ES EN DE

CE

DEKRA CERTIFICATION BGV C1



TP-20

TORRE ELEVADORA

TOWERLIFT

TRAVERSENLIFT

MANUAL DE INSTRUCCIONES

OPERATING INSTRUCTIONS USER MANUAL

BEDIENUNGSANLEITUNG

PROLIFTS S.L.

V.07.19

LIFTING TOWER TP-20
TORRE ELEVADORA TP-20

CE

CERTIFICATIONS / CERTIFICACIONES

BGV-C1

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)

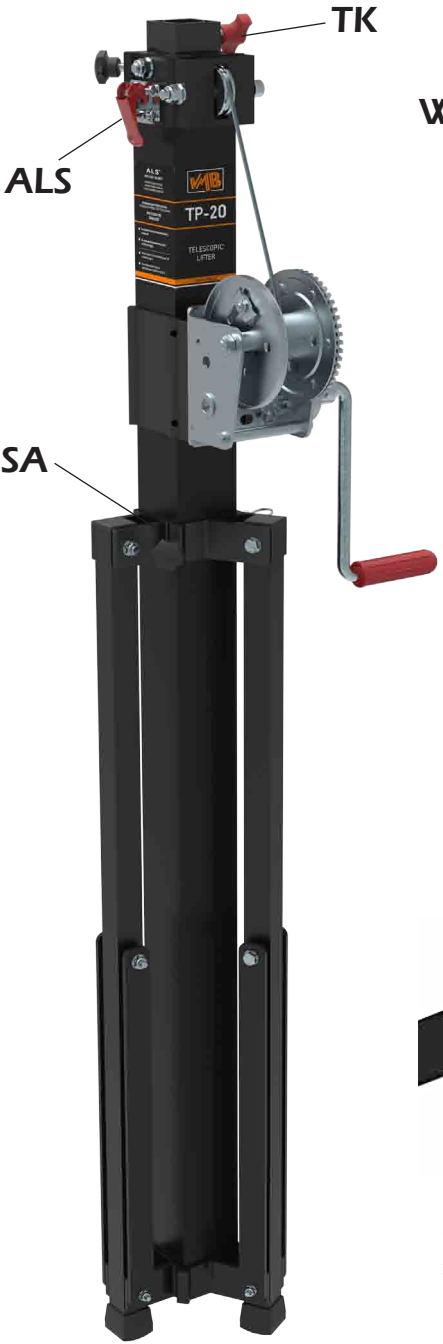
Manufacturer - Fabricante

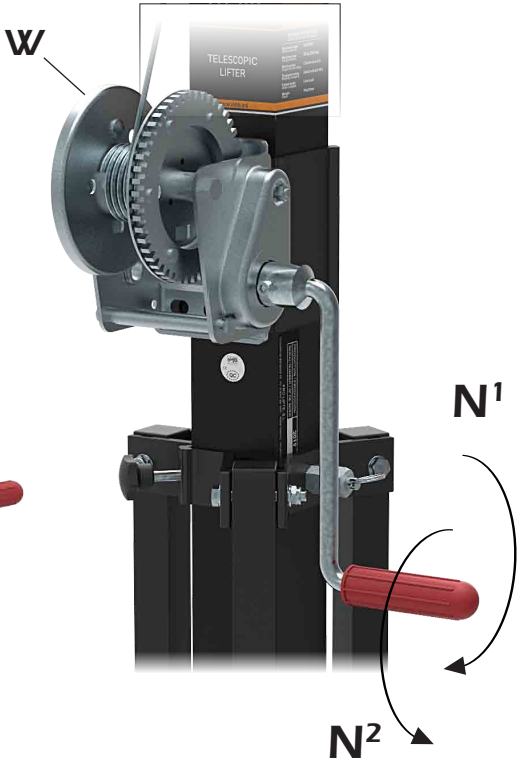
PRO LIFTS S.L.
C/ Ciudad de Barcelona Nº19
Pol.Ind. Fuente del Jarro
46988 Paterna (Valencia)
Tlf Export: +34 96 171 81 86
Tlf Nacional: 96 171 81 83
info@prolifts.es - www.prolifts.es

