



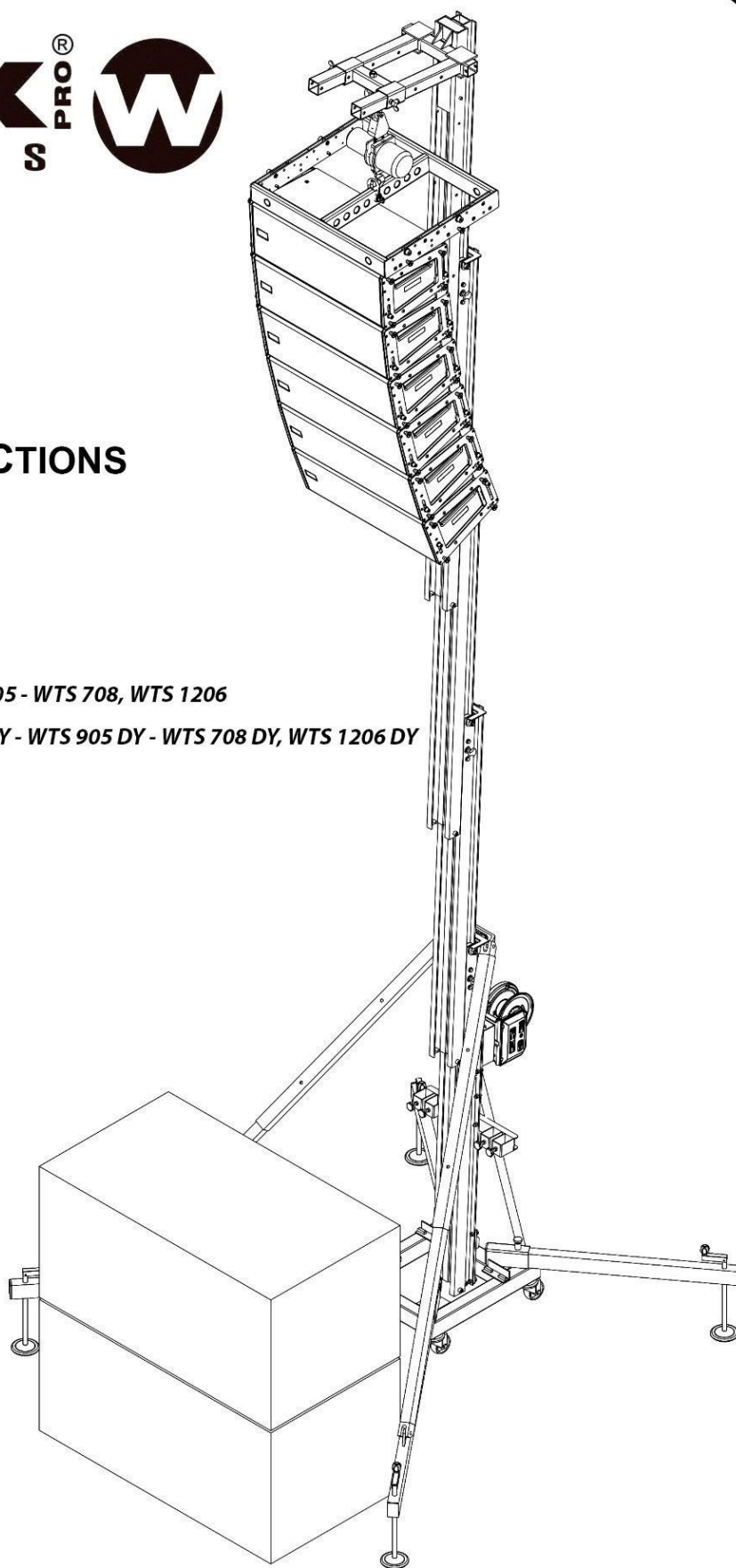
## LIFTING SYSTEMS

## OPERATING INSTRUCTIONS

### FOR MODELS:

*WTS 256 - WTS 375 - WTS 506 - WTS 905 - WTS 708, WTS 1206*

*WTS 256 DY - WTS 375 DY - WTS 506 DY - WTS 905 DY - WTS 708 DY, WTS 1206 DY*





## IMPORTANT

Carefully read and understand all points and aspects of this manual. Lifting loads irresponsibly can cause lethal accidents. Installation of lifting systems and proper use are only responsibility of the user.

It is recommended to attach this manual with the tower system used.

In case of doubt, consult the technical department of Work Lifters.

## CONTENT

|                                                                 |    |
|-----------------------------------------------------------------|----|
| <b>IMPORTANT</b> .....                                          | 1  |
| <b>CONTACT</b> .....                                            | 1  |
| <b>ILLUSTRATION INDEX</b> .....                                 | 1  |
| <b>WARNING ICONS</b> .....                                      | 3  |
| <b>ADDITIONAL DOCUMENTS</b> .....                               | 3  |
| <b>RULES AND SAFETY USE</b> .....                               | 4  |
| <b>PARTS IDENTIFICATION</b> .....                               | 10 |
| <b>OPERATING MODES</b> .....                                    | 11 |
| <b>MECHANISM MODE</b> .....                                     | 11 |
| <b>STRUCTURAL MODE</b> .....                                    | 11 |
| <b>HOW TO USE STEP BY STEP</b> .....                            | 12 |
| <b>LINE ARRAY ELEVATION IN MECHANISM MODE</b> .....             | 12 |
| <b>LINE ARRAY ELEVATION IN STRUCTURE MODE</b> .....             | 16 |
| <b>TRUSS SYSTEM ELEVATION IN MECHANISM MODE</b>                 | 21 |
| <b>TRUSS SYSTEM ELEVATION IN STRUCTURE MODE</b> ..              | 25 |
| <b>USING THE TOWER IN STRUCTURE MODE (WIND CONDITION)</b> ..... | 29 |
| <b>STANDARDS TAKEN INTO ACCOUNT</b> .....                       | 30 |
| <b>PLACING THE LOAD</b> .....                                   | 31 |
| <b>LOAD CHART</b> .....                                         | 32 |
| <b>GROUND COMPACTION DEGREE</b> .....                           | 33 |
| <b>DYNSYS SYSTEM</b> .....                                      | 34 |
| <b>DYNAMIC OVERLAP</b> .....                                    | 37 |
| <b>TRANSPORT</b> .....                                          | 38 |
| <b>WITH FORKLIFT</b> .....                                      | 38 |
| <b>WITH TRUCK OR CONTAINER</b> .....                            | 39 |

## DGUV V17/18 NORM REGULATION.

|                                        |    |
|----------------------------------------|----|
| <b>Explanation</b> .....               | 40 |
| <b>SPECIFICATIONS</b> .....            | 41 |
| <b>DECLARATION OF CONFORMITY</b> ..... | 42 |
| <b>DGUV MARK</b> .....                 | 43 |

## CONTACT

Website: [www.worklifters.com](http://www.worklifters.com)

E-mail: [support@equipson.es](mailto:support@equipson.es)

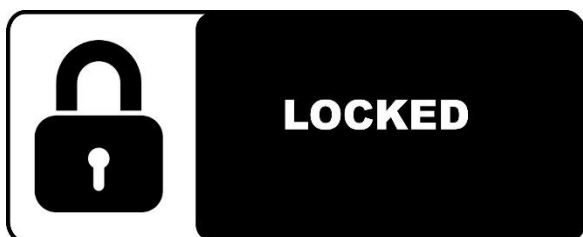
## ILLUSTRATION INDEX

|                 |    |
|-----------------|----|
| Figure 1 .....  | 4  |
| Figure 2 .....  | 4  |
| Figure 3 .....  | 4  |
| Figure 4 .....  | 4  |
| Figure 5 .....  | 5  |
| Figure 6 .....  | 5  |
| Figure 7 .....  | 5  |
| Figure 8 .....  | 5  |
| Figure 9 .....  | 6  |
| Figure 10 ..... | 6  |
| Figure 11 ..... | 6  |
| Figure 12 ..... | 6  |
| Figure 13 ..... | 7  |
| Figure 14 ..... | 7  |
| Figure 15 ..... | 7  |
| Figure 16 ..... | 7  |
| Figure 17 ..... | 8  |
| Figure 18 ..... | 8  |
| Figure 19 ..... | 8  |
| Figure 20 ..... | 8  |
| Figure 21 ..... | 9  |
| Figure 22 ..... | 9  |
| Figure 23 ..... | 9  |
| Figure 24 ..... | 10 |
| Figure 25 ..... | 11 |
| Figure 26 ..... | 11 |
| Figure 27 ..... | 12 |
| Figure 28 ..... | 12 |
| Figure 29 ..... | 12 |
| Figure 30 ..... | 12 |
| Figure 31 ..... | 12 |
| Figure 32 ..... | 13 |
| Figure 33 ..... | 13 |
| Figure 34 ..... | 13 |
| Figure 35 ..... | 13 |
| Figure 36 ..... | 14 |

|                 |    |
|-----------------|----|
| Figure 37 ..... | 14 |
| Figure 38 ..... | 14 |
| Figure 39 ..... | 14 |
| Figure 40 ..... | 15 |
| Figure 41 ..... | 15 |
| Figure 42 ..... | 15 |
| Figure 43 ..... | 16 |
| Figure 44 ..... | 16 |
| Figure 45 ..... | 16 |
| Figure 46 ..... | 16 |
| Figure 47 ..... | 16 |
| Figure 48 ..... | 17 |
| Figure 49 ..... | 17 |
| Figure 50 ..... | 17 |
| Figure 51 ..... | 17 |
| Figure 52 ..... | 18 |
| Figure 53 ..... | 18 |
| Figure 54 ..... | 18 |
| Figure 55 ..... | 18 |
| Figure 56 ..... | 19 |
| Figure 57 ..... | 19 |
| Figure 58 ..... | 19 |
| Figure 59 ..... | 19 |
| Figure 60 ..... | 20 |
| Figure 61 ..... | 20 |
| Figure 62 ..... | 21 |
| Figure 63 ..... | 21 |
| Figure 64 ..... | 21 |
| Figure 65 ..... | 21 |
| Figure 66 ..... | 21 |
| Figure 67 ..... | 22 |
| Figure 68 ..... | 22 |
| Figure 69 ..... | 22 |
| Figure 70 ..... | 22 |
| Figure 71 ..... | 23 |
| Figure 72 ..... | 23 |
| Figure 73 ..... | 23 |
| Figure 74 ..... | 23 |
| Figure 75 ..... | 24 |
| Figure 76 ..... | 24 |
| Figure 77 ..... | 24 |
| Figure 78 ..... | 25 |
| Figure 79 ..... | 25 |
| Figure 80 ..... | 25 |
| Figure 81 ..... | 25 |
| Figure 82 ..... | 25 |
| Figure 83 ..... | 26 |
| Figure 84 ..... | 26 |
| Figure 85 ..... | 26 |
| Figure 86 ..... | 26 |
| Figure 87 ..... | 27 |
| Figure 88 ..... | 27 |
| Figure 89 ..... | 27 |
| Figure 90 ..... | 27 |

|                  |    |
|------------------|----|
| Figure 91 .....  | 28 |
| Figure 92 .....  | 28 |
| Figure 93 .....  | 28 |
| Figure 94 .....  | 28 |
| Figure 95 .....  | 29 |
| Figure 96 .....  | 29 |
| Figure 97 .....  | 30 |
| Figure 98 .....  | 31 |
| Figure 99 .....  | 31 |
| Figure 100 ..... | 32 |
| Figure 101 ..... | 33 |
| Figure 102 ..... | 33 |
| Figure 103 ..... | 34 |
| Figure 104 ..... | 35 |
| Figure 105 ..... | 35 |
| Figure 106 ..... | 36 |
| Figure 107 ..... | 37 |
| Figure 108 ..... | 38 |
| Figure 109 ..... | 39 |
| Figure 110 ..... | 41 |

## WARNING ICONS



### ADDITIONAL DOCUMENTS

Follows this link to download the maintenance user manual for WTS series.

[WTS Series MAINTENANCE](#)

Or visit [www.worklifters.com](http://www.worklifters.com)

## RULES AND SAFETY USE

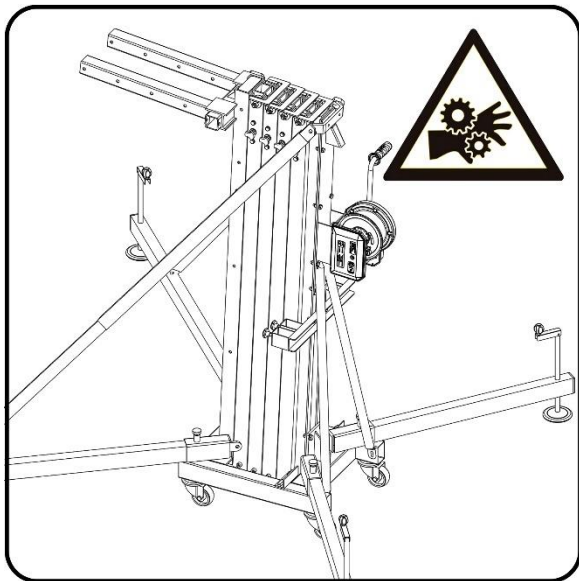


Figure 1

Keep hands and fingers away from moving parts of the tower.

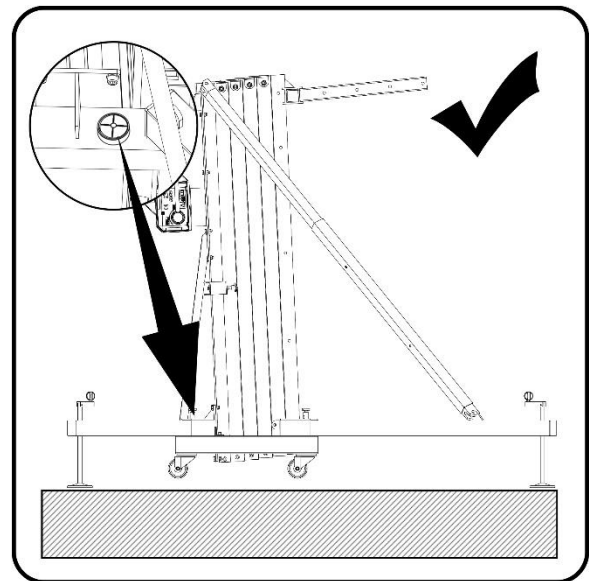


Figure 3

Do not lift the tower without proper leveling. To lift a load, the tower must always be stabilized.

**The wheels must not touch the ground.**

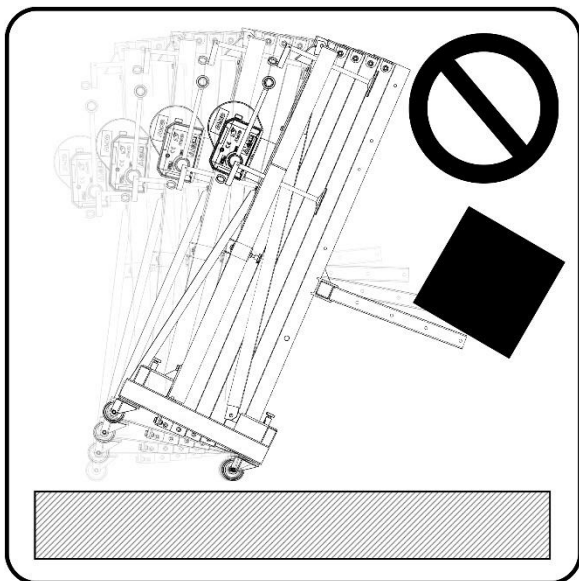


Figure 2

Not charge the tower without the stabilizer legs.

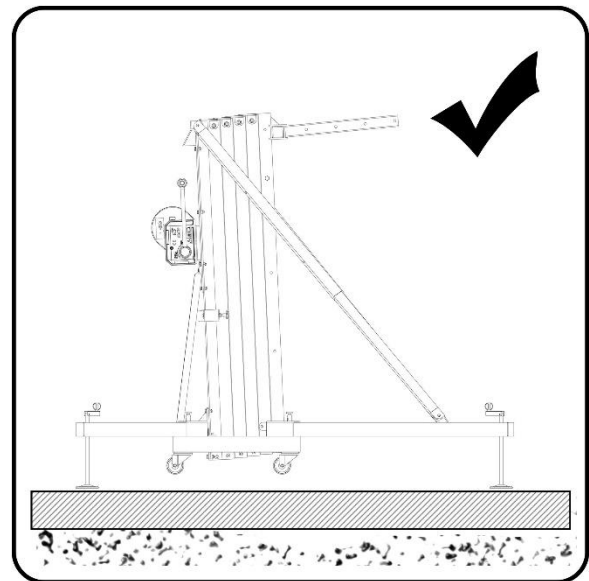


Figure 4

Place the tower on a stable surface.

If the ground has a low degree of compaction (earth, gravel, etc..) consult the section of load data.

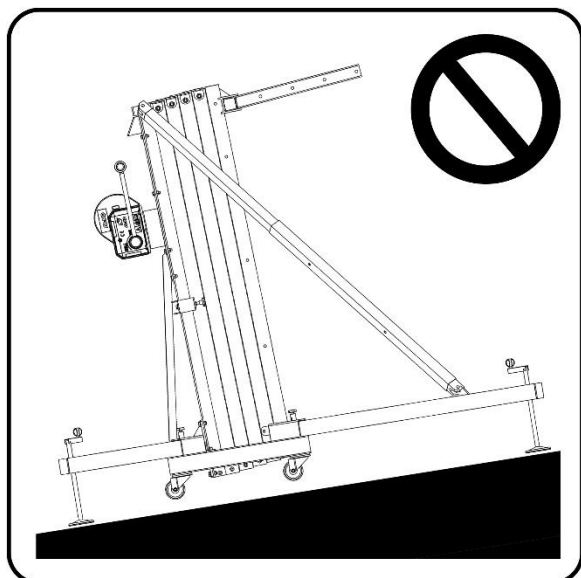


Figure 5

Do not use the tower on inclined surfaces that require pieces to level the tower.

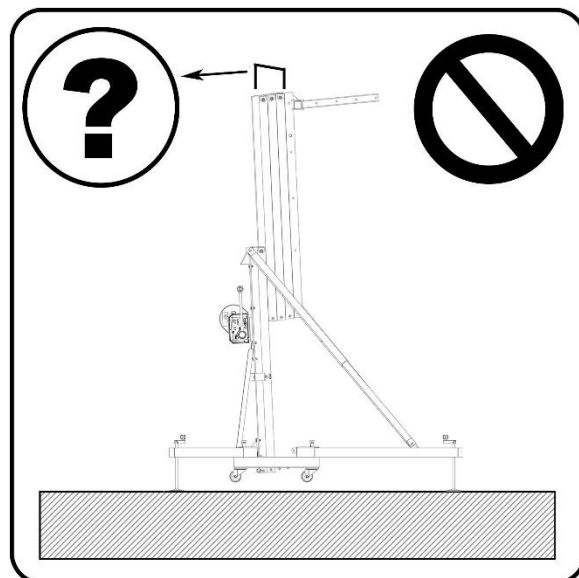


Figure 7

Lift the mast in the correct order.

Lift the mast of the tower starting always with the carriage. The last mast lifted must be the next to the section where the winch is placed.

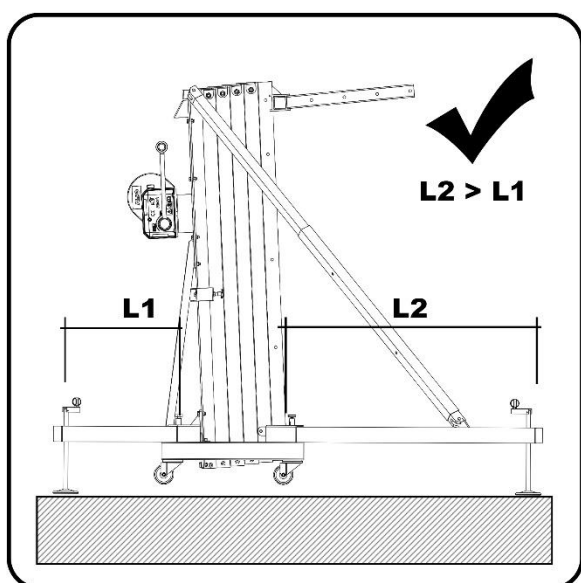


Figure 6

Mount the longest stabilizer legs in the part of the horns. Safety pins must lock the stabilizers.

