ES EN DE

CE

DEKRA CERTIFICATION BGV C1



# TE-074

## TORRE ELEVADORA

## TOWERLIFT

## TRAVERSENLIFT

**MANUAL DE INSTRUCCIONES**

**OPERATING INSTRUCTIONS USER MANUAL**

**BEDIENUNGSANLEITUNG**

PROLIFTS S.L.

*V.09.19*

# LIFTING TOWER TE-074
# TORRE ELEVADORA TE-074

CE

## CERTIFICATIONS / CERTIFICACIONES

**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

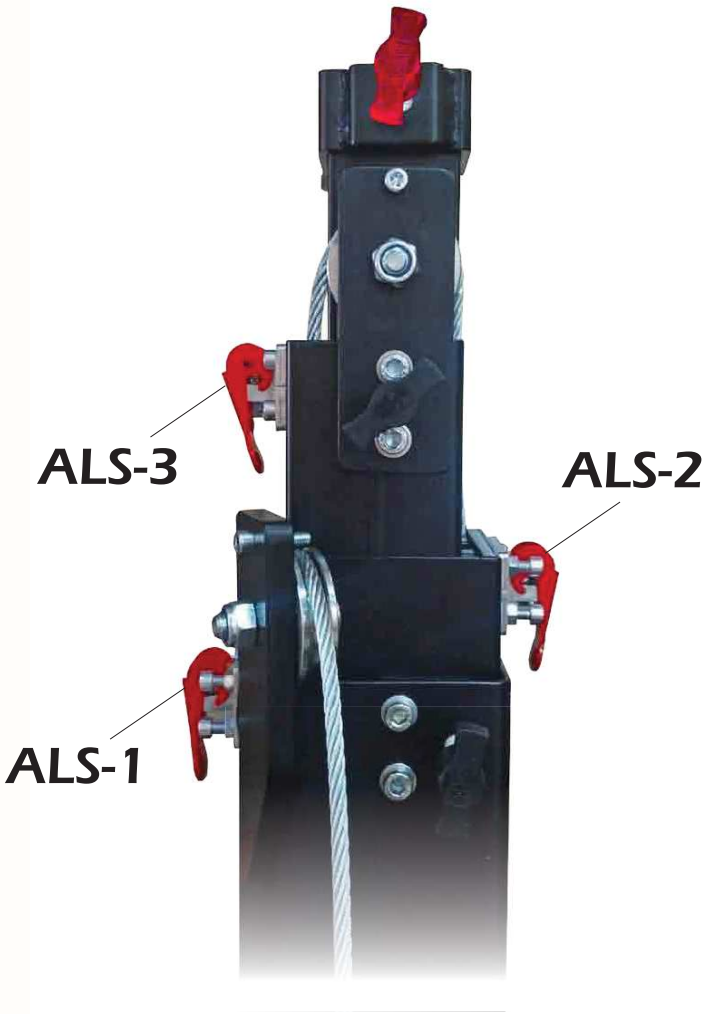
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RECYCLABLE

# TE-074



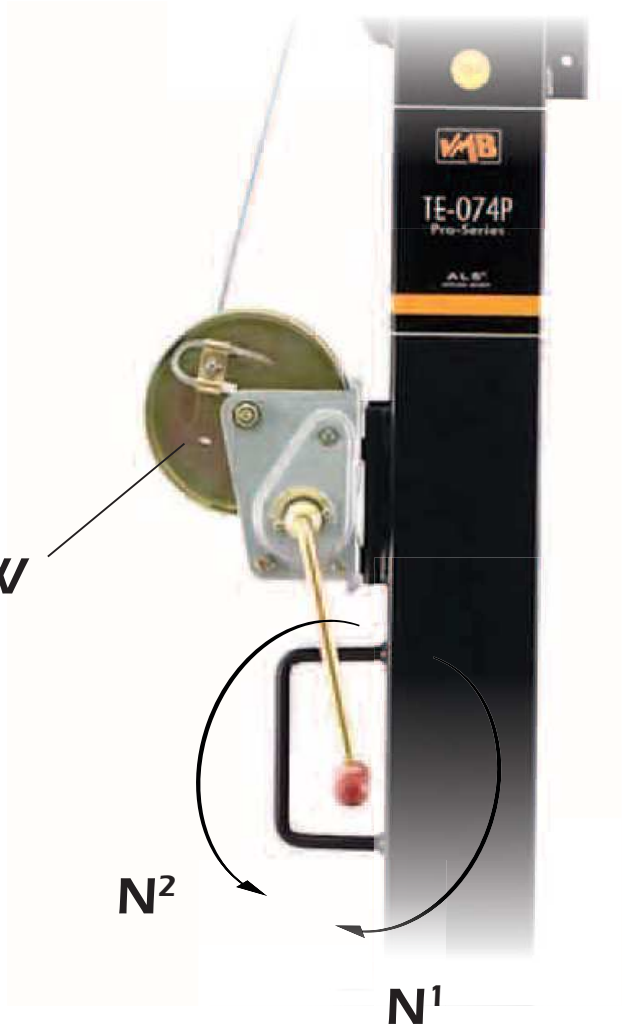



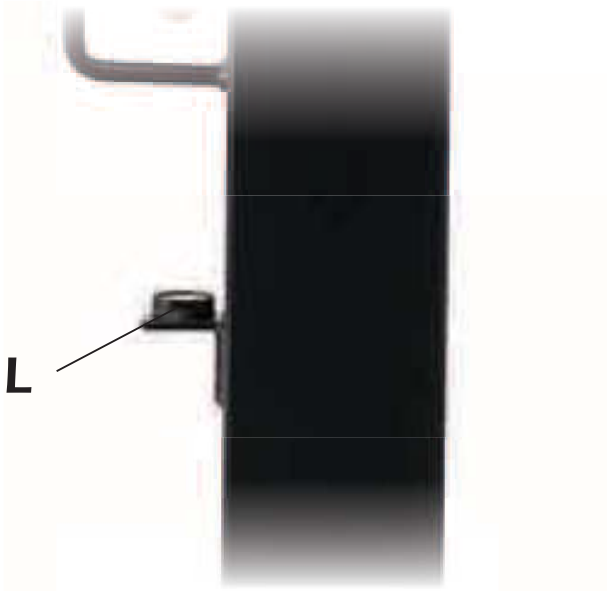

**ALS**.....Automatic security lock / Gatillo automático seguridad
**B**..... Red VMB knob / Palomilla presión roja VMB
**S**.....Transport compartment / Alojamiento de transporte
**T**.....Transport wheels / Ruedas de transporte
**V**.....Working compartment / Alojamiento de trabajo

