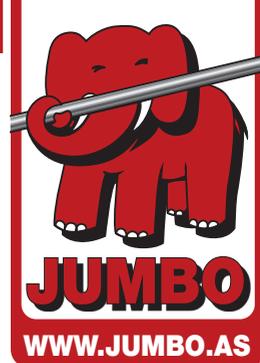


# INSTRUCTION MANUAL JUMBO TOWER SCAFFOLD



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Thank you for choosing a JUMBO product. We are confident that the scaffold will be of good use to you in future, and we look forward to advising you on other scaffold solutions.

Before using the rolling scaffold, it is very important that these instructions be read carefully. It is our aim to secure the highest possible safety in assembling and using the scaffold.



Registration No. 44 312 06 342304 -001

**Scaffold Class III**  
Max Load: **200 kg/m<sup>2</sup>**



# 1. Conditions / Disclaimer

JUMBO Stillads A/S does not assume or undertake any responsibility for the content of this booklet or for the application of the booklet's content in any way not described in this booklet.

JUMBO Stillads A/S cannot be held responsible for errors in the assembly instructions or for direct or indirect losses caused by delivery, presentation or the use of the contents of this booklet.

The contents may not in parts or in total be photocopied, reproduced or translated, without written permission from JUMBO Stillads A/S.

# 2. Warranty

JUMBO Stillads A/S does not accept liability for any wear or fractures and tear on the scaffold parts caused by violation or wrong use. The guarantee does not apply for normal wear on the parts.

Should any scaffold not recommended by JUMBO Stillads A/S be fitted to the JUMBO Tower Scaffold, the guarantee as well as any responsibility for any arisen consequences is renounced by JUMBO Stillads A/S

# 3. Use & Function

JUMBO Tower Scaffold is constructed for a max. load of 200 kg pr. m<sup>2</sup>.

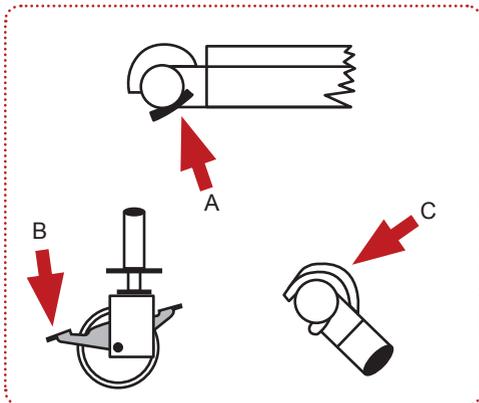
**MAX. 200 kg/m<sup>2</sup>** ✓

We recommend the tower scaffold for safe and easy jobs at a given height. The folding scaffold is weatherproof and can be used both indoors and outdoors. In general, aluminium scaffolds should avoid contact with untreated iron constructions and iron particles, as these are able to penetrate the aluminium.

When working outdoors, the scaffold should never be used at a wind force exceeding 12,5 m per second. In order to secure the scaffold from being blown over and when the scaffold is not in use, it is recommended to move it to a sheltered place.

The scaffolds are available in the lengths 178, 250 and 305 cm and in widths 74 and 130 cm. This manual applies to these lengths and widths.

JUMBO Tower Scaffold is composed of a few modules, that are easily build together in various combinations. Every part has been developed after years of know how and experience, making the assembly of the scaffold easy and safe to work with.



The platforms are secure by means of a storm lock (A).

The brakes on the castors are activated with a slight touch of the footbrake. (B)

All horizontal and diagonal braces are fitted with self-locking claws(C).

## 4. Components

### Working Platform

- Horizontal brace
- Horizontal brace
- Guardrail frame
- Toe board fitting
- Toe board
- Platform with hatch
- Platform without hatch

### Castor Section

- 2 m frame with rungs
- Diagonal brace
- Horizontal brace
- Castors



The JUMBO Tower Scaffold can easily be extended in height when needed.  
Please request a catalogue from your local dealer or directly at JUMBO.

If in doubt about which scaffold solution you need – please call us at 0045 7550 5075.