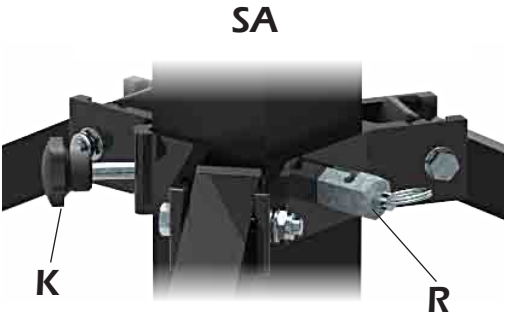
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RECYCLABLE

TP-20







TK.....Red VMB knob / Palomilla presión roja VMB
ALS..... Automatic security lock / Gatillo automático seguridad
W..... Winch / Cabrestante
N..... Force on hand crank / Fuerza sobre manivela
SA..... Leg support system / Soporte apoyo de patas
R..... Position blocking lock / Gatillo bloqueo posición SA
K..... Black knob / Pomo retenedor SA

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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 TP-20 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 - TP-20 Towerlift.

2.2 - Designed to lift loads, such as trussing, lighting, audio boxes, etc. vertically up to different heights.

2.3 - Maximum load : 100 Kg (220.4 lb).

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

2.5 - Maximum height : 3.0 m (9.84').

2.6 - Folded height : 1.42 m (4.66').

2.7 - Transport surface: 0.18x0.3x1.42m (0.59'x0.98'x4.66').

2.8 - Shipping box dimension: 0.32x0.21x1.67m (1.05'x0.69'x5.48'). (Handle removed)

2.9 - Working surface : 1.36 x 1.57 m (4.46' x 5.15').

2.10 - Unit weight : 15 Kg (33.07 lb).

2.11. - Adaptator: Ø35 mm (PSU-034/PSU-06).

2.12 - Construction material: Aluminium profiles, alloy 6082-T6.

2.13 - Two telescopic profiles system operated by steel cable and guided by channelled steel pulleys with ball bearings.

2.14 - Winch: 450 Kg (990 lb). 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 : Ø4 mm.

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2.16 - Exclusive ALS system (Auto-Lock Security), pat. pen. 200501056.hed in satin polyester.

2.17 - Three legs with plastic end caps.

2.18 - Anchor of the support system of the legs via safety catch and knob.

2.19 - Primed paint with cured polyester dust cover. The tower is supplied in black finish.

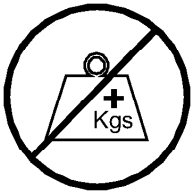
3. SAFETY PRECAUTIONS.



3.1 - The TP-20 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 towerlift on hard and flat surfaces.



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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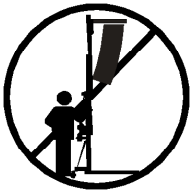
3.5 - Verify that the tower is in a vertical position and check that the support system (**SA**) is fixed by the safety catch pawl (**R**) and the retainer knob (**K**).



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.

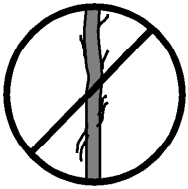


3.10 - Take care with all obstacles above the lift and its extension zone such as cornices, balconies, and luminous signboards. It is very important to avoid the presence of all types of cables below the extended lift.

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



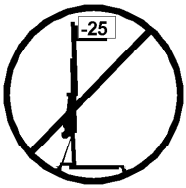
3.12 - Before using the lift, check the condition of the cable. The cable should not have broken threads or show any signs of crushed/flattened areas. NEVER use faulty cables, always change them if there is any doubt. Only use VMB steel cables; reference: DIN 3060. Quality: 180KG/mm and torsion resistant.



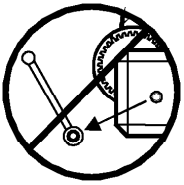
3.13 - All sections must be lowered first, and the support system (**SA**) must be locked with the catch pawl (**R**), before transportation.



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.

4.2 - Firstly, remove the safety catch pawl (**R**) of the support system (**SA**) and untighten the retainer knob (**K**). Lower the support system (**SA**) until you can fix the safety catch pawl (**R**) in the required position, then tighten the knob (**K**).