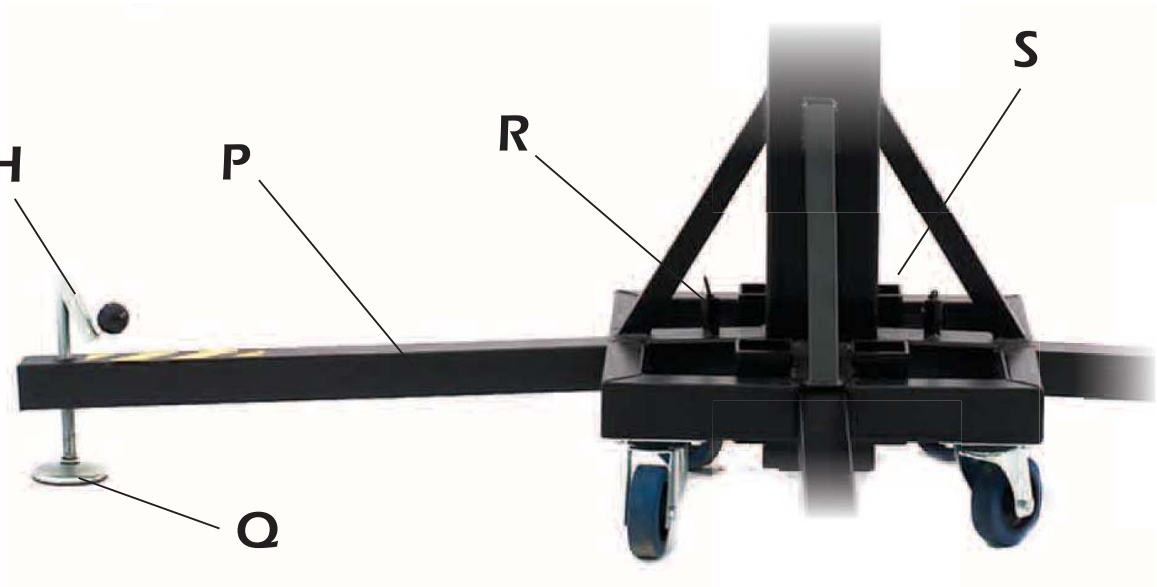

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# TE-074

**H**..... Handle / Manivela
**L**.....Spirit level / Nivel de burbuja
**N**..... Force on hand crank / Fuerza sobre manivela
**P**.....Leg / Pata
**Q**..... Stabilizer / Estabilizador
**R**..... Catch pawl / Gatillo bloqueo patas
**S**.....Transport compartment / Alojamiento de transporte
**W**.....Winch / Cabrestante





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## CONTENTS

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

## 1. INTRODUCTION

Dear customer,
In order to ensure a safe and reliable operation of the TE-074 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 - TE-074** Towerlift.

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

**2.3 -** Maximum load : 250 Kg (551 lb).

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

**2.5 -** Maximum height : 5.35 m (17.5').

**2.6 -** Folded height : 1.74 m (5.7').

**2.7 -** Transport surface: 0.47x0.47x1.74m (1.54'x1.54'x5.7').

**2.8 -** Shipping dimension: 0.49x0.49x1.77m (1.61'x1.61'x.5.81').

**2.9 -** Work surface : 1,53 x 1,53m (5' x 5')

**2.10 -** Unit weight : 91 Kg (200 lb).

**2.11 -** Adaptator: Ø 55 mm (PSU-074/PSA-02).

**2.12 -** Construction material : Steel profiles DIN 2394.

**2.13 -** Four telescopic profile system operated by steel cable and guided by channelled steel pulleys with ball bearings.

**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 : Ø6 mm.

**2.16 -** Exclusive ALS system (Auto-Lock


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Security), pat. pen. 200501056.hed in satin polyester.

**2.17 -** Adjustable stabilizing feet with ruber non-slip supports.

**2.18 -** Safety catches to anchor the legs.

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

**2.20 -** Spirit level to adjust the tower vertically.

**2.21 -** Swivel wheels to transport the lift when folded.

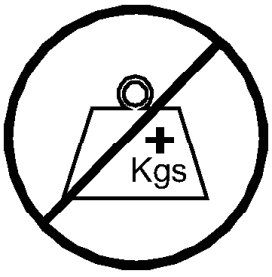
## 3. SAFETY PRECAUTIONS.



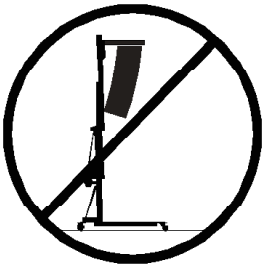
**3.1 -** The TE-074 is a machine designed to elevate loads upwards in a vertical direction, It should NEVER be used as a platform to elevate people.



**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 section. 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.

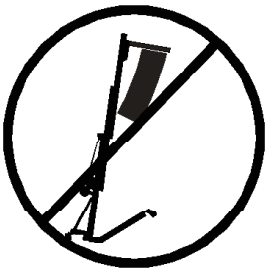



**3.3 -** The maximum load indicated on the characteristics label and the instructions manual should not be exceeded.



**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.

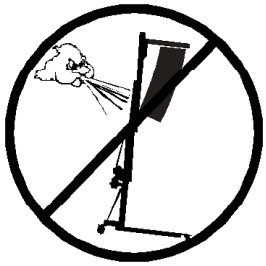

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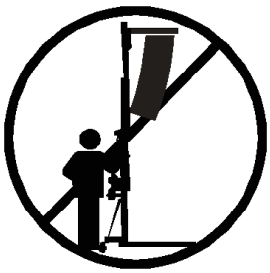
**3.5 -** Check that the legs (**P**) are placed and set-up correctly with their safety pins (**R**) inserted and locked.



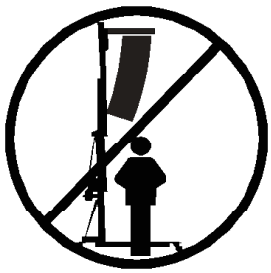
**3.6 -** NEVER use the lift on a vehicle or any other mobile surface.



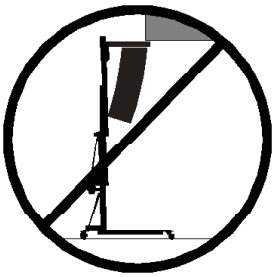
**3.7 -** If there is a possibility of strong winds or gusts, place the lift on the ground firmly and secure it with the use of straps. NEVER attach a strap to a vehicle or any other object that can possibly be moved.



