



Rev. 5.0

WORK

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LW 330
LW 135 R
LW 142 R
, LW 150 R
LW 155 R
LW 185 R
LW 255 R
LW 265 R
LW 290 R
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INTRODUCTION

SPECIFICATIONS

Thanks you to get a $WORK^{^{(0)}}$ product. We hope to satisfy needs.

The **WORK**[®] lifters enjoy of the highest reputation, thanks to carefulness in the manufacturing and quality control in each spare part, such as the engineering which designed systems allowing its perfect working.

In a **WORK**[®] lifter, you would find:

SAFETY: Considering that the lifting towers are used in situations where the human being takes part, the security has been our main target. For this, **BFV C1 (GUV 6.15), BGG812 (GUV 66.15) certification** obtained by our lifters give us a guarantee.

STRENGTH: Manufactured with best materials, it robustness avoids any problem of weight and transport, and resists any inclemency situation.

QUALITY: Every piece, has been suffered a very strict quality control on each process and assembly.

EASY CARRIAGE: Though for live events where the professional disposes of few time to carry on and fitting up.



ATTENTION VERY IMPORTANT

Before using the lifting tower, read carefully this owner manual.Handle none element if you are not sure of its fuction.

Let revise the lifter every year to your nearest distributor.

In the case you need change any element of the lifter, only use original **WORK**[®] spare parts. Only these spare parts guarantee a good working of this product.

All repairs of the lifter can be realised by a **WORK**[®] authorized establishment.

If you have any doubt, please contact us through the nearest distributor.

	MAX	MIN	Ø	DISPLAYED TOWER		FOLDED TOWER		
	LOAD (KG)	LOAD (KG)	INSERT. (mm)	HEIGHT (M)	BASE (M)	HEIGHT (M)	BASE (M)	WEIGHT (KG)
LW 330	100	25	35	3,3	1,3 x 1,3	1,3	0,15 x 0,15	20
LW 135 R	100	25	35	3,5	1,26 x 1,26	1,93	0,36 x 0,36	24
LW 142 R	100	25	35	4,05	1,29 x 1,29	1,59	0,36 x 0,36	29
LW 150 R	100	25	35	5	1,46 x 1,46	1,90	0,36 x 0,36	33
LW 155 R	150	25	35	5,3	1,49 x 1,49	1,72	0,36 x 0,36	43
LW 185 R	210	20	35	5,3	1,49 x 1,49	1,72	0,36 x 0,36	73
LW 255 R	220	25	55	5,3	1,78 x 1,78	1,75	0,46 x 0,46	86
LW 265 R	220	25	40	6,5	1,79 x 1,79	1,80	0,46 x 0,46	93
LW 290 R	290	25	50	6,6	1,79 x 1,79	1,84	0,46 x 0,46	135

	CABLE							WINCH	
	COMPOS.	Ø (mm)	RESIST. (N / mm2)	LOAD (KN - KP)	WEIGHT/Mt (KG/M)	ROLL.	Ø BOBBING (mm.)	REDUCT. RANGE	
LW 330		4	, ,	19.6 - 1990	0,055		38	2.5 : 1	
LW 135 R	6 x 19 +1 STANDARD (GALVANIZED)	4		19.6 - 1990	0,055	둪	38	2.5 : 1	
LW 142 R	AND	4		19.6 - 1990	0,055	RIGHT	40	2.5 : 1	
LW 150 R	1 ST /AN	4	1770	19.6 - 1990	0,055	CROSSED TO	38	2.5 : 1	
LW 155 R	19 + 5AL\	4		19.6 - 1990	0,055	OSSE	40	2.5 : 1	
LW 185 R	× 9 V	6		19.6 - 1990	0,125	CRO	48	3.75 : 1	
LW 255 R		6		19.6 - 1990	0,125		48	3.75 : 1	
LW 265 R		6		19.6 - 1990	0,125		48	3.75 : 1	
LW 290 R	7 x 19	7		28.8 - 2930	0,187		48	3.75 : 1	

Standards and Regulations applied on winches incorporated on each lifting tower.