4.3 - THE MAXIMUM LOAD IS 100 Kg (220.4 lb). The lift should NEVER be overloaded. Safety at work is the most important issue. Untighten the top knob (**TK**) and place the load onto the lift using an adequate accessory according to the need, use so that the weight of the load will only elevate in a vertical direction, once the load is correctly placed, tighten the top knob (**TK**) again.

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 it will never fall.

4.5 - Blocking: Once the system is elevated to its required height gently turn the handle in a 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 TP-20 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 lock 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.

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 impossible that two or more people co-ordinate the winches elevating or lowering

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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 section completely. Once the towerlift is completely folded, unlock the catch pawl (**R**) and untighten the retainer knob (**K**), then rise and close the support system (**SA**) up to its transport position, then fix the safety catch pawl (**R**) and tighten the knob (**K**).

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.

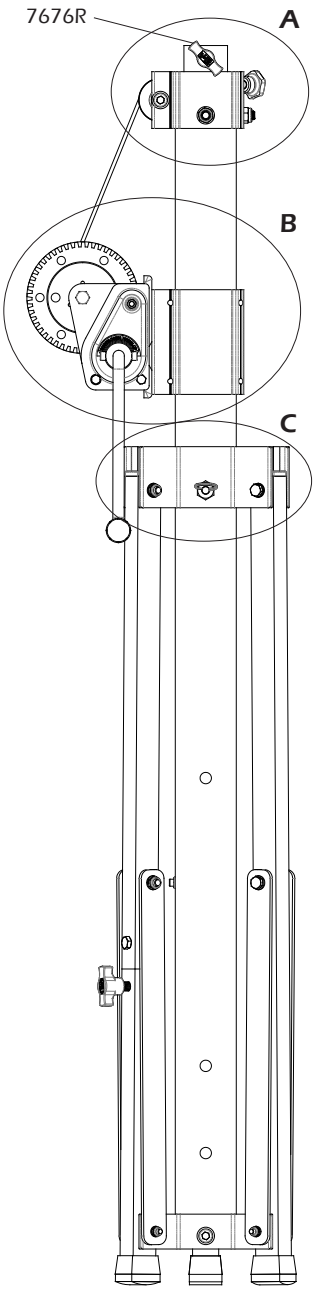
5.5 - To request a spare part please indicate the corresponding code which can be found in this manual together with the lift's serial number and year of manufacture.

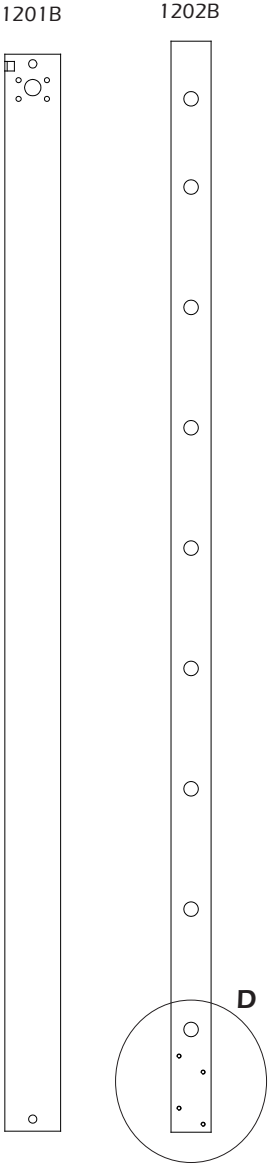
6. GUARANTEE.

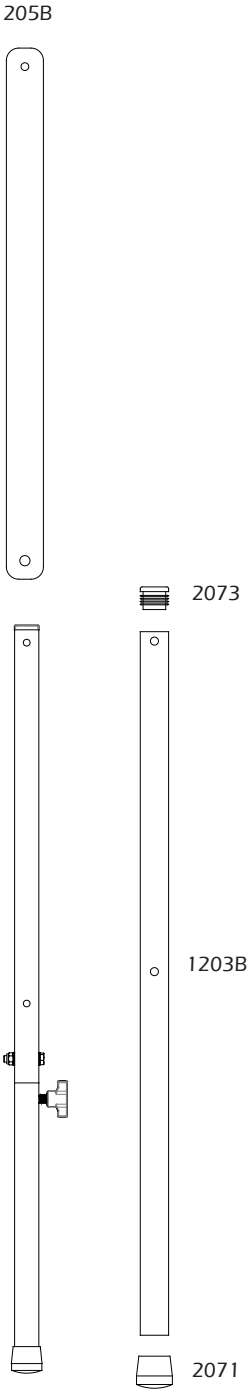
The warranty period for this lift is 2 years from the date of purchase.