**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.

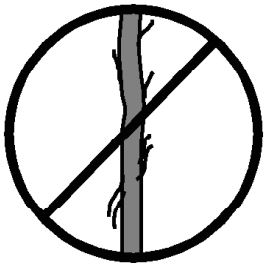


**3.10 -** Take care with all obstacles above the lift and its extension zone such as cornices, balconies, and luminous signboards. It is very important to avoid the presence of all types of cables below the extended lift.


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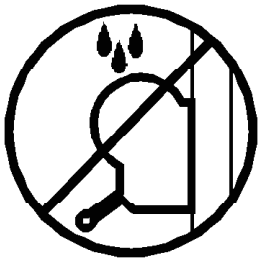
**3.11 -** Do not use stepladders on the lift or use it as a support for them.



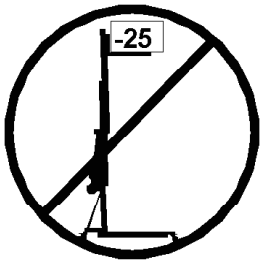
**3.12 -** Before using the lift, check the condition of the cable. The cable should not have broken threads or show any signs of crushed/flattened areas. NEVER use faulty cables, always change them if there is any doubt. Only use VMB steel cables; reference: DIN 3060. Quality: 180KG/mm and torsion resistant.



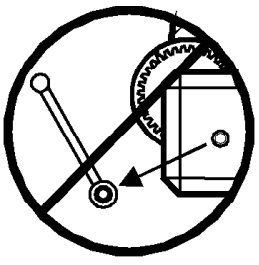
**3.13 -** All sections must be lowered first, and the legs placed in its transport position, before transportation.



**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 its working position, in a firm, flat surface with the help of the swivel wheels (**T**).

**4.2 -** Remove the legs from their transport supports (**S**) and fully insert them into their working positions (**V**) checking that they are fixed by the catches (**R**). Check that the lift is in vertical position using the spirit level (**L**) at the base profile, adjust the stabilizer (**Q**), turning the handle (**H**) if necesary.

**4.3 - THE MAXIMUM LOAD IS 250 Kg (551 lb).** The lift should NEVER be overloaded (over 250 Kg). Safety at work is the most important issue. Untighten the steel bracket (**B**) and place the load onto the lift using an adequate 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.

**4.4 - Elevation:** Turn the winch crank clockwise (**N$^1$**) to lift the tower, the red ALS lock enable the lift to rise and automatically block the profiles whilst rising, ensuring that the load will never fall.

**4.5 - Blocking:** Once the system is elevated to its required height, gently turn the handle in an anti-clockwise (**N$^2$**) direction to introduce the ALS locks in its corresponding hole and block the profiles. The ALS lock will take the pressure of the load and release strain applied on the cable.

**Security system ALS**

The TE-74 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.

**4.6 - 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-1** lock out. This releases the blocking systems. Then turn the handle anti-clockwise (**N$^2$**), whilst maintaining the **ALS-1** lock pulled out until the profile has been completely lowered. All red ALS locks should be pulled out one by one whilst the handle is turned anti-clockwise and the profiles are brought down, one by one.

**CAUTION**

When two towers are used to elevate a bridge, down truss or many towers to elevate a structure of any type, it is almost


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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 a height different to that of the others. **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.

**4.7 - 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 is 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.

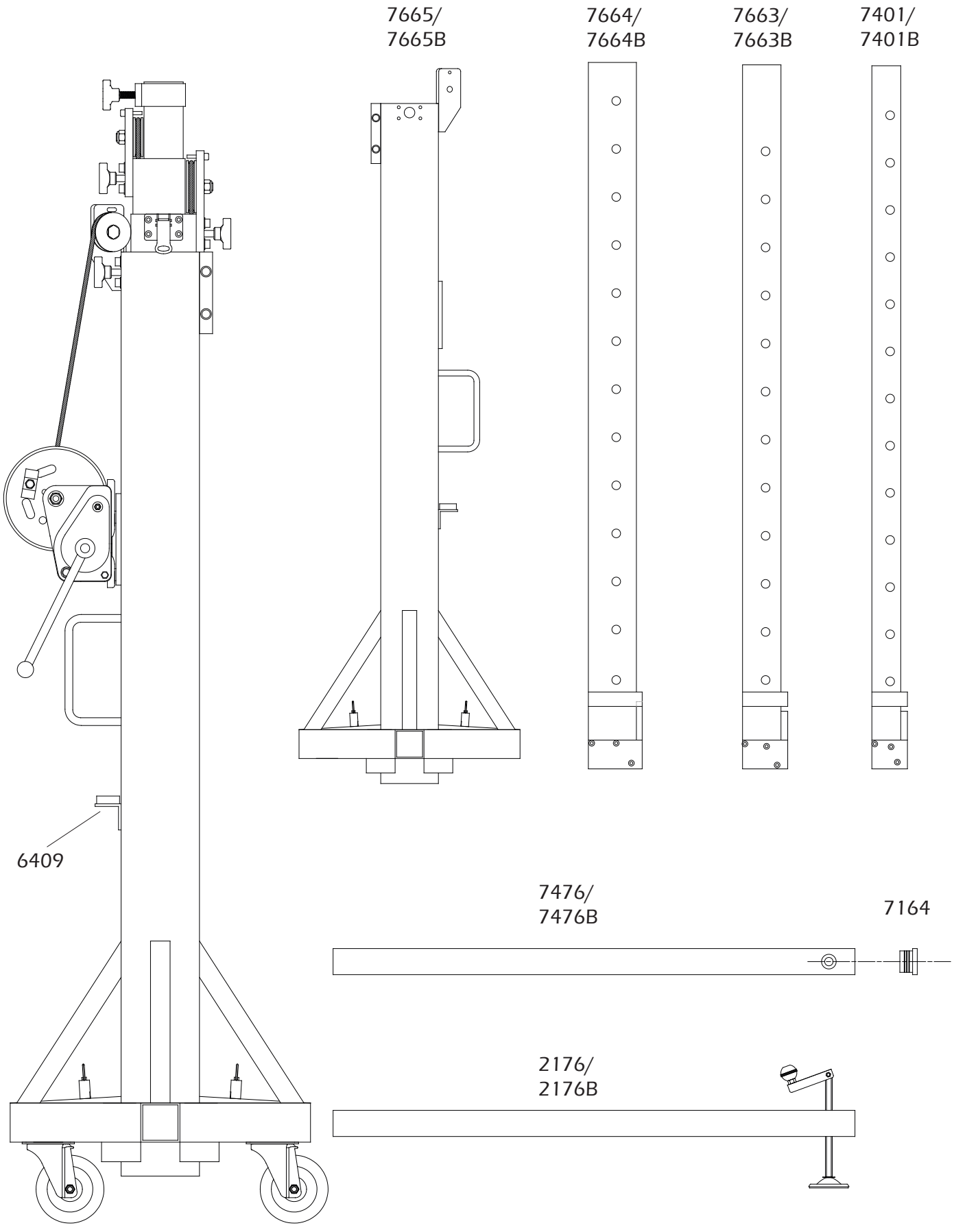
PRO LIFTS S.L. promises, that from the date of purchase and during the warranty period to resolve any faults that may occur, produced through defect material or fabrication. Damage caused by improper use, product modification, third party manipulation or accidental fire are not covered by this warranty.


