ES EN DE

CE

DEKRA CERTIFICATION BGV C1



TL-054 / TL-056

TORRE ELEVADORA

TOWERLIFT

TRAVERSENLIFT

MANUAL DE INSTRUCCIONES

OPERATING INSTRUCTIONS USER MANUAL

BEDIENUNGSANLEITUNG

PROLIFTS S.L.

V.08.19

LIFTING TOWER **TL-054 / TL-056**
TORRE ELEVADORA **TL-054 / TL-056**
TRAVERSENLIFT **TL-054 / TL-056**

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-054 / TL-056



F: Forks / Brazos de carga

S: Transport compartment / Alojamiento de transporte

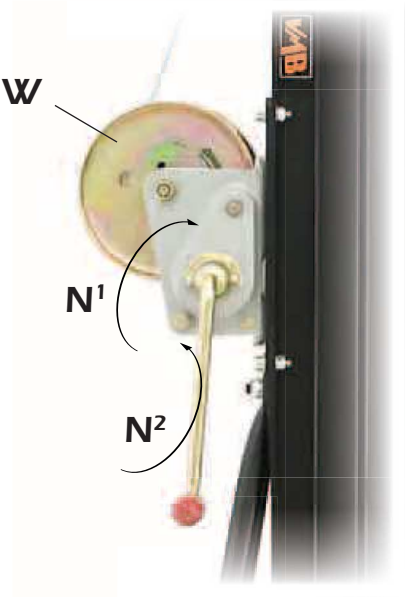
T: Transport wheels / Ruedas de transporte

V: Working compartment / Alojamiento de trabajo

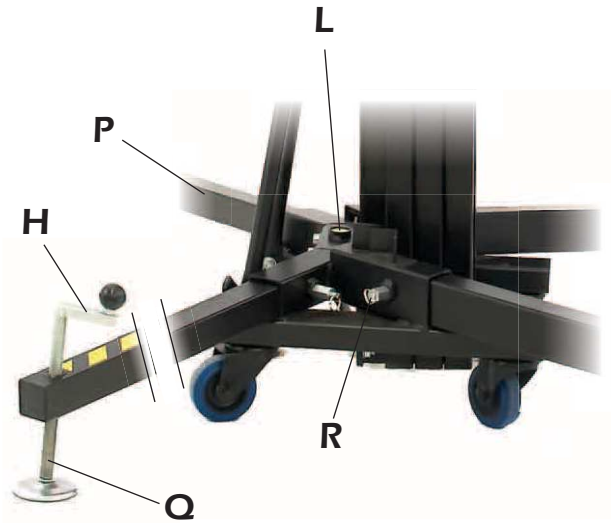
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TL-054 / TL-056

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.
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6. Guarantee.

1. INTRODUCTION

Dear customer, in order to ensure a safe and reliable operation of the TL-054 / TL-056 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-054 / TL-056 Towerlift.

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

2.3 - Maximum load :
TL-054: 220 kg (485 lb).
TL-056: 200 kg (441 lb).

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

2.5 - Security : **ILS** (Inertial Lock Security).

2.6 - Maximum height :
TL-054: 5.45 m (17.8').
TL-056: 6.5 m (21.3').

2.7 - Folded height :
TL-054: 1.70 m (5.6').
TL-056: 1.98 m (6.5')

2.8 - Transport surface:
TL-054: 0,49x0,49x1,70m (1.6x1.6x5.6')
TL-056: 0,49x0,49x1,98m (1.6x1.6x6.5')

2.9 - Shipping dimension:
TL-054: 0,51x0,51x1,72m (1.67x1.67x5,64')
TL-056: 0,51x0,51x2,00m (1.67x1.67x6,56')

2.10 - Work surface :
2 x 2 m (6.6' x 6.6').

2.11 - Unit weight :
TL-054: 87 Kg (191 lb).
TL-056: 94.5 kg (208 lb).

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

2.13 - Construction material : 6082-T6 alluminium for the main body, comprised of 4 profiles and a lifting carriage. Base and legs are made of steel profile according to DIN 2394. Catches and pulleys of ST-37 steel.

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

2.15 - Cable : Steel DIN 3060. Quality 180 Kg/mm^2 twist resistant. Cable diameter: Ø5 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.

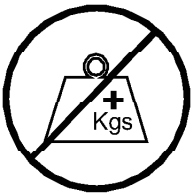
3. SAFETY PRECAUTIONS.



3.1 - The TL-054 / TL-056 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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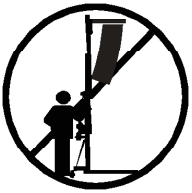
3.5 - Check that the legs (**P**) are placed and set-up correctly with their safety pins (**R**) inserted and locked.



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.

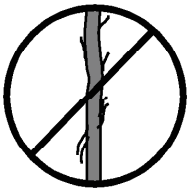


3.10 - Take care with all obstacles above the lift and its extension zone such as cornices, balconies, and luminous signboards. It is very important to avoid the presence of all types of cables below the extended lift.

