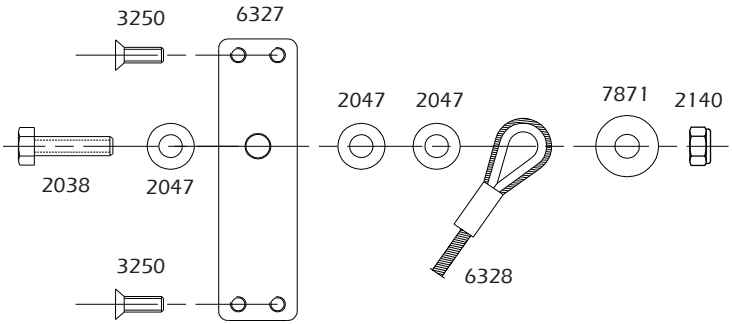
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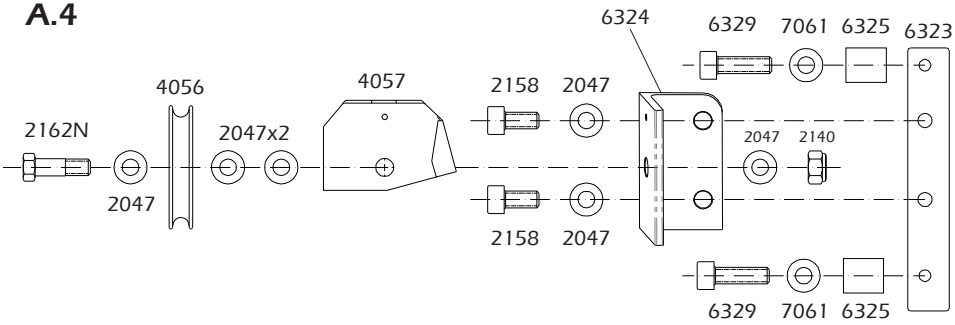


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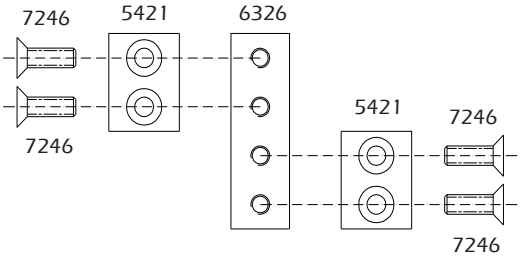


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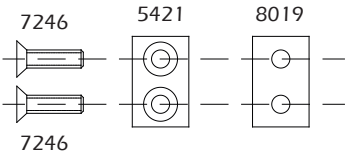
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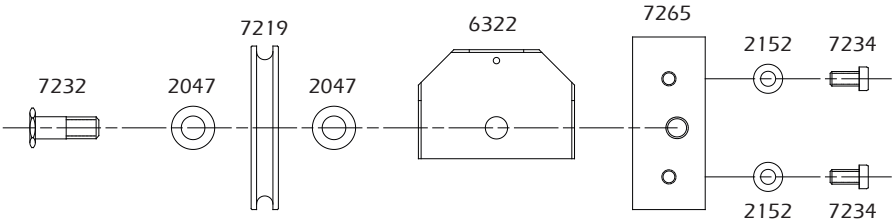
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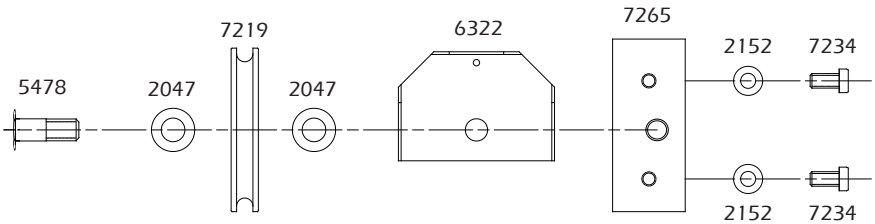
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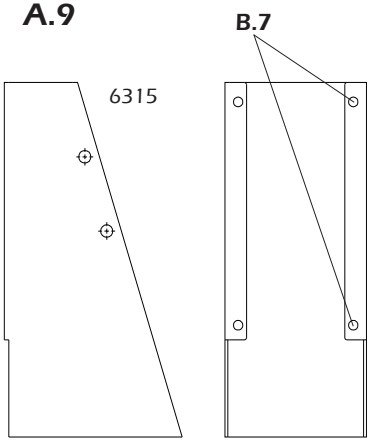