## 5. General Rules and Instructions for Use

- 5.1** Be sure to follow the instructions for assembly and disassembly. The scaffold should always be assembled in level and plumb. Only fully qualified persons with the necessary knowledge of assembly and use should operate the scaffold.
- 5.2** Before assembly, all components should be checked. Only original, undamaged JUMBO components should be used.



- 5.3** The castors should be mounted inside the vertical tubes of the frames. Make sure the castors are correctly mounted and fastened. The applied load of the scaffold must be evenly distributed over all 4 castors at all times. Use the spindle to correct the height of scaffold and make it level.
- 5.4** Only use original JUMBO Ballast blocks. DO NOT use any kind of containers or sandfilled buckets or any other contraption.
- 5.5** Always secure the frames with clips. The curved part of the clip should point outwards and downwards. Stick the straight part through the holes in the frames and let the clip drop - and thus lock.



- 5.6** The JUMBO Tower Scaffold must always be erected on a secure and firm base that is able to sustain the weight of the scaffold and the load applied during work. When moving the scaffold push in the longitudinal direction only – and push by the base section only. Move it at walking speed and at a max. inclination of 2%. ONLY move the scaffold by hand. Jolts must be avoided. Scaffolds mounted with wall cramps should only be moved parallel to the wall.
- 5.7** When moving the scaffold make sure no persons or loose items are on the scaffold
- 5.8** After moving the scaffold, the brakes must be engaged at once. Please ensure that all castors are securely locked before getting onto the scaffold. Before entering or leaving the scaffold always take precautions against accidental rolling of the scaffold.
- 5.9** Beware of overhead obstructions. The scaffold should always be kept at least 3 m from energized electric power lines.
- 5.10** Lifting devices or hoists must not be used on the scaffold.
- 5.11** Only climb the scaffold from inside. Ascending and descending the scaffold must only take place by the designated access. When using more than one platform, hatches must be staggered and kept closed at all times.

- 5.12** Persons working on the tower scaffold should not lean against or over the guardrail.
- 5.13** The scaffold should not be used to support building components.
- 5.14** Working heights must not be extended by persons standing on ladders, boxes or other materials while on the scaffold platform.
- 5.15** Joining a tower scaffold with any kind of building by means of a bridge is not allowed. Two scaffolds shall only be joined using a platform as a bridge if in full agreement with JUMBO Stillads A/S guidelines and by following the exact guidelines given for this operation.
- 5.16** Never jump down or throw anything onto the platforms.
- 5.17** Do not expose the scaffold to corrosive liquids and do not pound or beat the scaffold.
- 5.18** Do not expose the scaffold to long stays in  $-20^{\circ}$  C or  $+70^{\circ}$  C.
- 5.19** Do not use the scaffold outdoors or in open buildings, if the wind exceeds 12.5 metres per second. At such wind speeds as well as when not in use the scaffold should be moved to a sheltered place.
- 5.20** Do not attach advertising signs or similar to the scaffold as such items might increase the wind load on the scaffold.
- 5.21** Always show a good example by wearing personal protection (helmet, gloves, safety shoes, lifeline, etc.)
- 5.22** Make sure an instruction manual is at disposal at all times.



- 5.23** If the scaffold is handed over to a third party, the instruction manual must be handed over to the third party.

## 6. Assembly (3T Method)

- 6.1 Castor Section** After taking precautions according to point 5 proceed with assembly. Taking measurements at the construction site can be helpful in securing you are using the correct scaffold solution for the job



- 6.1.1 Mounting the first 2 frames with castors.** Slide the top-part of the wheels into the vertical tubes. Small castors (not shown) are fastened by tightening a nut behind the wheel. Large castors are fastened by tightening the wing screw on the side onto the enforcement on the bottom on the tubes (as shown on the photos). Use the spindle to adjust the desired height and to achieve level.



- 6.1.2** Press the pedal down in order to lock the castor. To check that locks are engaged correctly, try moving the scaffold about. Damaged castors must be replaced.



### 6.1.3 Mount horizontal braces

Erect the frames and connect them with 2 horizontal braces - 1 at each side. Mount the braces above the lowest rung - and mount them on the vertical column from the inside out.