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



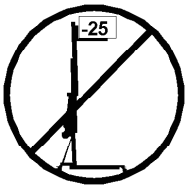
3.12 - Before using the lift, check the condition of the cable. The cable should not have broken threads or show any signs of crushed/flattened areas. NEVER use faulty cables, always change them if there is any doubt. Only use VMB steel cables; reference: DIN 3060. Quality: 180KG/mm and torsion resistant.



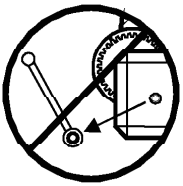
3.13 - All sections must be lowered first, and the legs placed in its transport position, before transportation.



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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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**).

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 - DO NOT OVERLOAD THE LIFT.

TL-054 MAXIMUM LOAD IS 220 kg
TL-056 MAXIMUM LOAD IS 200 kg

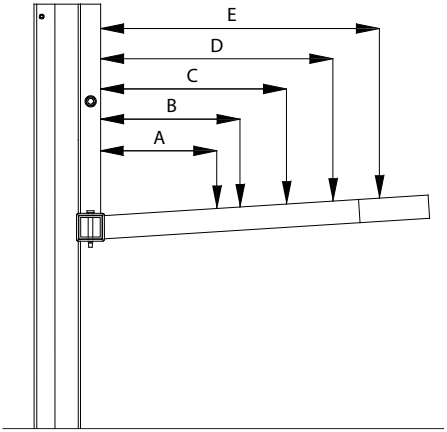
The lift should NEVER be overloaded. Safety at work is the most important issue. Place the load onto the lift using an adequate VMB support according to the need, use so that the weight of the load will only be elevated in a vertical direction. The minimum load is 25 Kg.

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.

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

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Diagram 4.6.1



	Distance from the load's center to the lifting carriage	Maximum load	
		TL-054	TL-056
A	25 cm (0.82')	220 kg (485 lb)	200 kg (441 lb)
B	30 cm (0.98')	198 kg (437 lb)	173 kg (381 lb)
C	40 cm (1.31')	165 kg (364 lb)	130 kg (287 lb)
D	50 cm (1.64')	141 kg (311 lb)	104 kg (229 lb)
For large forks:			
E	60 cm (1.97')	123 kg (271 lb)	86 kg (190 lb)

from the handle of the winch will deform the structure and apply a lateral force to the lifts causing them to break and block.

Security system ILS

The TL-054 / TL-056 incorporates the ILS security system (Inertial Lock Security). This VMB system automatically blocks each profile and the lifting carriage in the unlikely event of cable breaking.

4.7 - Elevation:

Turn the winch crank clockwise (**N**^{1}) to lift the carriage. The unique SRS system (Sequence Retainer System) will 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 leave it. The automatic brake of the winch will block it and hold the load.

4.9 - Lowering:

To bring the lift down you need to first turn the winch handle gently clockwise (**N**^{1}) to release the clutch of the winch. Then turn the handle anti clockwise (**N**^{2}) until all profiles have been completely lowered.

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 the lift will be ready to be transported.

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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.

7. CERTIFICATE

BGV-C1

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

CE

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TL-054 & TL-056 SPARE PARTS SKETCHES / CROQUIS DE LAS PIEZAS DE REPUESTO DE **TL-054 y TL-056**

A **Profiles / *Barras*.....*28***

TL-054 Profiles / *Barras TL-054*
TL-056 Profiles / *Barras TL-056*
A.1 SRS System / *Sistema retentor SRS*
A.2 Cable fixation / *Prisionero cable*
A.3 Base profile lower area / *Zona inferior perfil Base*
A.4 Profile upper area / *Zona superior barras*
A.5 Alluminium stop piece */ Pieza de aluminio tope barras*

B **Base / *Base*.....*30***

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

C **Winch / *Cabrestante*.....*31***

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

D **Lifting carriage / *Carro elevador*.....*32***

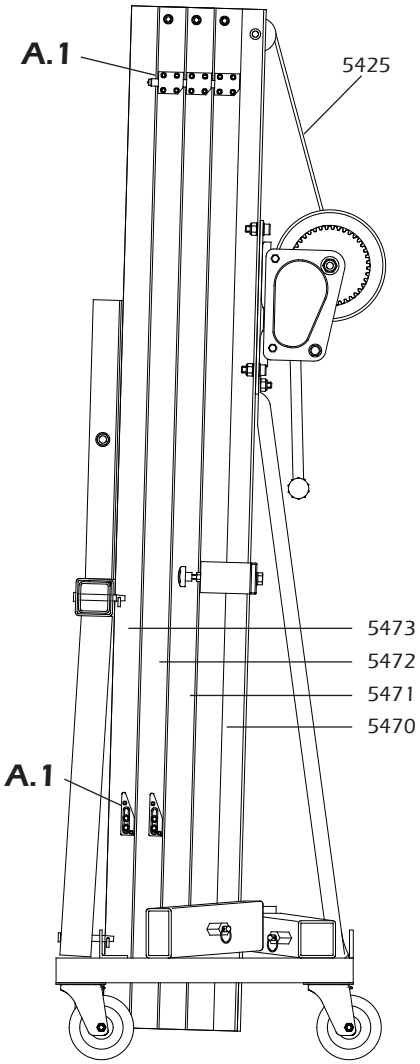
D.1 Fixation screw for fork support / *Tornillo fijador soporte brazos de carga*
D.2 Nylon roller / *Rodillos*
D.3 Inertial break / *Freno de inercia*
D.4 Profile stop piece / *Taco tope barra*
D.5 Pulley system of the carriage lower area / *Sistema de rodillos y poleas inferior carro*