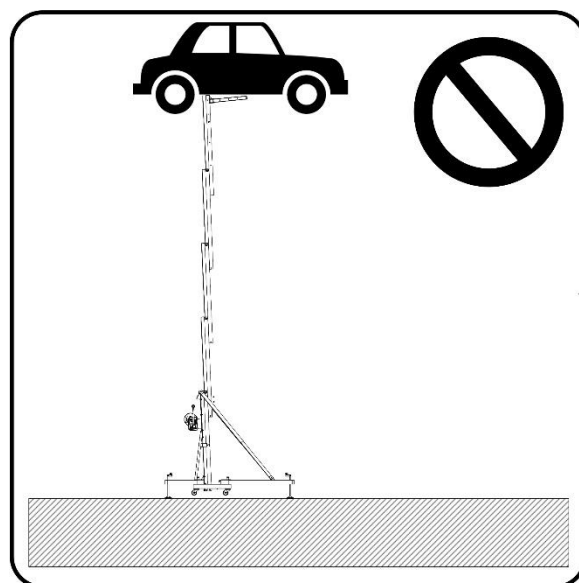


Figure 8

Before placing a load, make sure that the load never exceeds the maximum allowed. Consult the section of load data.

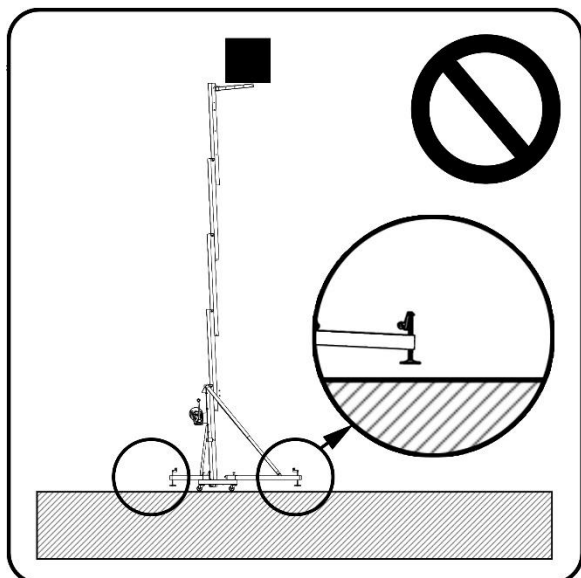


Figure 9

Never move a load without leveling the tower before.

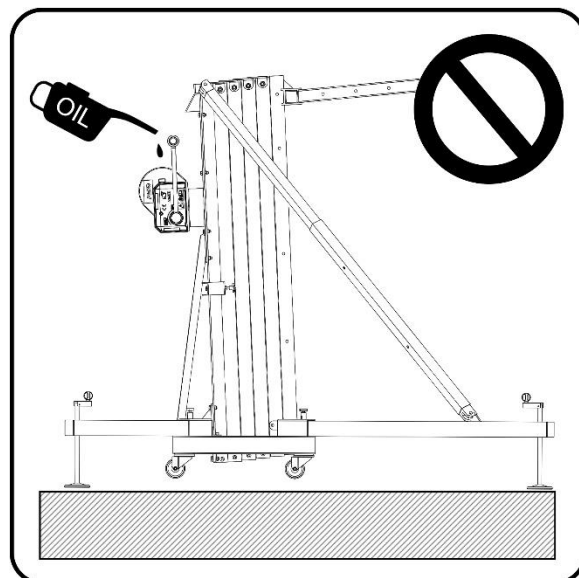


Figure 11

Not grease or lubricate the mechanism of the winch and the pulleys of the masts.



Figure 10

Do not use ladders on the tower or leaning against it.

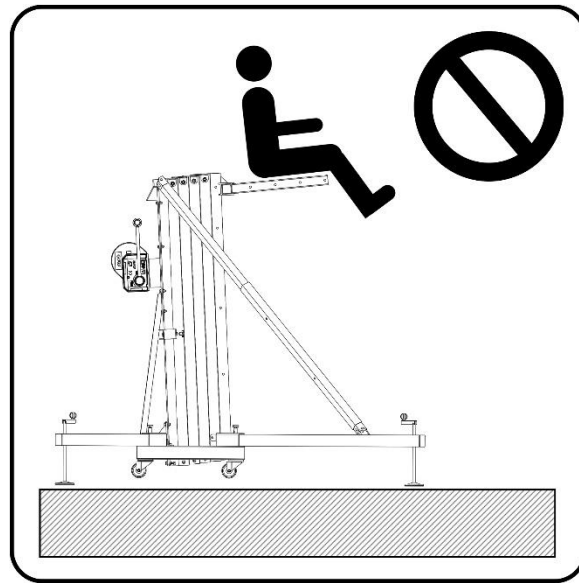


Figure 12

Not allowed to lift people or animals.

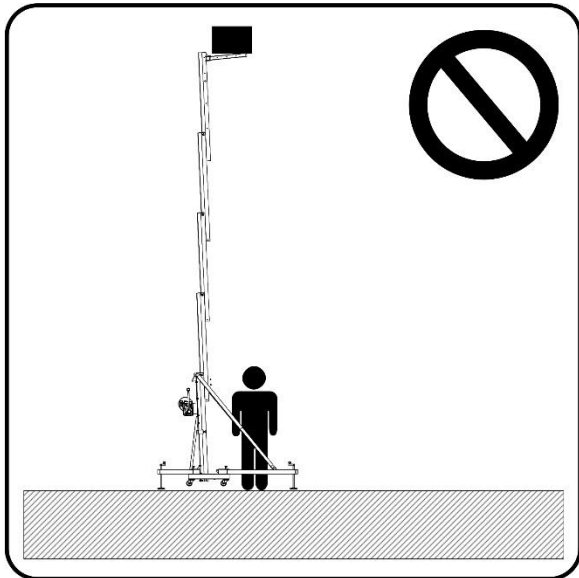


Figure 13

Do not stand under the load. The load must be secured to the tower in order to prevent that it cannot fall down.



Figure 14

Verify that the tower is beyond the reach of power lines.

The tower is not electrically insulated and can transmit currents of power lines.

On the following table is recommended the average length between the highest part of the structure and the power lines.

| Voltage        | Min. distance |       |
|----------------|---------------|-------|
|                | Meters        | Feet  |
| Between phases |               |       |
| 0 a 230v       | 1.5           | 4.92  |
| 230v a 400v    | 2.8           | 9.19  |
| 400v a 50Kv    | 3.4           | 11.15 |
| 50Kv a 200Kv   | 4.9           | 16.08 |
| 200Kv a 350Kv  | 6.5           | 21.33 |
| 350Kv a 500Kv  | 8.2           | 26.90 |
| 500Kv a 750Kv  | 11.3          | 37.07 |
| 750Kv a 1000Kv | 14.2          | 46.59 |

Figure 15

Not use the tower as welding mass.

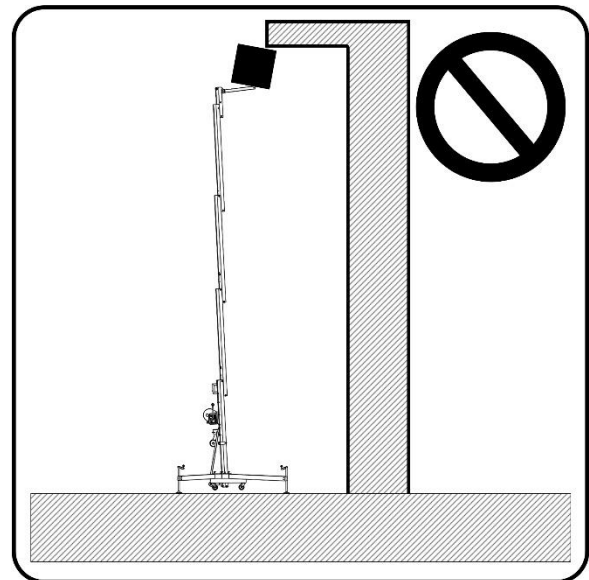


Figure 16

Not lift a load if there is danger of collision. Take at least 1.5 meters on any direction to lift the load safely.

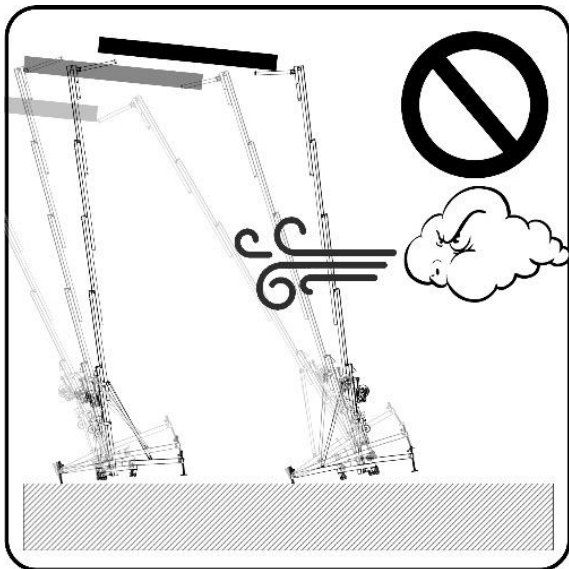


Figure 17

The tower can be used outdoor, **only in structural mode but with the loads corresponding to mechanism mode (for security purposes)**, if the wind speed is low and if it doesn't put the installation at risk. The installation is always under the responsibility of the owner.

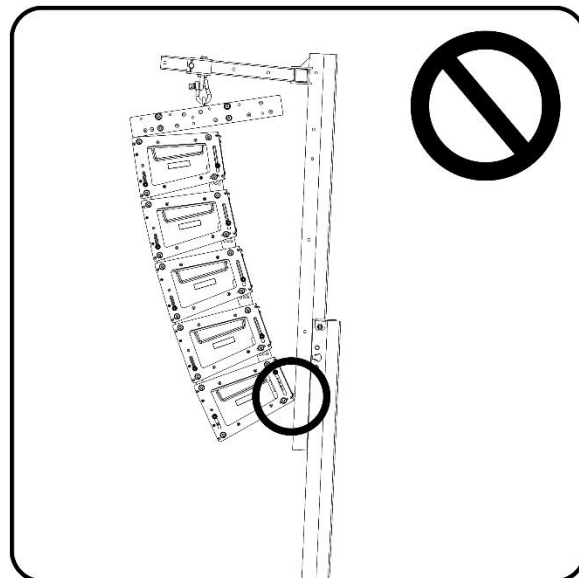


Figure 19

Prevent that the load do not touch the tower

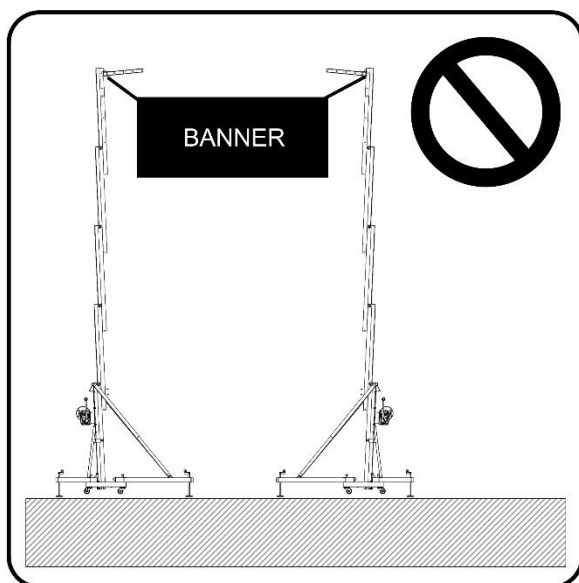


Figure 18

Do not use the tower as a support of banners or another type of decoration with strong wind that can destabilize the tower and make it falls.

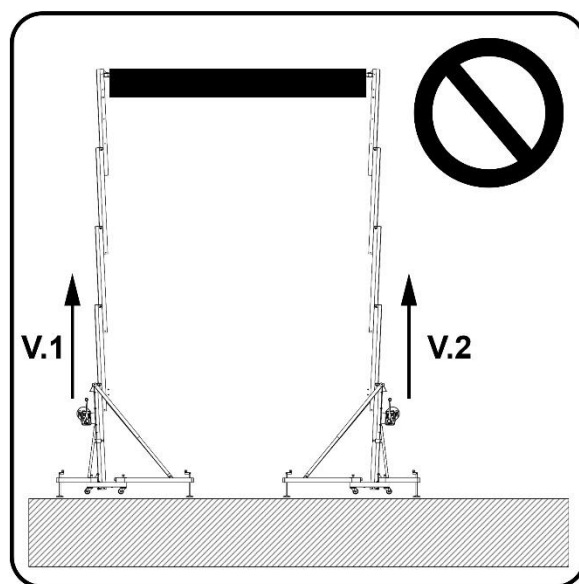


Figure 20

Do not lift structures that require more than one tower at different speeds

$V1 \neq V2$  No lift

$V1 = V2$  Ok

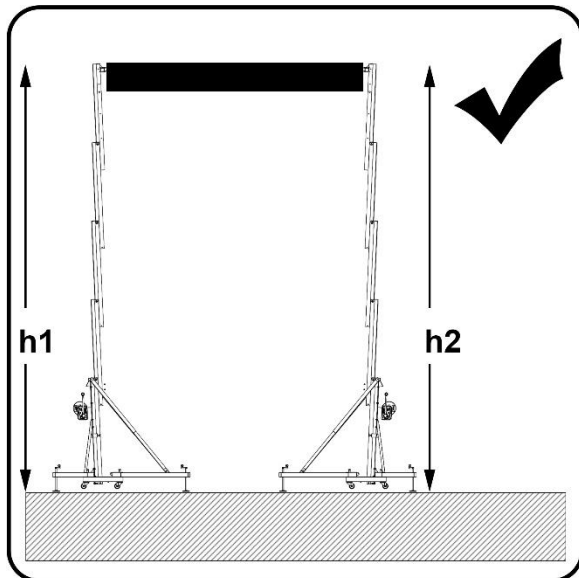


Figure 21

The structure must be levelled correctly. If not, the structure can fall.

Always  $h1 = h2$

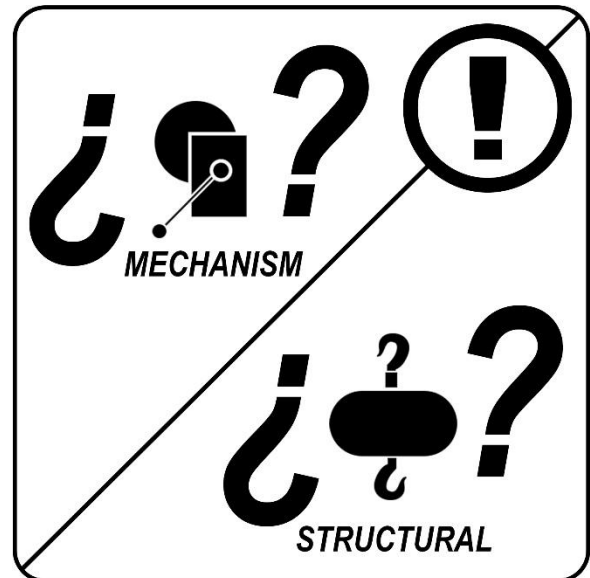


Figure 23

Never use structural loads in mechanism mode. It can result in a dangerous use and can break internal parts of the tower.

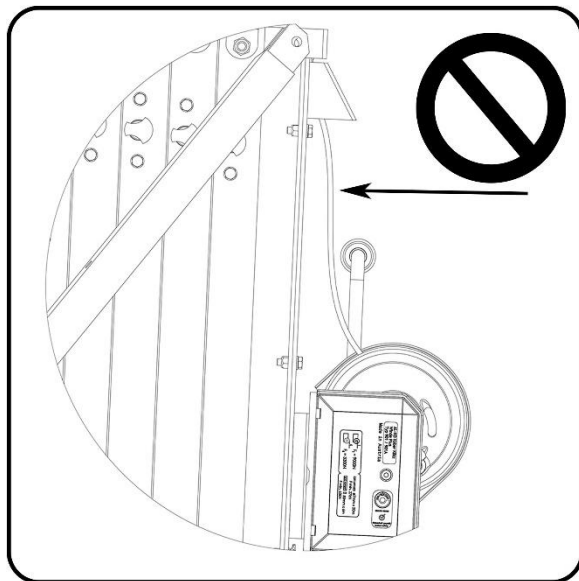


Figure 22

Under no circumstances should the tower be descended if the cable does not have sufficient tense. The cable should **ALWAYS** be tensioned in order to release the safety systems.

## PARTS IDENTIFICATION

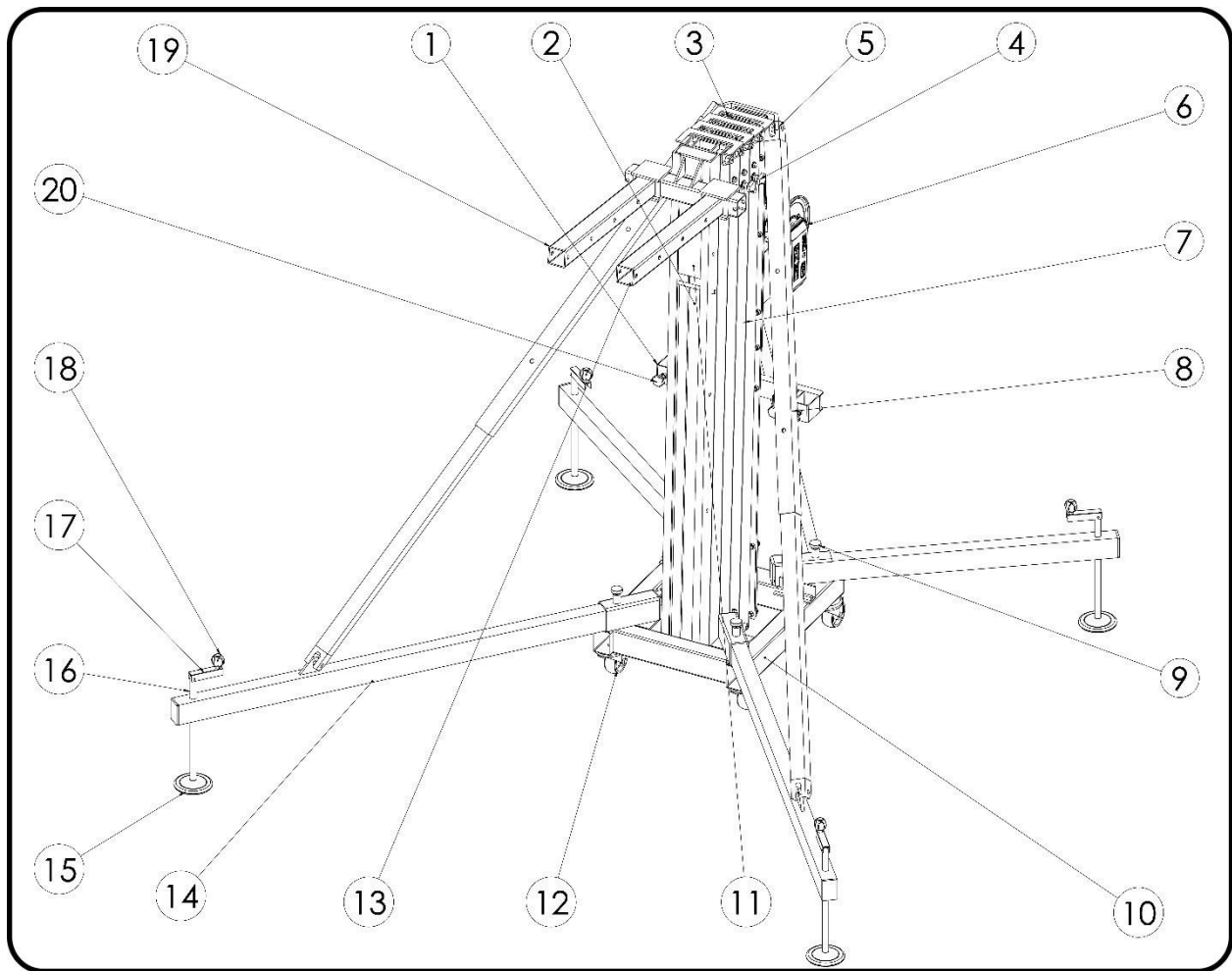


Figure 24.

|    |                                  |    |                  |
|----|----------------------------------|----|------------------|
| 1  | Support stabilizer legs carrier  | 11 | Steel carrier    |
| 2  | Steel cable                      | 12 | Base wheel       |
| 3  | Top boost reinforcement          | 13 | Pin horn         |
| 4  | Red knob mast security system    | 14 | Frontal leg      |
| 5  | Strut reinforcement mast support | 15 | Steel carrier    |
| 6  | Winch                            | 16 | Leveler screw    |
| 7  | Tower mast                       | 17 | Leveler brace    |
| 8  | Steel reinforcement strut        | 18 | Leveler knob     |
| 9  | Red knob base security system    | 19 | Forks            |
| 10 | Tower base                       | 20 | Leg carrier knob |

## OPERATING MODES

### MECHANISM MODE

This mode involves lifting the load with the help of the winch. That is, the load is placed in the tower once leveled and placed with all its masts in transport position. Then, the load is raised by using the included hand winch.

