ES EN DE

CE

DEKRA CERTIFICATION BGV C1

TL-A500

TORRE ELEVADORA

TOWERLIFT

TRAVERSENLIFT



MANUAL DE INSTRUCCIONES
OPERATING INSTRUCTIONS USER MANUAL
BEDIENUNGSANLEITUNG

PROLIFTS S.L.

V.08.19

LIFTING TOWER **TL-A500**
TORRE ELEVADORA **TL-A500**
TRAVERSENLIFT **TL-A500**

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)

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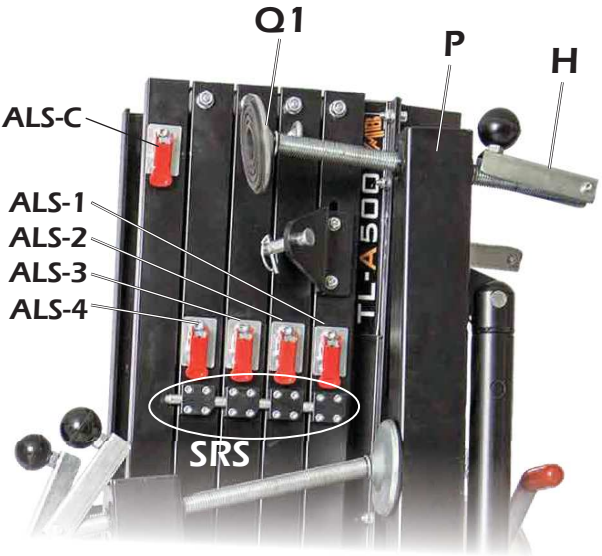
RECYCLABLE

A: Reinforcement struts for line array / Refuerzo especial para Line Array
E: Anchor points for struts / Anclaje del tirante refuerzo frontal para Line Array
F: Load forks / Brazos de carga
S: Transport compartment for legs / Alojamiento de transporte para patas
T: Transport wheels / Ruedas de transporte
V: Working compartment for legs / Alojamiento de trabajo para patas



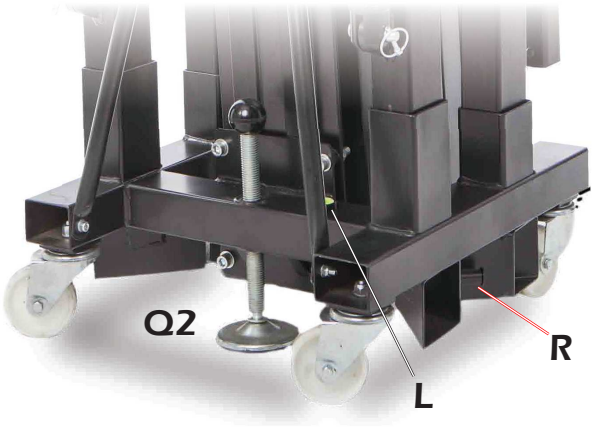


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ALS-C: Auto Lock System carriage / Gatillo automático carro
ALS-1: Auto Lock System 1st profile / Gatillo automático tramo 1
ALS-2: Auto Lock System 2nd profile / Gatillo automático tramo 2
ALS-3: Auto Lock System 3rd profile / Gatillo automático tramo 3
H: Handle / Manivela
L: Spirit level
N: Force on hand crank / Fuerza sobre manivela
P: Leg / Pata
Q1: Stabilizer / Estabilizador
Q2: Base stabilizer / Estabilizador central base
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-A500 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-A500 Towerlift.

2.2 - Designed to lift audio systems, such as PA systems or Line Array, up to different heights.

2.3 - Maximum load : 500 kg (1102.3 lb).

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

2.5 - Security :
ALS (Automatic Lock System).

2.6 - Maximum height : 7.00 m (22.96').

2.7 - Folded height : 1.87 m (6.13').

2.8 - Transport surface:
0,55 x 0,68 x 1,87m (1.8 x 2.23 x 6.13')

2.9 - Shipping dimension:
0,56 x 0,70 x 1,89m (1.84 x 2.30 x 6.20')

2.10 - Work surface :
2.57 x 2.12 m (8.4' x 7').

2.11 - Unit weight : 209 Kg (460.7lb).

2.12. - Load support:
Long reinforced forks (74.5 cm).

2.13 - Construction material : 6082-T6 alluminium for the main body, comprised of five 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: 1200 Kg. maximum load with automatic brake. 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).

2.17 - Spirit level to adjust the tower vertically.

2.18 - Swivel wheels to transport the lift when folded.

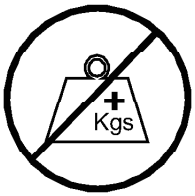
3. SAFETY PRECAUTIONS.



3.1 - The TL-A500 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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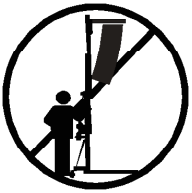
3.5 - Check that the legs (**P**) are placed and set-up correctly with their safety pins (**R**) inserted and locked.



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



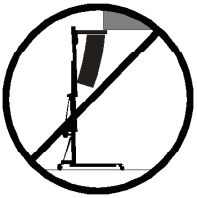
3.7 - If there is a possibility of strong winds or gusts, place the lift on the ground firmly and secure it with the use of straps. NEVER attach a strap to a vehicle or any other object that can possibly be moved.



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.

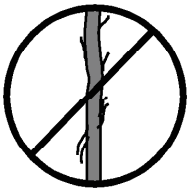


3.10 - Take care with all obstacles above the lift and its extension zone such as cornices, balconies, and luminous signboards. It is very important to avoid the presence of all types of cables below the extended lift.

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



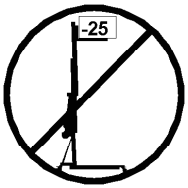
3.12 - Before using the lift, check the condition of the cable. The cable should not have broken threads or show any signs of crushed/flattened areas. NEVER use faulty cables, always change them if there is any doubt. Only use VMB steel cables; reference: DIN 3060. Quality: 180KG/mm and torsion resistant.