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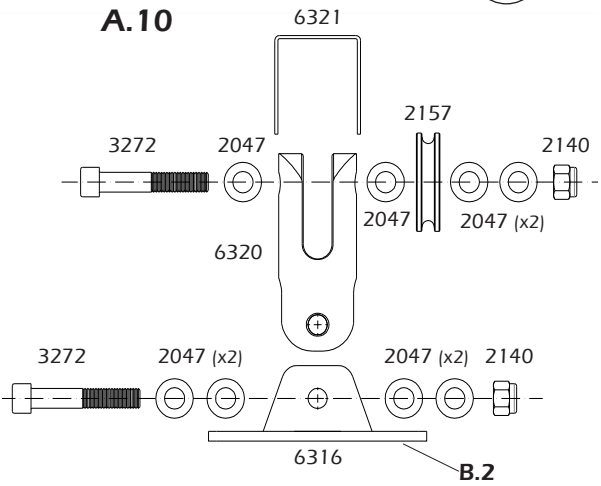


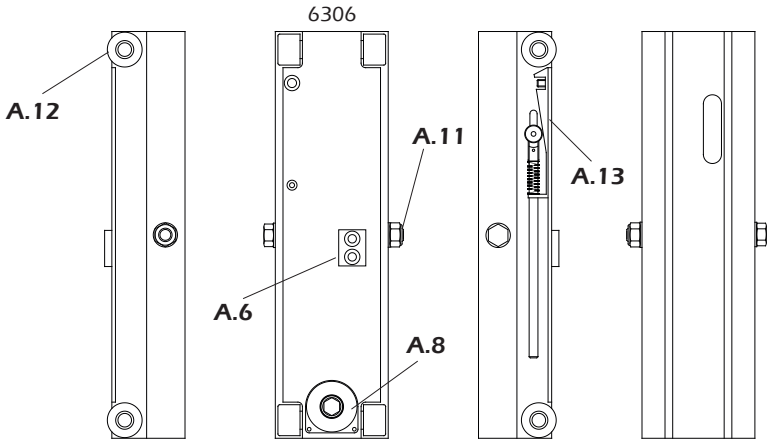
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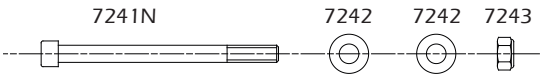


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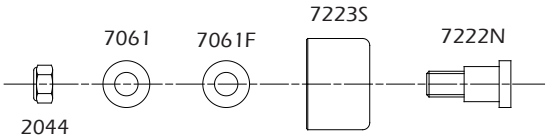




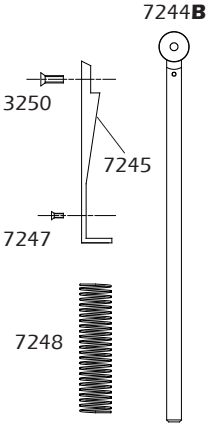
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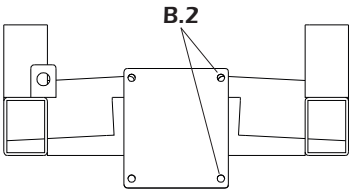
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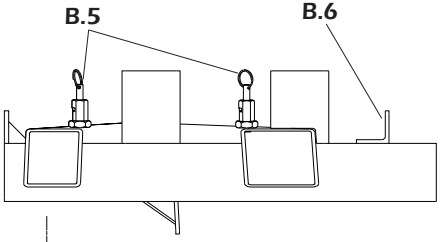


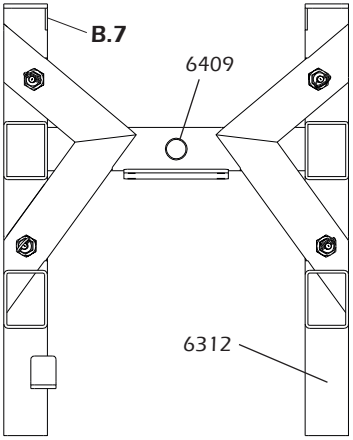
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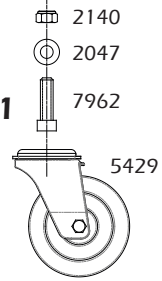