MODEL	STANDARDS AND REGULATIONS	MO
LW 330	DIN 3060 / VGB 8 / TÜV 9591009.02	LW [·]
LW 135 R	DIN 3060 / VGB 8 / TÜV 9591009.02	LW 2
LW 142 R	DIN 3060 / VGB 8 / TÜV 9591009.02	LW 2
LW 150 R	DIN 3060 / VGB 8 / TÜV 9591009.02	LW 2
LW 155 R	DIN 15020 / VGB 1 / VGB 8	

6	MODEL	STANDARDS AND REGULATIONS
2	LW 185 R	DIN 3060 / VGB 8 / TÜV 9591009.02
2	LW 255 R	DIN 15020 / VGB 1 / VGB 8
2	LW 265 R	DIN 15020 / VGB 1 / VGB 8
2	LW 290 R	DIN 15020 / VGB 1 / VGB 8



- Telescopic tower for lifting vertical load.
- System covers by an electrolytic bath of zinc.
- Telescopic tower composed of 3 sections extensible by means of an iron cable of high resistance to the traction, drives by pulleys and auto lubricated bearing.
- LW 330 lifting tower has been designed for the transport in whatever way. Its exclusive folded system allows to reduce its dimensions to 1,3 meters height, being able to be carried in cars and small vehicles. Moreover its 20 kg becomes it in an ultraportable tower.



Bolts used in WORK_® LW 330



Its folded system consist of 4 legs, two of them dispose of extensible mechanism in order to correct whatever light inclination



NOTICE: Use this function only in case to compensate a light inclination NEVER unfold these leg if the inclination of the surface can constituate a fall down risk.

- Telescopic towers for lifting vertical load.
- System covers by an electrolytic bath of zinc.
- Telescopic tower composed of diverse iron sections extensible by means of an iron cable of high resistance to the traction, drives by pulleys and auto lubricated bearing.

SECTIONS



LW 135R LW 142R LW 150R



All mobile system is fixed through safety bolts. To apply them, pull the ring and turn it, the intern spring will proceed to liberate the plunger.

LW 255R





INSTALLATION AND USER MANUAL LW 330/135R/142R/150R/155R/185R/255R/265R/290R LIFTING TOWERS **3**

TECHNICAL FEATURES (100R/200R series)

CAUTIONS BEFORE LIFT (LW 330 only)

- Extreme sides of legs are fitted with stabilizers for adjustable height.

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- Turn on the handle to get a perfect balance of the lifter.

Important: Turn on circularly stabilizers handle carefully when you want to balance the the lifter with the vial.

It means, step by step and controlled that the verticality is right, not fully turn on one stabilizer and cause the unbalance and the fall of the lifter.



Water level allows adjusting the verticality of the mast lifter.

Fitted with wheels for its transport, depending in the model, wheels can be situated in different positions.





INSTALLATION AND USER MANUAL LW 330/135R/142R/150R/155R/185R/255R/265R/290R LIFTING TOWERS 5





Place the lifter on a stable surface.



Check that the automatic bolt of the legs is correctly fixed to the base of

the lifter and the trigger is well insured.



Balance the lifter in vertical position thank to the vial in the mast. Turn clockwise the handle of stabilizer until adjusting the right level in the case you want to correct the level position.





INSTALLATION AND USER MANUAL LW 330/135R/142R/150R/155R/185R/255R/265R/290R LIFTING TOWERS 7



Block distinct section of the lifter with safety bolts, it is very important to do it because in the case of break down in the wire, this precaution allows to jam all sections and avoid the fall of loaded sections consecutively.



load process.

Before placing the load in the adecuated lifting Accessory, check that the load exceed the minimum stipulated for each tower. A lower load applied than minimun one could make more difficult the descent





LW 330/135R/142R/150R/155R/185R/255R/265R/290R LIFTING TOWERS 9

CAUTIONS BEFORE LIFT (Common cautions for all models)





It is of vital importance for your safety that you carefully this owner manual before manipulating the telescopic lifter.

1. Situate the lifting tower over a level and steady surface. If the ground presents some inclination, level it with the extension mechanism placed in two of the legs. In order to unfold the tower, unblock the safety pin. The inferior mechanism will move upside, unfolding the legs.



2. If the ground presents some inclination, level it with the extension mechanism placed in two of the legs.



3. Place the load on the tower with the appropriated lifting accessory without overpassing the maximum weight specified by the manufacturer.

- Place the lifter over a plate and balance surfaces



- Take out legs from the transport lodging, turn on the trigger and insert legs until its right position, turn on again the trigger insuring the firmness of the assembly.





Adjust the stablility of the lifter with the handle of each leg, until reaching centre the bubble of the water level.
(NOTE: FOR A HIGHER STABILITY, REGULATE THE HEIGHT OF LEGS UP

TO WHEELS LEFT TO BE IN CONTACT WITH THE FLOOR)



- Place the load over the fitting support for each type of lifter , without overload the maximum weight specifies.



LIFTING PROCESS (LW 290 R only)

LW 290 R disposes of a new security block system, that allows to fix and secure the lifting tower in whatever position.

This new system offers an easy operation, because you can save the work to unblock and block the trigger during the lifting process. Now, blocking all triggers, it is possible to lift the tower for an easy way.

Once the lifter is fixed firmly on the floor and the bubble of the water level in the centre, after follow all previous steps, the lifter is now ready for its lifting.