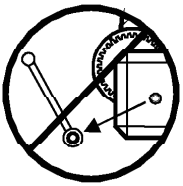
3.13 - All sections must be lowered first, and the legs placed in its transport position, before transportation.



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.

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ORIGINAL

3.17 - Only original replacement parts should be used.

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 - 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***). Remove the reinforcement struts (**A**) as well and place them in their anchor points (**E**), fix them with their corresponding pins and clips.

4.3 - Check that the lift is in vertical position using the spirit level (***L***) at the base of the tower, adjust the stabilizer of the legs (***Q1***), turning the handle (***H***) if necesary. Finally, adjust the base stabilizer (***Q2***) until it touches the floor.

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

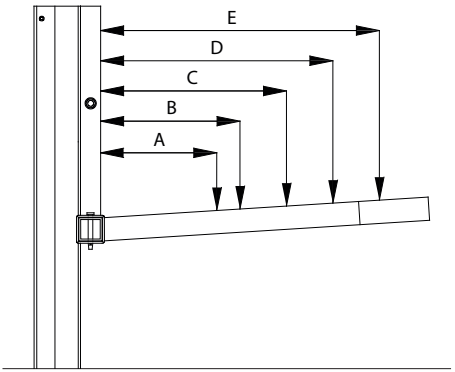
4.5 - <u>DO NOT</u> OVERLOAD THE LIFT. MAXIMUM LOAD IS 500 kg (1102.3 lb)
The lift should NEVER be overloaded. Safety at work is the most important issue. Place the load onto the lift using an adequate VMB support according to the need, use so that the weight of the load will only be elevated in a vertical 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 co-ordinate 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-A500
A	50 cm (1.64')	500 kg (1102.3 lb)
B	55 cm (1.80')	460 kg (1014.1 lb)
C	60 cm (1.97')	420 kg (926 lb)
D	65 cm (2.13')	380 kg (837.7 lb)
E	70 cm (2.30')	340 kg (749.6 lb)

Security system ALS / ILS

The TL-A500 incorporates the patented security system ALS (Automatic Lock Security). This VMB red trigger system automatically blocks the tower in the position it is left in. Each section of lift has an ALS that blocks the section in the unlikely event of the cable breaking. For a more complete security the lifting carriage incorporates the ILS system (Inertial Lock Security)

4.7 - Elevation:

Turn the winch crank clockwise (***N*^{1}**) to lift the carriage and profiles. The ALS system 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 (***N*[1]**) and then anti-clockwise (***N*[2]**) whilst always pulling the red ALS lock out. It is necessary to completely lower each profile before starting to lower the next. **DO NOT** pull another red ALS lock without having completely lowered the previous profile.

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 and the struts (**A**) in their transport compartment (**S**), and tighten the transport 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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TL-A500 SPARE PARTS SKETCHES / CROQUIS DE LAS PIEZAS DE REPUESTO DE **TL-A500**

A **Profiles / *Barras*.....*29***

TL-A500 Profiles / *Barras TL-A500*
A.1 ALS System / *Sistema ALS*
A.2 SRS System / *Sistema retentor SRS*
A.3 Cable fixation / *Prisionero cable*
A.4 Cable protector / Protector de cable
A.5 Base profile upper area / *Zona superior perfil Base*
A.6 Profiles upper area / *Zona superior barras*
A.7 Profiles lower area / *Zona inferior barras*
A.8 Stop piece / Taco tope de barras
A.9 Anchor points for slings / Anclaje vientos

B **Base / *Base*.....*32***

B.1 Wheels / *ruedas*
B.2 Screws for the base / Tornillería de la Base
B.3 Reinforcing struts / Tirantes de refuerzo
B.4 Base stabilizer / Estabilizador de la base
B.5 Pin and “R” clip / Pasadores y clips “R”