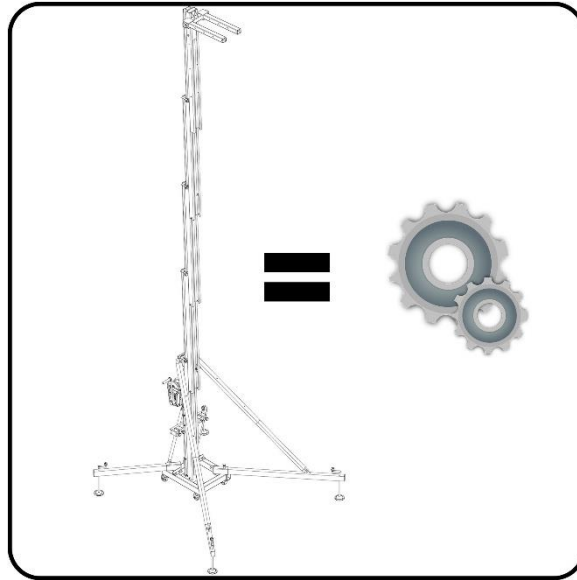


Figure 25

### STRUCTURAL MODE

This mode involves lifting the load with the help of a manual or electric hoist. That is, the tower is used as a structure that is all locked to the required working height. Once the tower is raised to this desired height, the load must be raised with the hoist.

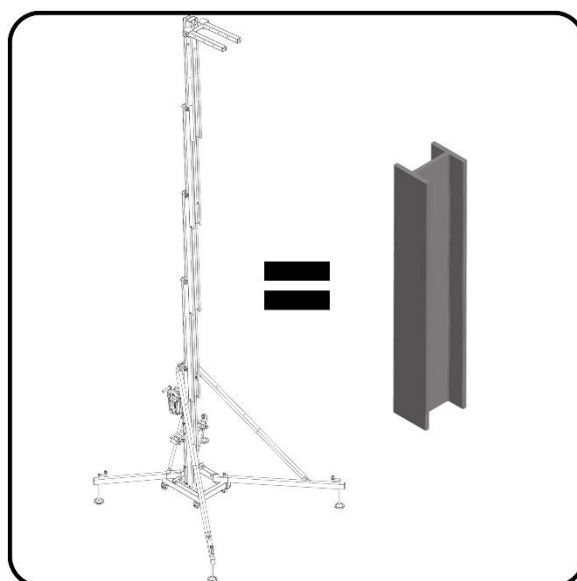


Figure 26

# HOW TO USE STEP BY STEP

## LINE ARRAY ELEVATION IN MECHANISM MODE

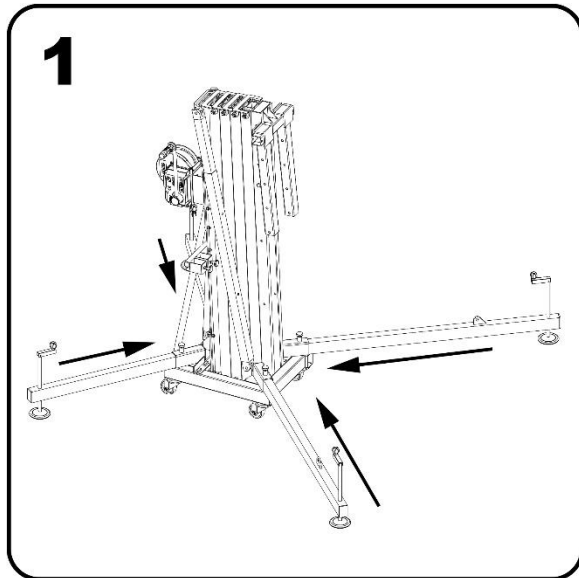


Figure 27

Fix and secure the stabilizer legs to the base.

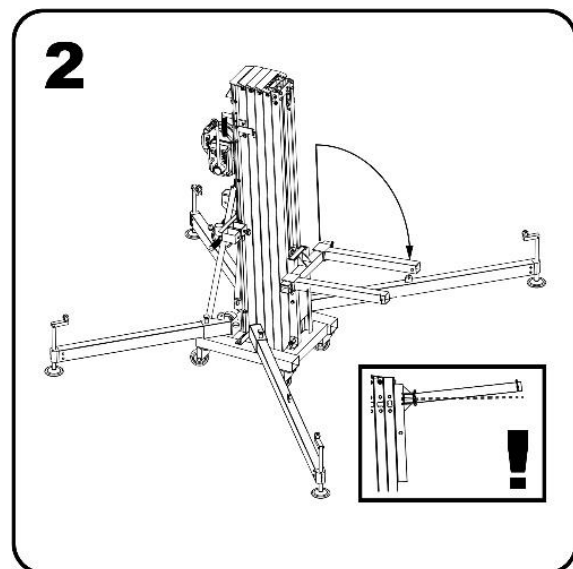


Figure 28

Turn the forks and adjust to the desired width.  
Ensure it with the pins.

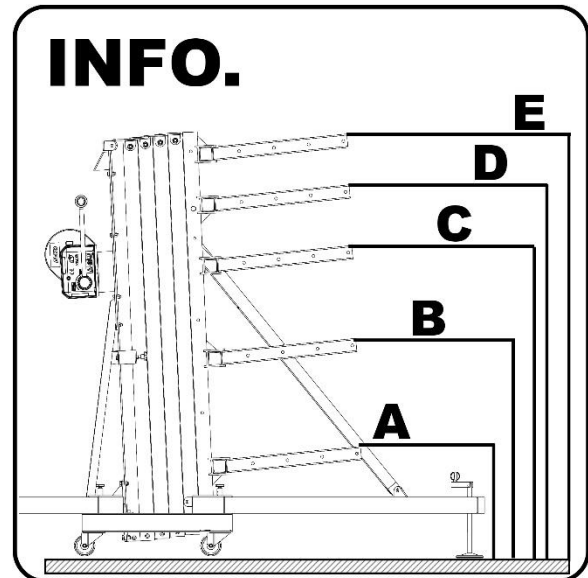


Figure 29

WTS towers have the option of changing the position of the carriage. Therefore, depending on the use, the load can be raised from different heights. The carriage can be rotated to obtain the required height.

| WTS | A   | B   | C    | D    | E    |
|-----|-----|-----|------|------|------|
| 256 | 435 | 695 | 1105 | 1315 | 1505 |
| 375 | 435 | 695 | 1105 | 1315 | 1505 |

Dimensions in mm.

Figure 30

| WTS | A     | B     | C    | D     | E     |
|-----|-------|-------|------|-------|-------|
| 256 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |
| 375 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |

Dimensions in inches.

Figure 31

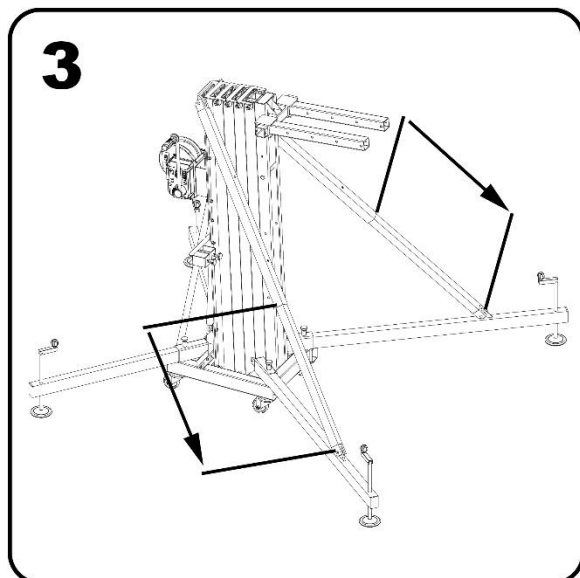


Figure 32

Place the reinforcement bars and fix them with its pins to the frontal legs.

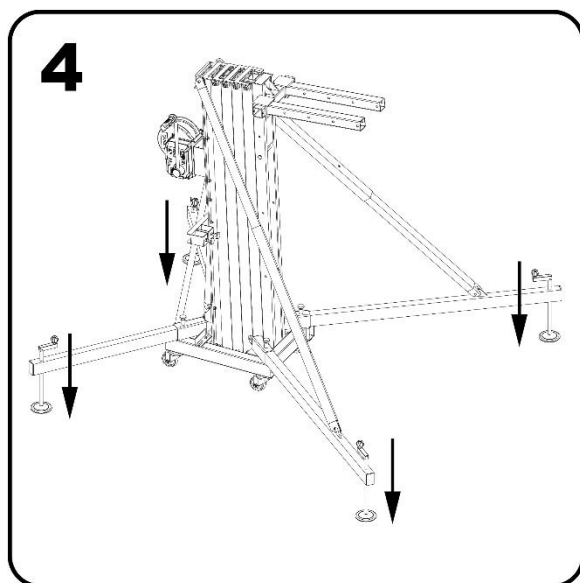


Figure 33

Place the tower in its working position and level until the bubble level is centered. Wheels should not get in contact with the ground.

Calculate the load to be lifted with the tower.  
An example of basic load calculation is attached.

| ITEM                 | WEIGHT (kg) | QUANTITY | TOTAL (kg) |
|----------------------|-------------|----------|------------|
| Line array accessory | 5,5         | 1        | 5,5        |
| Bumper               | 35          | 1        | 35         |
| Loudspeakers         | 28          | 4        | 112        |
| Cables               | 20          | 1        | 20         |
|                      |             |          | 172,5      |

Figure 34

In this example we have obtained a weight of 172,5 kg.

With that load, see what position the load should have on the forks of the tower. Take into account that the inclination of the loudspeakers and the bumper should not lean against any part of the tower.



| WTS  | UNIT | AS MECHANISM |      |      |      |      |
|------|------|--------------|------|------|------|------|
|      |      | P1           | P2   | P3   | P4   | P5   |
| 905  | lbs  | 992          | 970  | 928  | 895  |      |
|      | kg   | 450          | 440  | 420  | 406  |      |
| 1206 | lbs  | 1213         | 1168 | 1146 | 1124 | 1080 |
|      | kg   | 550          | 530  | 520  | 510  | 490  |
| 708  | lbs  | 992          | 970  | 948  | 926  | 882  |
|      | kg   | 450          | 440  | 430  | 420  | 400  |
| 506  | lbs  | 1124         | 882  | 772  | 661  |      |
|      | kg   | 510          | 400  | 350  | 300  |      |
| 256  | lbs  | 573          | 482  | 419  | 353  |      |
|      | kg   | 260          | 220  | 190  | 160  |      |
| 375  | lbs  | 772          | 639  | 529  | 507  |      |
|      | kg   | 350          | 290  | 240  | 230  |      |

Figure 35

Choose the WTS tower model. Check for the value immediately above the load you need. With this value, take the farthest position to which the accessory for flying must be placed. It is recommended that this position is always as close to the carriage as possible.

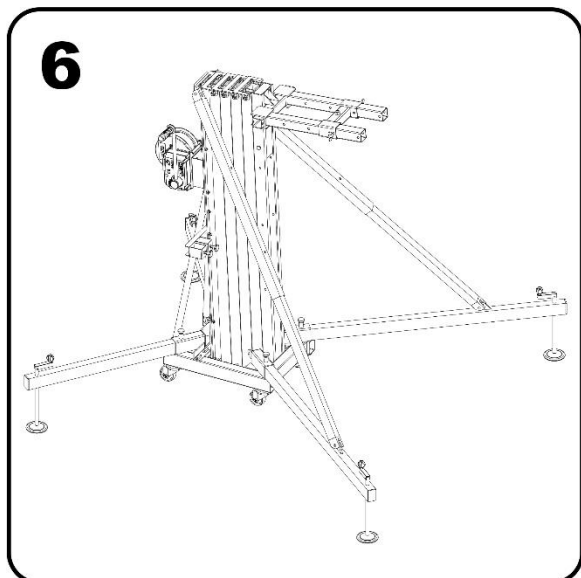


Figure 36

Place the accessory in the calculated position. Block it making sure that the screws are inserted into the hole of the fork position.

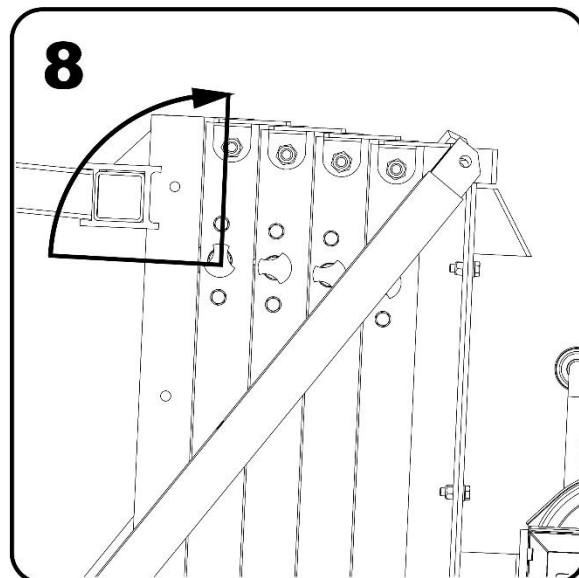


Figure 38

Unlock the mast safety system. Operate the winch handle to raise the load.

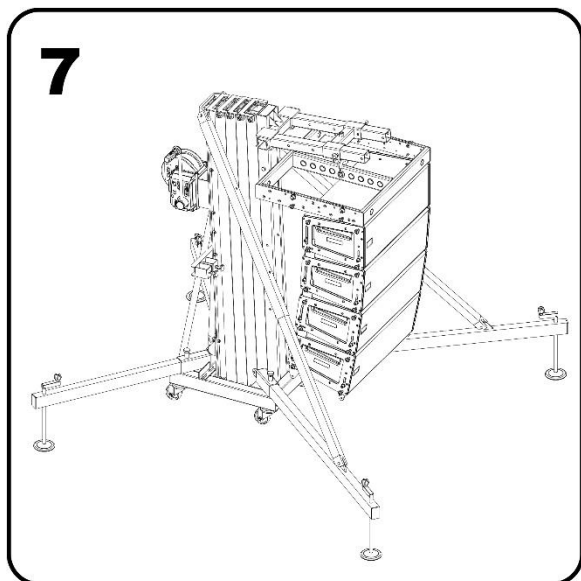


Figure 37

Join the line array equipment to the tower.

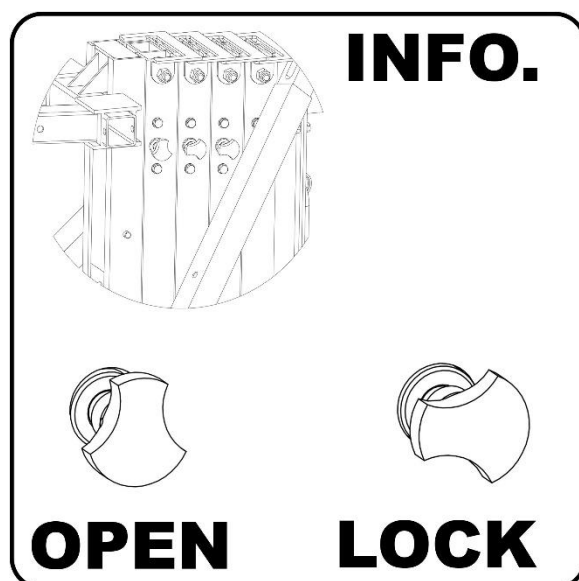


Figure 39

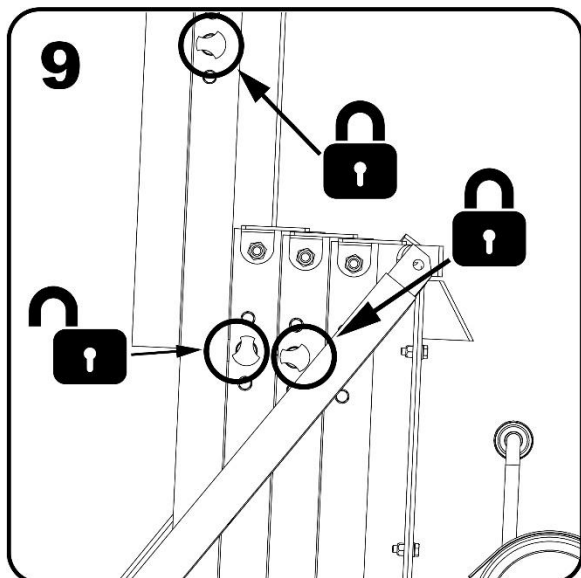


Figure 40

When the section reaches its limit, lock with the security system and unlock the following security system to lift the next mast. Do the same operation until you reach the required height.

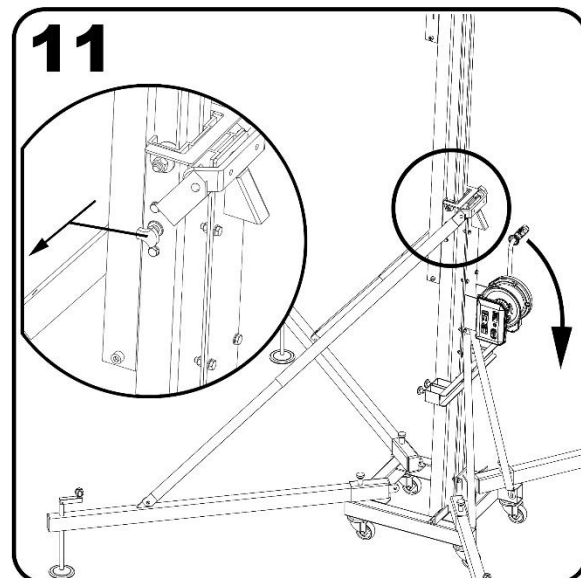


Figure 42

To descend the load: **Tense the cable and unlock the first security system.** Turn the winch while keeping the safety system unlocked with your other hand. If the safety system is not operated with one hand, the tower will lower until it is locked.

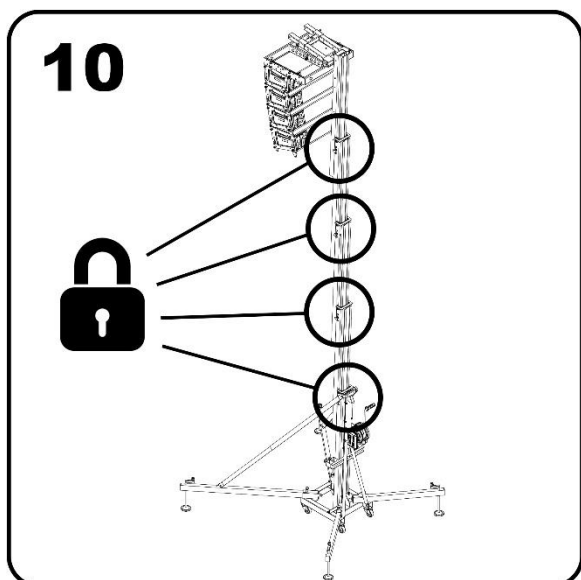


Figure 41

All security systems must be in locked position. Slack the cable of the winch so that the system can stabilize correctly.



**WARNING!** If the tower is attempted to go down without tension in the cable and any of the safety systems are activated, a dangerous situation will occur because the load will descend very abruptly, being able to destabilize the whole installation and incurring in a serious accident.

Once the load is descended, block all sections and follow steps 4 to 1 (in that order).