E **Legs / *Patas*.....*33***

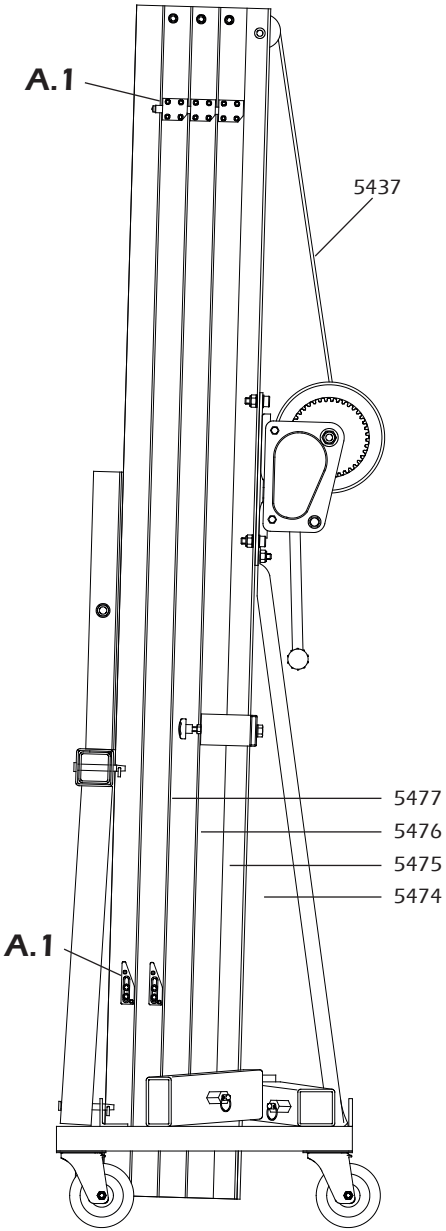
E.1 Leg transport support / *Porta-patas para transporte*
E.2 Complete legs and legs profile / *Patas completas, y perfiles patas*
E.3 Complete stabilizer kit and stabilizer exploded / *Estabilizador completo y despiece estabilizador*

