

ONE MAN TOWER

Instruction/safety manual

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

Safety Information

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.



SAFETY GUIDE

(Platform Heights 1.1m, 2.1m, 3.1m & 4.1m)

MAX SAFE WORKING LOAD FOR STRUCTURE: 550kg

MAX SAFE WORKING LOAD FOR PLATFORM: 275kg

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 is 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 footing 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 frames, 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 the 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 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 to or off of platforms.
12. DO not exceed the safe working load of the platform or structure by accumulating debris, material 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.

Risk Assessment

A risk assessment MUST be carried out before using any access equipment or work at height.

COMPONENT LIST

4 X ADJUSTABLE LEGS
4 X CASTORS
10 X 1M 4 RUNG FRAMES
7 X BRACE FRAMES
4 X EXTENDABLE STABILISERS
2 X 1.3M TRAP DOOR PLATFORMS
1 X FOLDING TOEBOARD
1 X HORIZONTAL BRACE

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 Beaufort Scale below) that work on the tower is stopped and reassessed. If the wind becomes a Strong Breeze, (see Beaufort Scale below) the tower should be tied to a rigid structure. If the wind is likely to reach Gale Force (see Beaufort Scale below) or over, work should be stopped and the tower should be dismantled.

Beware of tunnelling effect caused by open ended buildings, uncladded buildings and building corners.

| Wind | Beaufort Scale 10 Metres 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 |

Instructions

1. Insert the adjustable legs and castors into 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 lock in place.

Position castors at a 45 degree angle and apply brake (see photo) Check the base unit is square and level using a spirit level.

4. Connect two 1m frames and secure with interlocking clips (see photo) repeat so you have a pair of connected frames then place onto either end of the base frames securing the interlocking clips.

5. 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 3rd rung of the 2nd 1m frame just above the frame clips (see photo)



6. Standing inside the tower, position the platform on the top rung of the second 1m frame and secure wind locks (see photo)



7. Attach the 1st assembly bracket to the top bar of the brace frame, place three of the unused brace frames onto the bracket (see photo)



8. Connect the remaining 1m frames into pairs and set aside.

9. Stabilisers must be fitted at this stage. The stabilisers are extendable and must be extended before fitting to the tower. (see photo) 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.



10. Attach the 2nd assembly bracket to the rung above the platform hooks, this will hold the 2 sets of connected 1m frames that were made previously (see photo)

11. 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)

12. 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 frame.

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.

13. While stood on the platform remove 1 of the connected 1m frames and place on the 3rd 1m frame at the opposite side of the tower.

Secure all interlocking clips. Repeat this step on the other side and connect with the 3rd brace frame with the hooks facing outwards positioned above the bottom rung and 3rd rung of the 4th 1m frame.

14. Now move the second assembly bracket from the side of the tower to the top bar of the brace frame you have just fitted. (see photo)



15. You will now need to return to the bottom of the tower and place the remaining 2 brace frames, folding toe board and second platform onto the lower assembly bracket. (see photo)



16. Climb up to and through the first platform closing the trapdoor behind you. Remove the platform from the assembly bracket and place on the top rung of the 4th 1m frame and secure wind locks (see photo) The trap door must be the opposite end of the first platforms Trapdoor.



17. Move the toe board to the assembly bracket above followed by the remaining 2 brace frames. (see photo)

18. 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) 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 5th 1m frame.

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. (see photo)

Your tower is now safe and ready to use.