## LINE ARRAY ELEVATION IN STRUCTURAL MODE

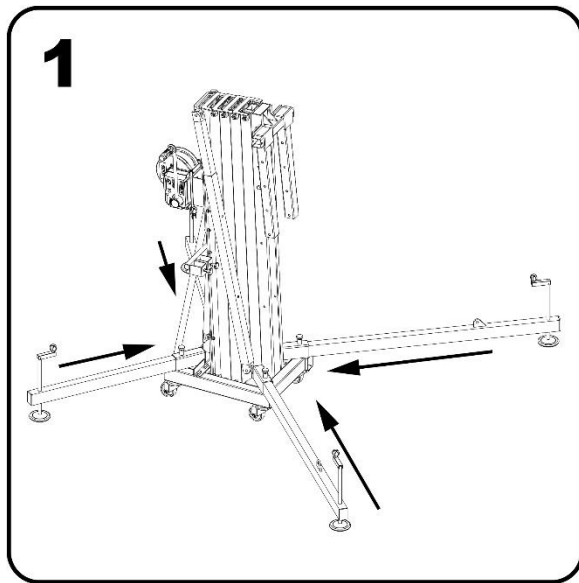


Figure 43

Fix and secure the stabilizer legs to the base.

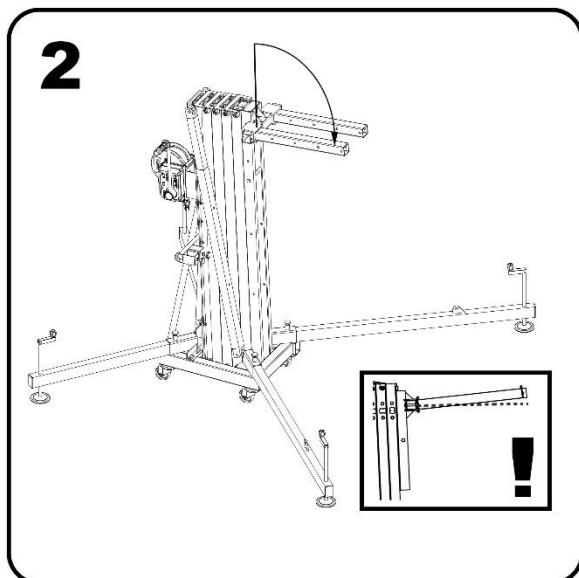


Figure 44

Turn the forks and adjust to the desired width.  
Ensure it with the pins.

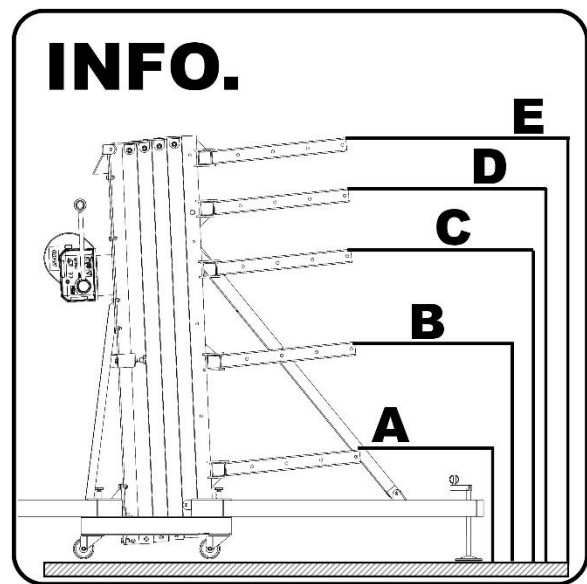


Figure 45

WTS towers have the option of changing the position of the carriage. Therefore, depending on the use, the load can be raised from different heights. The carriage can be rotated to obtain the required height.

| WTS | A   | B   | C    | D    | E    |
|-----|-----|-----|------|------|------|
| 256 | 435 | 695 | 1105 | 1315 | 1505 |
| 375 | 435 | 695 | 1105 | 1315 | 1505 |

Dimensions in mm.

Figure 46

| WTS | A     | B     | C    | D     | E     |
|-----|-------|-------|------|-------|-------|
| 256 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |
| 375 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |

Dimensions in inches.

Figure 47

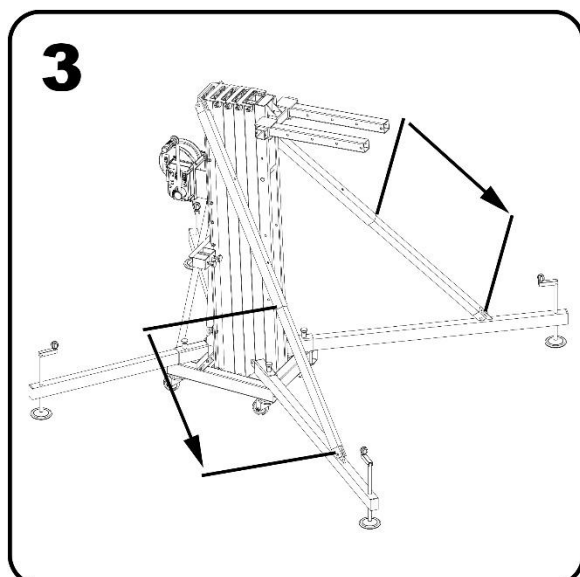


Figure 48

Place the reinforcement bars and fix them with its pins to the frontal legs.

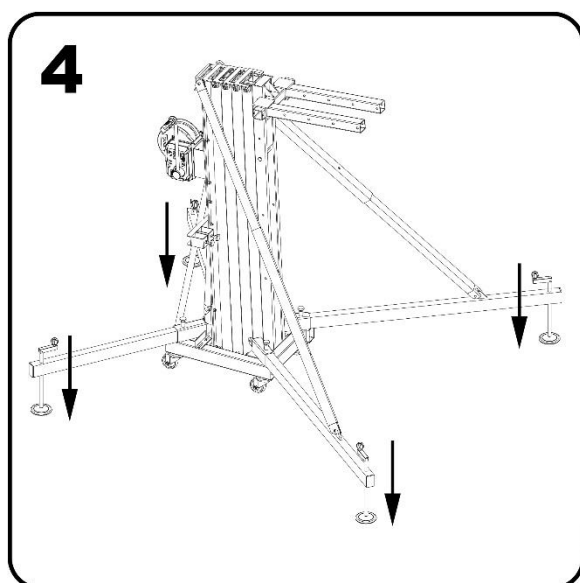


Figure 49

Place the tower in its working position and level until the bubble level is centered. Wheels should not get in contact with the ground

Calculate the load to be lifted with the tower. An example of basic load calculation is attached.

| ITEM                 | WEIGHT (kg) | QUANTITY | TOTAL (kg) |
|----------------------|-------------|----------|------------|
| Line array accessory | 5,5         | 1        | 5,5        |
| Bumper               | 35          | 1        | 35         |
| Loudspeakers         | 28          | 6        | 168        |
| Cables               | 30          | 1        | 30         |
|                      |             |          | 238,5      |

Figure 50

In this example we have obtained a weight of 238,5 kg.

With that load, see what position the load should have on the forks of the tower. Take into account that the inclination of the loudspeakers and the bumper should not lean against any part of the tower.



| WTS  | UNIT | AS STRUCTURE |      |      |      |      |
|------|------|--------------|------|------|------|------|
|      |      | P1           | P2   | P3   | P4   | P5   |
| 905  | lbs  | 1984         | 1653 | 1483 | 1336 |      |
|      | kg   | 900          | 750  | 680  | 606  |      |
| 1206 | lbs  | 2646         | 2425 | 2094 | 1808 | 1543 |
|      | kg   | 1200         | 1100 | 950  | 820  | 700  |
| 708  | lbs  | 1543         | 1367 | 1213 | 1047 | 882  |
|      | kg   | 700          | 620  | 550  | 475  | 400  |
| 506  | lbs  | 1124         | 882  | 772  | 661  |      |
|      | kg   | 510          | 400  | 350  | 300  |      |
| 256  | lbs  | 573          | 482  | 419  | 353  |      |
|      | kg   | 260          | 220  | 190  | 160  |      |
| 375  | lbs  | 838          | 705  | 573  | 507  |      |
|      | kg   | 380          | 320  | 260  | 230  |      |

Figure 51

Choose the WTS tower model. Check for the value immediately above the load you need. With this value, take the exact position to which the accessory for flying must be placed.

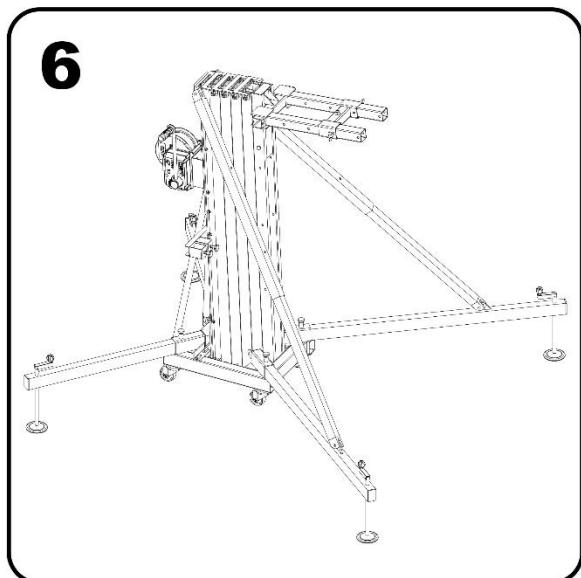


Figure 52

Place the accessory in the calculated position.

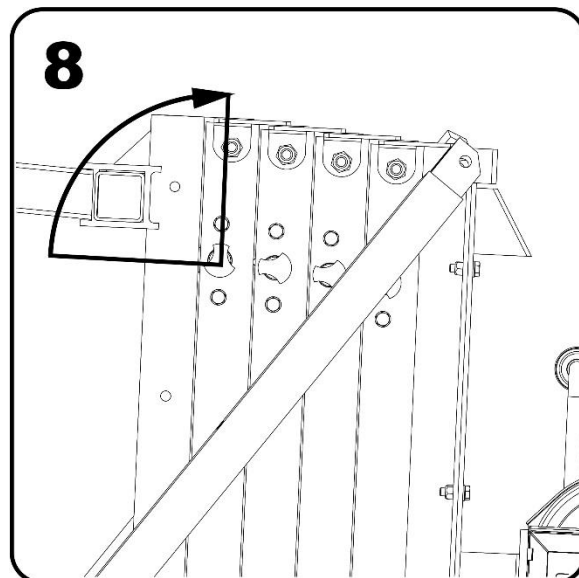


Figure 54

Unlock the mast safety system. Operate the handle of the winch to raise the load.

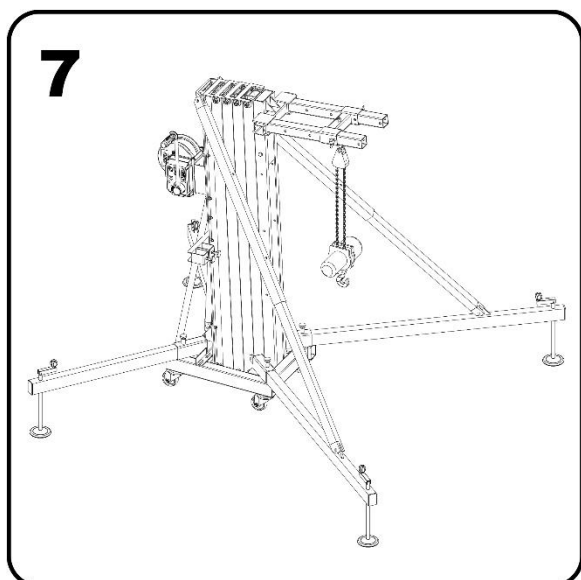


Figure 53

Hung the hoist on the tower support. The hoist must have a path equal to or greater than the maximum height of the tower.

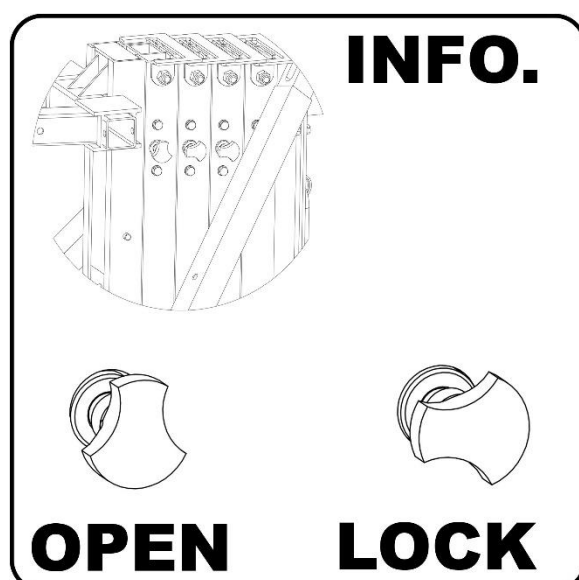


Figure 55

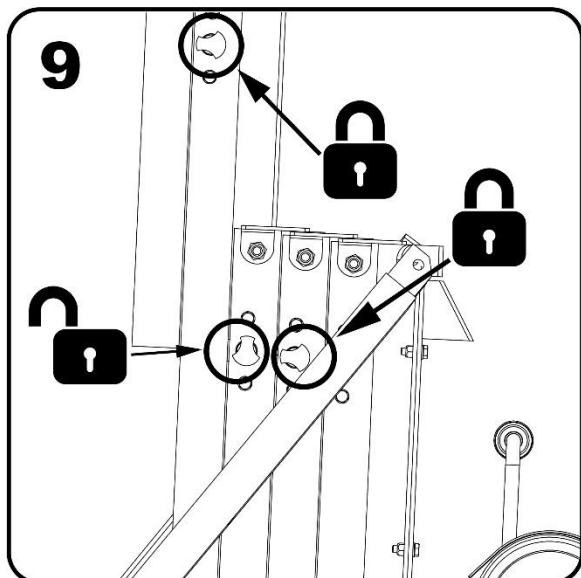


Figure 56

When the section reaches its end of path, lock with the safety system and unlock the next safety system to raise the next mast. Perform the same operation until you reach the required height.

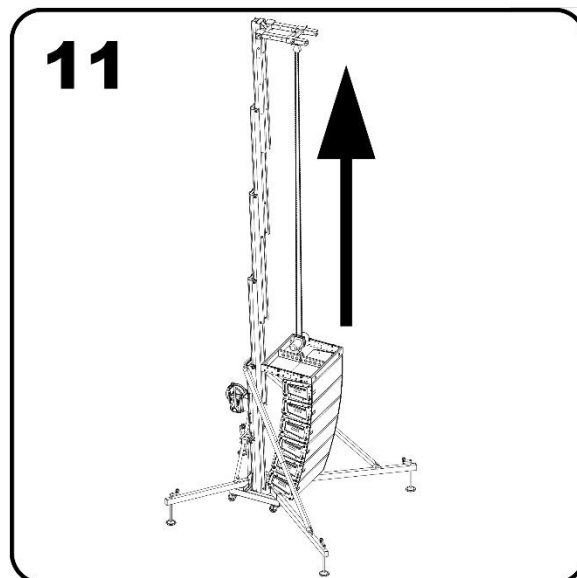


Figure 58

Raise the load with the hoist to the required height.

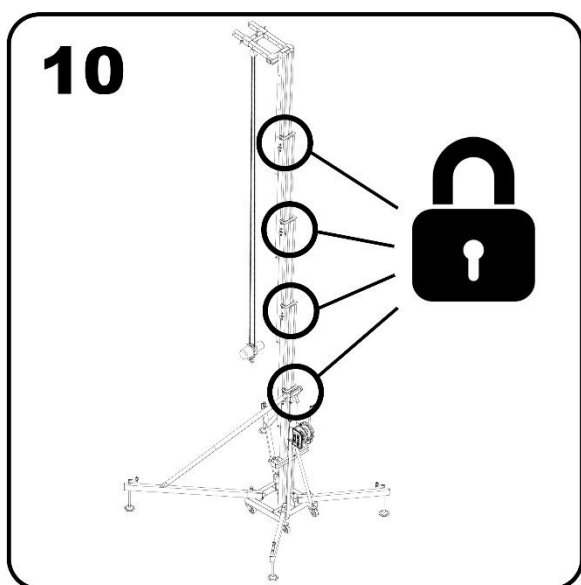


Figure 57

All security systems must be in locked position. Slacken the cable of the winch so that the system can stabilize correctly.

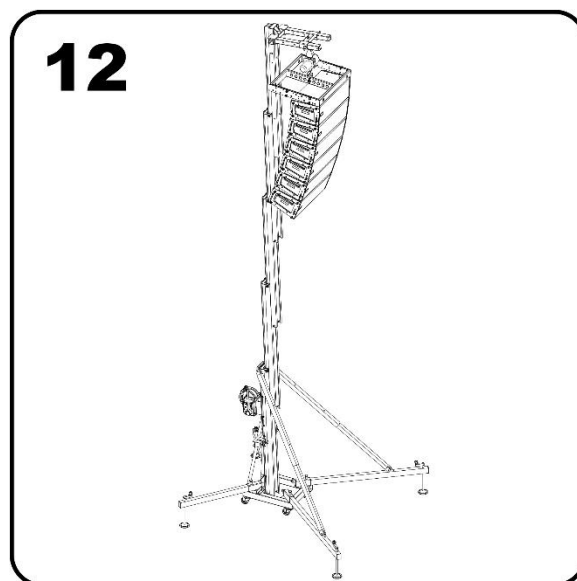


Figure 59

Take into account the space of the hoist. This dimension causes that the maximum height of the tower to be reduced.

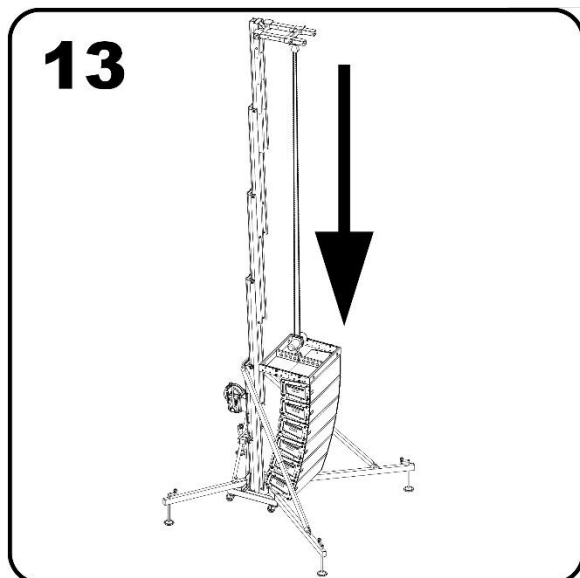


Figure 60

**To descend the load:** Descend the load with the hoist until it is just above the ground. The load should never be descended with the tower winch.



**WARNING!** If the tower is attempted to go down without tension in the cable and any of the safety systems are activated, a dangerous situation will occur because the load will descend very abruptly, being able to destabilize the whole installation and incurring in a serious accident.

Once the load is descended, block all sections and follow steps 4 to 1 (in that order).

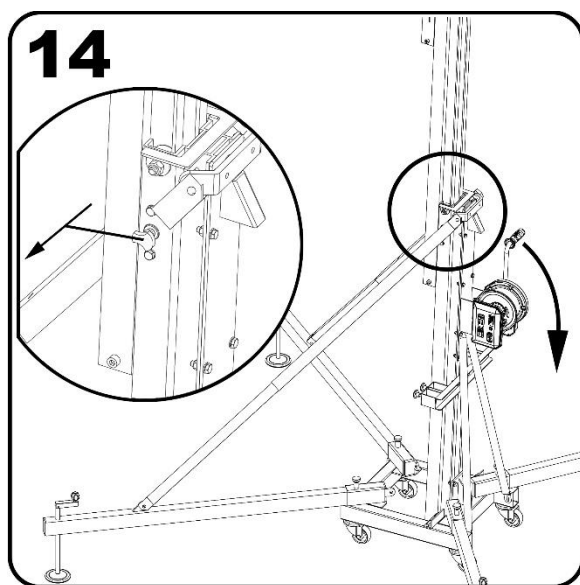


Figure 61

To descend the tower: **Tense the cable and unlock the first security system.** Turn the winch while keeping the safety system unlocked with your other hand. If the safety system is not operated with one hand, the tower will descend until it is locked.