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TL-054

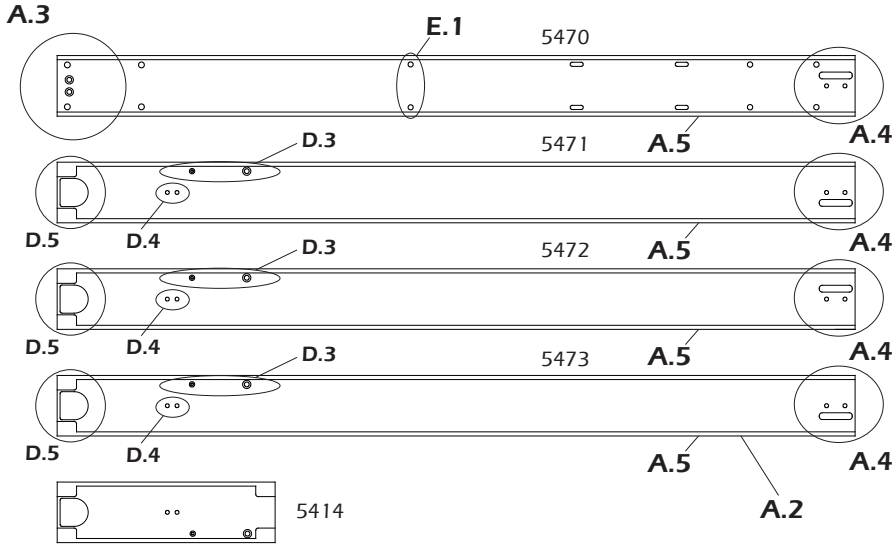


TL-056

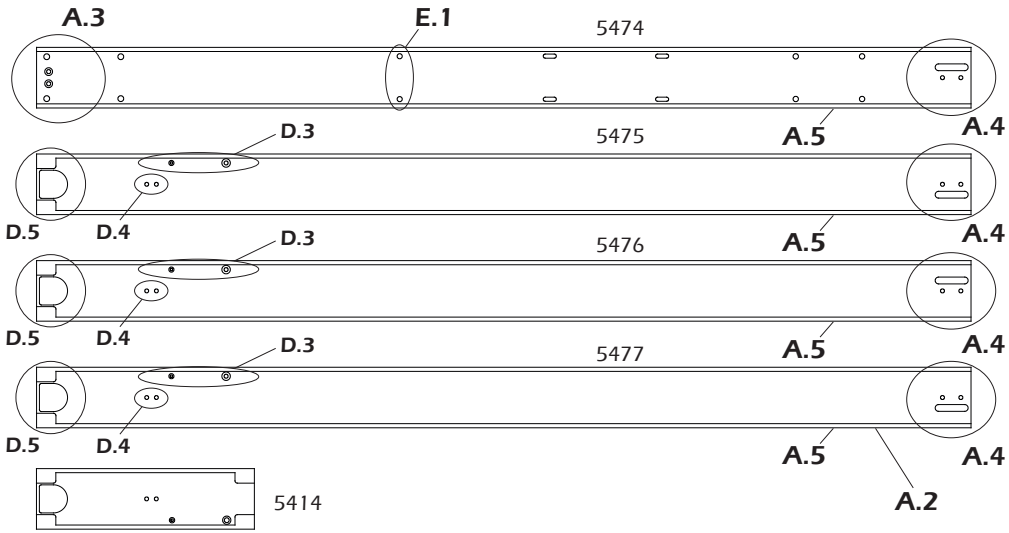


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TL-054

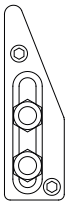


TL-056

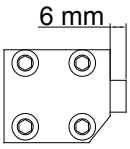


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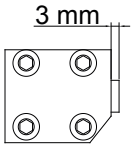
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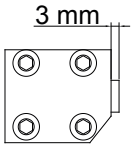
Profile 5472 (TL-054)
Profile 5476 (TL-056)

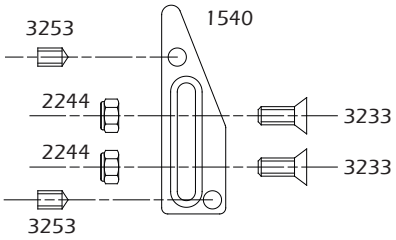


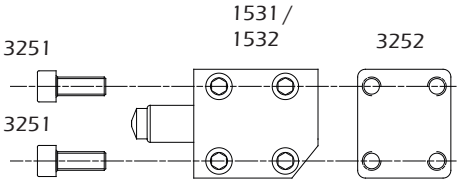
Profile 5471 (TL-054)
Profile 5475 (TL-056)



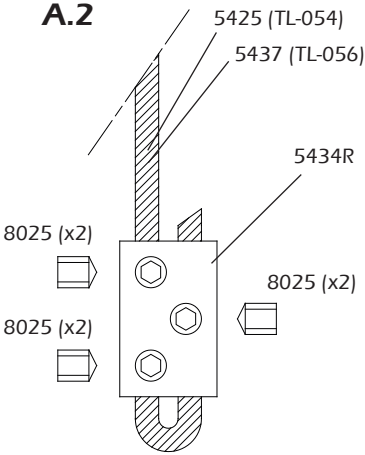
Profile 5470 (TL-054)
Profile 5474 (TL-056)



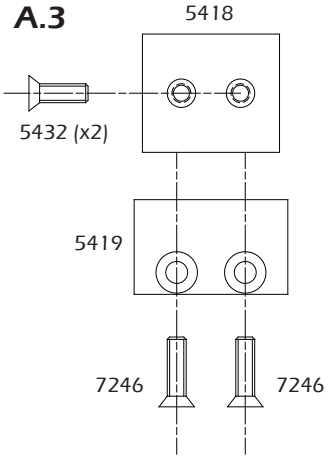




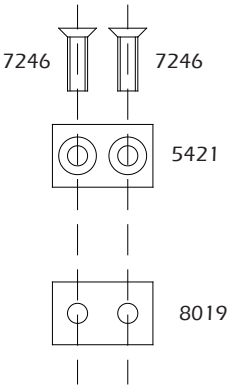
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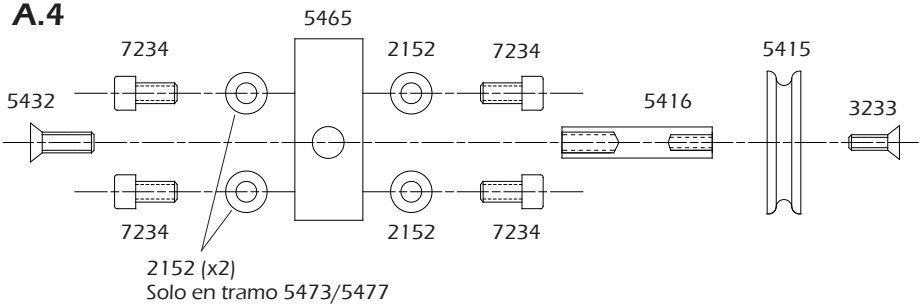
A.3