1. The first that we would control, it is *ALL SAFETY BOLTS ARE IN BLOCKED POSITION*. In the case that one of t hem is in unblocked position, pass to the blocked position.

- The liberated section, lifts thank to the pulley system. The mechanism of auto brake in the winc h also allows stopping all the process without producing the sudden fall of the section if this has not fixed.



IMPORTANT: During all lifting process the triggers MUST NOT BE UNBLOCKED





When you turn the crank as it is indicated in the drawn, the pulley system will work on all sections, lifting "in theory" the lightest however it is not 100% reliable. The section lifting order depend on the friction between them. Normally it occurs with the upper section , which is the first to be elevated, but if the load is distributed in different way, the liftered section could be another. For this reason is very importan to distribute the load in an uniform way.



In that moment the first section will lift and the trigger will be unblocking slowly



The distance "D" increase until a hole will be in front of trigger, in that moment the trigger is blocked (D=0) and tower secure.

We can continue with the process and the behaviour of the trigger will be the same until to reach the desired height or all section will be unfolded.

Now, the lower section will lift with the same way. Remember not to unblock none trigger during this process.

ATTENTION!! VERY IMPORTANT

Once finished the lifting process, insure that all bolts are in blocked position.

NOTE: If in the process of lifting the lifter, section is stayed blocked, do not force the crank. If you can not release the bolt, you should rotate the winch in the contrary sense meanwhile that you draw out the bolt until you fully unblock.



1st Bolt to unblock Raise the upper section Raise the upper section A rd Bolt to unblock Raise the upper section Raise the upper section

4. Now you can start lifting up the lifter. When the raising section it is near the desired height, release the bolt.

Then, go on lifting up softly until the bolt is introduced into the section. In this moment, if you desire to go on with the lifting up, unblock the corresponding bolt to the next section.



Once the lifter is fixed firmly on the floor, the lifter is now ready for its lifting.

1. The first that we would control, it is all safety bolts are in blocked position (1). In the case that one of them is in unblocked position (2), pass to the blocked position (1).

- The liberated section, lifts thanks to the pulley system. The winch auto brake mechanism also allows to stop all the process without producing the sudden fall of the section if this has not fixed.

-The sections dispose inside them, holes where they are lodged the liberated bolt and maintain the lifter fixed in an end position or several intermediaries.

When you get these positions, turn on the trigger for a perfect fixation of the section.



2. Before lifting the lifter, you should understand the working of the system.

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When you turn the crank as it is indicated in the drawn, the pulley system will work on all sections, lifting "in theory" the lightest however it is not 100% reliable. The only form to lift the desired section is UNBLOCKING SOLELY the bolt which jams this section.



After fixing the section in the desired position with the bolt, unblocked the following section in necessary case and go on lifting up.

FOR A SAFETY BLOCKING. FIX TRIGGERS TO CORRESPONDING HOLES

ATTENTION!! VERY IMPORTANT

Once finished the lifting process, insure that all bolts are in blocked position.

NOTE: If in the process of lifting the tower, section is stayed blocked, do not force the crank. If you can not release the bolt, you should rotate the winch in the contrary way meanwhile that you draw out the bolt until you fully unblock.

ATTENTION!! VERY IMPORTANT

Look after the load while you go down the lifter. Do not be in hurry when you lift down the load, be carefully.

The lifting down process is exactly the contrary to the lifting up. So, we start to unblock all the lowest bolts of the lifting tower and turn on softly the crank in the anticlockwise way and check the load for possible oscillations.



ATTENTION!! VERY IMPORTANT

NOTE: When you lift down the lifter, if any of sections will not fully go down, stop to rotate the winch because the system will be rigidity and it would bring about a sudden descent of this section.

To avoid this, rotate the crank in the opposite sense as if you lift down and insure that the bolt of this section is unblocked, so repeat the lifting down process.

In the case the problem persists, look a fter that the lifter has a minimum load to easy the descent of sections.

If the height you desire to get and it is not the top, distribute the extension of all sections equitably to avoid an unbalance when you lift up the first section until its top and left the rest without lifting up.



When the load is largely placed, it is recommendable to use 2 lifters so the load is distributed and balanced too.



For getting optimize and efficiency working of this lifter and a longer using, please consider following recommendations:

Check periodically the condition of the wir e, unrolling the reel fully and watch over that the filament is not unthreaded, breach or flatten.

In the case you detect any of these problems, contact with your distributor to proceed of the change.

Lubricate periodically the toothed wheel of the winch and lifting bearings of each section, as the lifting mechanism of the legs.