## TRUSS SYSTEM ELEVATION IN MECHANISM MODE

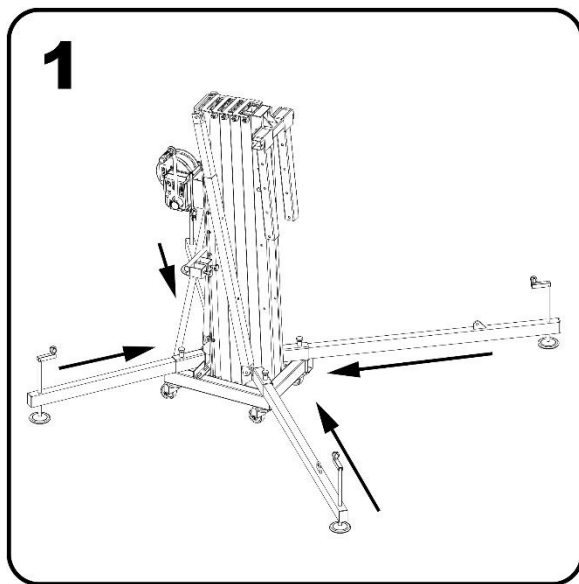


Figure 62

Fix and secure the stabilizer legs to the base.

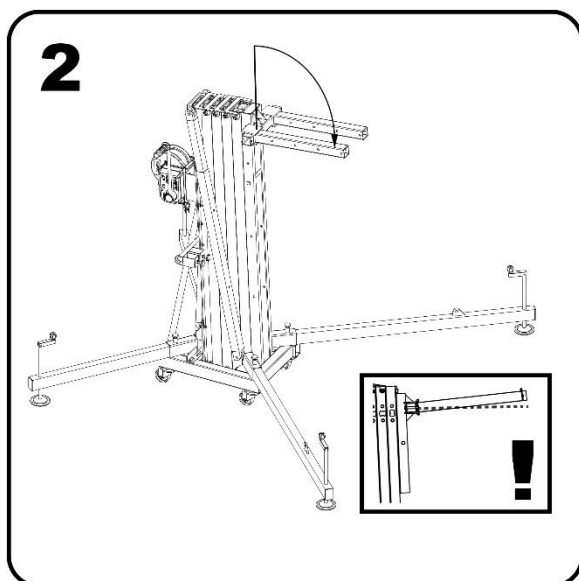


Figure 63

Turn the forks and adjust to the desired width. Ensure it with the pins.

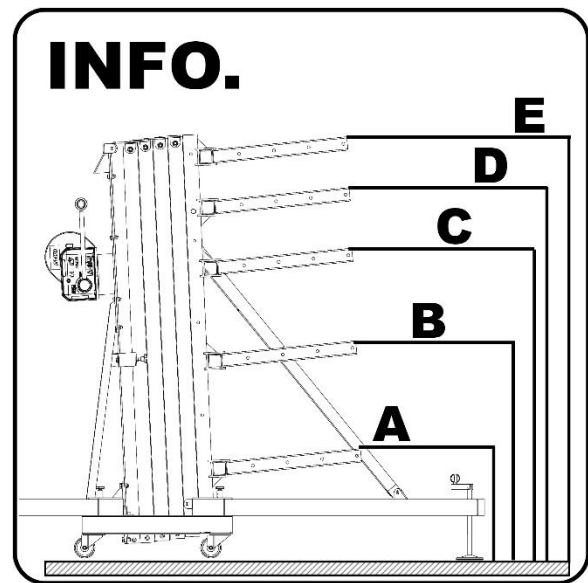


Figure 64

WTS towers have the option to change the position of the carriage. Therefore, depending on the use, the load can be raised from different heights. The carriage can be rotated to obtain the required height.

| WTS | A   | B   | C    | D    | E    |
|-----|-----|-----|------|------|------|
| 256 | 435 | 695 | 1105 | 1315 | 1505 |
| 375 | 435 | 695 | 1105 | 1315 | 1505 |

Dimensions in mm.

Figure 65

| WTS | A     | B     | C    | D     | E     |
|-----|-------|-------|------|-------|-------|
| 256 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |
| 375 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |

Dimensions in inches.

Figure 66

In case of using the tower in its positions A and B: Raise the load until reaching the position C and then follow steps from 3 onwards.

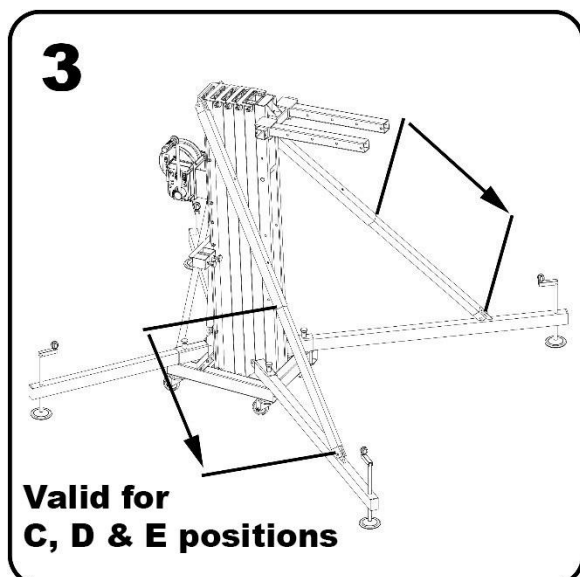


Figure 67

Place the reinforcement bars and fix them with its pins to frontal legs.

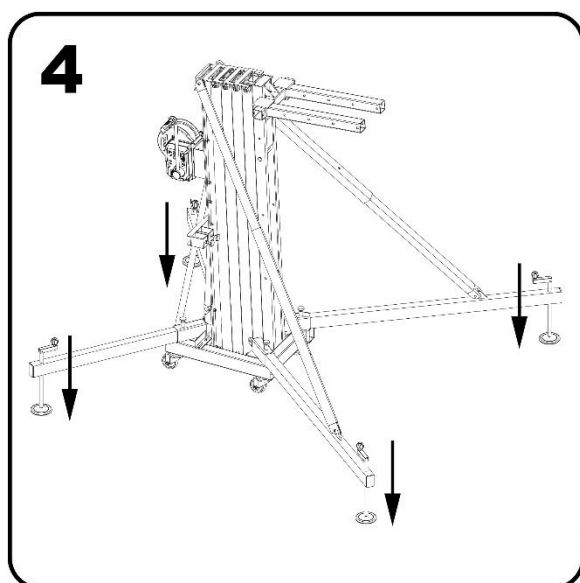


Figure 68

Place the tower in its working position and level until the bubble level is centered. Wheels should not get in contact with the ground

Calculate the load to be lifted with the tower. An example of basic load calculation is attached.

| ITEM                  | WEIGHT (kg) | QUANTITY | TOTAL (kg) |
|-----------------------|-------------|----------|------------|
| Truss accessory       | 0,75        | 2        | 1,5        |
| Complete truss system | 53,3        | 0,5      | 26,65      |
| Loads                 | 368         | 0,5      | 184        |
| Cables                | 38          | 0,5      | 19         |
|                       |             |          | 231,15     |

Figure 69

In this example we have a weight of 231,15 kg.

With that load, check what position the load should have on the tower fork. Take into account that the truss is supported by two points of the fork. To find out which is the largest load, take the farthest position from the base of the fork.



| WTS  | UNIT | AS MECHANISM |      |      |      |      |
|------|------|--------------|------|------|------|------|
|      |      | P1           | P2   | P3   | P4   | P5   |
| 905  | lbs  | 992          | 970  | 938  | 895  |      |
|      | kg   | 450          | 440  | 410  | 406  |      |
| 1206 | lbs  | 1213         | 1168 | 1146 | 1124 | 1080 |
|      | kg   | 550          | 530  | 510  | 510  | 490  |
| 708  | lbs  | 992          | 970  | 948  | 926  | 882  |
|      | kg   | 450          | 440  | 430  | 420  | 400  |
| 506  | lbs  | 1124         | 882  | 772  | 661  |      |
|      | kg   | 510          | 400  | 350  | 300  |      |
| 256  | lbs  | 573          | 482  | 419  | 353  |      |
|      | kg   | 260          | 220  | 190  | 160  |      |
| 375  | lbs  | 772          | 639  | 529  | 507  |      |
|      | kg   | 350          | 290  | 240  | 230  |      |

Figure 70

Choose the WTS tower model. Check for the value immediately above the load you need. With this value, take the exact position to which the accessory for fixing the truss must be placed.

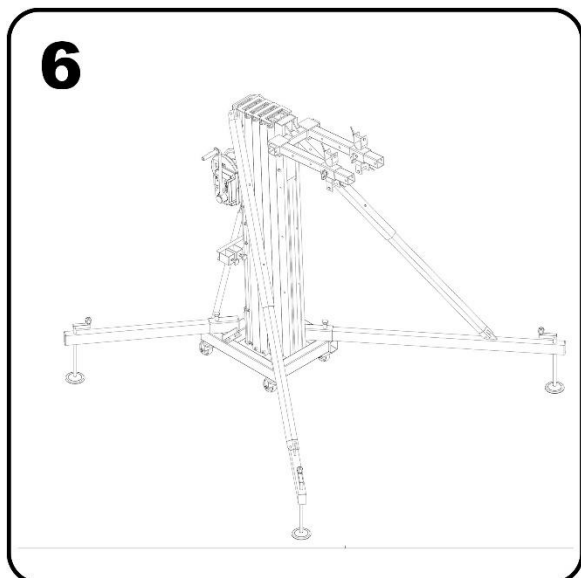


Figure 71

Place the accessory in the calculated position.

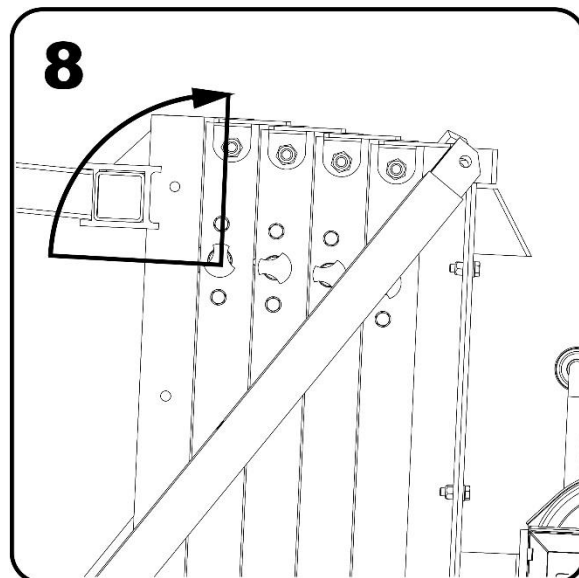


Figure 73

Unlock the mast safety system. Operate the winch handle to raise the load.

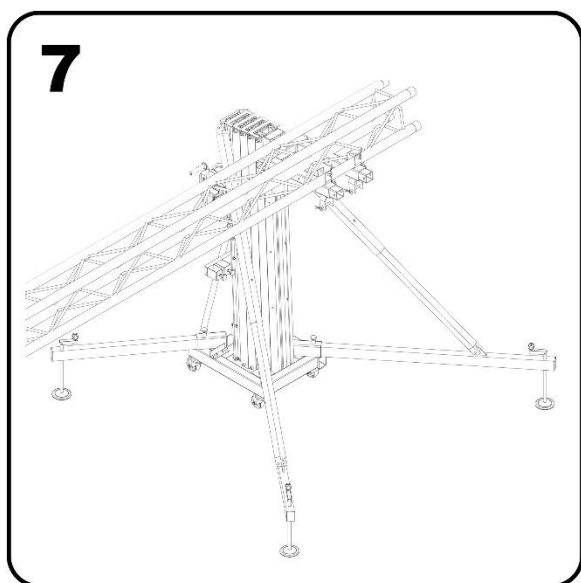


Figure 72

Join the truss system to the tower.

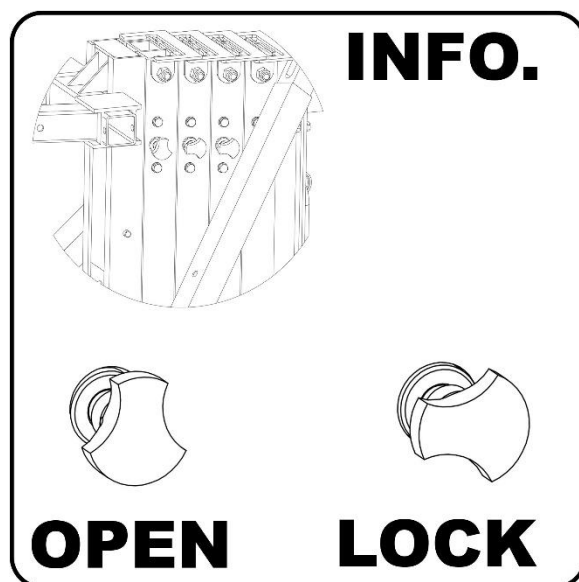


Figure 74

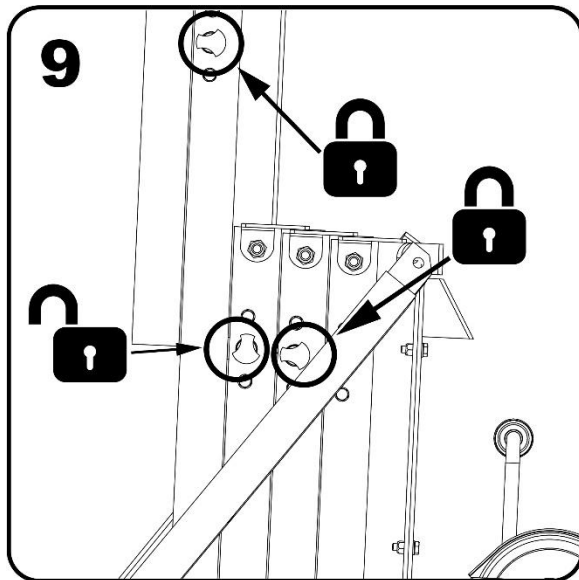


Figure 75

When the section reaches its end of path, lock with the safety system and unlock the next safety system to raise the next mast. Perform the same operation until you reach the required height.

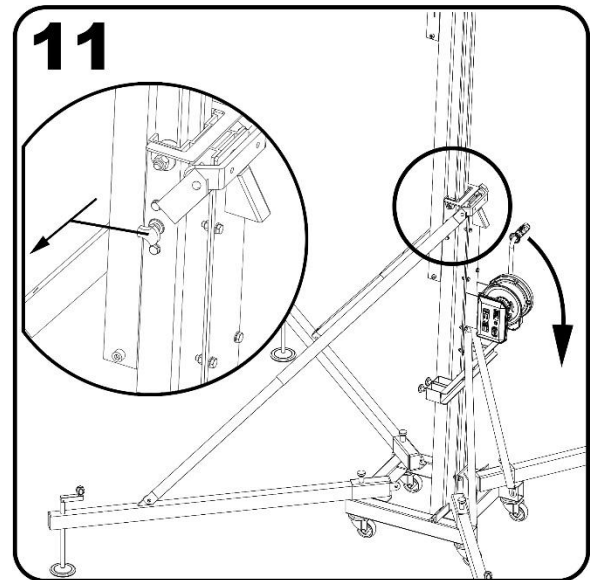


Figure 77

To descend the load: **Tense the cable and unlock the first security system.** Turn the winch while keeping the safety system unlocked with your other hand. If the safety system is not operated with one hand, the tower will descend until it is locked.

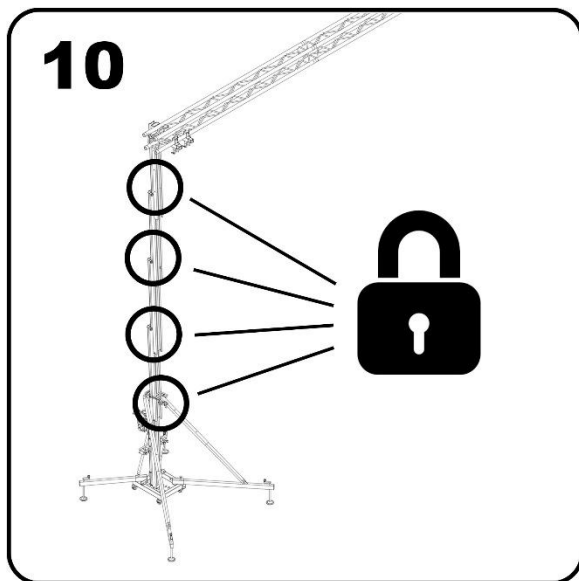


Figure 76

All safety systems must be in their locked position. Slack the cable from the winch so that the system is seated.

**WARNING!** The rate of rise and descend should be similar. If the structure rises or descends faster at one end, a destabilization of the entire facility can occur, causing a serious accident.



**WARNING!** If the tower is attempted to go down without tension in the cable and any of the safety systems are activated, a dangerous situation will occur because the load will descend very abruptly, being able to destabilize the whole installation and incurring in a serious accident.

Once the load is descended, block all sections and follow steps 4 to 1.

# TRUSS SYSTEM ELEVATION IN STRUCTURAL MODE

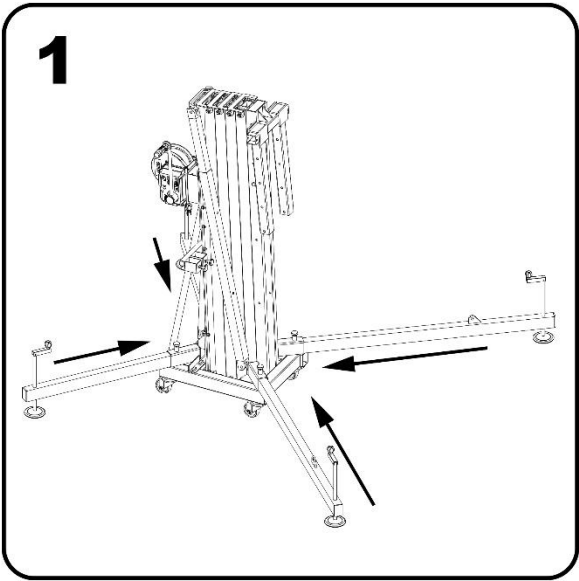


Figure 78

Fix and secure the stabilizer legs to the base.

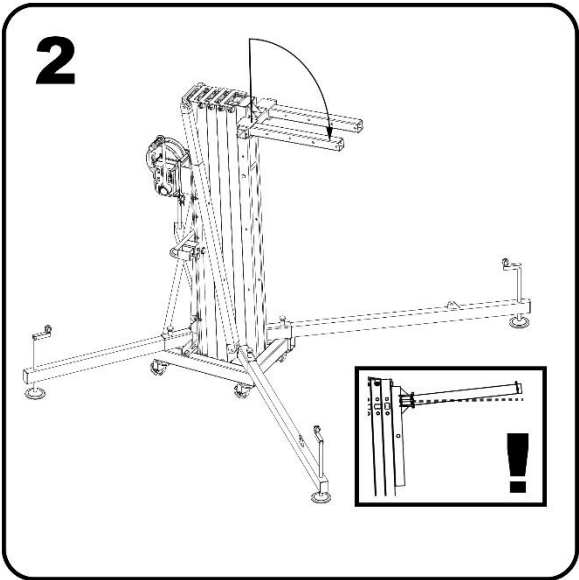


Figure 79

Turn the forks and adjust to the desired width. Ensure it with the pins.

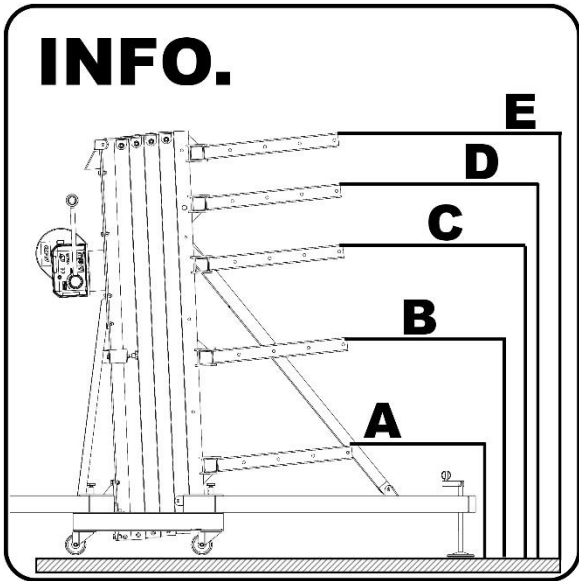


Figure 80

WTS towers have the option to change the position of the carriage. Therefore, depending on the use, the load can be raised from different heights. The carriage can be rotated to obtain the required height.

| WTS | A   | B   | C    | D    | E    |
|-----|-----|-----|------|------|------|
| 256 | 435 | 695 | 1105 | 1315 | 1505 |
| 375 | 435 | 695 | 1105 | 1315 | 1505 |

Dimensions in mm.