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# TE-074 SPARE PARTS SKETCHES /

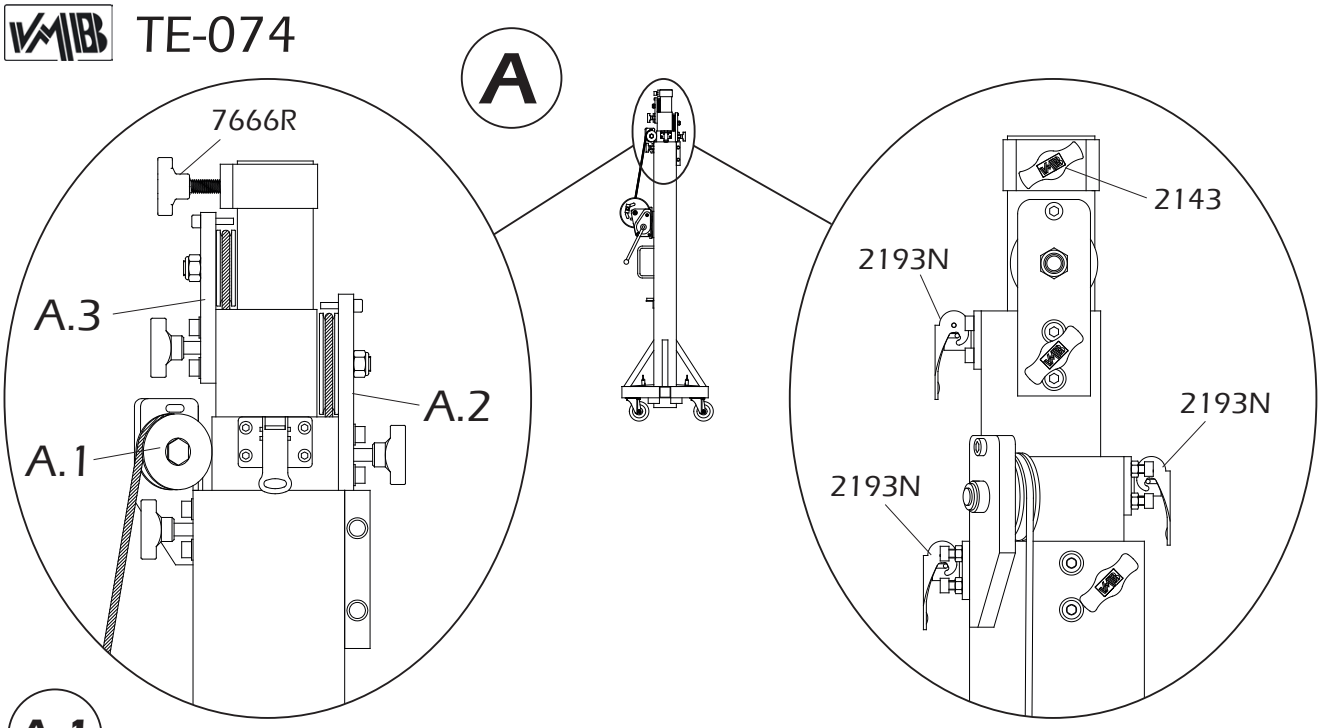
# CROQUIS DE LAS PIEZAS DE REPUESTO DE TE-074