NEVER LUBRICATE THE BRAKE MECHANISM OF THE WINCH, IT DISPOSES OF SPECIAL LUBRICATE SYSTEM AND THE ADDITION OF ANY OTHER COMPONENT IN THE MECHANISM, CAN SERIOUSLY AFFECT ITS WORKING.

Accessory Lifting Tower Accessory Lifting Tower Support bar for truss. Adjustable width. Bar lenght: 600 mm. AW 135 LW 135R AW 135 LW 125R AW 135 LW 135R AW 140 LW 255R LW 135R AW 150 LW 250R LW 155R LW 135R AW 155 LW 250R Support bar for truss. Fixed width. Bar lenght: 250 mm. Accessory Lifting Tower Accessory Lifting Tower LW 135R AW 235 LW 142R AW 240 LW 255R LW 155R LW 135R AW 250 LW 290R LW 155R LW 155R LW 155R LW 290R Lateral support bar for truss. Adjustable width. Bar lenght: 212 mm. Accessory Lifting Tower Accessory Lifting Tower Adjustable width. Bar lenght: 212 mm. Accessory Lifting Tower Accessory Lifting Tower Parallel truss support Accessory Lifting Tower Accessory Lifting Tower AW 10 LW 255R LW 135R AW 130 LW 255R LW 135R AW 335 LW 255R LW 135R LW 255R LW 135R AW 330 AW 330 LW 255R LW 255R LW 135R AW 330 LW 255R LW 255R LW 255R						
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598 x 200 mm. LW 150R AW 450 LW 290R			AW 435	LW 142R	AW 440	LW 265R
LW 155R				LW 150R	AW 450	LW 290R
	· · · ·			LW 155R		



ACCESSORY INSERTION (Procedure)

- 1. Use the correct accessory according the insertion diameter (see closed table)
- 2. Unscrew the Allen type screw on the end piece of the lifting tower.
- 3. Insert the accessory and fasten firmly the Allen screw in order to ensure the accessory into the lifting tower.



EQUIPSON S.A.

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CONFORMITY DECLARATION

The described Truss-Lifts 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.

Applicant	:	EQUIPSON	N, S.A				
Address	:		Avda. El Saler, 14 Pol. Industrial L´Alteró 46460 SILLA - Valencia (Spain)				
Representative	:	EQUIPSON	N, S.A				
Address	:	Avda. El Saler, 14 Pol. Industrial L´Alteró 46460 SILLA - Valencia (Spain)					
Description	:	Lifts for Tru	uss Systems				
		WORK®	LW 330	WORK®	LW 135R		
		WORK®	LW 142R	WORK®	LW 150R		
		WORK®	LW 155R	WORK®	LW 185R		
		WORK®	LW 255R	WORK®	LW 265R		
		WORK®	LW 290R				

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CE

Juan José Vila (Product Manager) October 22, 2009

The test report was carried out from the submitted type-samples of a product in conformity with the specification of the respective standards. The certificate holder has the right to fix the CE-mark on the product complying with the inspection samples.

BGV C1 REGULATION, Explanation

BGV C1 is a regulation for Staging and Production Facilities for the Entertainment Industry. Lifting and rigging equipment is just part of this standard and cover structures and other technical matters. Adopting

BGV C1 is entirely voluntary (except in Germany) but its adoption is generally required by insurance companies and therefore it has effectively become an industry standard.

The application of this standard over lifting towers is vital due to in theatres, stages, etc. are used to move loads over performers and, in some cases, above spectators, representing a potential falling risk.

BGV C1 REGULATION, Application fields

This standard is orientated in two ways:

By one side, the lifting towers adopt designs and materials in order to achieve a high security degree in magnitudes like load supported, balance, friction resistance, etc.

So a **WORK**[®] lifting tower **BGV C1** certified ensures the customer that has passed strict test during its design, materials choice or load and effort verifications.

By other side, in order to achieve an optimum operation with these units, is recommended as much a responsible use of the unit, complying basic rules like maximum load accepted or tower balance as maintenance periodic, which must be carried by expert technicians, checking the good state of the steel cable and winch, operation of the safety bolts and folding/unfolding of the entire profile system.

BGV C1,	TESTS & CHECKS	ANNUAL TEST (passing the fourth year)	Checked by
MODEL	SERIAL NUMBER	Date	Signature
INITIAL CHECK (First year)	Checked by	Tested elements ar	nd conclusions
Date	Signature		
Tested elemen	nts and conclusions		
		ANNUAL TEST (passing the fourth year)	Checked by Signature
		Tested elements ar	
FOUR YEARS TEST	Checked by		
Date	Signature		
Tested elemer	nts and conclusions	[
		ANNUAL TEST (passing the fourth year)	Checked by
		Date	Signature
		Tested elements an	d conclusions



www.worklifters.com

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