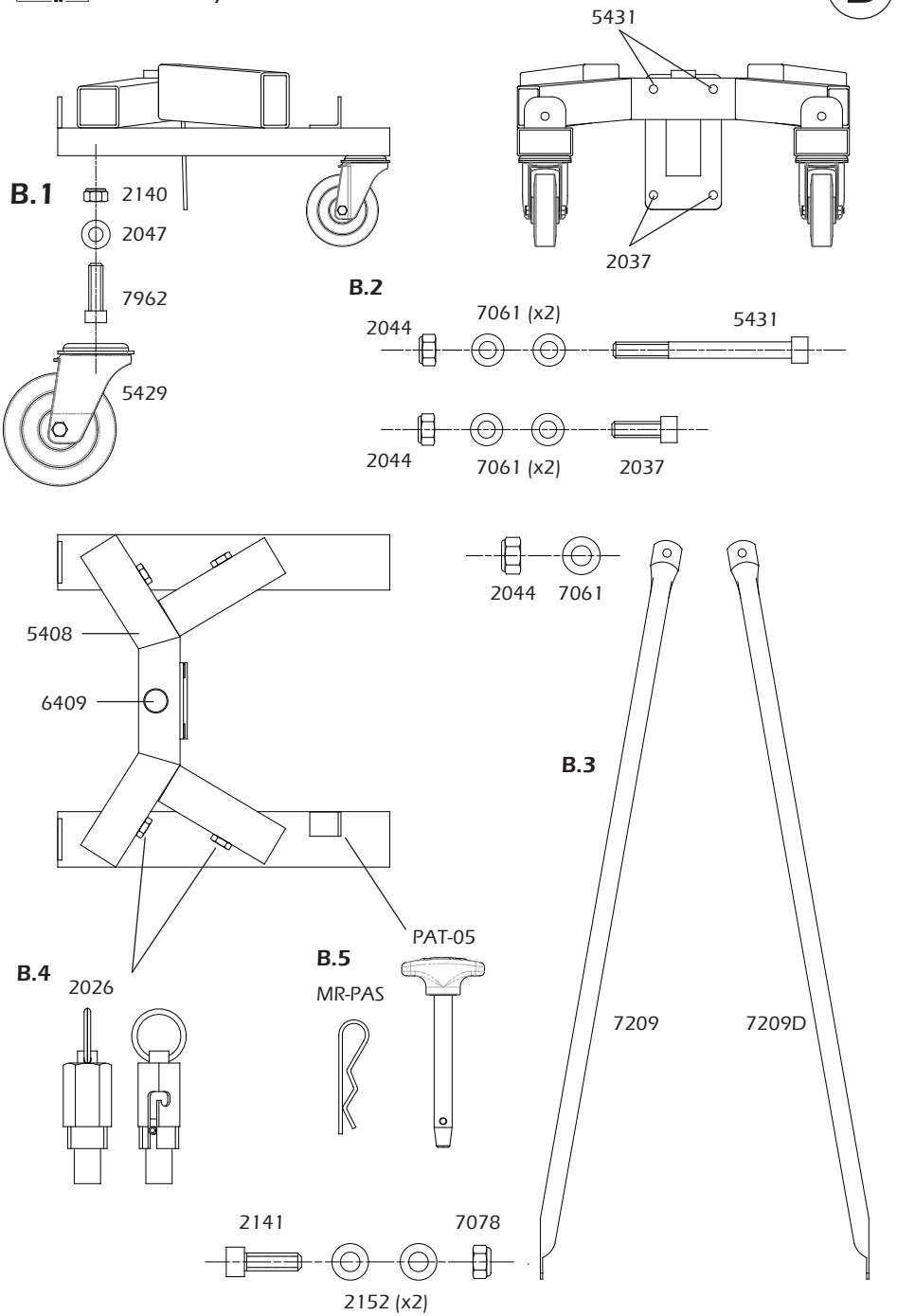
A.5



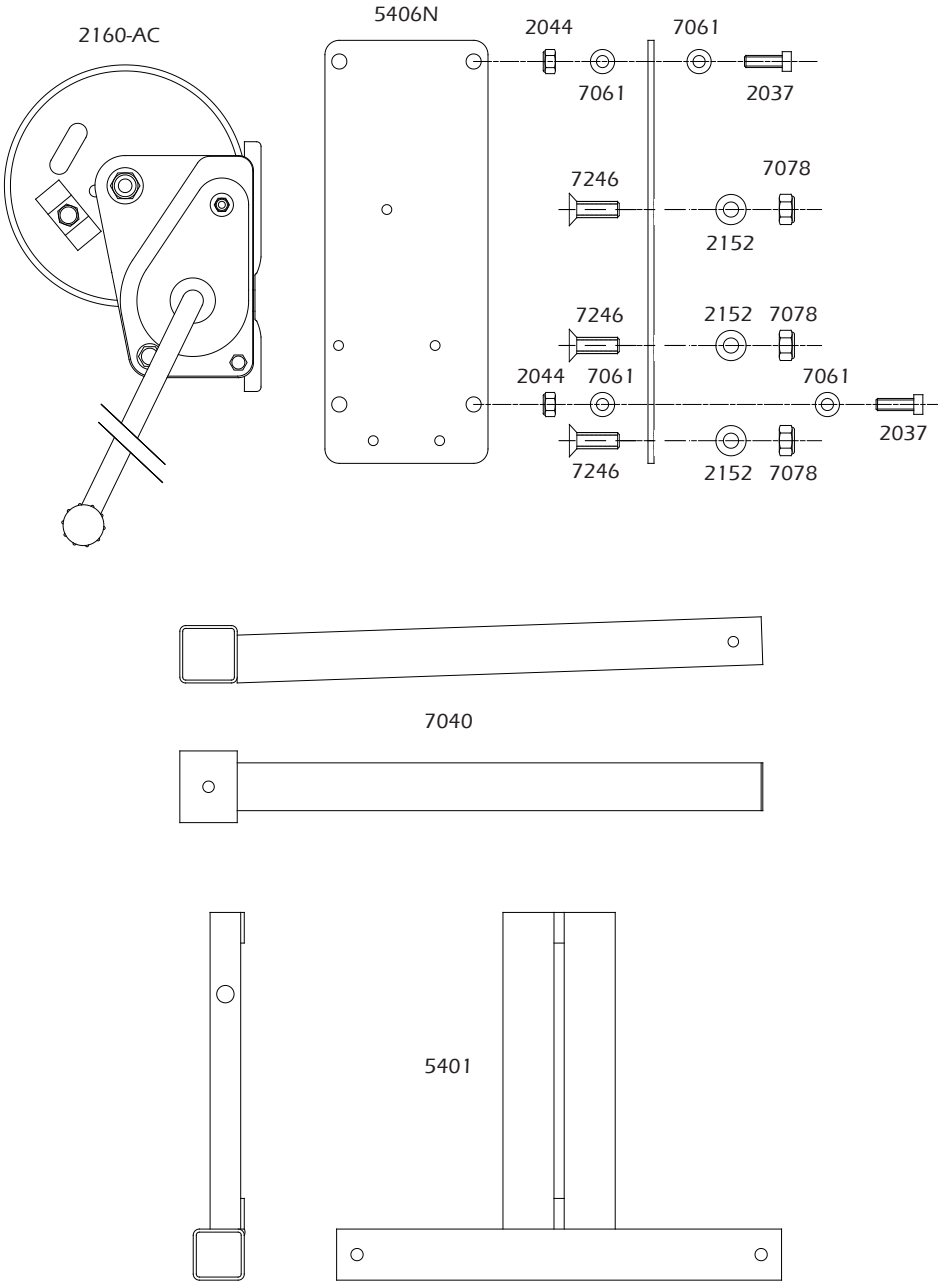
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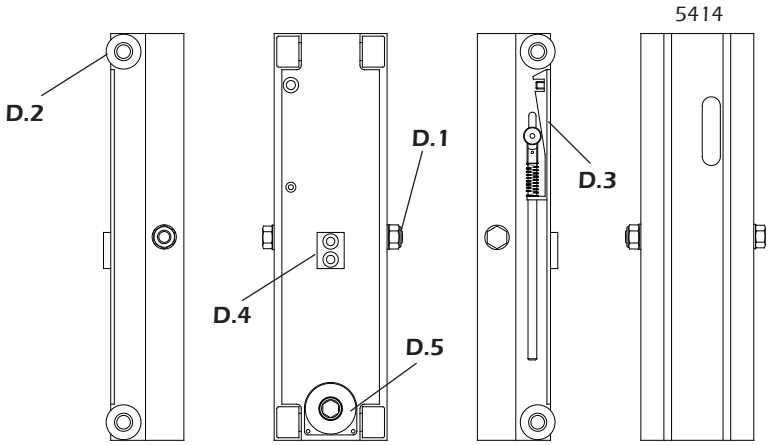
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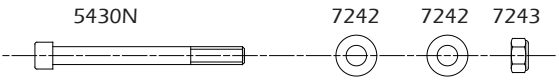
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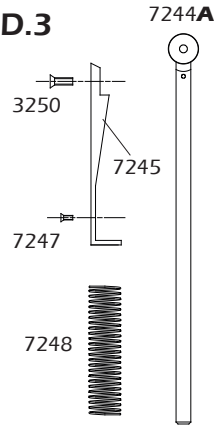
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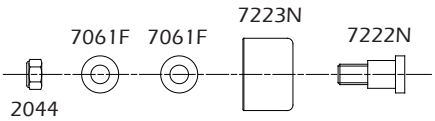
D.1