Figure 81

| WTS | A     | B     | C    | D     | E     |
|-----|-------|-------|------|-------|-------|
| 256 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |
| 375 | 17,13 | 27,36 | 43,5 | 51,77 | 59,25 |

Dimensions in inches.

Figure 82

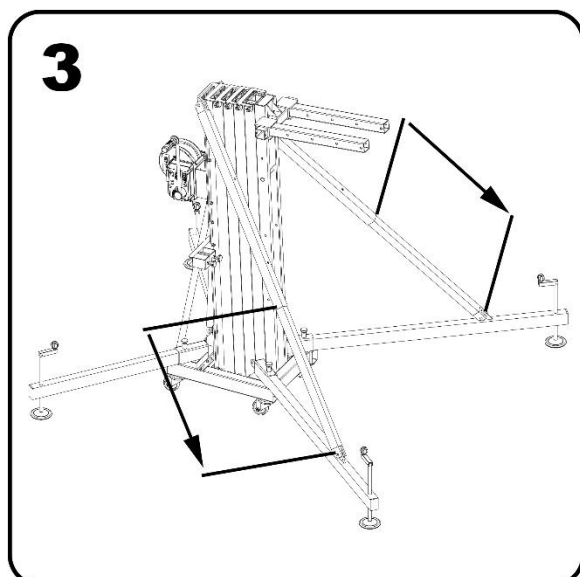


Figure 83

Place the reinforcement bars and fix them with its pins to the frontal legs.

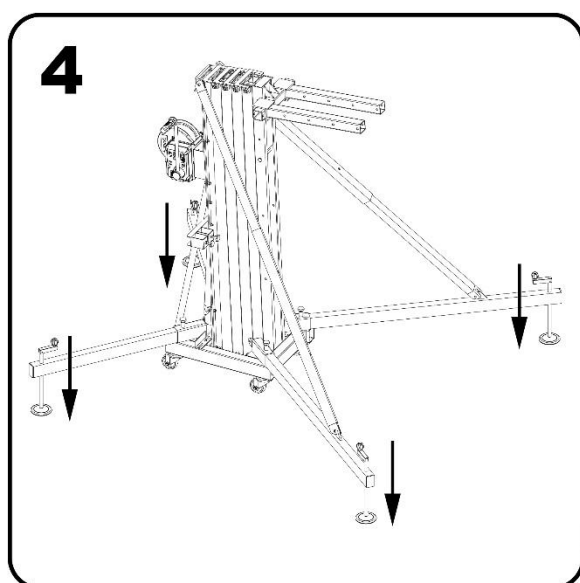


Figure 84

Place the tower in its working position and level until the bubble level is centered. Wheels should not get in contact with the ground.

Calculate the load to be lifted with the tower. An example of basic load calculation is attached.

| ITEM                  | WEIGHT (kg) | QUANTITY | TOTAL (kg) |
|-----------------------|-------------|----------|------------|
| Truss accessory       | 0,75        | 2        | 1,5        |
| Complete truss system | 53,3        | 0,5      | 26,65      |
| Loads                 | 368         | 0,5      | 184        |
| Cables                | 38          | 0,5      | 19         |
|                       |             |          | 231,15     |

Figure 85

In this example we have a weight of 231.15 kg.

With that load, see what position the load should have on the tower fork. Take in account that the truss is supported by two points of the fork. To find out which is the largest load, take the position farthest from the base of the fork.

5

➔

| WTS  | UNIT | AS STRUCTURE |      |      |      |      |
|------|------|--------------|------|------|------|------|
|      |      | P1           | P2   | P3   | P4   | P5   |
| 905  | lbs  | 1934         | 1653 | 1433 | 1336 |      |
|      | kg   | 900          | 750  | 650  | 606  |      |
| 1206 | lbs  | 2646         | 2425 | 2094 | 1808 | 1543 |
|      | kg   | 1200         | 1100 | 950  | 820  | 700  |
| 708  | lbs  | 1543         | 1367 | 1213 | 1047 | 882  |
|      | kg   | 700          | 620  | 550  | 475  | 400  |
| 506  | lbs  | 1124         | 882  | 772  | 661  |      |
|      | kg   | 510          | 400  | 350  | 300  |      |
| 256  | lbs  | 573          | 482  | 419  | 353  |      |
|      | kg   | 260          | 220  | 190  | 160  |      |
| 375  | lbs  | 838          | 705  | 573  | 507  |      |
|      | kg   | 380          | 320  | 260  | 230  |      |

Figure 86

Choose the WTS tower model. Check for the value immediately above the load you need. With this value, take the exact position to which the accessory for fixing the truss must be placed.

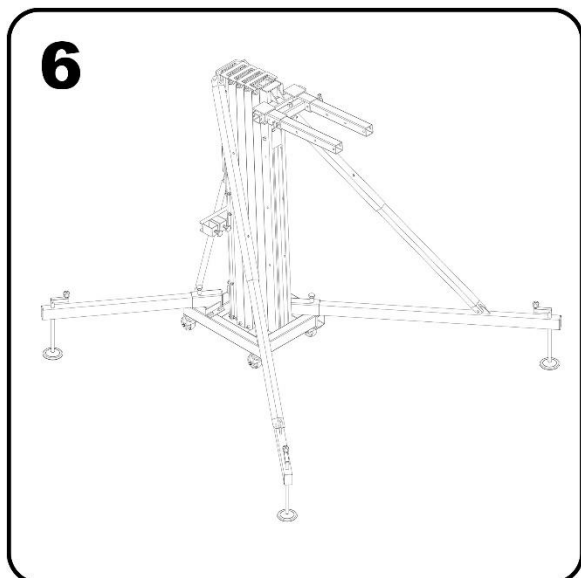


Figure 87

Place the accessory in the calculated position.

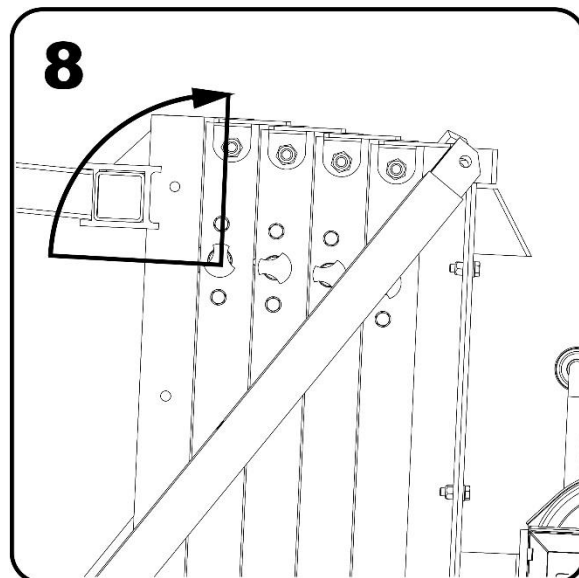


Figure 89

Unlock the mast safety system. Operate the winch handle to raise the load.

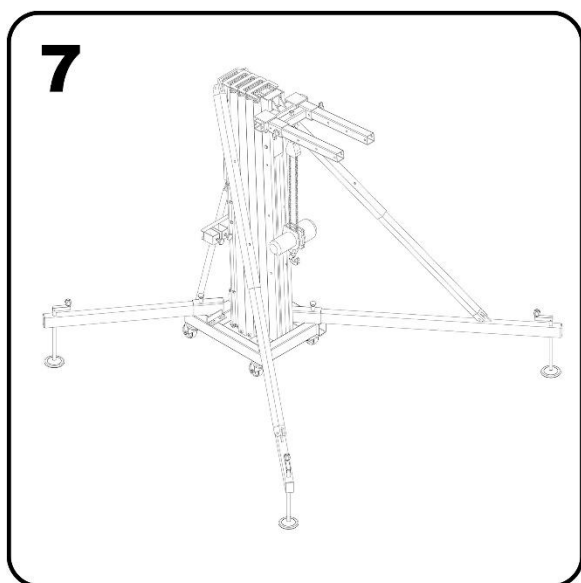


Figure 88

Join the truss system to the tower.

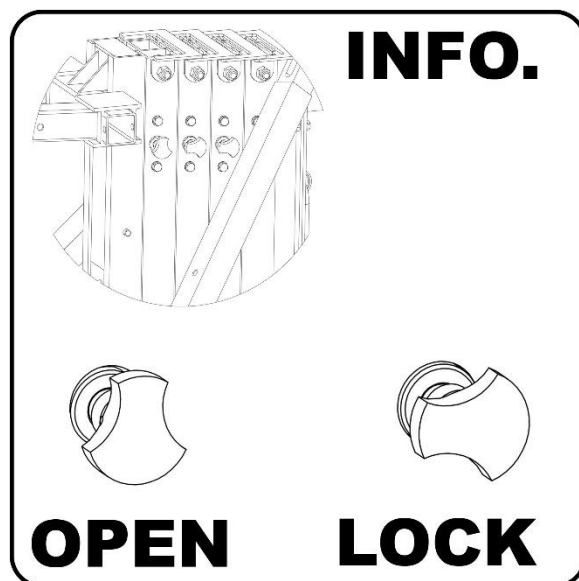


Figure 90

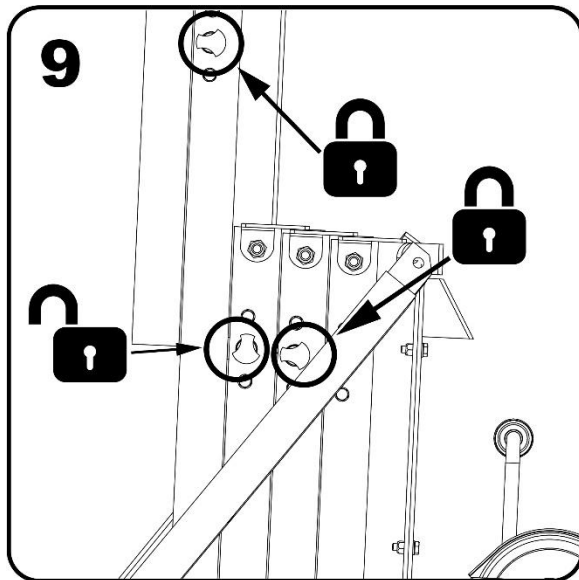


Figure 91

When the section reaches its end of path, lock with the safety system and unlock the next safety system to raise the next mast. Perform the same operation until you reach the required height.

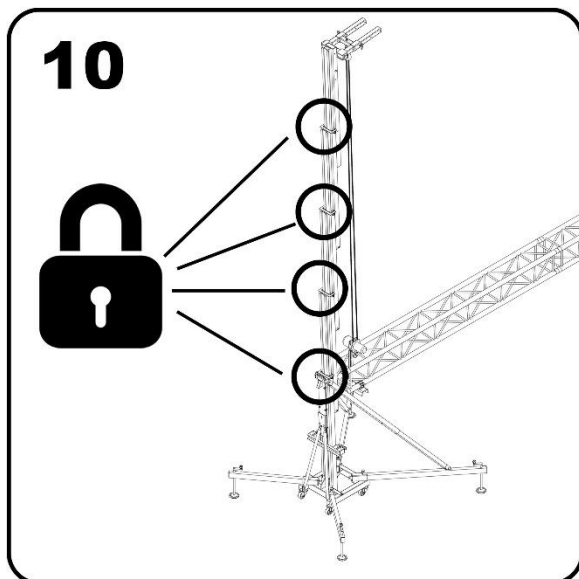


Figure 92

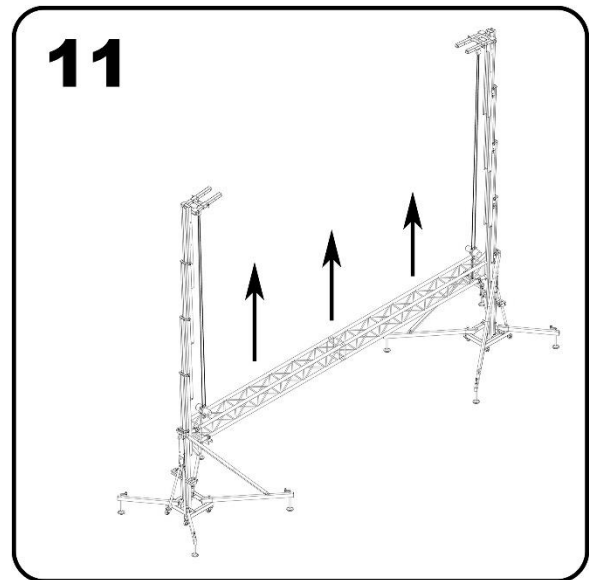


Figure 93

All safety systems must be in their locked position. Slack the cable from the winch so that the system is seated.



**WARNING!** The rate of rise and descend should be similar. If the structure rises or descend faster at one end, a destabilization of the entire facility can occur, causing a serious accident.

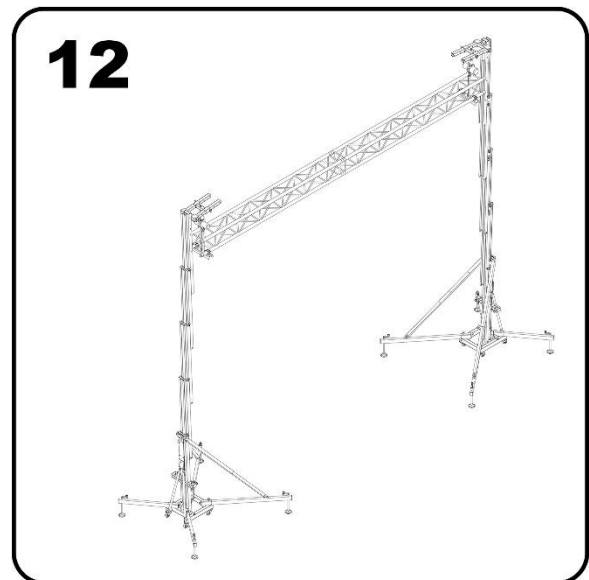


Figure 94

To descend the load: **Tense the cable and unlock the first security system.** Turn the winch while keeping the safety system unlocked with your other hand. If the safety system is not operated

with one hand, the tower will descend until it is locked.

Once the load is descended, block all sections and follow steps 4 to 1 (in that order).

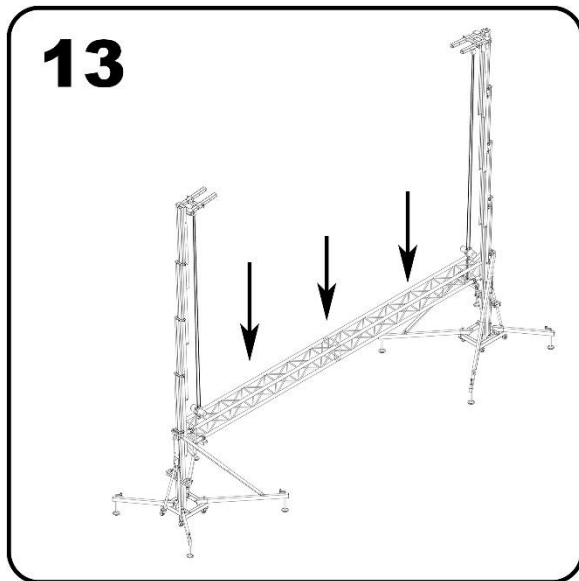


Figure 95

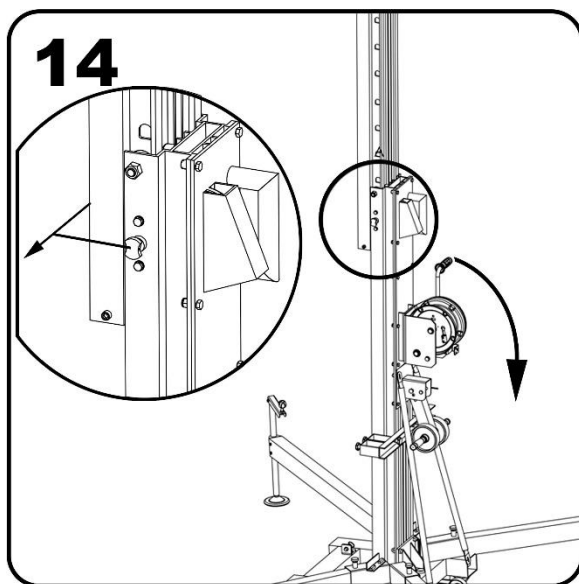


Figure 96



**WARNING!** If the tower is attempted to go down without tension in the cable and any of the safety systems are activated, a dangerous situation will occur because the load will descend very abruptly,

being able to destabilize the whole installation and incurring in a serious accident.

## USING THE TOWER IN STRUCTURAL MODE (WIND CONDITION)

The towers used in the structural mode form a column type system that can withstand higher loads than the mechanism mode.

In order to be able to use the towers outdoors and subjected to bursts of wind, you should contact an engineer in the area or our technical department to study the case

In outdoor use many factors must be taken into account, the most important are:

- Wind gusts
- Total exposed area
- Working height
- Angle of the braces
- Weights and distance to the tower
- Rigging of all joints
- Etc ...

As an operating guide, the towers involved in this manual can be used outdoors as long as they are in structural mode and the maximum loads are those of the mechanism mode.

This is because the loads transmitted by the winds are transmitted vertically from the tower to the ground, adding an overload that depends on several factors. This overload is added to the maximum load of the tower.