Make sure that the self-locking mechanism of the claw is locking



### 6.1.4 Mounting diagonal braces

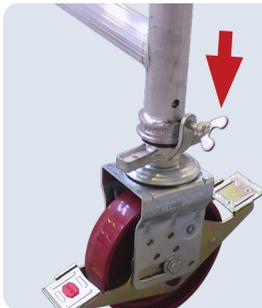
With the two bottom frames connected and standing erect, mount a diagonal brace from the bottom rung on one side to the top rung on the other side.

Always mount diagonal bracing after the following rules:



### 6.1.5 Tower scaffold should always be mounted with 2 diagonal braces pr. 2 metres height.

The diagonal braces can be mounted on the same side of the frames - or one on either side across from each other. Make sure that the self-locking mechanism of the claw is locking



### 6.1.6 Castor section is established.

Make sure the scaffold is standing plumb and level. Use the spindles on the castors to adjust. Do not forget to tighten the wing screws after adjusting.

If ballast is needed (according to section 6.6) it should be placed on the scaffold now.



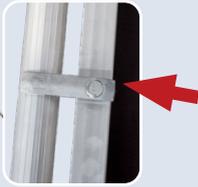
### 6.1.7 Mounting the next side frames.

As an aid during installation, a platform can be used on one of the lower steps (under 1 m). From here, the next side frames are mounted. They are pushed down over the spigots of the previous frames. Remember to secure these with safety clips.

If the scaffolding is to be built up to a height where outriggers are required (see tables section 6.6), these are now mounted, cf. section 6.4.



## 6.2 Middle Section



### 6.2.1 First platform layer

Platforms are now mounted onto the side frames, 2m (8 steps) from the base.

Remember to secure the platforms at both ends by turning the storm lock on the underside of the platform out under the side frame steps



### 6.2.2 Mount handrail braces

Seated in the opening on the platform, handrails (100 cm above the platform) can now be mounted on both sides. When both handrail braces are securely mounted, you can mount handrail braces (50 cm above the platform) on both sides - from either a sitting or standing position.

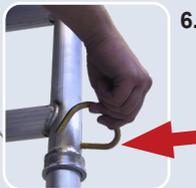
**Note:** All horizontal bracing must always be mounted on the inside of the vertical column of the frame. Make sure that the self-locking mechanism of the claw is locking



### 6.2.3 Mount diagonal braces.

Diagonal braces are mounted according to the following principle: 2 diagonals are mounted per. 2 m frame height. The diagonals must be mounted crosswise on the outside of the horizontal steps (see illustration). On single towers one diagonal can be omitted.

Make sure that the self-locking mechanism of the claw is locking



### 6.2.4 Further extension.

From the existing platform, the next frames are now mounted. Remember to secure these with safety clips.

If additional height is desired, more side frames are mounted and the installation is repeated (sections 6.2.2 - 6.2.4) until the desired height is reached and then finish with guardrail frames. Otherwise, the guardrail frames are mounted now - they are pushed down over the spigots of the step frames. **Note:** the end with the welded rings should face up.

The next platforms are mounted on the step frames, max. 2 m (8 steps) from the first platform.



**REMEMBER:** Platforms with hatch must be mounted staggered so that the hatches are not directly over each other. All platforms are secured at both ends by sliding the storm lock out below the side frame steps

## 6.3 Working Platform



### 6.3.1 Mount handrail braces

Seated in the opening on the platform, handrails (100 cm above the platform) can now be mounted on both sides. When both handrail braces are securely mounted, you can mount handrail braces (50 cm above the platform) on both sides - from either a sitting or standing position.

**Note:** All horizontal bracing must always be mounted on the inside of the vertical column of the frame. Make sure that the self-locking mechanism of the claw is locking



### 6.3.3 Mount toe boards.

First mount the toe board fittings on the vertical tubes of the frames. The fittings are easily fitted on the tubes right above the platform. Slide the toe boards in place.

Always mount the toeboard fittings and toe boards before mounting the next frames - this will lock the toe boards into place.

Toe boards (height 15 cm, width 3,2 cm) are mandatory on all sides of the platform

**IMPORTANT:** Keep platform hatches closed when not in use. The safety string should be kept in good condition.



## 6.4 Outriggers



### 6.4.1 Mounting outriggers

Mount JUMBO Tower Scaffold with outriggers according to the tables under point 6.6).