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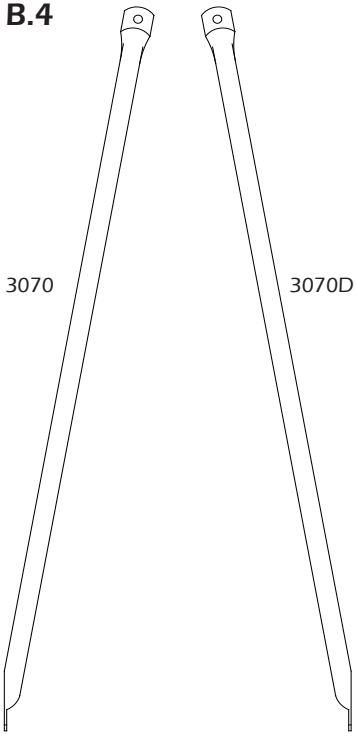




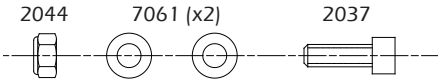




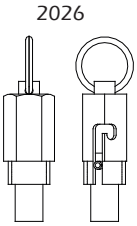
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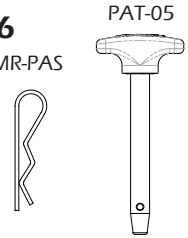
B.2