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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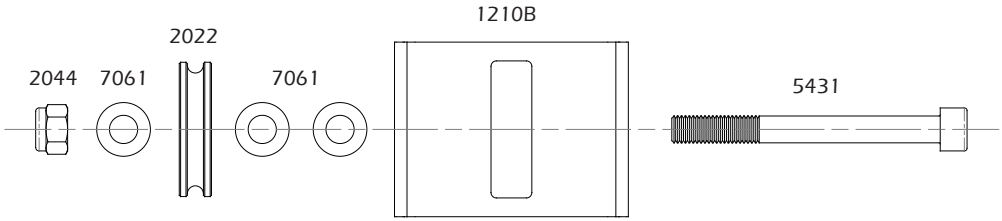


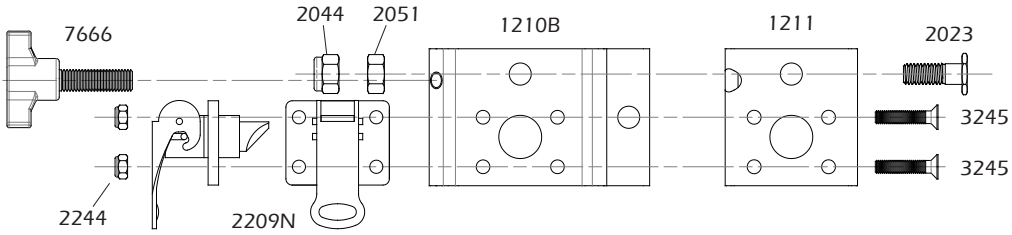




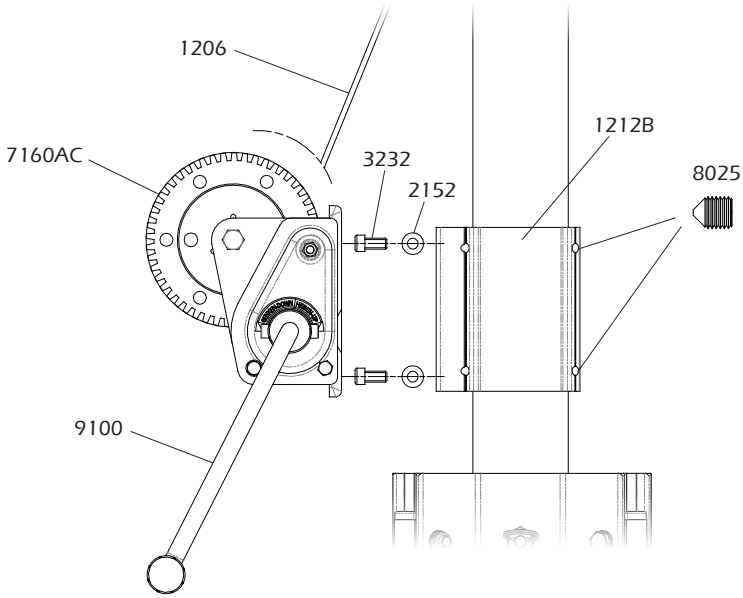
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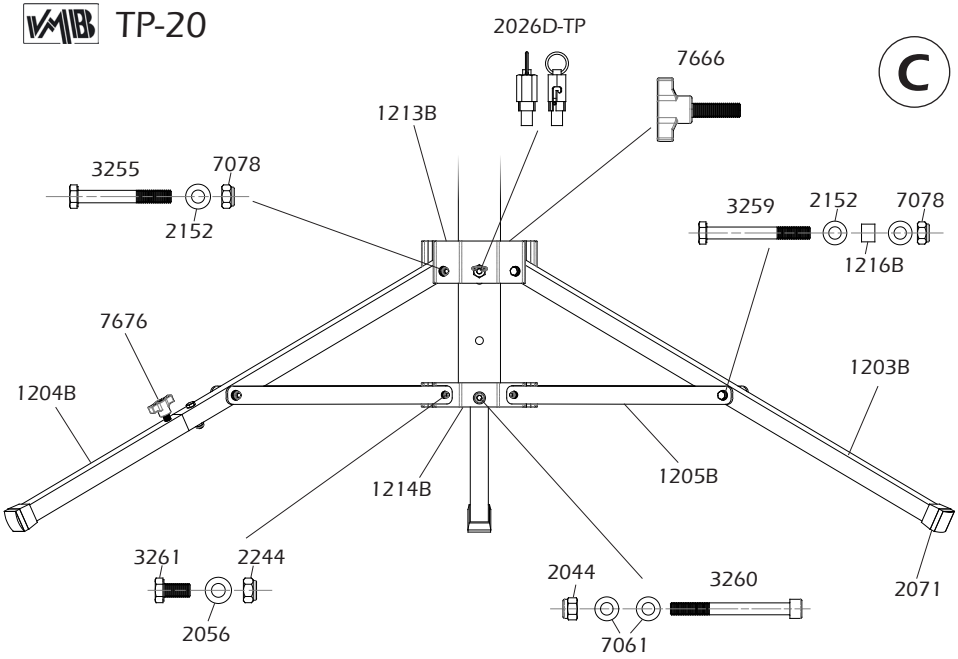


