

A SAFER WAY TO REACH NEW HEIGHT

# UTS SALES<sup>AND</sup> REPAIRS

## UTS ONE MAN TOWER MANUAL

Manufacturer of Aluminium Access Equipment

3T – Through the trapdoor method

[www.towersandpodiums.co.uk](http://www.towersandpodiums.co.uk)



### Safety Information

The UTS One Man Tower is both quick and easy to assemble and can be erected and dismantled by a single person

### IMPORTANT:

Never use the One Man Tower until you have read the instructions fully and understood the following guide.

Always carry out a risk assessment for each task before you start work, to ensure the ONE MAN TOWER is the correct mode of access for the task that is being undertaken



Unit 1A  
Canterbury Industrial Park  
Island Road  
Hersden  
Kent

CT3 4HQ Tel: 01227 860085 Email: [info@towersandpodiums.co.uk](mailto:info@towersandpodiums.co.uk)



# SAFETY GUIDE

1. Check instructions before use. Mobile access working towers may only be assembled and dismantled by persons familiar with these instructions before use.
2. Do not use any scaffold tower which has not been properly assembled and which has any missing or damaged parts.
3. Do not assemble a scaffold tower on unstable ground or objects such as loose bricks, boxes or blocks. Only a sound rigid foot must be used.
4. Ensure that the scaffold tower is always level and the adjustable legs are engaged. Check that you have taken all necessary precautions to prevent the tower being moved, or rolling away. Always apply all castor brakes
5. Ensure that all frame, braces and platforms are firmly in place and that all locking hooks are functioning correctly. Ensure that all frame locking clips are engaged.
6. Ensure that the scaffold tower is within the maximum platform height stated and that appropriate stabilisers are fitted.
7. A scaffold tower must not be used in winds stronger than 7.7 meters per second, beaufort scale 4 see the table below.
8. Do not lean ladders against the tower, or climb the outside of the tower.
9. Never climb on guardrail frames. Do not gain access or descend from the working platform other than by the intended internal access system.
10. Guardrails and toeboards must be fitted to the working platform and to any platform where materials/equipment is stored.
11. Never jump on or off the platforms.
12. **DO** not exceed the safe working load of the platform or structure by accumulating debris, materials or tools on platforms, these can be a significant additional load.
13. Never extend your adjustable legs to achieve extra height, these are for levelling only. **NEVER** use a ladder or other objects on the platform to achieve additional height.

## WIND EFFECTS

Beware of high, gusty or moderate breeze conditions in exposed areas, it is recommended that in wind speeds over a moderate breeze (see below table) that work on the tower is stopped and reassessed. If the wind becomes a strong breeze, the tower should be tied to a rigid structure. If the wind is likely to reach gale force or over, work should be stopped and the tower should be dismantled. Beware of tunnelling effect caused by open ended buildings, uncladding buildings and building corners.

Wind	Beaufort Scale 10 meters above ground	Force	Speed in M.P.H	Speed in Knots
Moderate Breeze	Raises dust and loose paper, small branches move	4	13-18	11-16
Strong Breeze	Large branches in motion, telegraph wires whistle	6	25-31	22-27
Gale Force	Walking is difficult, twigs break off trees	8	39-46	34-40

## COMPONENT LIST

Component Description:	Total			
Platform Height		2.1M	3.1M	4.1M
Adjustable Legs	4	4	4	4
Castor	4	4	4	4
1M Frames	10	6	8	10
1.3M Trap Platform	2	1	2	2
1.3M Horizontal Brace	1	1	1	1
Folding Toeboard Set	1	1	1	1
Assembly Bracket	2	1	2	2
Brace Frames	7	4	5	7
SP4 Telescopic Stabiliser	4	4	4	4
	Weight	89kgs	117kgs	130kgs

**MAX SAFE WORKING LOAD FOR STRUCTURE: 550kg**  
**MAX SAFE WORKING LOAD FOR PLATFORM: 275kg**

## QUALITY SCHEDULE

### Platform Loading:

The maximum safe working load (combined weight of the users, tools and materials) that may be placed on a platform is 275kg. This must be evenly distributed over the whole platform level.