C **Winch / *Cabrestante*.....*33***

Forks / *Brazos de carga*
Fork support / *Soporte brazos de carga*

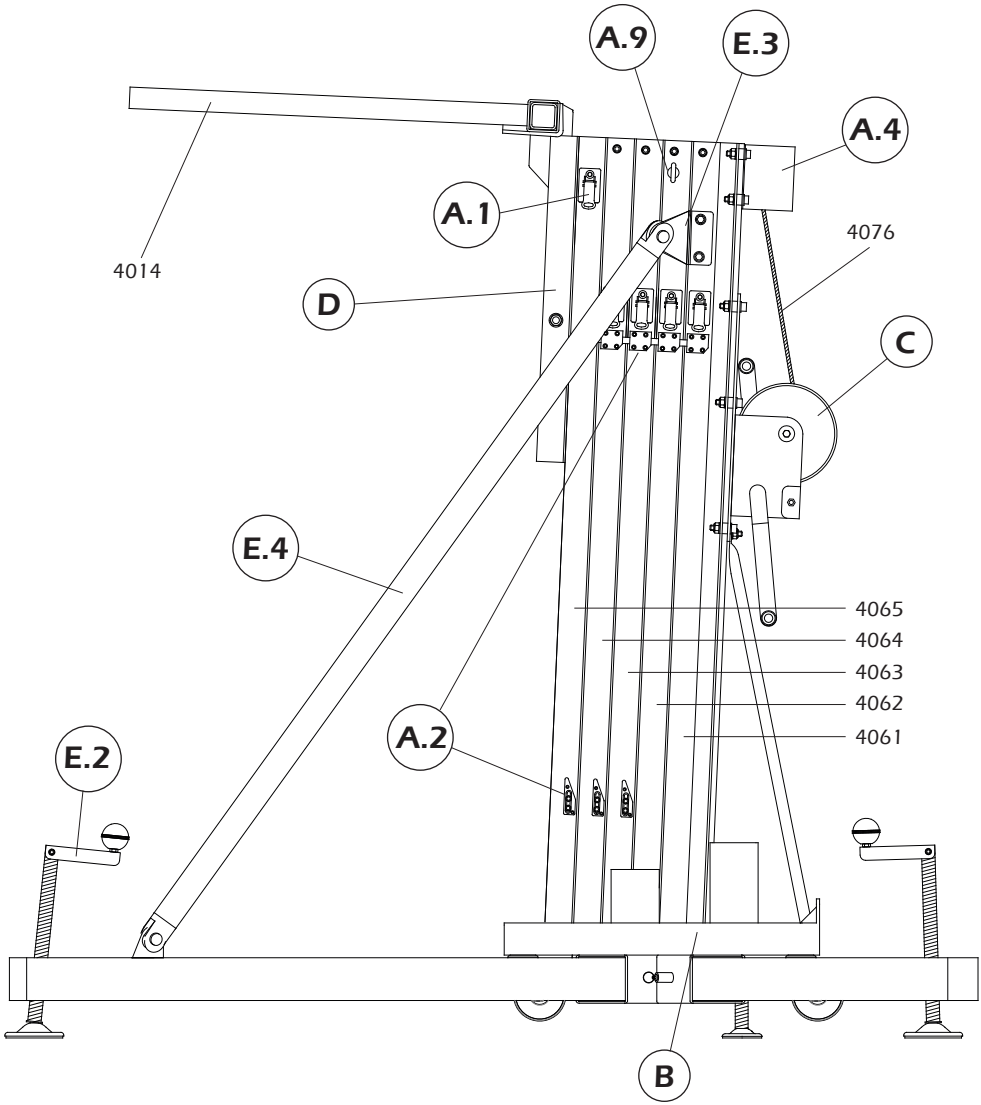
D **Lifting carriage / *Carro elevador*.....*34***

D.1 Lifting carriage lower area / Zona inferior carro elevador
D.2 Nylon roller / *Rodillos*
D.3 Inertial break / *Freno de inercia*
D.4 Fixation screw for fork support / *Tornillo fijador soporte brazos de carga*

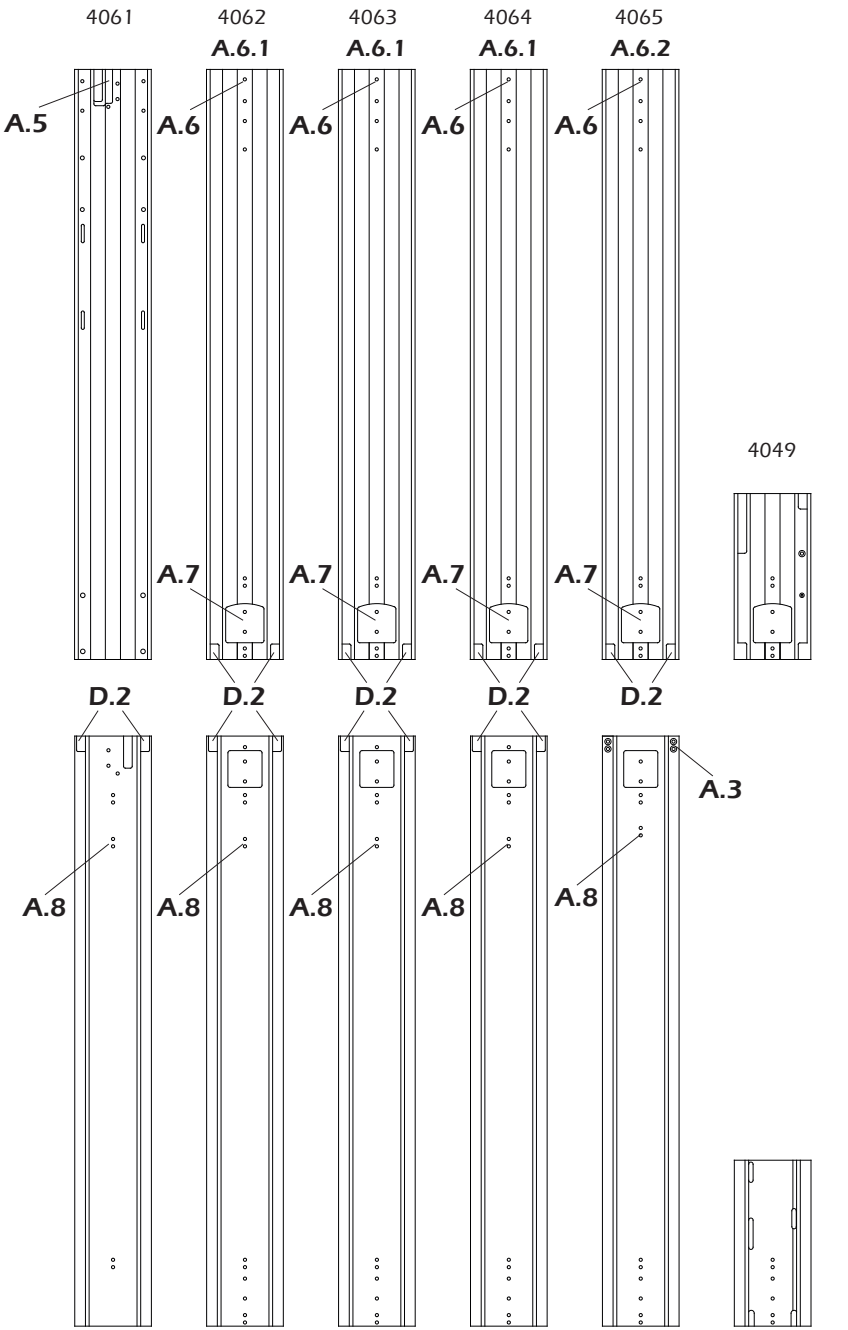
E **Legs / *Patas*.....*35***

E.1 Complete legs and legs profile / *Patas completas, y perfiles patas*
E.2 Complete stabilizer kit and stabilizer exploded / *Estabilizador completo y despiece estabilizador*
E.3 Fixation piece for frontal strut / *Orejeta soporte tirante frontal a patas*
E.4 Frontal reinforcements struts / *Tirantes de apoyo frontal a patas*