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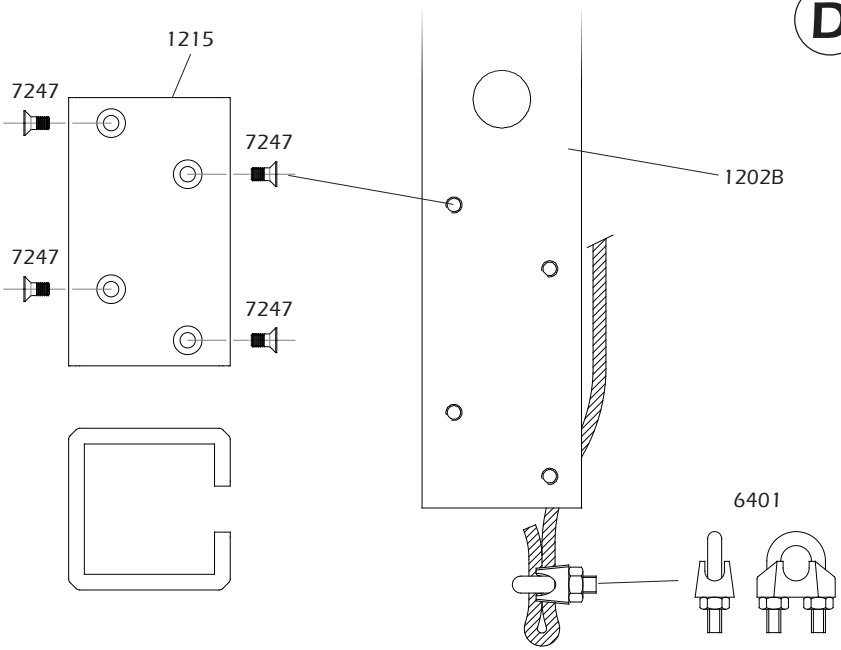


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C



D



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TP-20 SPARE PARTS LIST / LISTA DE REPUESTOS TP-20