**If it is not calculated in each specific case of use, it is possible to take as base the data contained in the load chart (figure 105) operating the tower as mechanism for security purposes.**

## STANDARDS TAKEN INTO ACCOUNT

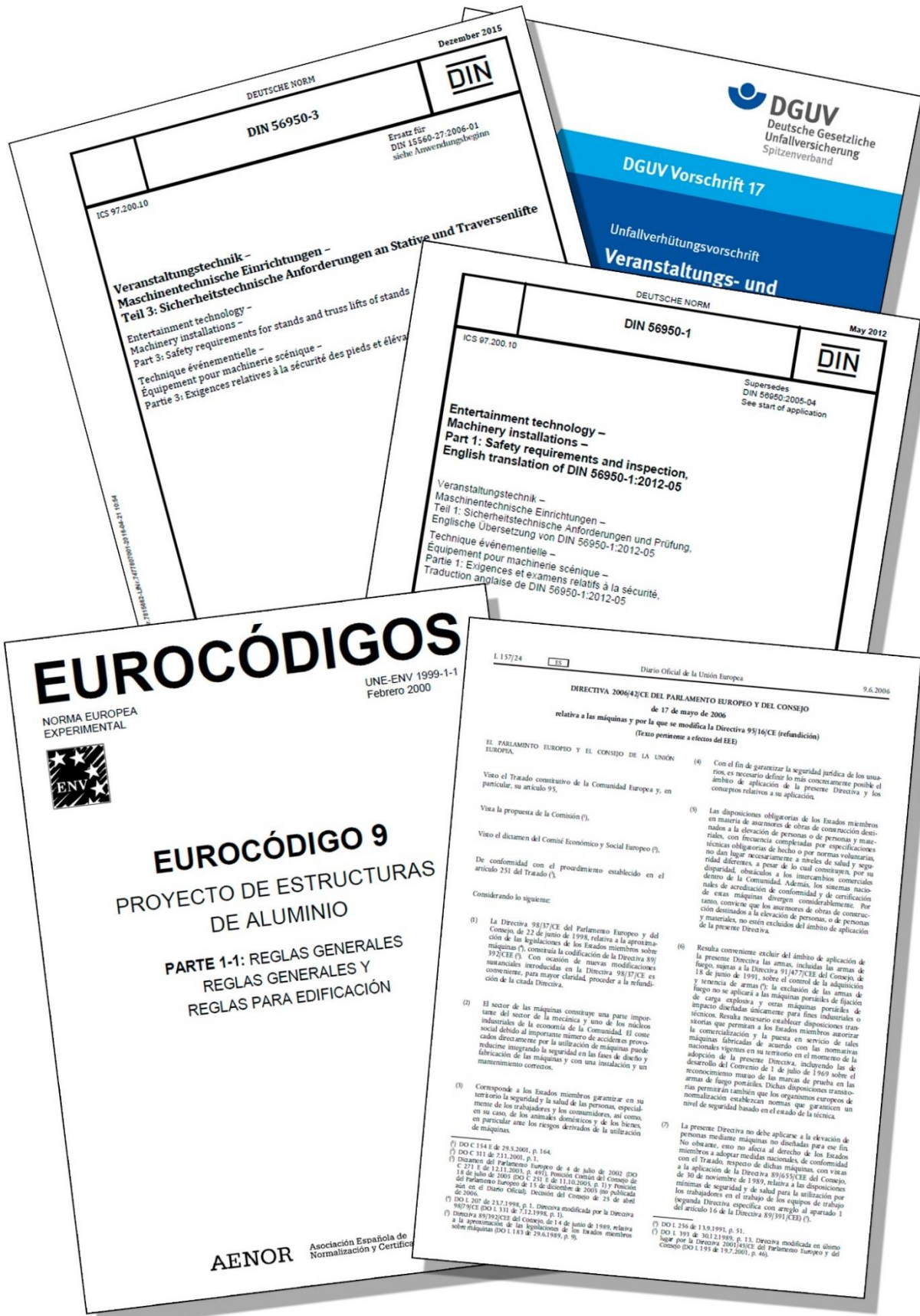


Figure 97

## PLACING THE LOAD

1. Determine the position where the load will be placed and consult the tower capacity. Never exceed it.
2. The "X" distance between the load is taken from the carriage to the end of the horns.
3. When possible, place the load as close to the carriage as possible. This prolongs the life of the tower.

| TOWER                    | X in P1<br>(mm / inch) | X in P2<br>(mm / inch) | X in P3<br>(mm / inch) | X in P4<br>(mm / inch) | X in P5<br>(mm / inch) |
|--------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| WTS 1206/DY              | 85                     | 270                    | 450                    | 635                    | 820                    |
| WTS 905/DY<br>WTS 708/DY | 3.34                   | 10.63                  | 17.72                  | 25                     | 32.33                  |
| WTS 506/DY               | 100                    | 260                    | 425                    | 580                    |                        |
|                          | 3.93                   | 10.23                  | 16.73                  | 22.83                  |                        |
| WTS 375/DY               | 95                     | 225                    | 355                    | 485                    |                        |
| WTS 256/DY               | 3.74                   | 8.85                   | 13.97                  | 19.1                   |                        |

Figure 98

*Detail of the position of all points of load.*

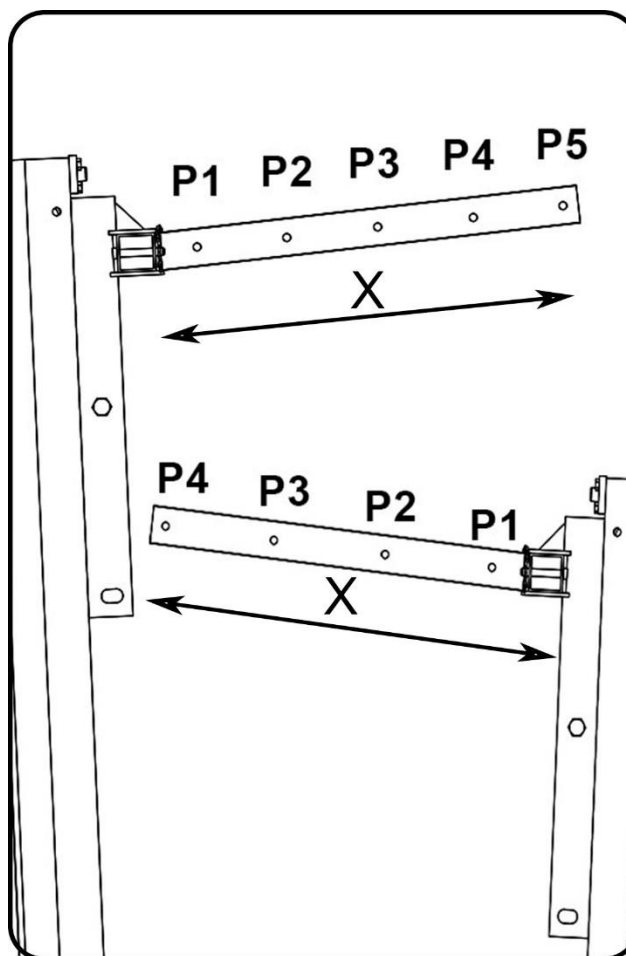


Figure 99

*Detail of load positions.*

## LOAD CHART

The maximum loads supported by each tower model, for its maximum working height, can be consulted below:

### USING THE TOWER AS MECHANISM.

The tower behaves like a machine when lifting a load making use of the winch as a lifting element. In this case all the parts of the tower behave like a mechanism that uses pulleys, cables and guides to be able to execute the elevation of a load at a certain height.

### USING THE TOWER AS STRUCTURE.

The tower behaves like a structure when all the sections are blocked in such a way that the cable is without tension. In this case the locking system together with the profiles, base and legs act as a support column from which loads can be hung using some support elements such as manual or electric hoists.

| WTS  | UNIT | AS MECHANISM |      |      |      |      | AS STRUCTURE |      |      |      |      |
|------|------|--------------|------|------|------|------|--------------|------|------|------|------|
|      |      | P1           | P2   | P3   | P4   | P5   | P1           | P2   | P3   | P4   | P5   |
| 905  | lbs  | 992          | 970  | 926  | 895  |      | 1984         | 1653 | 1433 | 1336 |      |
|      | kg   | 450          | 440  | 420  | 406  |      | 900          | 750  | 650  | 606  |      |
| 1206 | lbs  | 1213         | 1168 | 1146 | 1124 | 1080 | 2646         | 2425 | 2094 | 1808 | 1543 |
|      | kg   | 550          | 530  | 520  | 510  | 490  | 1200         | 1100 | 950  | 820  | 700  |
| 708  | lbs  | 992          | 970  | 948  | 926  | 882  | 1543         | 1367 | 1213 | 1047 | 882  |
|      | kg   | 450          | 440  | 430  | 420  | 400  | 700          | 620  | 550  | 475  | 400  |
| 506  | lbs  | 1124         | 882  | 772  | 661  |      | 1124         | 882  | 772  | 661  |      |
|      | kg   | 510          | 400  | 350  | 300  |      | 510          | 400  | 350  | 300  |      |
| 256  | lbs  | 551          | 482  | 419  | 353  |      | 573          | 482  | 419  | 353  |      |
|      | kg   | 250          | 220  | 190  | 160  |      | 260          | 220  | 190  | 160  |      |
| 375  | lbs  | 772          | 639  | 529  | 507  |      | 838          | 705  | 573  | 507  |      |
|      | kg   | 350          | 290  | 240  | 230  |      | 380          | 320  | 260  | 230  |      |

Figure 100

## GROUND COMPACTION DEGREE

Surfaces such as hard ground or gravel can vary in strength depending on the relative humidity. This relative humidity varies throughout the day, so the resistance of the ground to absorb the stress of the tower loaded also varies. Positioning a tower in these conditions can result in the ground falling under the tower supports, being able to cause a serious accident.

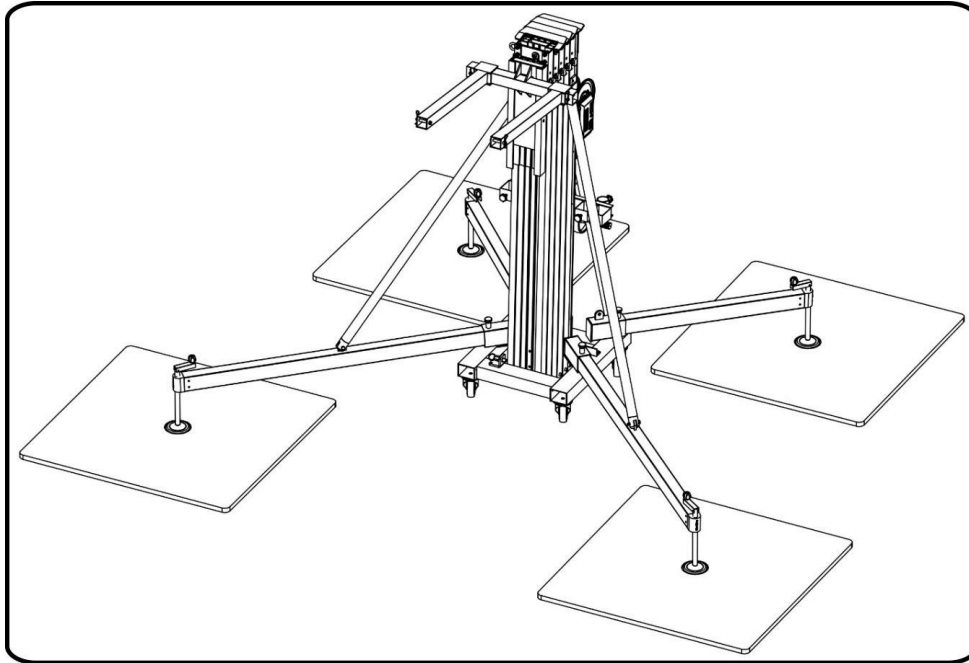


Figure 101

*Detail of plates place. Support must be centered with respect to the plate.*

To avoid this, it is advisable to put bases in the support, to facilitate uniform distribution on the ground, expanding the contact surface of each support. The following table lists the minimum area of these surfaces.

| WTS TOWER<br>MODEL | Side length of the plate in meters, and kg/m <sup>2</sup> that can support the ground. |                       |                       |
|--------------------|----------------------------------------------------------------------------------------|-----------------------|-----------------------|
|                    | 150 kg/m <sup>2</sup>                                                                  | 250 kg/m <sup>2</sup> | 350 kg/m <sup>2</sup> |
| WTS 905/DY         | 1,4                                                                                    | 1                     | 0,9                   |
| WTS 1206/DY        | 1,5                                                                                    | 1,2                   | 1                     |
| WTS 708/DY         | 1,3                                                                                    | 1                     | 0,8                   |
| WTS 506/DY         | 1,1                                                                                    | 0,8                   | 0,7                   |
| WTS 256/DY         | 0,8                                                                                    | 0,6                   | 0,5                   |
| WTS 375/DY         | 0,9                                                                                    | 0,7                   | 0,6                   |

Figure 102

## DYNSYS SYSTEM



The lifters that incorporate the DYNSYS system are named as WTS xxx DY:

- **WTS 256 DY** - **WTS 375 DY** - **WTS 506 DY** - **WTS 905 DY** - **WTS 708 DY** - **WTS 1206 DY**

### EXPLANATION

DYNSYS system is a solution for the control of the maximum load in lifting systems.

DYNSYS limits the maximum load of the tower avoiding raising a higher load than the specified when the tower is used as mechanism. For more information about the maximum load, consult the load chart.

In case of raising a load higher than the maximum, DYNSYS detects the increase in load and prevents it from being raised, allowing only the descent of the load.

DYNSYS system works as a preventive maintenance element. In case the tower has some internal damage and forces the system to operate in a forced manner, DYNSYS system will limit its use, preventing that the internal components (cable, pulleys, profiles, etc. ...) may deteriorate further. If this happens, contact the technical department or your nearest distributor.

The system allows the disassembly of the crank, thus allowing the blocking of the tower. In this way it is avoided that personnel outside the installation can manipulate the tower by raising or lowering it. Only the two Allen screws should be removed.

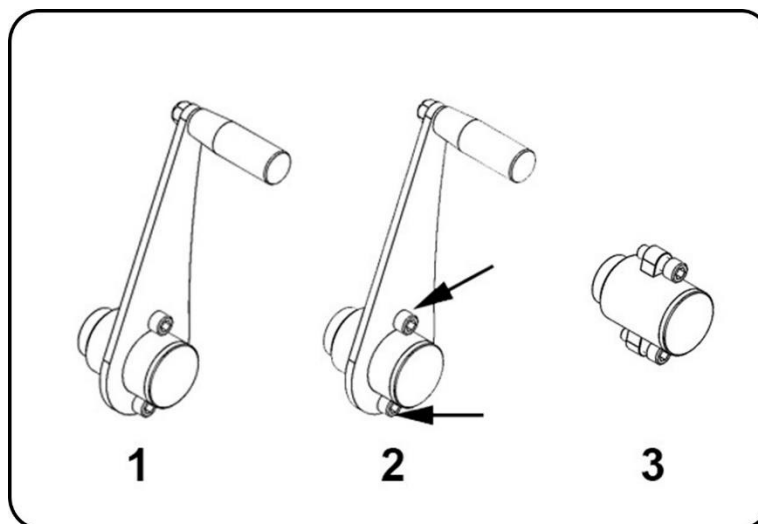


Figure 103

The system has several elements working in a coordinated manner. On the one hand, the most external aluminum profile has a special machining to house the safety pin, and the iron carriage has the mechanics of overload detection and a status marker.

Finally, the original handle of the winch is replaced by a specific one for the **DYNSYS** system.

## OPERATING

### NORMAL OPERATION, WITHOUT OVERLOAD

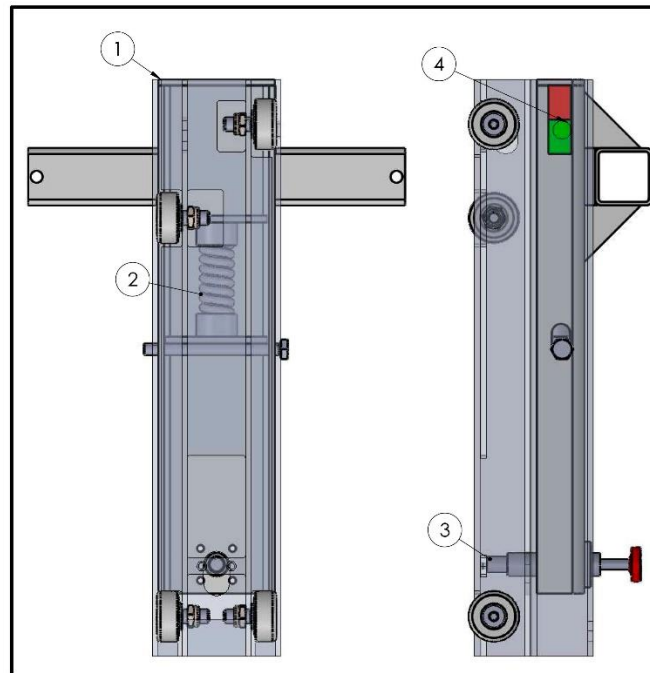


Figure 104

Under these conditions, the tower raises the coupled load and no vertical displacement occurs in the carriage **(1)** so that the inner spring **(2)** does not compress and the safety pin **(3)** does not act. The winch handle allows the user to raise or lower the load with ease and the window of the status marker **(4)** shows the color **GREEN**.

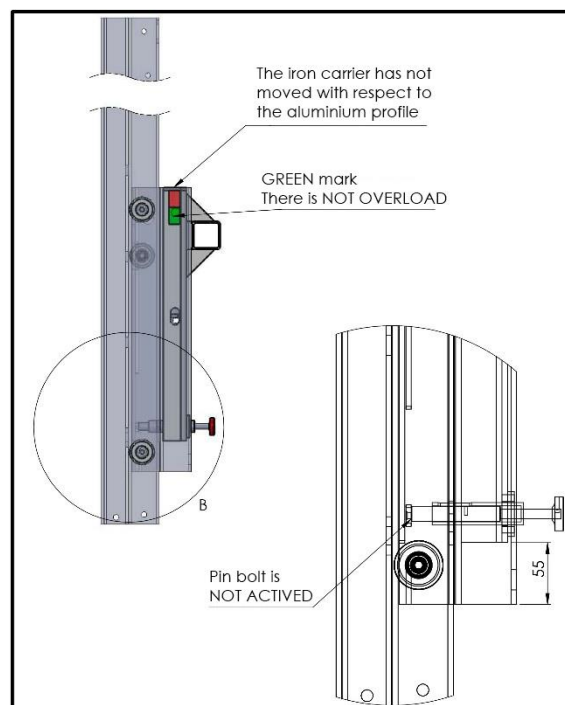


Figure 105

## OPERATION WITH OVERLOAD

In the event that the tower has to raise a load higher than the one marked in features, the tower would enter overload mode. Under these conditions, the following occurs:

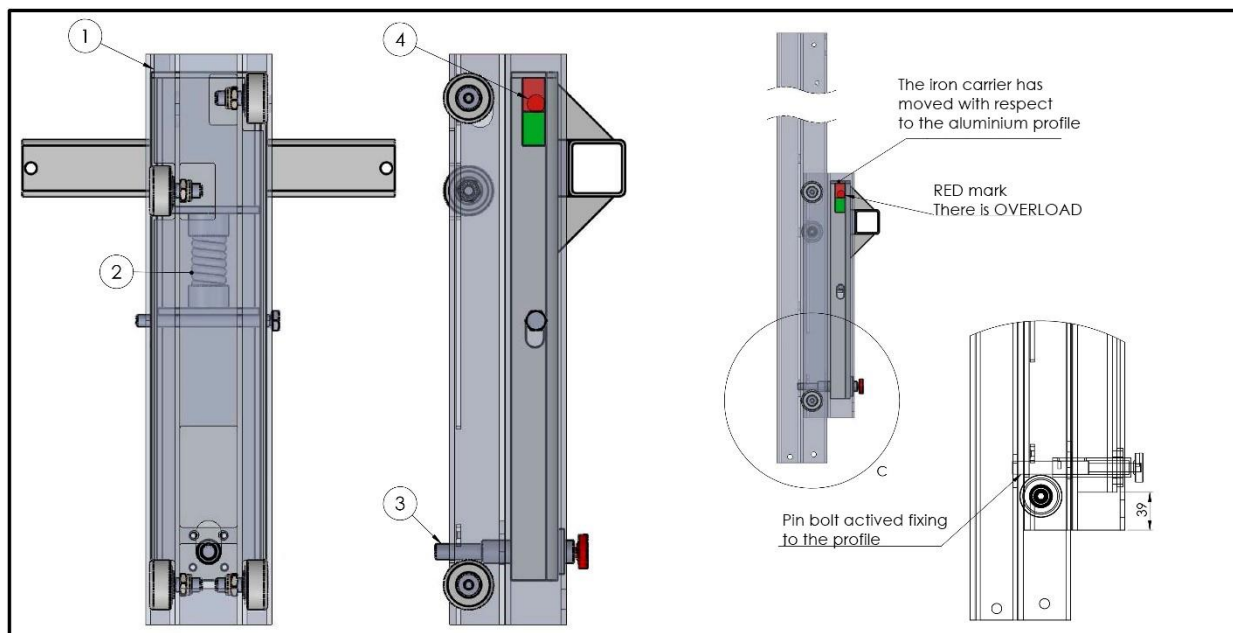


Figure 106

- There is a more pronounced vertical displacement in the iron carriage **(1)**.
- The internal spring **(2)** shrinks due to this additional pressure.
- The safety pin **(3)** is released from its resting position and entered the first free hole found in the aluminum profile, blocking the tower and preventing any attempt to raise the load.
- In the same way, the own characteristics of the exclusive **DYNSYS** handle prevents to force the winch.
- The status dial window **(4)** shows the **RED** color of overload.

To get out of this state of overload, it is necessary to lower the load and adjust it to the weight supported by the tower.

To do this, pull the safety pin **(3)** to release it and, keeping it, turn the hand winch handle to lower the load. Throughout this process, the spring **(2)**, will be relaxed by reducing the pressure exerted on it and the iron car will go back to the initial position. At the end of the descent of the load, you can release the safety pin that will remain in its resting position.

## DYNAMIC OVERLAP



Thanks to the continuous development of new solutions for the lifting towers, Work Lifters has developed and patented an innovative solution that increases the resistance of the towers and reduces their deflection. **Dynamic Overlap** makes that each tower section overlaps with the previous one at different distances, as with trees in nature. This means that all efforts are concentrated in the same way in all the sections of the tower. Thanks to this, the tower can withstand greater efforts with less deflection.