Initially only fasten the couplers of the outrigger loosely on the scaffolds vertical tube.

Adjust the outrigger until the rubber foot is resting securely on the ground and the correct angle (45°) is achieved. Then tighten both couplers.

## 6.5 Disassembly

The JUMBO folding scaffold is to be disassembled in reverse order of the assembling. Use platforms and guardrails in the middle section of the scaffold to ensure secure disassembly. Do not under any circumstances drop or throw any scaffolds components.

Keep castors locked during disassembly. Do not throw any scaffold parts onto the ground.

During transport, avoid excess jolts that could cause deformation of the tube profile

## 6.6 Tables for ballast and outriggers

**Table 6.6.1a: Scaffolds used indoors, max. height 12 m**

Width 69 cm		
Height	Outrigger	Ballast
2,5	Short outrigger	-
3,5	Short outrigger	-
6,0	Long outrigger	4x25 kg
8,5	Long outrigger	4x50 kg
10,5	Long outrigger	4x75 kg
12,0	Long outrigger	4x100 kg

Width 130 cm		
Height	Outrigger	Ballast
2,5	-	-
3,5	Short outrigger	-
6,0	Long outrigger	4x25 kg
8,5	Long outrigger	4x50 kg
10,5	Long outrigger	4x75 kg
12,0	Long outrigger	4x100 kg

**Table 6.6.1b: Scaffolds used outdoors, max. height 8 m**

Width 69 cm		
Height	Outrigger	Ballast
2,5	Short outrigger	-
3,5	Short outrigger	-
6,0	Long outrigger	4x25 kg
8,0	Long outrigger	4x50 kg

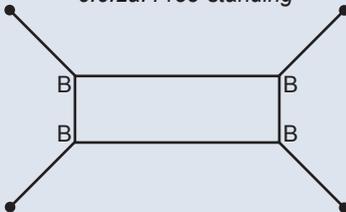
Width 130 cm		
Height	Outrigger	Ballast
2,5	-	-
3,5	Short outrigger	-
6,0	Long outrigger	4x25 kg
8,0	Long outrigger	4x50 kg



According to EN 1004 tower scaffolds may be built to the heights mentioned in the above tables - measure from ground to top platform. Do not build tower scaffolds higher without consulting JUMBO Stillads A/S

### 6.6.2 Positioning of outriggers & ballast

6.6.2a: Free-standing



6.6.2b: Against a wall



B = Ballast placed symmetrical at the corners of the lowest frames

## 7. Assembly (Mounting Platform Method)

This section guides you through the installation of tower scaffolds with platform layers every 4 meters, using assembly platform(s) during assembly and dismantling.

### 7.1 Mounting with assembly platform

Start by mounting the castor section described in pt. 6.1.1 – 6.1.6

#### 7.1.1 Mounting the first set of assembly platforms.

Mount a horizontal brace at 2 m height. (8th rung from the bottom) and place a platform on that same rung to the opposite side.

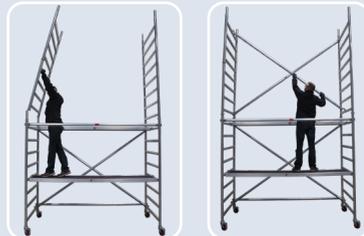


Place a platform at 1 m height (4th rung from the bottom) to the opposite side of the platform at 2 m, they will now be on opposite sides of the scaffold. Remember to ensure the platforms with the storm lock under each platform. Note: If you are building the scaffold to a height where outriggers are required (see table pt. 6.6) these must be mounted now, see pt. 6.4.



#### 7.1.2 Further assembly

Mount the next frames from the assembly platform at 1m height. Push them down onto the spigots of the bottom frame. Remember to lock with the provided safety clips. Next, mount horizontal braces (see pt. 6.2.3 - 6.2.4)



Then mount the next assembly platform and the next horizontal brace 2 m higher up. Remember assembly platforms and horizontal braces must be offset. See Fig. 7a

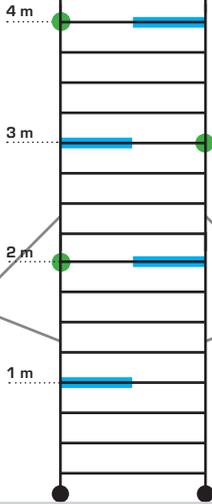
Continue to mount assembly platforms and horizontal braces offset at a distance of 1 m height and mount frames and diagonals, until the desired height is reached. (Never mount higher than 2 m above the platform you stand on.