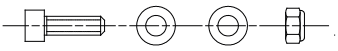
B.5



B.6



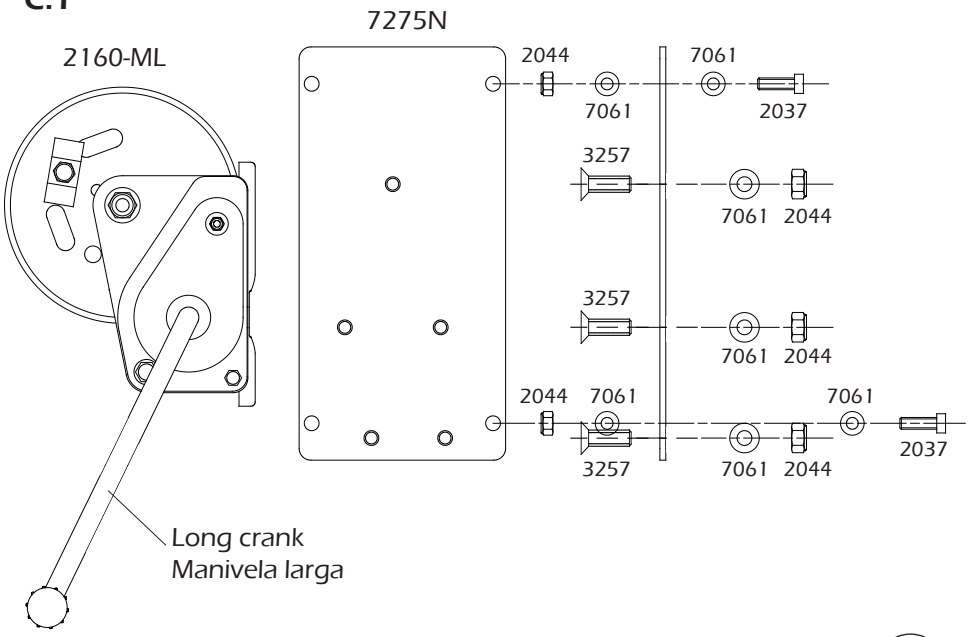
B.7



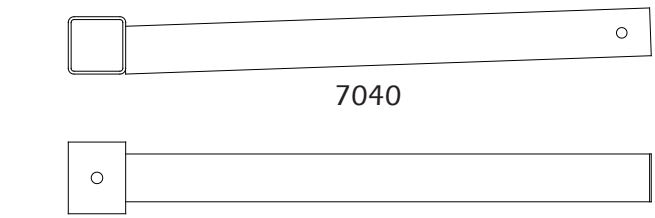
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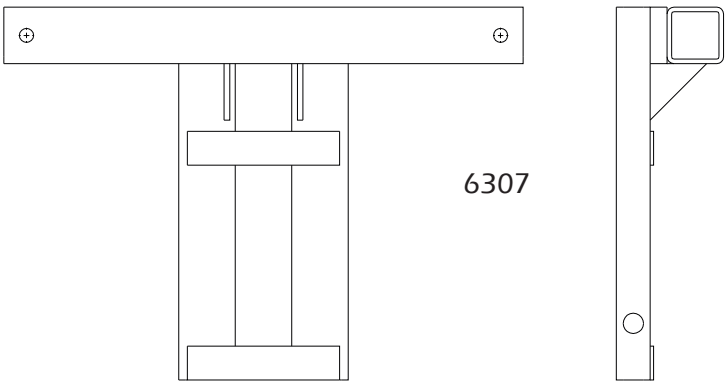
C

C.1



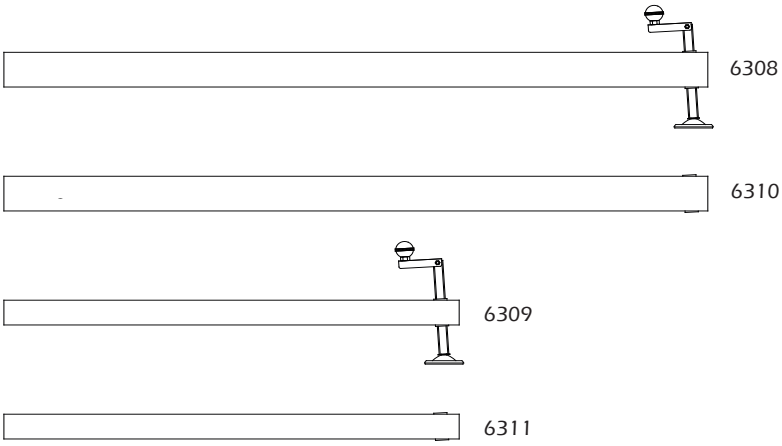
D



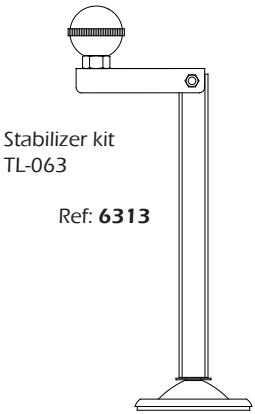


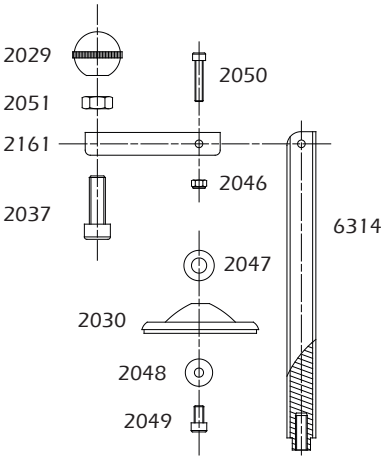
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D.1



D.2





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SPARE PARTS LIST / LISTA DE REPUESTOS TL-063