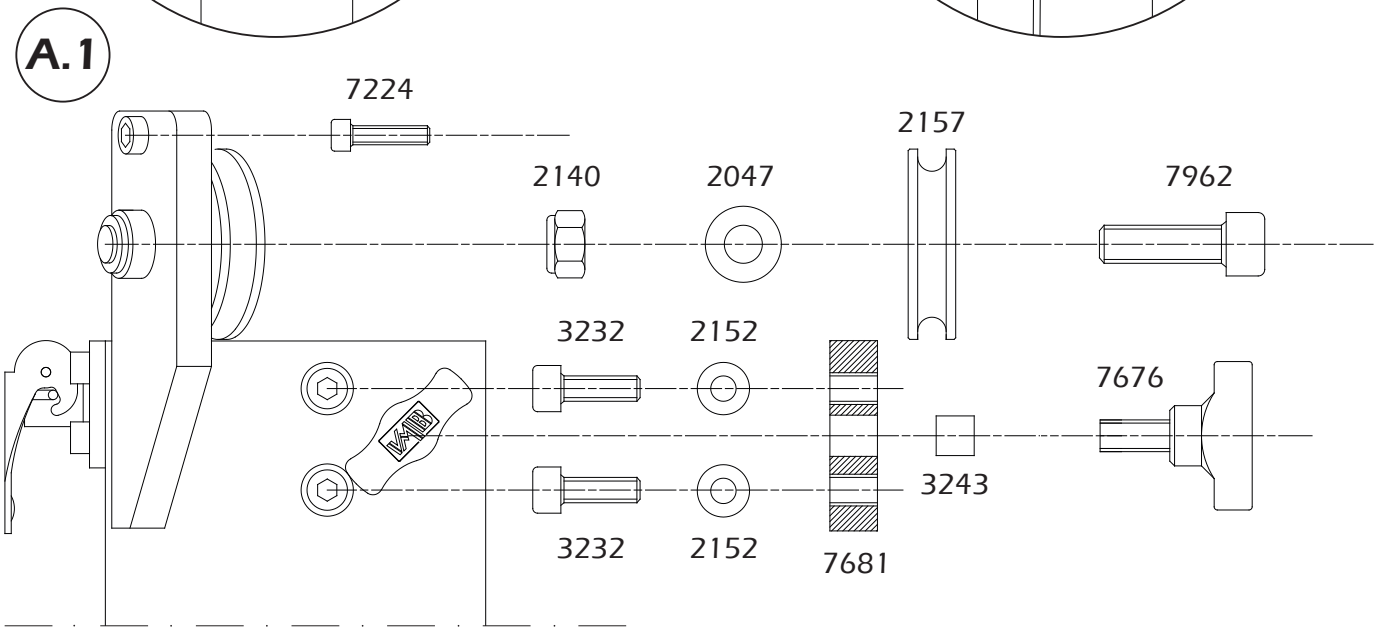

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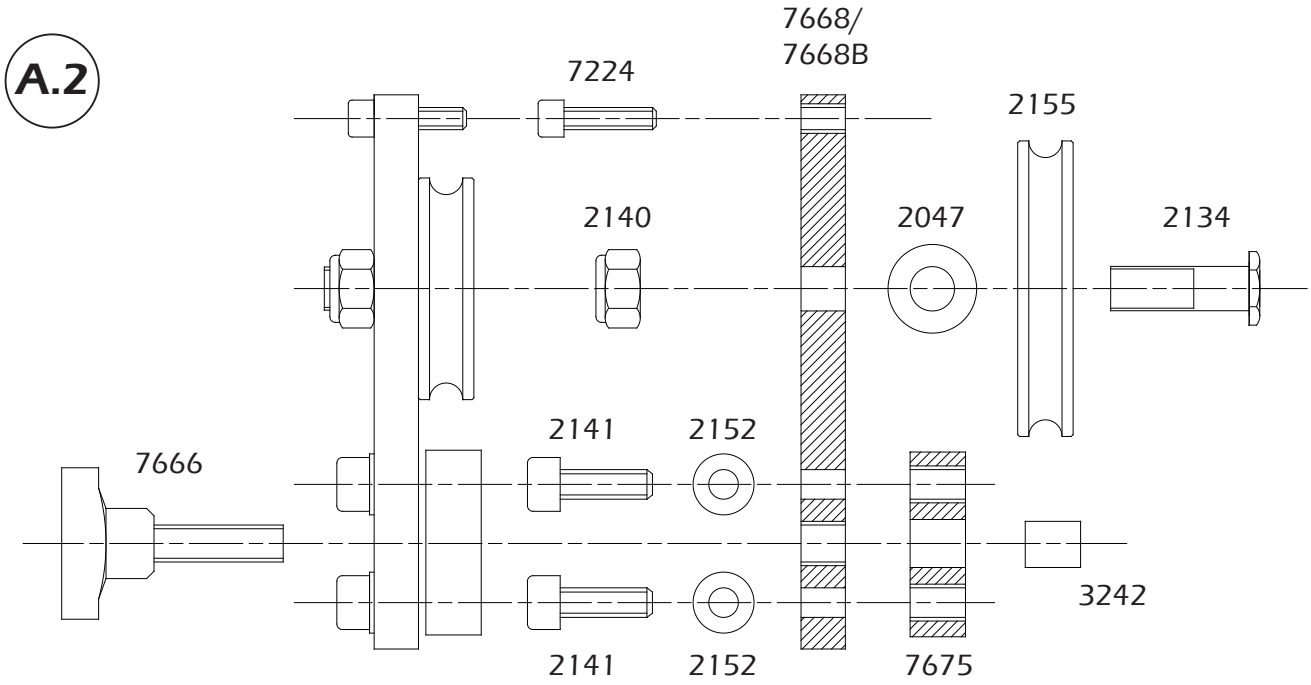




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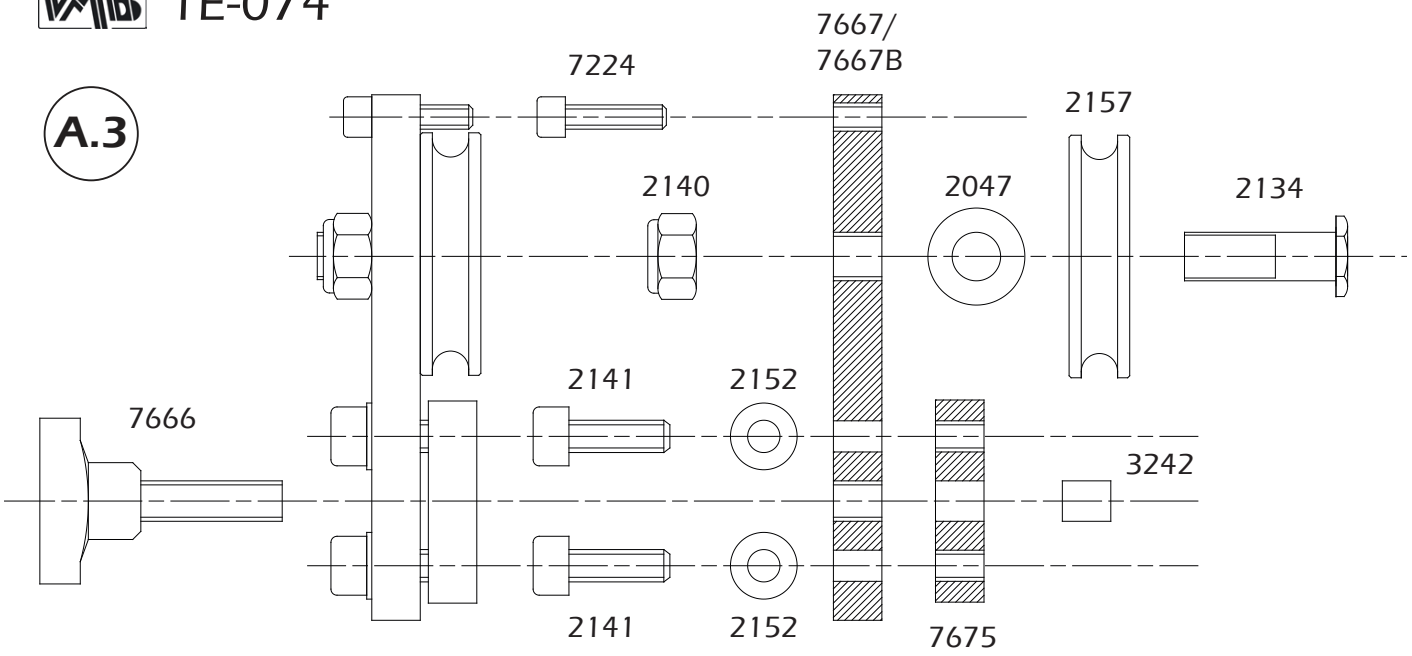