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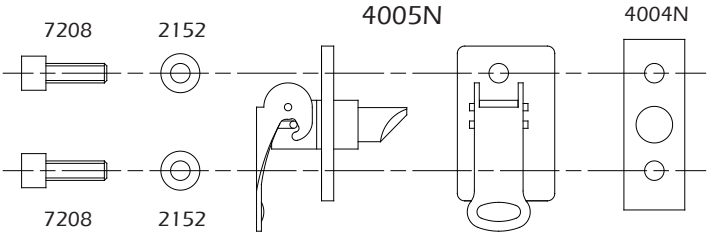


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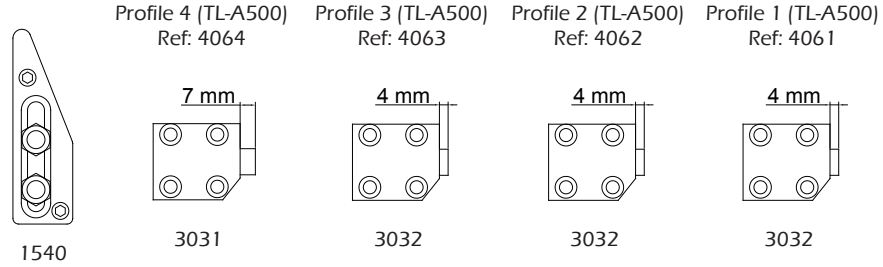


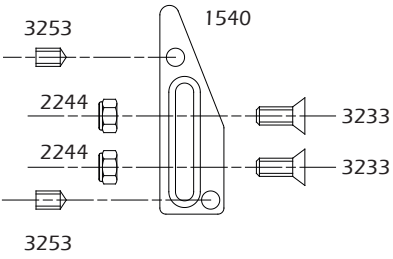
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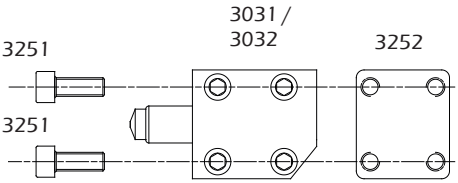
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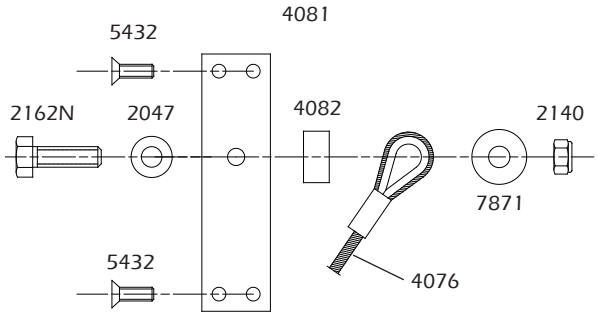
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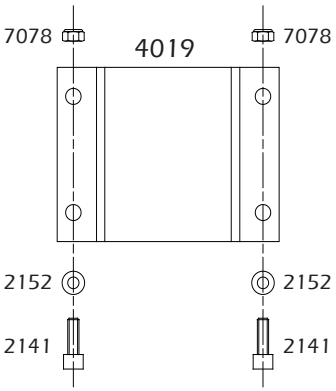




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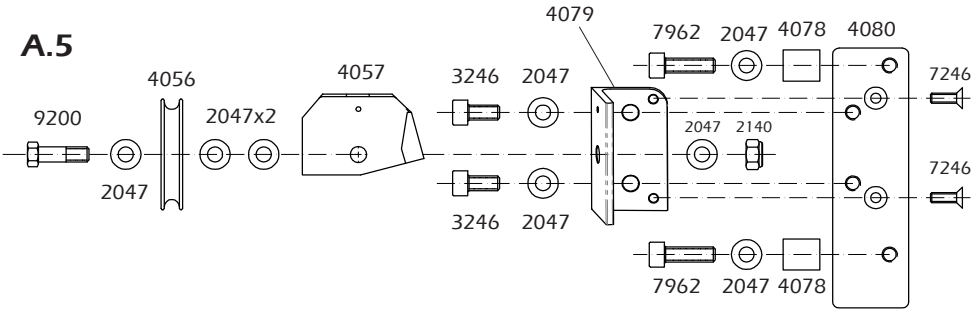


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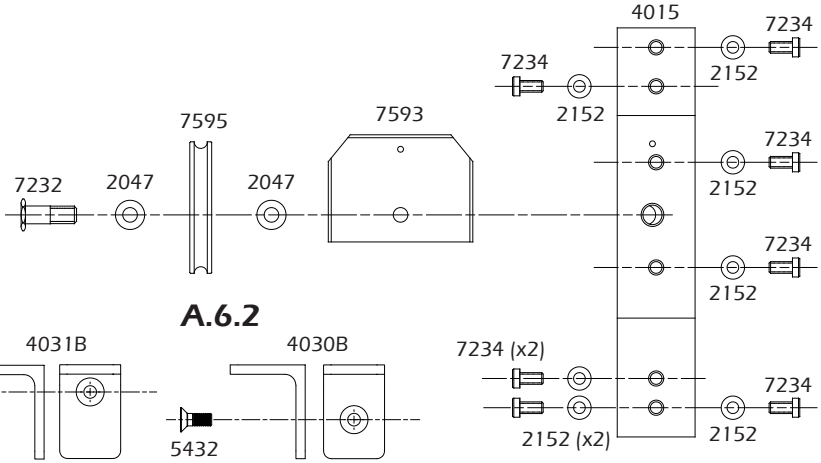