Code	Description GB / USA	Descripción ES
1540 (B)	SRS Unlock (B black)	Desbloqueador sistema SRS (B Negro)
2026	Safety catch	Gatillo de seguridad
2029	Crank nob Ø34	Pomo baquelita estabilizador patas Ø34
2030	Stabilizer round plate	Platillo de apoyo estabilizador patas Ø84
2037	M10x30 Allen screw	Tornillo allen M10x30
2038	M10x40 Hexagonal screw	Tornillo hexagonal M10x40
2044	M10 Auto-block nut	Tuerca autoblocante M10
2046	M5 Auto-block nut	Tuerca autoblocante M5
2047	M12 Washer	Arandela M12
2048	M6 Washer	Arandela M6
2049	M6x10 Allen screw	Tornillo allen M6x10
2050	M5x25 Allen screw	Tornillo allen M5x25
2051	M10 Nut	Tuerca M10
2140	M12 Auto-block nut	Tuerca autoblocante M12
2141	M8x25 Allen screw	Tornillo allen M8x25
2152	M8 Washer	Arandela M8
2157	Ø60x15 steel pulley	Polea acero Ø60x15
2158	M12x25 Allen screw	Tornillo allen M12x25
2160-ML	900kg Winch (Long crank)	Cabrestante 900kg (Manivela larga)
2161	Steel hand crank	Manivela estabilizador patas
2162N	M12x45 Hexagonal screw	Tornillo hexagonal M12x45
2244	M6 Auto-block nut	Tuerca autoblocante M6
3233	Conic screw M6x16	Tornillo cabeza cónica M6x16
3250	M8x20 Conic screw	Tornillo cabeza cónica M8x20
3251	M6x16 Allen screw	Tornillo allen M6x16
3252	SRS screwed plate	Pletina roscada Retentor
3253	M6x10 Headless allen bolt	Tornillo allen sin cabeza M6x10
3257	M10x25 Conic screw	Tornillo cabeza cónica M10x25
3070	Left steel short strut	Tirante acero corto apoyo trasero izquierdo
3070D	Right steel short strut	Tirante acero corto apoyo trasero derecho
3272	Allen screw M12x70	Tornillo allen M12x70
4004R	ALS fixation alluminium piece	Pieza roscada aluminio fijación gatillo ALS
4005	ALS catch lock	Gatillo ALS
4056	Ø90x17mm Steel Pulley with ball bearing	Polea acero Ø90x17mm con rodamiento

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Code	Description GB / USA	Descripción ES
4057	Cable protector piece for Ø90x17 pulley	Cubre protector acero para polea Ø90x17
5421	Alluminium stop piece	Tope de aluminio
5429	Wheel Ø100	Rueda Ø100
5478	Special thin head screw M12x30	Tornillo especial cabeza fina M12x30
6301 (B)	Base profile 1 (B Black) TL-063 (1550mm)	Tramo 1 Base (B Negro) TL-063 (1550mm)
6302 (B)	Profile 2 (B Black) TL-063 (1550mm)	Tramo 2 (B Negro) TL-063 (1550mm)
6303 (B)	Profile 3 (B Black) TL-063 (1550mm)	Tramo 3 (B Negro) TL-063 (1550mm)
6304 (B)	Profile 4 (B Black) TL-063 (1550mm)	Tramo 4 (B Negro) TL-063 (1550mm)
6305 (B)	Profile 5 (B Black) TL-063 (1550mm)	Tramo 5 (B Negro) TL-063 (1550mm)
6306 (B)	TL-063 Lifting carriage (B Black) (450mm)	Carro elevador TL-063 (B Negro) (450mm)
6307 (B)	TL-063 Steel carriage (B Black)	Carro de acero TL-063 (B Negro)
6308 (B)	TL-063 Complete long leg (B Black)	Pata larga completa TL-063 (B Negro)
6309	TL-063 Complete short leg (B Black)	Pata corto completa TL-063 (B Negro)
6310	TL-063 Long leg steel profile (B Black)	Perfil acero pata larga TL-063 (B Negro)
6311	TL-063 Short leg steel profile (B Black)	Perfil acero pata corta TL-063 (B Negro)
6312 (B)	TL-063 Steel base	Base de acero TL-063 (B Negro)
6313	Complete stabilizer kit TL-063	Estabilizador completo TL-063
6314	TL-063 M18x330mm Threaded bolt	Varilla roscada M18x330mm TL-063
6315	Long protective pulley cover TL-063	Protector cubre-polea TL-063
6316	Support piece cable guide for TL-063	Soporte orejeta guía cable TL-063
6320	Cable guide joint	Rótula doble guía cable
6321	Cable guide protector piece	Protector guía-cable
6322	Pulley cover for (Ø80x11 TL-063 Pulley)	Cubre-polea (TL-063 polea Ø80x11)
6323	Pulley support piece for TL-063 Ø90 pulley	Pletina porta-polea 1era seccoón Ø90x17
6324	1st section pulley support steel angle	Ángulo acero porta-polea 1era sección
6325	Aluminium shell Ø16x1,5 Long:25mm	Casquillo separador Ø16x1,5 Long:25mm
6326	Aluminium stop support	Pieza roscada sujeción topes inferiores
6327	End cable fixation piece for TL-063	Pletina sujeción final de cable TL-063
6328	Ø6x15.9m Steel cable TL-063	Cable de acero Ø6x15.9m TL-063
6329	M10x45 Allen screw	Tornillo allen M10x45
6409	Spirit level Ø30mm	Nivel de burbuja Ø30mm
7040 (B)	Short load support fork (B Black) (54.5cm)	Brazo de carga corto (B Negro) (54.5cm)
7061	M10 Washer	Arandela M10
7061F	M10 Thin washer for adjustments	Arandela fina de ajuste M10
7078	M8 Auto-block nut	Tuerca autoblocante M8