## 7.2 Working Platform

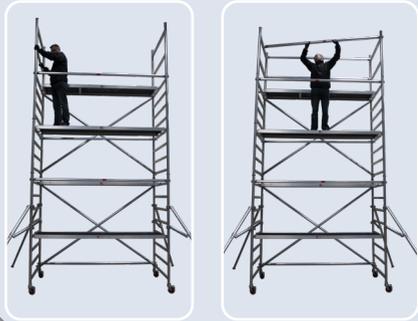
When the desired height is reached and before the scaffold is used, work platforms must be mounted at the desired heights. These must be ensured with complete railings (horizontal braces and toe boards).

Fig. 7.a



### 7.2.1 Mounting Working Platforms

If the working platform is the final at the top of scaffold, guard rail frames must be mounted on each side of the scaffold. Remember to ensure with clips. Mount horizontal braces at 100 cm and 50 cm above the platform onto the guardrail frames. If it is a work platform elsewhere in the scaffold, mount horizontal braces onto the frames, respectively 50 and 100 cm above the platform



Standing on the assembly platform, 2 m under the working platform, you can now remove the horizontal brace opposite to the working platform and push the working platform over to the side where the horizontal brace was.

Mount the removed brace again 1 m down (push the platform in slightly to make room)



Now, the assembly platform located 1 m below the final working platform, can be moved up next to the other work platform. Remember to ensure the storm locks under the platform.

Now mount the toe boards - see pt. 6.3.3 - and the working platform is ready.

If you need to build your scaffold higher from here, proceed by moving the assembly platforms up through the work platform as described in this section.



## 8. Assembly (Mounting Guardrail Method)

A mounting guardrail (foldable), can be used as an extra precaution.



### 8.1 Fitting the mounting guardrail



The mounting guardrail must be mounted before accessing the platform. The guardrail must be fixed to the vertical tube one step below the desired platform height. The couplers must be fixed around the tube on both sides right above the step.



Repeat the same fitting on the other side of the scaffold.

### 8.2 Horizontal braces

When the mounting guardrail is mounted, access to the platform is safe. Further installation of horizontal braces and mounting of the scaffold can be continued in accordance with section 6.1.7 - 6.3.3

After mounting the horizontal braces above the platform, the mounting guardrail can be removed.



### 8.3 Further mounting

When the platform is equipped with complete guardrails, the mounting guardrail can be removed and re-installed on the next platform on the scaffold. The mounting guardrail must be fixed one step below the desired platform height - the couplers right above the step. Continue further mounting of the scaffold in accordance with section 8.1 - 8.3 and 6.2.3 - 6.3.3 until the desired height of the scaffold is reached.

The platform can be mounted before or after mounting of the mounting guardrail.

DO NOT access the platform before mounting guardrails are safely mounted on both sides!



## 9. Maintenance

The maintenance of the tower scaffold is limited to control and replacement of the various modules of the tower scaffold.

Please use no hammer or the like to free the scaffold from mortar etc.

**DO NOT use oil products** to lubricate claws, storm locks and castors.



## 10. Spareparts

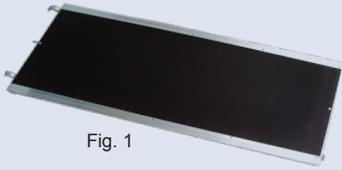


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

Art no.	Fig.	Article	Weight kg.
1001780	1	Platform without hatch 178 cm	10,5
1002500	1	Platform without hatch 250 cm	15,7
1003050	1	Platform without hatch 305 cm	21,0
1001781	2	Platform with hatch 178 cm	11,0
1002501	2	Platform with hatch 250 cm	16,1
1003051	2	Platform with hatch 305 cm	21,5
1450250	3	Ballast Block	25,0
1600100	4	Clip	0,1
1400200	5	Castor, adjustable	5,0
1500500	6	Base plate adjustable	34,1
FLB-1	7	Toeboard fitting	0,1
1610178	8	Toe board 178 cm	3,8
1610250	8	Toe board 250 cm	4,8
1610305	8	Toe board 305 cm	5,8
1610130	8	Toe board long	3,0
1610074	8	Toe board short	2,5