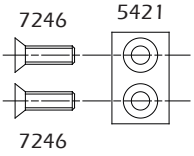
D.3



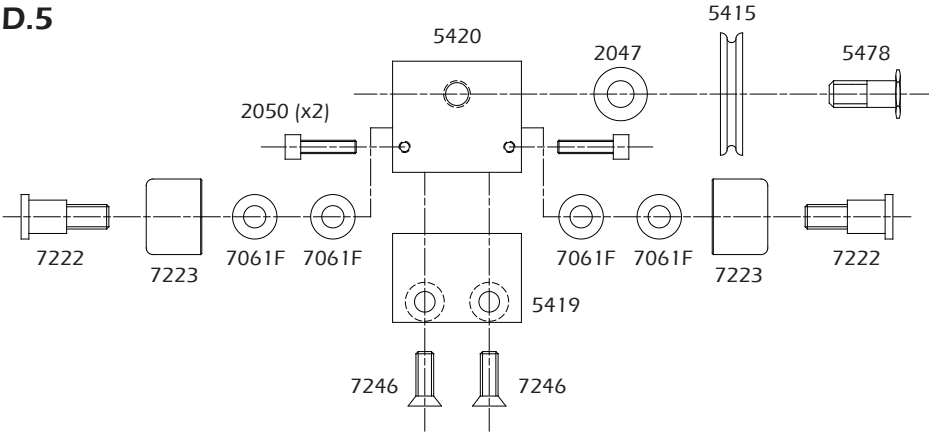
D.2



D.4

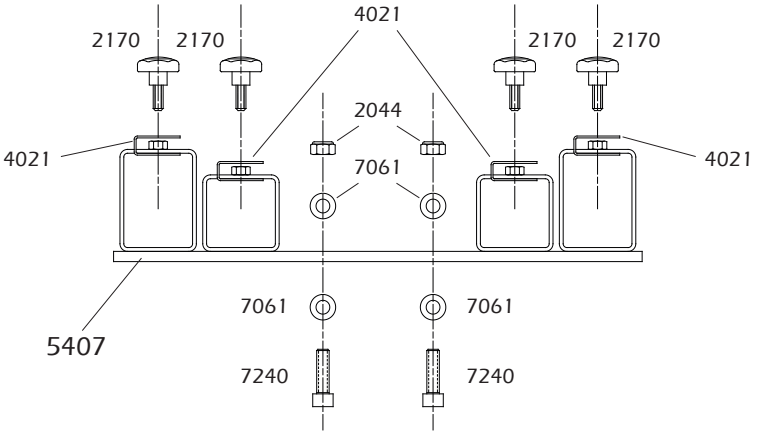


D.5

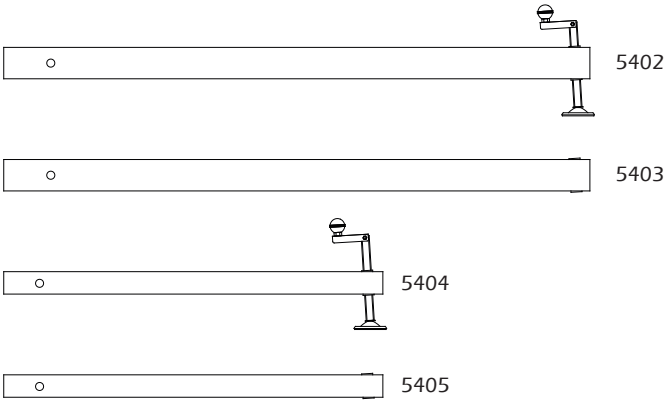


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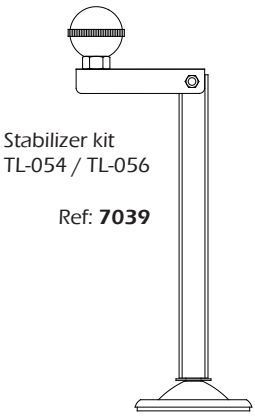
E.1

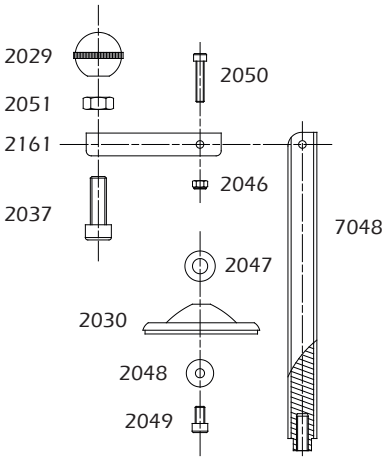


E.2



E.3





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SPARE PARTS LIST / LISTA DE REPUESTOS
TL-054 / TL-056

Code	Description GB / USA	Descripción ES
1531 (B)	SRS Unit Profile 3 (B black)	Pieza Retentor tramo 3 (B Negro)
1532 (B)	SRS Unit Profile 1 & 2 (B black)	Pieza Retentor tramo 1 y 2 (B Negro)
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
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
2160-AC	900kg Winch (Short crank)	Cabrestante 900kg (Short crank)
2161	Steel hand crank	Manivela estabilizador patas
2170	Screw knob	Pomo con rosca
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
4021 (B)	Tightening knob protector (B Black)	Protector apriete pomos (B Negro)
5401 (B)	Fork support (B Black)	Soporte brazos de carga (B Negro)
5402 (B)	Complete long leg (B Black)	Pata larga completa (B Negro)
5403 (B)	Long leg profile (50x70x1308mm) (B Black)	Perfil pata larga (50x70x1308mm) (B Negro)
5404 (B)	Complete short leg (B Black)	Pata corta completa (B Negro)