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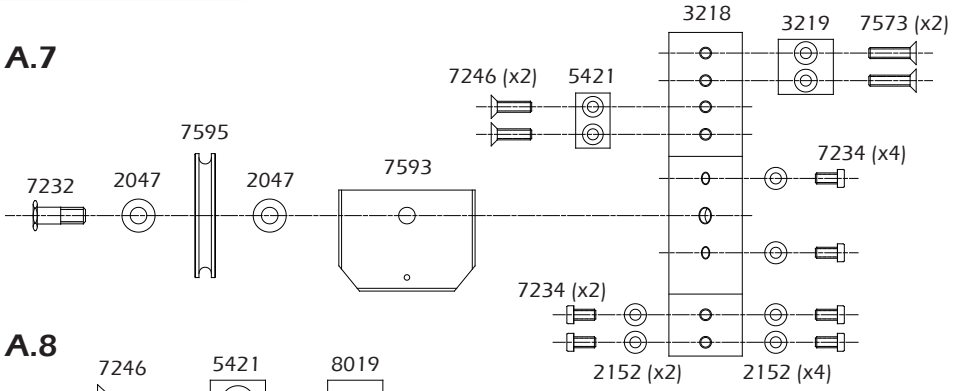
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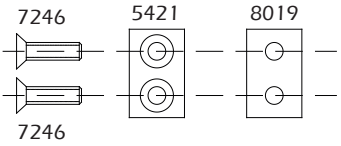
A.6.1

A.6.2

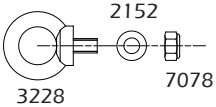
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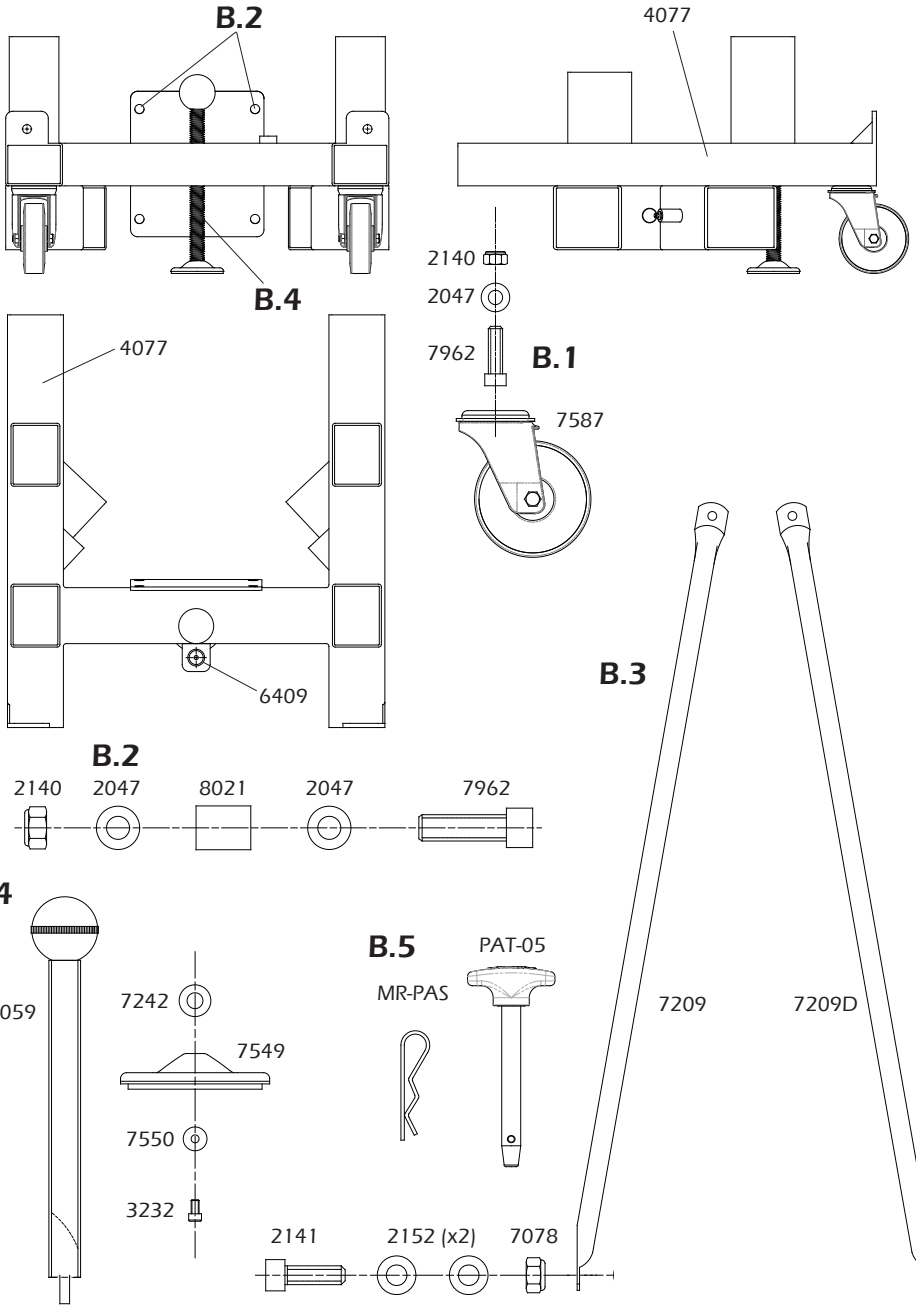
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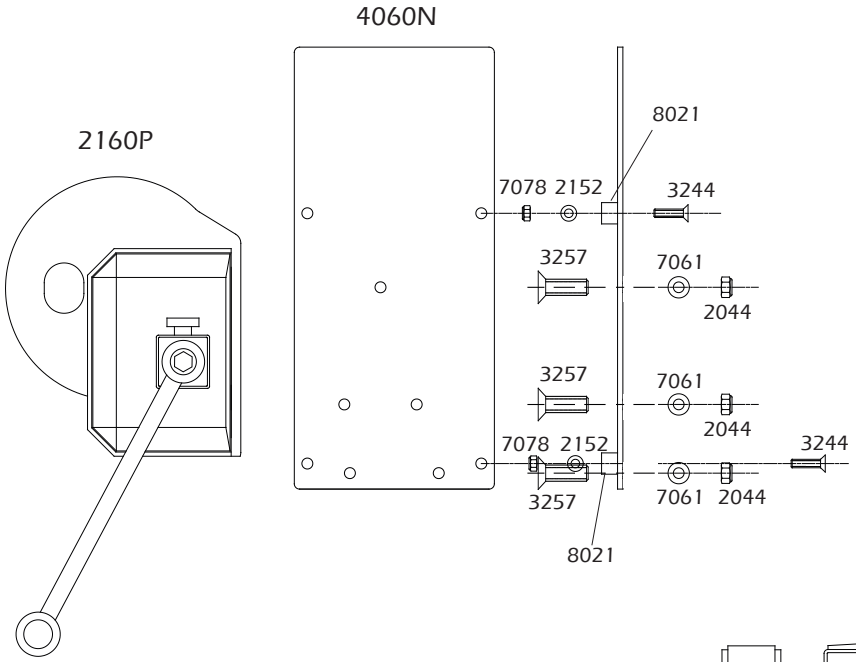
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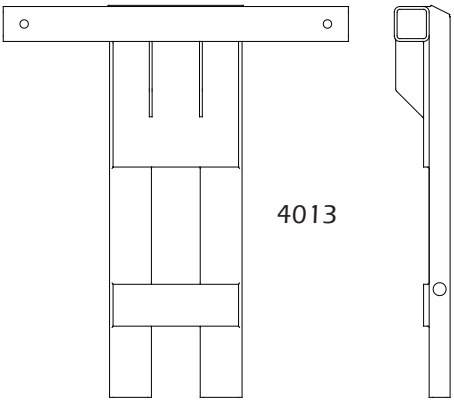