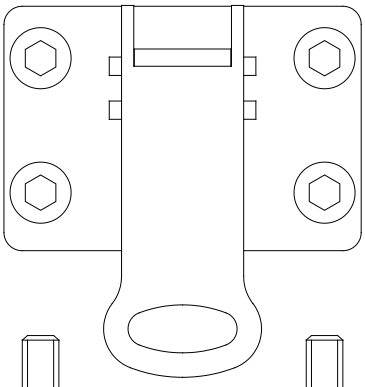





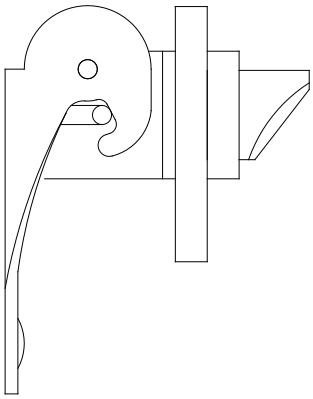
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A.3



2193N



Tramo /
Profile 7665

3241 (x2)
7650 (x2)

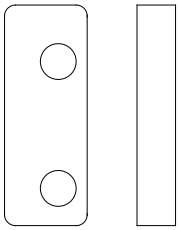
3241 (x2)
7650 (x2)

Tramo /
Profile 7664

3241 (x2)
7650 (x2)

3241 (x2)
7650 (x2)

2197

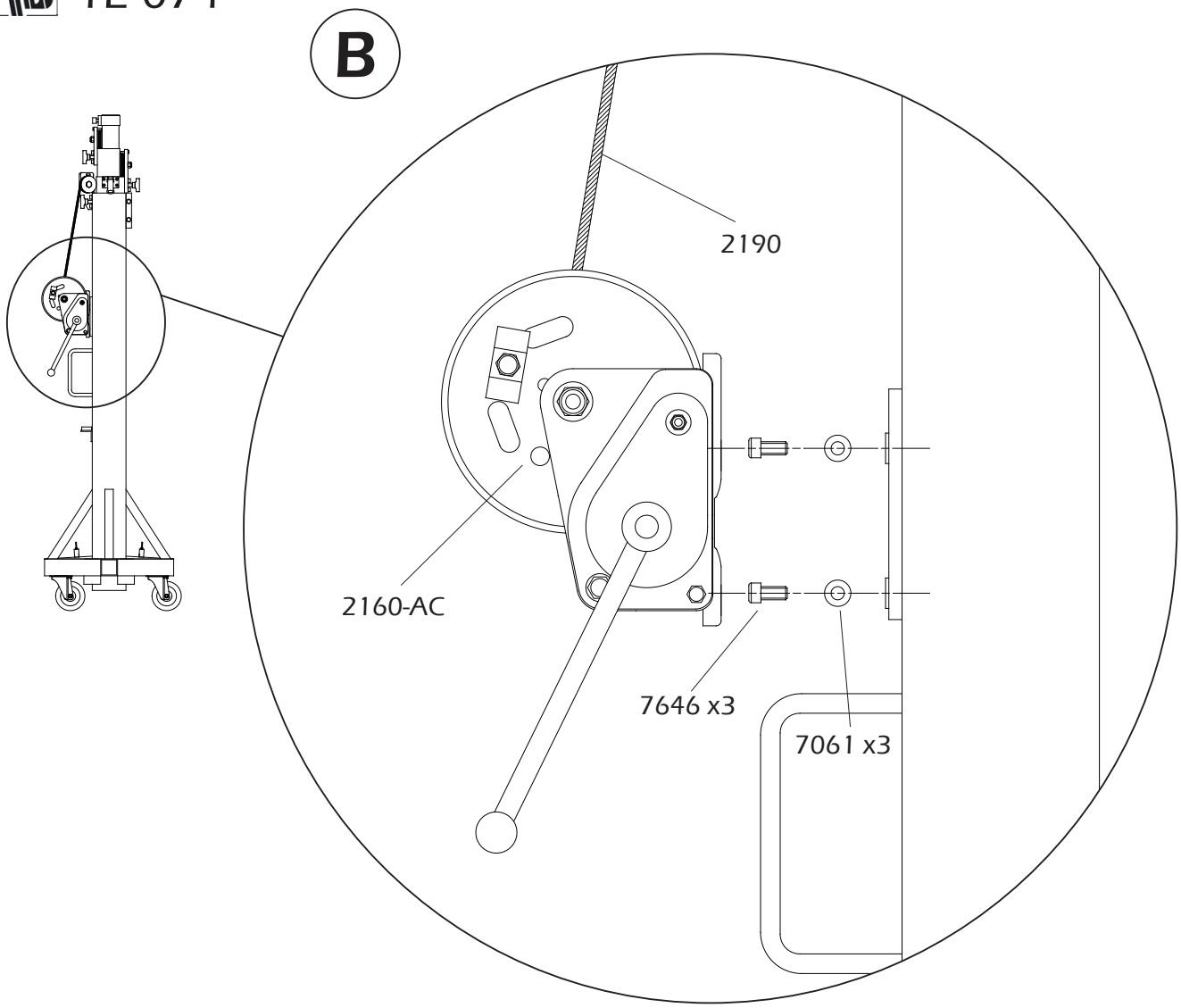


Tramo /
Profile 7663

2049 (x2)

3241 (x2)
7650 (x2)