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Code	Description GB / USA	Descripción ES
7208	M8x35 Allen screw	Tornillo allen M8x35
7219	Steel pulley Ø80x11	Polea acero Ø80x11
7222N	Special screw for nylon roller	Tornillo especial para rodillo de nylon
7223S	Nylon roller Ø33.5mm (Special for TL-063)	Rodillo nylon Ø33,5mm (Especial TL-063)
7232	Special screw M12x30	Tornillo especial M12x30
7234	M8x16 Screw	Tornillo M8x16
7241N	M14x180 Allen screw	Tornillo allen M14x180
7242	M14 Washer	Arandela M14
7243	M14 Auto-block nut	Tuerca autoblocante M14
7244**B**	Inertial brake lock (Ø20mm disk)	Varilla freno de inercia (disco Ø20mm)
7245	Brake lock support	Soporte varilla freno de inercia
7246	M8x25 Conic screw	Tornillo cabeza cónica M8x25
7247	M5x10 Conic screw	Tornillo cabeza cónica M5x10
7248	Brake spring	Muelle freno de inercia
7265	Pulley support aluminium piece	Soporte porta-polea cuña aluminio
7275N (B)	Winch plate 072 (B Black)	Placa cabrestante 072 (B Negro)
7288 (B)	SRS Unit Profile 3 (B black)	Pieza Retentor tramo 3 (B Negro)
7289 (B)	SRS Unit Profile 1 & 2 (B black)	Pieza Retentor tramo 1 y 2 (B Negro)
7871	M12 Wide washer	Arandela carrocero M12
7962	M12x40 Allen screw	Tornillo allen M12x40
8019	Threaded alluminium piece inner stop	Pletina roscada tope interior de aluminio
MR-PAS	'R' Clip	Clip de seguridad 'R'
PAT-05	Magnetic steel pin Ø10x84.5mm	Pasador acero imantado Ø10 x 84.5mm

REMEBER TO QUOTE THE TYPE, PRODUCTION YEAR AND SERIAL NUMBER OF THE TOWERLIFT.

RECUERDE CITAR EL MODELO, EL AÑO DE PRODUCCIÓN Y EL NÚMERO DE SERIE DE LA TORRE ELEVADORA.

Vergessen Sie nicht den MODELLJAHR DER PRODUKTION und Seriennummer des HEBETURM zitieren.

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DEKRA

Test report about an acceptance inspection

Device typ:	Towerlift
Typ:	TL-063
Construction year:	2018
Serial number:	074247
Fabrikator:	Prolifts S. L. Pol. Ind. Fuente del Jarro Calle 7 E-46988 Paterna (Valencia)
Technical specifications:	charge maximum: 270 kg minimum high: 1,65 m maximum high: 6,30 m Surface base : 1,92 x 2,05m
Foundation:	DGUV regulation 17 (BGV C1), DGUV principle 315-390 (BGG 912)
Test result:	The accomplishment of the towerlift complies the safty-related receivables of the DGUV regulation 17 and the DIN 56950-3.
Clue:	At each towerlift is an EG-declaration of conformity to deliver. Bevor the towerlift is commissioning at first is an optical control from an assessor after DGUV principle 315-390 necessary.

d. BG ermächt. Sachverständiger Dipl. Ing. K. Haak DEKRA 02-048-B2 B4

Berlin, 31.05.2018

Dipl.-Ing. Konrad Haak

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Para más información consulte con nuestros técnicos en:

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