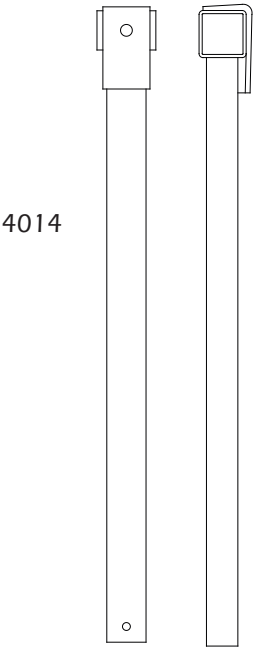
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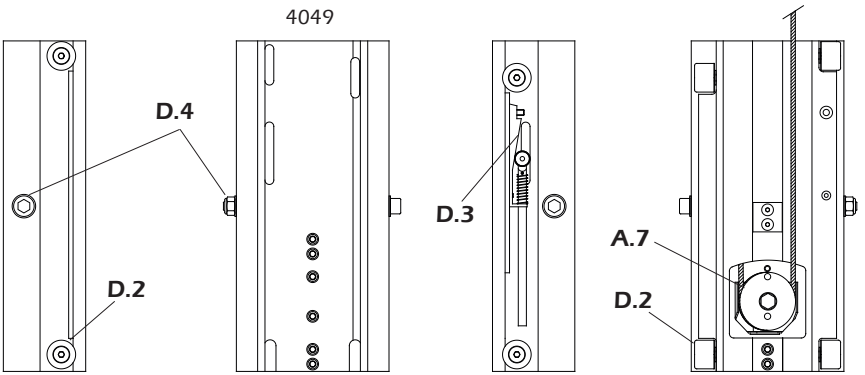
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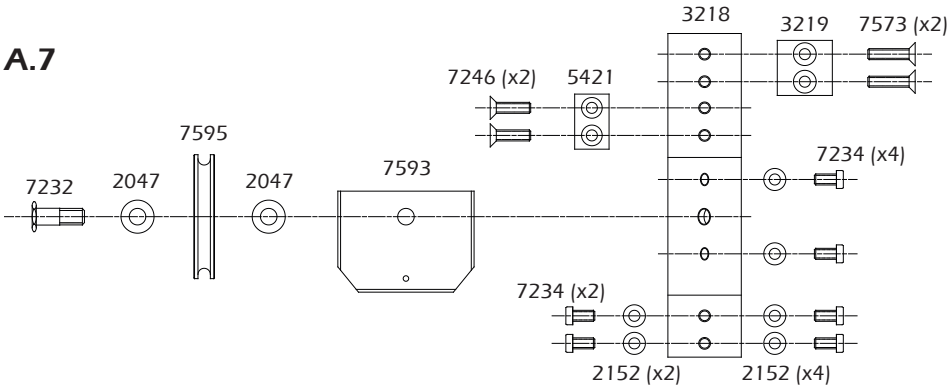


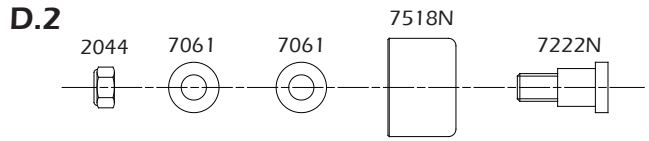


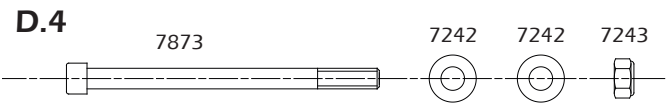


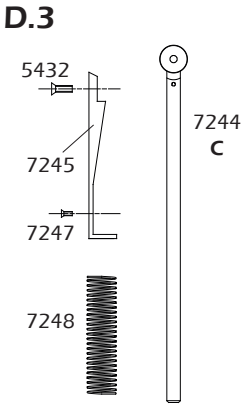
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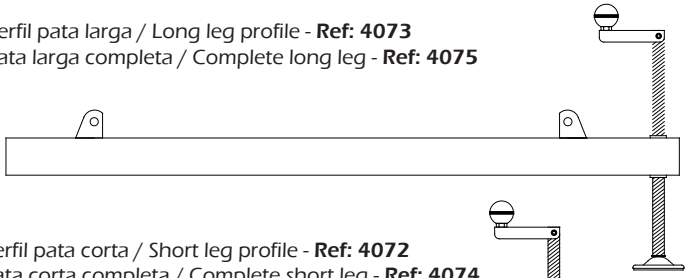