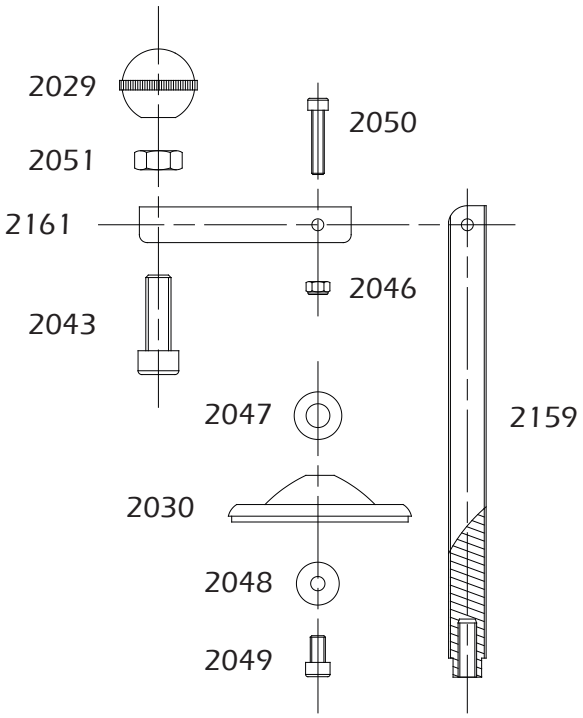

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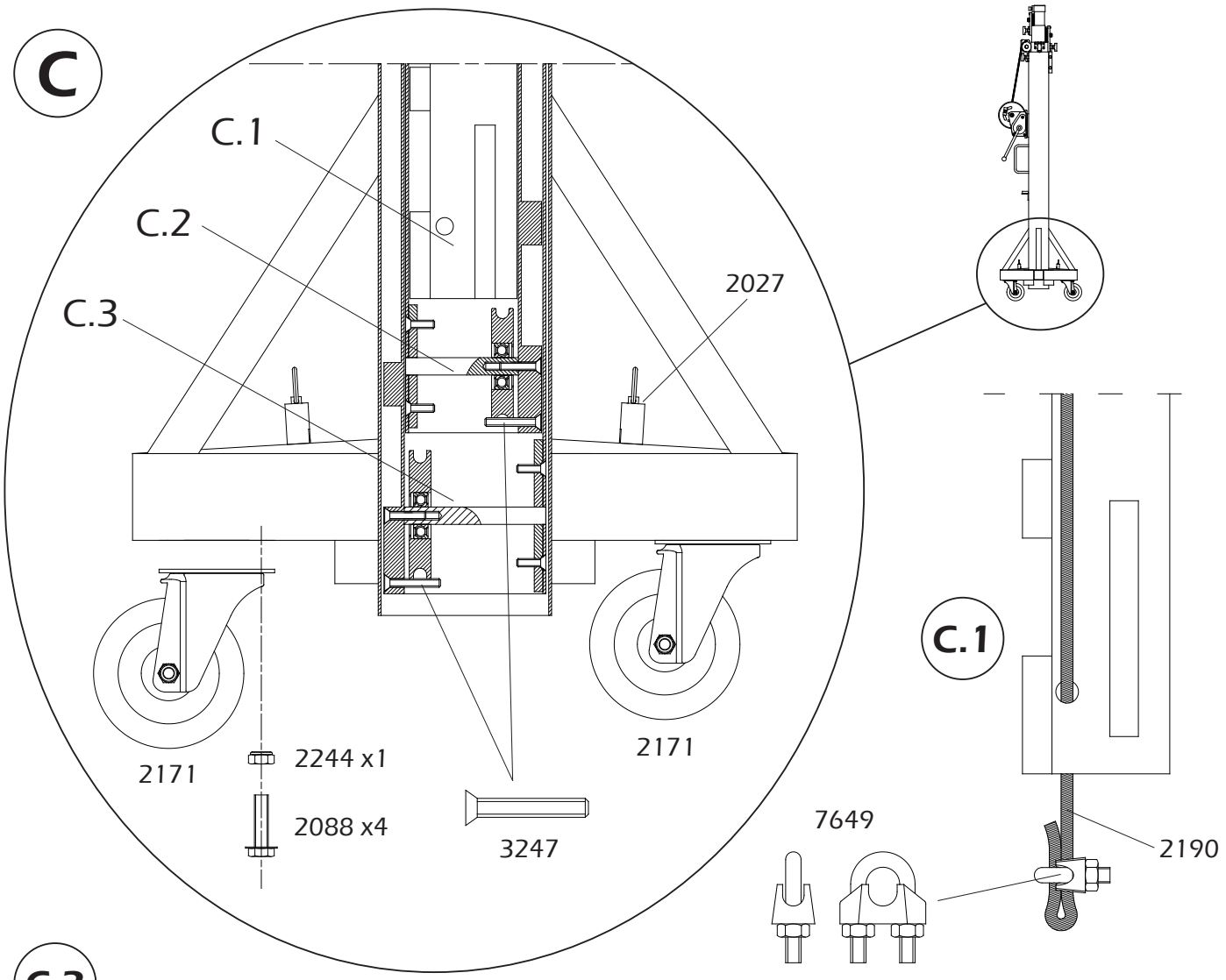

Estabilizador
completo TE-074

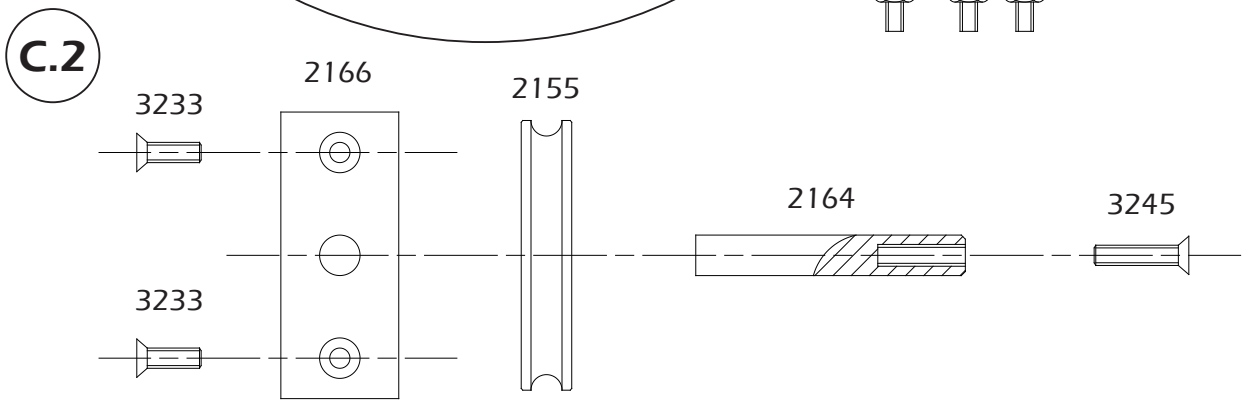
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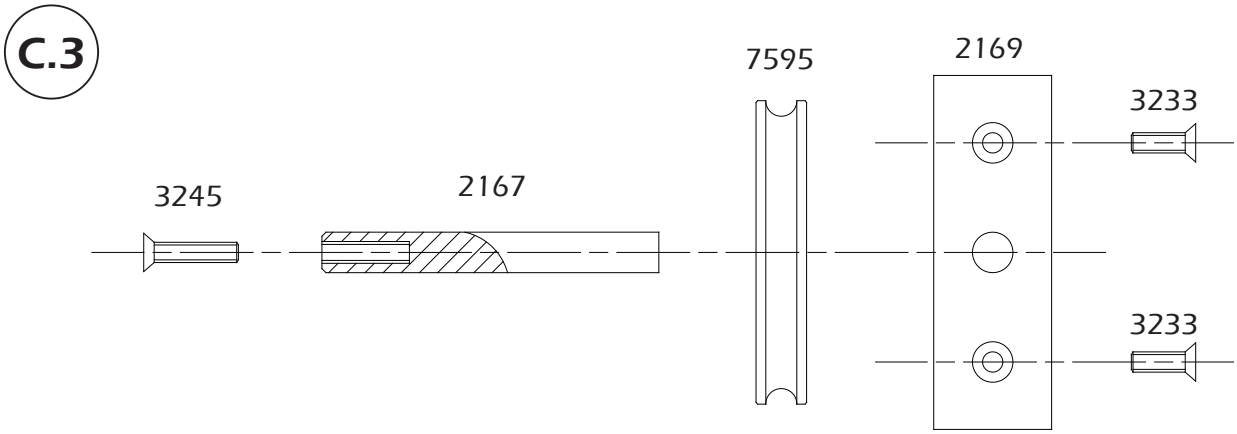