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Code	Description GB / USA	Descripción ES
5405 (B)	Short leg profile (50x50x846mm) (B Black)	Perfil pata corta (50x50x846mm) (B Negro)
5406N (B)	Winch fixation plate (B Black)	Placa portacabrestante (B Negro)
5407 (B)	TL-054 / TL-056 Legs support (B Black)	Porta-patas TL-054 / TL-056 (B Negro)
5408 (B)	TL-054 / TL-056 Base (B Black)	Base TL-054 / TL-056 (B Negro)
5414 (B)	Lifting carriage (B black)	Carro elevador (B Negro)
5415	Special pulley Ø55	Polea especial Ø55
5416	Steel axe Ø12x58	Eje de acero Ø12x58
5418	Alluminium stop holding piece	Pieza de aluminio sujeta tope
5419	Alluminium stop piece	Tope de aluminio
5420	Alluminium stop holding piece	Pieza de aluminio sujeta tope
5421	Alluminium stop piece	Tope de aluminio
5425	Steel cable Ø5mm x 14.2m	Cable de acero Ø5mm x 14.2m
5429	Wheel Ø100	Rueda Ø100
5430N	M14x150 Allen screw	Tornillo allen M14x150
5431	M10x90 Allen screw	Tornillo Allen M10x90
5432	M8x20 Conic screw	Tornillo cabeza cónica M8x20
5434R	Cable grip (6 screws)	Pieza fijación cable (6 Tornillos)
5437	Steel cable Ø5 mm x 16.7m	Cable de acero Ø5 mm x 16.7m
5465	Alluminium M12 axel support	Pieza de aluminio soporte eje M12
5470 (B)	Base profile 1 (B Black) TL-054 (1648mm)	Tramo 1 Base (B Negro) TL-054 (1648mm)
5471 (B)	Profile 2 (B Black) TL-054 (1648mm)	Tramo 2 (B Negro) TL-054 (1648mm)
5472 (B)	Profile 3 (B Black) TL-054 (1648mm)	Tramo 3 (B Negro) TL-054 (1648mm)
5473 (B)	Profile 4 (B Black) TL-054 (1648mm)	Tramo 4 (B Negro) TL-054 (1648mm)
5474 (B)	Base profile 1 (B Black) TL-056 (1930mm)	Tramo 1 Base (B Negro) TL-056 (1930mm)
5475 (B)	Profile 2 (B Black) TL-056 (1930mm)	Tramo 2 (B Negro) TL-056 (1930mm)
5476 (B)	Profile 3 (B Black) TL-056 (1930mm)	Tramo 3 (B Negro) TL-056 (1930mm)
5477 (B)	Profile 4 (B Black) TL-056 (1930mm)	Tramo 4 (B Negro) TL-056 (1930mm)
5478	Special thin head screw M12x30	Tornillo especial cabeza fina M12x30
6409	Spirit level Ø30mm	Nivel de burbuja Ø30mm
7039	Complete stabilizer	Estabilizador completo
7040 (B)	Short load support fork (B Black) (54.5cm)	Brazo de carga corto (B Negro) (54.5cm)
7048	M18 Threaded bolt	Perno roscado M18

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Code	Description GB / USA	Descripción ES
7061	M10 Washer	Arandela M10
7061F	M10 Thin washer for adjustments	Arandela fina de ajuste M10
7078	M8 Auto-block nut	Tuerca autoblocante M8
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 nylon roller	Tornillo especial para rodillo de nylon
7223N	Nylon roller	Rodillo nylon
7234	M8x16 Screw	Tornillo M8x16
7240	M10x35 Allen screw	Tornillo allen M10x35
7242	M14 Washer	Arandela M14
7243	M14 Auto-block nut	Tuerca autoblocante M14
7244**A**	Inertial Brake lock rod (Ø21mm disk)	Varilla freno de inercia (disco Ø21mm)
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
7962	M12x40 Allen screw	Tornillo allen M12x40
8019	Alluminium screwed piece for stop piece	Pieza fijación tope de aluminio
8025	M8x10 Headless allen bolt	Tornillo allen sin cabeza M8x10
MR-PAS	'R' Clip	Clip de seguridad 'R'
PAT-05	Magnetic steel pin Ø10x84.5mm	Pasador acero imantado Ø10 x 84.5mm

REMEMBER 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-054
Fabrikator:	Prolifts S. L. Pol. Ind. Picassent Calle 7 E-46220 Picassent VALENZIA
Technical specifications:	charge maximum: 220 kg tare: 87 kg minimum high: 1,70 m maximum high: 5,45 m Surface base : 2 x 2m
Foundation :	BGV C1, BGG 912
Test result:	The accomplishment of the towerlift complies the safty-related receivables of the BGV-C1.
Clue: deliver.	At each towerlift is an EG-declaration of conformity to
	Bevor the towerlift is commissioning at first is an optical control from an assessor after BGG 912 necessary.



Berlin, 05.11.2007

Dipl.-Ing. Konrad Haak

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DEKRA

Test report about an acceptance inspection

Device typ:	Towerlift
Typ:	TL-056
Fabrikator:	Prolifts S. L. Pol. Ind. Picassent Calle 7 E-46220 Picassent VALENZIA
Technical specifications:	charge maximum: 200 kg tare: 94,5 kg minimum high: 1,98 m maximum high: 6,50 m Surface base : 2 x 2m
Foundation :	BGV C1, BGG 912
Test result:	The accomplishment of the towerlift complies the safty-related receivables of the BGV-C1.
Clue: deliver.	At each towerlift is an EG-declaration of conformity to
	Bevor the towerlift is commissioning at first is an optical control from an assessor after BGG 912 necessary.



Berlin, 05.11.2007

Dipl.-Ing. Konrad Haak

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