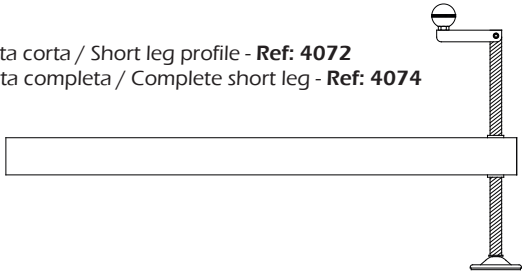
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E.1

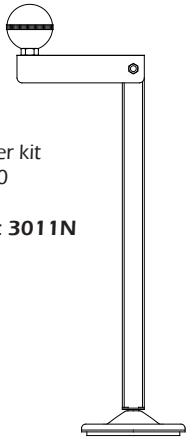
Perfil pata larga / Long leg profile - **Ref: 4073**
Pata larga completa / Complete long leg - **Ref: 4075**



Perfil pata corta / Short leg profile - **Ref: 4072**
Pata corta completa / Complete short leg - **Ref: 4074**

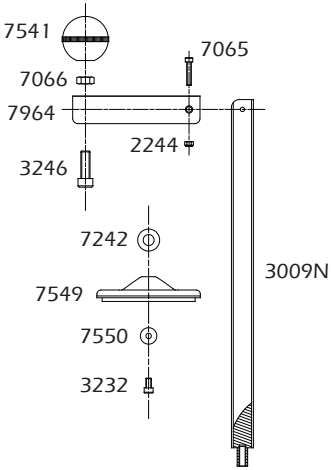


E.2

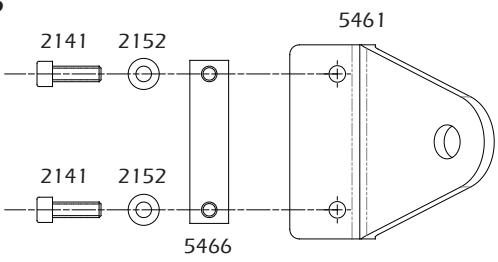


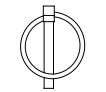
Stabilizer kit
TL-A500

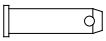
Ref: **3011N**



E.3

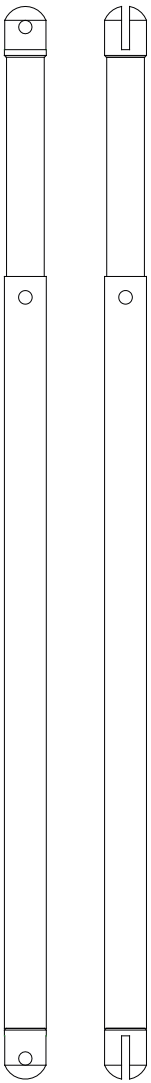






E.4

4071 (x2)



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TL-A500 SPARE PARTS LIST / LISTA DE REPUESTOS TL-A500

Code	Description GB / USA	Descripción ES
1540 (B)	SRS Unlock wedge (B Black)	Cuña desbloqueador SRS (B Negro)
2044	M10 Auto-block nut	Tuerca autoblocante M10
2047	M12 Washer	Arandela M12
2140	M12 Auto-block nut	Tuerca autoblocante M12
2141	M8x25 Allen screw	Tornillo allen M8x25
2152	M8 Washer	Arandela M8
2160P	1201 Plus Winch	Cabrestante 1201 Plus
2162N	M12x40 Hexagonal screw	Tornillo hexagonal M12x40
2244	M6 Auto-block nut	Tuerca autoblocante M6
3009N	M24x330 Screw	Perno roscado M24x330
3011N	Complete stabilizer TL-A500	Estabilizador completo TL-A500
3031 (B)	SRS Unit profile 3 (B Black)	Pieza retentor SRS tramo 3 (B Negro)
3032 (B)	SRS Unit profile 1 & 2 (B Black)	Pieza retentor SRS tramo 1 y 2 (B Negro)
3218	Inferior pulley support alluminium piece	Pieza aluminio soporte polea inferior
3219	Wide inner stop piece	Tope interior ancho
3228	Anchor points for slings	Anclaje vientos
3232	Allen screw M8x16	Tornillo allen M8x16
3233	Conic screw M6x16	Tornillo cabeza cónica M6x16
3244	M8x40 Conic screw	Tornillo cónico M8x40
3246	M12x25 Allen screw	Tornillo allen M12x25
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
4004N	ALS fixation alluminium piece	Pieza roscada aluminio fijación gatillo ALS
4005N	ALS catch lock (Big piston pin)	Gatillo ALS (Bulón grande)
4013 (B)	Forks support (B Black)	Soporte brazos de carga (B Negro)
4014 (B)	Forks (B Black)	Brazos de carga (B Negro)
4015	Upper pulley alluminium support piece	Soporte aluminio porta-polea superior
4019 (B)	Pulley protector (B Black)	Protector polea entrada (B Negro)
4030 (B)	Upper stop piece last section (B Black)	Ángulo acero tope plegado (B Negro)
4031 (B)	Upper stop piece firsts sections (B Black)	Ángulo acero tope plegado (B Negro)
4049 (B)	Lifting carriage TL-A500 (B Black)	Tramo carro aluminio TL-A500 (B Negro)
4056	17mm wide steel Ø90 pulley	Polea de acero Ø90 ancha 17mm