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# SPARE PARTS LIST / LISTA DE REPUESTOS TE-074

| Code | Description GB / USA | Descripción ES |
|---|---|---|
| 2027 | Legs catch | Gatillo redondo patas |
| 2029 | Crank nob Ø 34 | Pomo baquelita patas Ø 34 |
| 2030 | Stabilizer round plate Ø 84 | Platillo de apoyo patas Ø 84 |
| 2043 | M10 Screw | Tornillo M10 |
| 2046 | M5 Auto-block nut | Tuerca autoblocante M5 |
| 2047 | M12 Washer | Arandela M12 |
| 2048 | M6 Washer | Arandela M6 |
| 2049 | Allen screw M6 | Tornillo allen M6 |
| 2050 | M5 Screw | Tornillo M5 |
| 2051 | M10 Nut | Tuerca M10 |
| 2088 | M6 Taptite screw | Tornillo taptite M6 |
| 2134 | M12 Special screw | Tornillo cabeza especial M12 |
| 2140 | Autoblock nut M12 | Tuerca autoblocante M12 |
| 2141 | M8 Screw | Tornillo M8 |
| 2143 | Steel bracket | Contera de acero |
| 2152 | M8 Washer | Arandela M8 |
| 2155 | Steel pulley Ø 80 | Roldana de acero Ø 80 |
| 2157 | Steel pulley Ø 60 | Roldana de acero Ø 60 |
| 2159 | M16 Screw bolt | Perno roscado patas M16 |
| 2160-AC | 900Kg Winch (Short crank) | Cabestrante 900Kg (Manivela corta) |
| 2161 | Steel hand crank | Manivela estabilizador |
| 2164 | Steel axe Ø 12 | Eje de acero Ø 12 |
| 2166 | Steel plate | Pletina de acero |
| 2167 | Steel axe Ø 12 | Eje de acero Ø 12 |
| 2169 | Steel plate | Pletina de acero |
| 2171 | Wheel Ø 100 | Rueda Ø 100 |
| 2176B | Complete leg (B Black) | Pata completa (B Negro) |
| 2190 | TE-074 Ø 6 Steel cable | Cable de acero Ø 6 TE-074 |
| 2193N | ALS Catch | Gatillo sistema ALS |
| 2195 | Complete stabilizer kit | Estabilizador completo |
| 2197 | Sliding nylon piece | Patín deslizante ajuste ALS |
| 2244 | M6 Auto-block nut | Tuerca autoblocante M6 |
| 3232 | M8x16 screw | Tornillo allen M8x16 |


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| Code | Description GB / USA | Descripción ES |
|---|---|---|
| 3233 | M6 Conic screw | Tornillo cónico M6 |
| 3241 | M6 Nut | Tuerca M6 |
| 3242 | Scratch preventing nylon piece 12 mm | Taco nylon 12 mm |
| 3243 | Scratch preventing nylon piece 9 mm | Taco nylon 9 mm |
| 3245 | M6 Conic screw | Tornillo cónico M6 |
| 3247 | M6 Conic screw | Tornillo cónico M6 |
| 6409 | Spirit level | Nivel de burbuja |
| 7061 | M10 Washer | Arandela M10 |
| 7164 | Plastic end cap | Tapón de plástico patas |
| 7224 | M6 Allen screw | Tornillo allen M6 |
| 7401B | TE-074 Profile 4 (B Black) | Tramo 4 TE-074 (B Negro) |
| 7476B | Leg profile (B Black) | Perfil pata (B Negro) |
| 7595 | Steel pulley Ø 90 | Roldana de acero Ø 90 |
| 7646 | M10 Screw | Tornillo M10 |
| 7649 | 6 mm Cable end lock | Prisionero para cable 6 mm |
| 7650 | M6 Screw | Tornillo M6 |
| 7663B | TE-074 Profile 3 (B Black) | Tramo 3 TE-074 (B Negro) |
| 7664B | TE-074 Profile 2 (B Black) | Tramo 2 TE-074 (B Negro) |
| 7665B | TE-074 Profile 1 (B Black) | Tramo 1 Base TE-074 (B Negro) |
| 7666 | M10x35 VMB black knob | Pomo negro VMB M10x35 |
| 7666R | M10x35 VMB red knob | Pomo rojo VMB M10x35 |
| 7667B | Steel plate (B Black) | Pletina de acero (B Negro) |
| 7668B | Steel plate (B Black) | Pletina de acero (B Negro) |
| 7675 | Inner steel plate | Pletina de acero interior |
| 7676 | Short PR screw | Palomilla retención corta |
| 7681 | Steel plate | Pletina de acero |
| 7962 | M12 Allen screw | Tornillo allen M12 |


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DEKRA

## Test report about an acceptance inspection

| | | |
|---|---|---|
| Device typ: | Towerlift | |
| Typ: | TE-074 | |
| Fabrikator: | Prolifts S. L.<br>Pol. Ind. Picassent<br>Calle 7<br>E-46220 Picassent<br>VALENZIA | |
| Technical specifications: | charge maximum: | 250kg |
| | Charge minimum: | 25 kg |
| | minimum high: | 1,72 m |
| | maximum high: | 5,35 m |
| | Serial Number : | 058972 |
| | Year of manufacture : | 2009 |
| 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, 16.06.2010

Dipl.-Ing. Konrad Haak


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*Para más información consulte con nuestros técnicos en:*

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