The quantity schedules shown in this user guide will enable the tower to be built safely and therefore comply with the requirements of the 'Work at Height Regulations'. Folding toeboards will need to be added if any levels are used as working platforms, or for storage of materials. This tower system has been developed for single person use.

### Stabilisers:

- Stabilisers should always be fitted when specified
- Attach one stabiliser to each corner of the tower as shown. Ensure stabiliser feet are equally spaced to form a square
- SP4 telescopic stabilisers must be fully extended
- Position the lower clamp so that the lower arm is as close to horizontal as possible. Adjust the position of the top clamp to ensure the stabiliser foot is in contact with the ground. Ensure clamps are secure.
- When moving the tower, adjust the top clamps or the telescopic leg in order to lift the four stabiliser feet a maximum of 25mm off the ground and unlock the castor brake. After moving, ensure all four stabiliser feet are repositioned in firm contact with the ground.

# ASSEMBLY



**1)** Insert the adjustable legs and castors in to the 1M base frames

**2)** Place a brace frame between the two frames ensuring hooks are locked in place

**3)** Position the horizontal brace on the lowest rung with the hooks facing downwards and the lock in place.

**4)** Position castors at a 45-degree angle and apply brake, check the base unit is square and level using a spirit level



**5)** Connect two 1M frames and secure with interlocking clips, repeat so you have a pair of connected frames then place onto either end of the base frames securing the interlocking clips.



**6)** Place a brace frame between the 2 frames on the opposite side of the base brace frame with the hooks facing outwards positioned above the bottom rung and 3<sup>rd</sup> Rung of the 2<sup>nd</sup> 1M Frame just above the frame clips



**7)** Standing inside the tower, position the platform on the top rung of the second 1M frame and secure windlocks



**8)** Attach the 1<sup>st</sup> assembly bracket to the top bar of the brace frame, place three of the unused brace frames on the bracket.

**9)** Connect the remaining 1M frames into pairs and set aside



**10)** Stabilisers must be fitted at this stage. The stabilisers are extendable and must be extended before fitting to the tower.

They must be placed at a 45 degree angle with the middle clamp positioned below the top rung of the first 1M frame and the top clamp positioned above the second rung of the second 1M frame.



**11)** Attach the 2<sup>nd</sup> assembly bracket to the rung above the platform hooks, this will hold the 2 sets of connected 1M frames that were made previously.

**12)** From inside the tower you can now climb up to and through the trapdoor of the platform until you can sit on the platform with your feet on the rungs below (3T method)

**13)** While sat on the platform take one of the brace frames from the assembly bracket and position on the opposite side with the hooks above the second rung and top rung of the third 1M frames

**14)** The hooks should be facing outwards, ensure they are locked in place. Repeat this step on the other side to form the guardrail. You can now stand on the platform



**15)** While stood on the platform remove one of the connected 1M frames and place on the 3<sup>rd</sup> 1M frame at the opposite side of the tower

**16)** Secure all interlocking clips. Repeat this step on the other side and connect with the 3<sup>rd</sup> brace frame with the hooks facing outwards these need to be positioned above the bottom rung and 3<sup>rd</sup> rung of the 4<sup>th</sup> 1M frame

**17)** Now move the second assembly bracket from the side of the tower to the top bar of the brace frame you have just fitted



**18)** You will need to return to the bottom of the tower and place the remaining 2 brace frames, folding toeboard and second platform onto the lower assembly bracket

**19)** Climb up to and through the first platform closing the trapdoor behind you. Re3move the platform from assembly bracket and place on top rung of the 4<sup>th</sup> 1M frame and secure wind locks. The trap door must be the opposite end of the first platforms trapdoor.



**20)** Move the toeboard to the assembly bracket above followed by the remaining two brace frames.

**21)** Now climb up to a through the trap door of the platform until you can sit on the platform with your feet on the rungs below (3T method). While sat on the platform take one of the brace frames from the assembly bracket and position on the opposite side with the hooks above the second rung of the 5<sup>th</sup> 1M Frame



**22)** The hooks should be facing outwards, ensure they are locked in place. Repeat this step on the other side to form the guardrail. You can now stand on the platform and fit the toe board

**Your tower is now safe and ready to use**