Code	*Description GB / USA*	*Descripción ES*
1201B	Section 1 profile TP-20	Tramo 1 aluminio 70x70 TP-20
1202B	Section 2 profile TP-20	Tramo 2 aluminio 50x50 TP-20
1203B	Leg profile TP-20	Pata aluminio 30x30 TP-20
1204B	Complete telescopic leg TP-20	Pata telescópica aluminio 30x30 TP-20
1205B	Strap plate TP-20	Tirante aluminio TP-20
1206	Ø4mm - 2,47m Steel cable	Cable Ø4, longitud: 2,47m TP-20
1210B	TP-20 pulley support piece	Soporte aluminio porta-polea TP-20
1211	TP-20 plastic fitting top piece	Contera plástico ajuste superior TP-20
1212B	TP-20 winch support piece	Soporte aluminio cabrestante TP-20
1213B	TP-20 legs support piece	Soporte aluminio patas TP-20
1214B	TP-20 strap support piece	Soporte aluminio tirantes TP-20
1215	TP-20 plastic fitting bottom piece	Contera plástico ajuste inferior TP-20
1216B	9mm spacer shell for legs	Casquillo separador 9mm patas TP-20
2022	Ø50 steel pulley	Polea de acero Ø50mm
2023	M10x30 hexagonal thin head screw	Tornillo M10x30 cabeza hexagonal fina
2026D-TP	Hexagonal safety lock	Gatillo hexagonal 2026D pasador Ø3x12
2044	M10 DIN 985 nut	Tuerca M10 DIN 985
2051	M10 DIN 934 nut	Tuerca M10 DIN 934
2056	M6 DIN 125 washer	Arandela M6 DIN 125
2071	Plastic leg cap; ground	Tapón de plástico pata para suelo
2073	Plastic cap top of the leg	Tapón de plástico superior pata
2152	M8 DIN 125 washer	Arandela M8 DIN 125
2209N	ALS automatic security lock	Gatillo automático de seguridad ALS
2244	M6 DIN 985 nut	Tuerca M6 DIN 985
3232	M8x16 DIN 912 screw	Tornillo M8x16 DIN 912
3245	M6x25 DIN 7991 screw	Tornillo M6x25 DIN 7991
3255	M8x60 DIN 931 screw	Tornillo M8x60 DIN 931

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Code	*Description GB / USA*	*Descripción ES*
3259	M8x70 DIN 931 screw	Tornillo M8x70 DIN 931
3260	M10x100 DIN 912 screw	Tornillo M10x100 DIN 912
3261	M6x16 DIN 933 screw	Tornillo M6x16 DIN 933
5431	M10x90 DIN 912 screw	Tornillo M10x90 DIN 912
6401	Ø4 cable end lock	Prisionero fin de cable Ø4
7061	M10 DIN 125 washer	Arandela M10 DIN 125
7078	M8 DIN 985 nut	Tuerca M8 DIN 985
7160AC	450kg Al-ko compact winch	Cabrestante Al-ko Compact 450kg
7247	M5x10 DIN 7991 screw	Tornillo M5x10 DIN 7991
7666	M10x35 black VMB knob	Palomilla VMB negra M10x35
7676	M10x20 black VMB knob	Palomilla VMB negra M10x20
7676R	M10x20 red VMB knob	Palomilla VMB roja M10x20
8025	M8x20 DIN 914 screw	Tornillo M8x20 DIN 914
9100	Short handle for 450kg winch	Manivela corta para cabrestante 450kg

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Declaration of Conformity

CERTIFICATION T001 / 2019

CE

The described towerlift meets all the requirements specified in the Directive **2006/42/EC** of the European Parliament and the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC

- **MANUFACTURER:**

PRO LIFTS S.L.
C/ Ciudad de Barcelona 19
Pol. Ind. Fuente del Jarro
46988 Paterna - VALENCIA

- **MACHINE TYPE:** Telescopic tower, manual lifting of lights or structures for shows

- **MODEL:** TP-20

- **DESCRIPTION:** Towerlift with 2 telescopic aluminium profiles.
Minimum height: 1.42 m
Maximum height: 3.0 m
Maximum load: 100 Kg
Area of base: 1.36 x 1.57 m

Paterna, April 2019

PROLIFTS S.L.
C/ Ciudad de Barcelona Nº19
Pol. Ind. Fuente del Jarro · 46988 Paterna
VALENCIA · Spain C.I.F. ES98299902

Quality manager

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Para más información consulte con nuestros técnicos en:

PRO LIFTS S.L.
C/ Ciudad de Barcelona Nº19
Pol. Ind. Fuente del Jarro
46988 Paterna (Valencia) Spain
Tlf Export: +34 96 171 81 86
Tlf Nacional: 96 171 81 83
email: **info@prolifts.es** web: **www.prolifts.es**