Fig. 9



Fig. 10

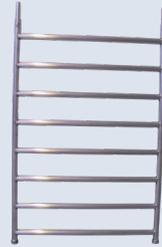


Fig. 15



Fig. 11

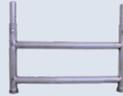


Fig. 12



Fig. 13



Fig. 14



Fig. 16

Art. no.	Fig.	Article	Weight kg.
12135101	9	Guardrail frame, 2 rungs, 135 x 100 cm	3,7
12074101	10	Guardrail frame, 2 rungs, 74 x 100 cm	3,7
12135050	11	Frame, 2 rungs, 135 x 50 cm	3,2
12074050	12	Frame, 2 rungs, 74 x 50 cm	2,3
12135100	13	Frame, 4 rungs, 135 x 100 cm	6,8
12074100	14	Frame, 4 rungs, 74 x 100 cm	4,2
12135200	15	Frame, 8 rungs, 135 x 200 cm	11,5
12074200	16	Frame, 8 rungs, 74 x 200 cm	8,0
1101780	17	Horizontal brace 178 cm	2,5
1101784	17	Diagonal brace, 4-step for 178 cm	2,7
1101787	17	Diagonal brace, 7-step for 178 cm	3,0
1102500	17	Horizontal brace 250 cm	3,1

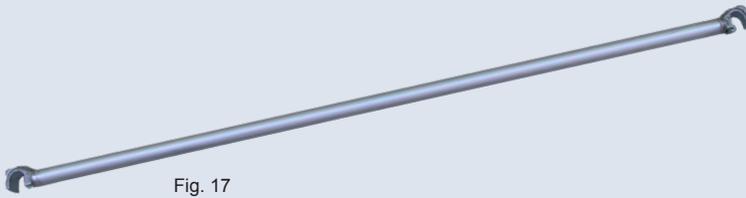


Fig. 17



Fig. 19



Fig. 18

Art. no.	Fig.	Article	Weight kg.
1102504	17	Diagonal brace, 4-step for 250 cm	3,2
1102507	17	Diagonal brace, 7-step for 250 cm	3,5
1103050	17	Horizontal brace 305 cm	3,6
1103054	17	Diagonal brace, 4-step for 305 cm	3,8
1103057	17	Diagonal brace, 7-step for 305 cm	4,0
1103510	17	Diagonal brace for 305 cm	4,0
1300170	18	Beam 178 cm	6,0
1300250	18	Beam 250 cm	7,0
1300305	18	Beam 305 cm	9,0
1300351	18	Beam 351 cm	10,0
1410150u	19	Short outrigger	4,0
1410250u	19	Long outrigger	5,0

## 11. Warnings & Misuse

It is the responsibility of the owner to ensure that all scaffold users are fully informed about and trained in function, use, assembly and disassembly of the scaffold. Do not let persons under the age of 18 operate the scaffold.



The scaffold must only be employed in work as a scaffold.

**MAX. 200 kg/m<sup>2</sup>** ✓



Only erect the scaffold on a secure and firm base. Always keep at least 3 metres distance from energized electric power lines.

Do not attach advertising signs or similar to the scaffold as such items might increase the wind load  
Do not try to extend working height with ladders, boxes, etc.

Do not use as support for building components.

Do not use the scaffold where people and animals pass. Any passage under the scaffold should be effectively fenced.

Keep the scaffold tidy to avoid tools or materials from dropping off the scaffold.

Regularly inspect the scaffold for defects. Only use the scaffold when all parts are in perfect condition. Also make sure the scaffold has been assembled properly before climbing it.  
Do not mix with other scaffold labels unless specifically approved by JUMBO

Structural changes are at own risk.

Protect storm locks, claws and castors from severe blows and penetrating dirt.



*For further information please contact:  
JUMBO Stillads A/S • Stålvvej 7-23 • DK 6000 Kolding • Tlf: +45 75 50 50 75*

## 12. Distributor