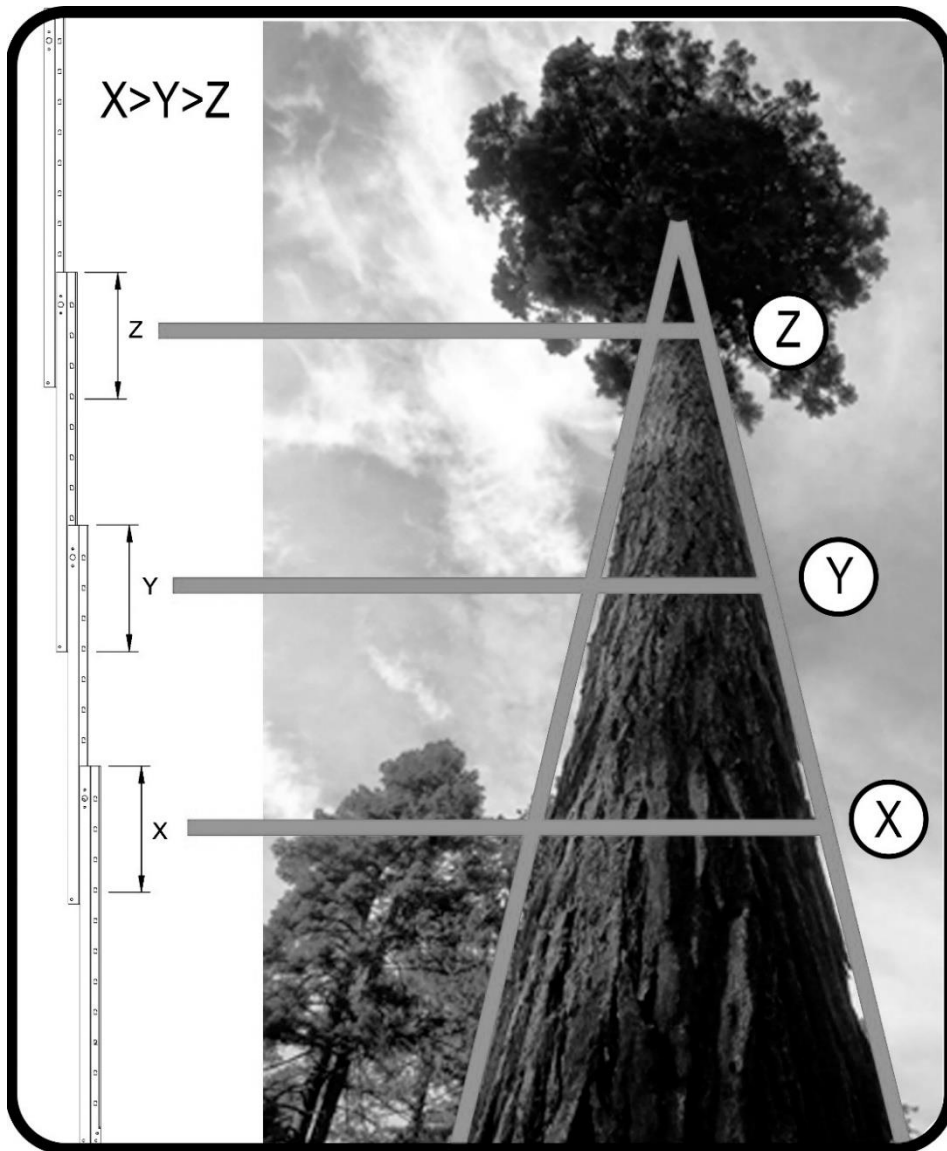


Figure 107

## TRANSPORT

To transport the towers:

- Check that the legs are firmly attached to the tower in their transport position and cannot be released.
- Check that the forks are securely fastened with the pins and cannot be removed.
- Check that the carriage is securely fastened with the car brake system.
- Check that all sections are blocked.

## WITH FORKLIFT

To transport the towers with a mechanism type forklift, the AWS 100 accessory is necessary. Follow the instructions of the machine operator transport manual. Consider the height of what is transported. Avoid sudden turns and braking.

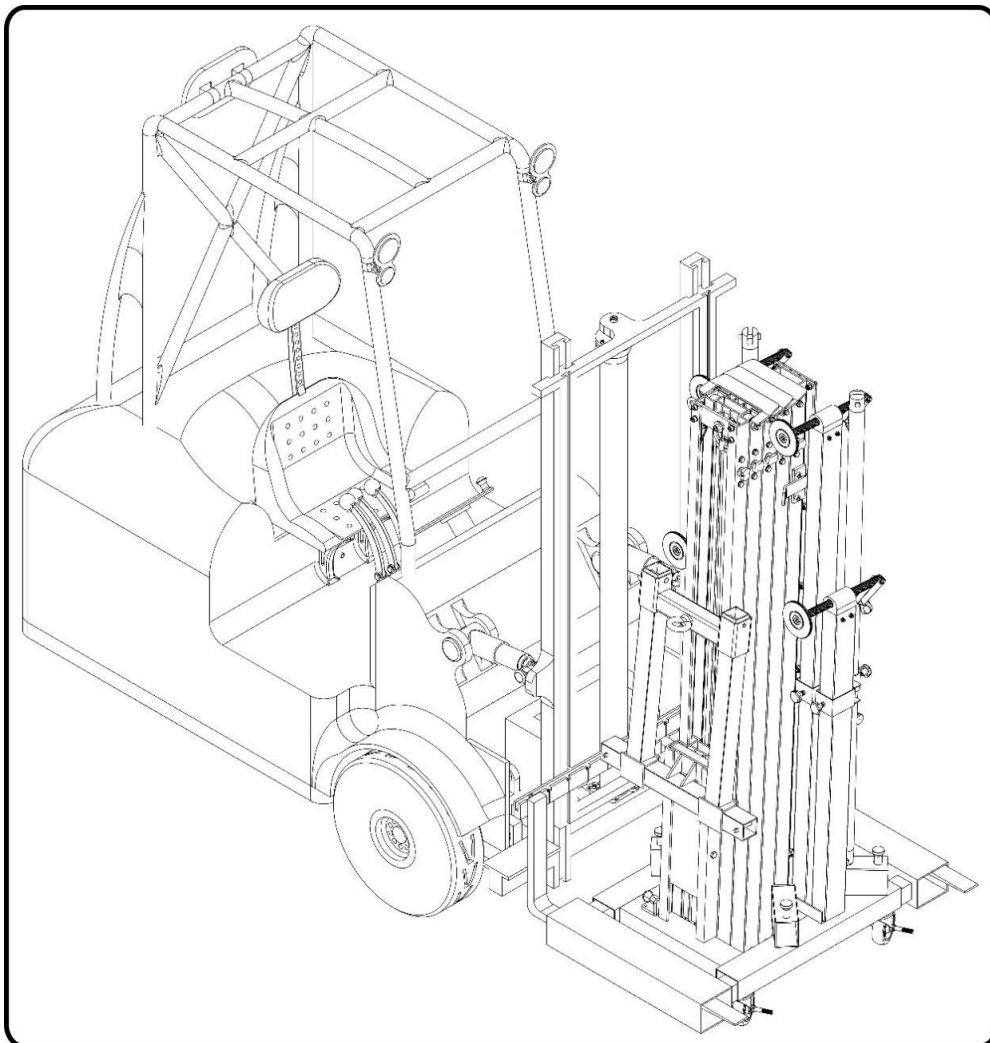


Figure 108

*Detail of transport with forklift.*

## WITH TRUCK OR CONTAINER

To transport the tower by truck or container always tie the tower by two points. Use ratchets not less than 1000 kg of force for the **WTS 506, 256 and 375** models. Use ratchets no less than 2000 kg of force for the **WTS 905, 1206 and 708** models.

Place ratchets so that the tower cannot move by inertia in curves or sudden braking.

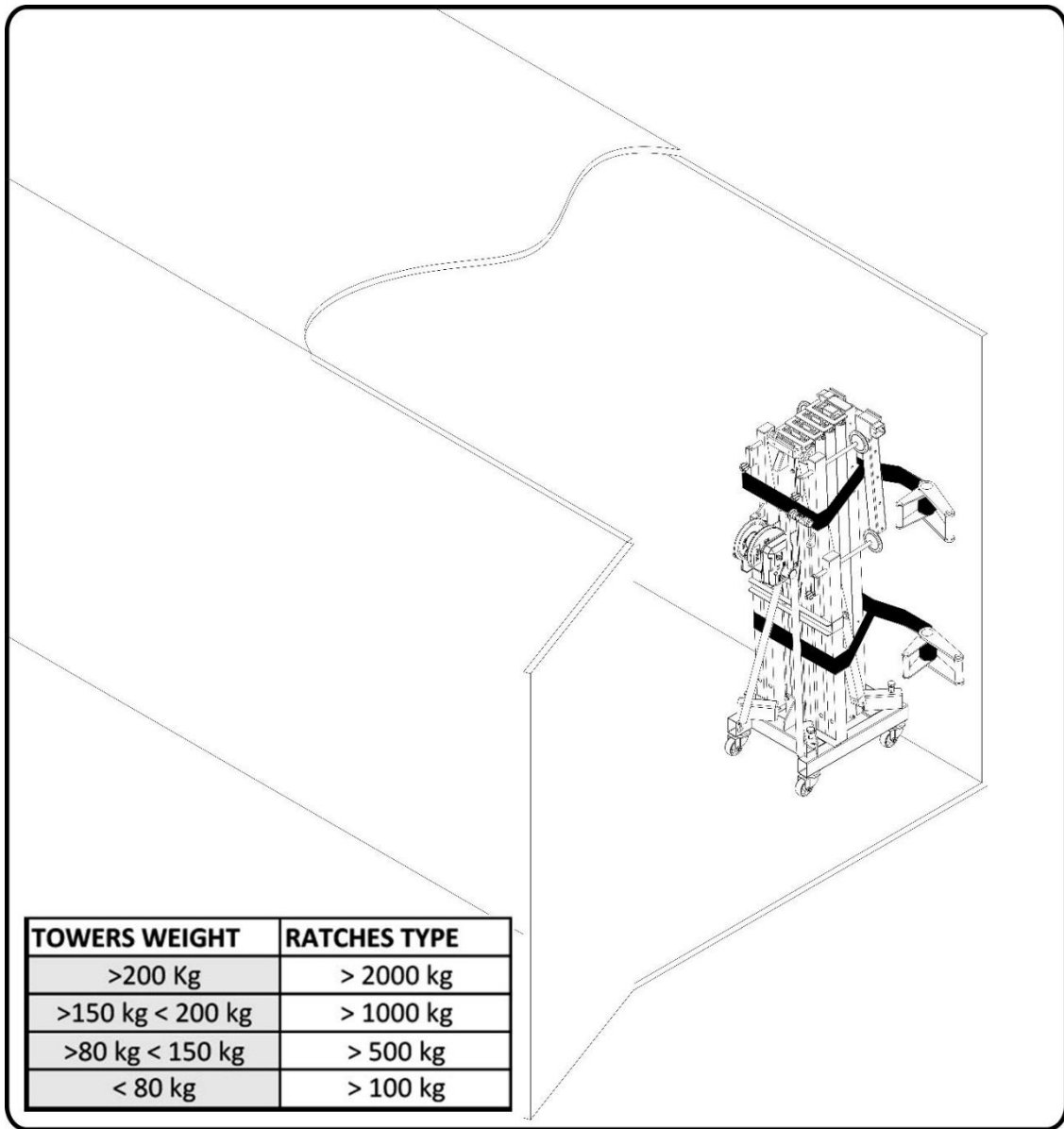


Figure 109

*Detail tower place and shape holding.*

## **DGUV V17/18 NORM REGULATION. Explanation**

**DGUV V17/18** is a norm that regulates the stage and production elements in the entertainment industry. Lifting equipment and rigging are part of this norm and cover structures and other technical elements.

Adopt **DGUV V17/18** is totally voluntary (except in Germany) but its adoption is required by insurance companies and indeed is becoming a norm in the industry

The application of this norm on lifter towers is vital because, in theaters, stages, etc., are used to move loads above artists, technical staff, etc... and in some cases, above viewers, representing a potential risk of fall.

### ***NORM DGUV V17/18. Fields of application***

This standard is oriented in two ways:

On the one hand, lifting towers adopt designs and materials to achieve a high degree of safety in quantities such as supported load, equilibrium, resistance to friction, etc.

Thus, **WORK** lifter towers **DGUV V17/18** certified assure the user that they have passed strict controls during design, choice of materials or load checks and effort.

On the other hand, in order to achieve an optimal performance with these units, it is recommended, apart from a responsible use of the unit, (meeting basic norms such as obey the maximum load or balance), a periodic maintenance, which must be carried out by expert technicians, checking the condition of the steel cable and winch, the functioning of the security pins and the folding/unfolding of all sections.

All the above tests are only mandatory in those countries with specific regulations on the matter, applied through regulations or laws. As manufacturers, we recommend passing all tests in order to prevent damage and ensure proper operation of P.A. lift systems.

## SPECIFICATIONS

| WTS Model              | 256    |                 | 375    |                 | 506     |                 | 905     |                 | 708     |                 | 1206    |                 |
|------------------------|--------|-----------------|--------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Folded height          | 1,60   | m               | 1,60   | m               | 1,93    | m               | 1,66    | m               | 2,00    | m               | 2,00    | m               |
|                        | 5,25   | ft              | 5,25   | ft              | 6,33    | ft              | 5,45    | ft              | 6,56    | ft              | 6,56    | ft              |
| Base width             | 0,56   | m               | 0,56   | m               | 0,58    | m               | 0,585   | m               | 0,705   | m               | 0,585   | m               |
|                        | 1,84   | ft              | 1,84   | ft              | 1,90    | ft              | 1,92    | ft              | 2,31    | ft              | 1,92    | ft              |
| Base length            | 0,44   | m               | 0,44   | m               | 0,52    | m               | 0,58    | m               | 0,58    | m               | 0,58    | m               |
|                        | 1,44   | ft              | 1,44   | ft              | 1,71    | ft              | 1,90    | ft              | 1,90    | ft              | 1,90    | ft              |
| Maximum height         | 6,26   | m               | 5,09   | m               | 6,08    | m               | 5,20    | m               | 8,13    | m               | 6,00    | m               |
|                        | 20,54  | ft              | 16,70  | ft              | 19,95   | ft              | 17,06   | ft              | 26,67   | ft              | 19,69   | ft              |
| Minimum fork height    | 0,43   | m               | 0,43   | m               | 0,33    | m               | 0,41    | m               | 0,41    | m               | 0,41    | m               |
|                        | 1,41   | ft              | 1,41   | ft              | 1,08    | ft              | 1,35    | ft              | 1,35    | ft              | 1,35    | ft              |
| Unfolded diameter      | 2,65   | m               | 2,65   | m               | 2,71    | m               | 2,80    | m               | 3,47    | m               | 3,40    | m               |
|                        | 8,69   | ft              | 8,69   | ft              | 8,89    | ft              | 9,19    | ft              | 11,38   | ft              | 11,15   | ft              |
| Frontal side width     | 1,88   | m               | 1,88   | m               | 2,11    | m               | 2,13    | m               | 2,15    | m               | 2,15    | m               |
|                        | 6,17   | ft              | 6,17   | ft              | 6,92    | ft              | 6,99    | ft              | 7,05    | ft              | 7,05    | ft              |
| Rear side width        | 1,60   | m               | 1,60   | m               | 1,55    | m               | 1,90    | m               | 2,55    | m               | 2,55    | m               |
|                        | 5,25   | ft              | 5,25   | ft              | 5,09    | ft              | 6,23    | ft              | 8,37    | ft              | 8,37    | ft              |
| Fork length            | 0,50   | m               | 0,50   | m               | 0,61    | m               | 0,65    | m               | 0,86    | m               | 0,86    | m               |
|                        | 1,64   | ft              | 1,64   | ft              | 2,00    | ft              | 2,13    | ft              | 2,82    | ft              | 2,82    | ft              |
| Number of profiles     | 5      |                 | 4      |                 | 4       |                 | 4       |                 | 6       |                 | 4       |                 |
| Minimum load capacity  | 25     | Kg              | 25     | Kg              | 25      | Kg              | 25      | Kg              | 25      | Kg              | 25      | Kg              |
|                        | 55,12  | Lb              | 55,12  | Lb              | 55,12   | Lb              | 55,12   | Lb              | 55,12   | Lb              | 55,12   | Lb              |
| Max.load as mechanism  | 250    | Kg              | 350    | Kg              | 510     | Kg              | 450     | Kg              | 450     | Kg              | 550     | Kg              |
|                        | 551,16 | Lb              | 771,62 | Lb              | 1124,36 | Lb              | 992,08  | Lb              | 992,08  | Lb              | 1212,54 | Lb              |
| Max. load as structure | 260    | Kg              | 380    | Kg              | 510     | Kg              | 900     | Kg              | 700     | Kg              | 1200    | Kg              |
|                        | 573,20 | Lb              | 837,76 | Lb              | 1124,36 | Lb              | 1984,16 | Lb              | 1543,24 | Lb              | 2645,55 | Lb              |
| Net weight             | 109,50 | Kg              | 90,50  | Kg              | 152     | Kg              | 202     | Kg              | 272     | Kg              | 230,50  | Kg              |
|                        | 241,41 | Lb              | 199,52 | Lb              | 335,10  | Lb              | 445,33  | Lb              | 599,66  | Lb              | 508,17  | Lb              |
| Winch                  | 900    | Kg              | 900    | Kg              | 900     | Kg              | 1200    | Kg              | 1200    | Kg              | 1200    | Kg              |
|                        | 1984,2 | Lb              | 1984,2 | Lb              | 1984,2  | Lb              | 2645,5  | Lb              | 2645,5  | Lb              | 2645,5  | Lb              |
| Cable diameter         | 6      | mm <sup>2</sup> | 6      | mm <sup>2</sup> | 6       | mm <sup>2</sup> | 7       | mm <sup>2</sup> | 7       | mm <sup>2</sup> | 7       | mm <sup>2</sup> |
| Noise emissions        | 70     | dB              | 70     | dB              | 71      | dB              | 73      | dB              | 73      | dB              | 73      | dB              |

Figure 110



## DECLARATION OF CONFORMITY

The tower lifters described complies with all the specific requirements of Directive 2006/42 /EC of the European Parliament and of the Council of 17 May 2006 on the Machinery Directive.

The tower lifters described meet all the specific requirements in DIN56950: 1/3. If the DYNSSYS system is installed in the tower.

The tower lifters described meet all the specific requirements in DGUV V17/18

**Manufacturer:**

EQUIPSON, S.A.

**Person responsible of the technical data:**

José Vila Ortiz

**Address:**

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L'Alteró. 46460 SILLA – Valencia  
(Spain)

Frontal load lifter

**Description:**

**MODEL WTS 905 – WTS 905 DY**  
**MODEL WTS 1206 – WTS 1206 DY**  
**MODEL WTS 708 – WTS 708 DY**  
**MODEL WTS 506 – WTS 506 DY**  
**MODEL WTS 256 – WTS 256 DY**  
**MODEL WTS 375 – WTS 375 DY**

**MAX. LOAD: 900 kg**  
**MAX. LOAD: 1200 kg**  
**MAX. LOAD: 700 kg**  
**MAX. LOAD: 510 kg**  
**MAX. LOAD: 260 kg**  
**MAX. LOAD: 380 kg**



Jose Vila Ortiz, July 2016

## DGUV MARK

| NUMERO DE SERIE: | SERIAL NUMBER: | LAUFENDE NUMMER: |
|------------------|----------------|------------------|
|                  |                |                  |

| Primer test en fábrica | First test in factory.       | Erstprüfung im Werk. |
|------------------------|------------------------------|----------------------|
| Fecha/Date/Datum       | Testado por/Tested by/Prüfer |                      |
|                        |                              |                      |

| Examen a los cuatro años. | Four years test              | UVV Prüfung (alle 4Jahre) |
|---------------------------|------------------------------|---------------------------|
| Fecha/Date/Datum          | Testado por/Tested by/Prüfer |                           |
|                           |                              |                           |

| Examen anual a partir<br>del cuarto año. | Annual test after the<br>fourth year. | UVV Jährlicher Test nach<br>dem vierten Jahr. |
|------------------------------------------|---------------------------------------|-----------------------------------------------|
| Fecha/Date/Datum                         | Testado por/Tested by/Prüfer          |                                               |
|                                          |                                       |                                               |
| Fecha/Date/Datum                         | Testado por/Tested by/Prüfer          |                                               |
|                                          |                                       |                                               |
| Fecha/Date/Datum                         | Testado por/Tested by/Prüfer          |                                               |
|                                          |                                       |                                               |
| Fecha/Date/Datum                         | Testado por/Tested by/Prüfer          |                                               |
|                                          |                                       |                                               |





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