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Code	Description GB / USA	Descripción ES
4057	Wide cable protection Ø90 pulley	Protección cable polea Ø90 ancha
4059	Ø24x330mm Bolt with bakelite ball	Perno Ø24x330mm con bola de baquelita
4060N (B)	Winch fixation plate (B Black)	Placa porta-cabrestante (B Negro)
4061 (B)	Base profile 1 TL-A500 (B Black)	Tramo Base 1 TL-A500 (B Negro)
4062 (B)	Profile 2 TL-A500 (B Black)	Tramo 2 TL-A500 (B Negro)
4063 (B)	Profile 3 TL-A500 (B Black)	Tramo 3 TL-A500 (B Negro)
4064 (B)	Profile 4 TL-A500 (B Black)	Tramo 4 TL-A500 (B Negro)
4065 (B)	Profile 5 TL-A500 (B Black)	Tramo 5 TL-A500 (B Negro)
4071 (B)	Telescopic reinforcement strut (B Black)	Tirante apoyo telescopico patas (B Negro)
4072 (B)	Short leg profile (B Black)	Perfil pata corta (B Negro)
4073 (B)	Long leg profile (B Black)	Perfil pata larga (B Negro)
4074 (B)	Complete short leg (B Black)	Pata corta completa (B Negro)
4075 (B)	Complete long leg (B Black)	Pata larga completa (B Negro)
4076	Steel cable Ø6 x 19m	Cable de acero Ø6 x 19m
4077 (B)	TL-A500 Base (B Black)	Base TL-A500 (B Negro)
4078	Alluminium tube Ø25x3mm Long=29mm	Tubo aluminio M25x3mm Long=29mm
4079	Steel support piece for pulley	Pieza acero soporte de poleas
4080	Steel fixation piece for pulley support	Pieza de acero sujección porta-poleas
4081 (B)	Cable fixation plate (B Black)	Pletina sujección cable (B Negro)
4082	Steel spacer piece Ø30x15mm	Casquillo separador acero Ø30x15mm
5421	Alluminium stop piece	Tope de aluminio
5432	Conic allen screw M8x20	Tornillo allen cabeza cónica M8x20
5461 (B)	Fixation piece for strut (B Black)	Oreja soporte tirante refuerzo frontal (B Negro)
5466	Screwed piece for strut's fixation	Pieza fijación oreja de tirante de refuerzo
6409	Spirit level Ø30mm	Nivel de burbuja Ø30mm
7061	M10 Washer	Arandela M10
7065	M6x35 Allen screw	Tornillo allen M6x35
7066	M12 Nut	Tuerca M12
7078	M8 Auto-block nut	Tuerca autoblocante M8
7208	M8x35 Allen screw	Tornillo allen M8x35
7209 (B)	Left reinforcement strut (B Black)	Tirante de refuerzo izquierdo (B Negro)
7209D (B)	Right reinforcement strut (B Black)	Tirante de refuerzo derecho (B Negro)
7222N	Special screw for nylatron roller	Tornillo especial para rodillo de nylatron
7232	M12 Special pulley screw	Tornillo especial M12 para polea
7234	M8x16 Screw	Tornillo M8x16
7242	M14 Washer	Arandela M14

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Code	Description GB / USA	Descripción ES
7243	M14 Auto-block nut	Tuerca autoblocante M14
7244**C**	Inertial brake lock rod (Ø22mm disk)	Varilla freno de inercia (Disco Ø22mm)
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
7518N	Black nylatron roller Ø39	Rodillo nylatron negro Ø39
7541	Stabilizer crank ball Ø51	Bola de baquelita Ø51 para estabilizador
7549	Stabilizer round plate	Platillo apoyo estabilizador
7550	M8 wide Washer	Arandela M8 ancha
7573	M8x30 Conic screw	Tornillo cónico M8x30
7587	White wheel Ø100	Rueda blanca Ø100
7593	Cable protection for Ø90 pulley	Protección cable para polea Ø90
7595	Steel Ø90 pulley	Polea de acero Ø90
7871	M12 wide washer	Arandela M12 ancha
7873	M14x235 Allen screw	Tornillo allen M14x235
7962	M12x40 Allen screw	Tornillo allen M12x40
7964	Steel hand crank for stabilizer	Manivela de acero para estabilizador
8019	Threaded alluminium piece inner stop	Pletina roscada tope interior de aluminio
8021	Base and winch support shell	Casquillo separador portacabrestante y base
9200	M12x45 DIN 912 screw (hardness 12.9)	Tornillo M12x45 DIN 912 (Dureza 12.9)
MR-PAS	'R' Clip	Clip de seguridad 'R'
MR-SPI	Ring safety clip	Clip de seguridad anillo
PAS-SPI	Fastener steel pin Ø16 x 65.5mm	Pasador de acero Ø16 x 65.5mm
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-A 500
Serial number:	68692
Fabrikator:	Prolifts S. L. Pol. Ind. Fuente del Jarro Calle 7 E-46988 Paterna VALENCIA
Technical specifications:	charge maximum: 500 kg tare: 190 kg minimum high: 1,87 m maximum high: 7,00 m Surface base : 2,57 x 2,12m
Foundation :	BGV C1, BGG 912
Test result:	The accomplishment of the towerlift complies the safty-related receivables of the BGV-C1.
Clue: to deliver.	At each towerlift is an EG-declaration of conformity Bevor the towerlift is commissioning at first is an optical control from an assessor after BGG 912 necessary.

Berlin, 13.08.2015

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

Dipl.-Ing. Konrad Haak

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Para más información consulte con nuestros técnicos en:

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