YOUNGMAN



FIT-OUTMASTER

Mobile Aluminium Trade Quality Access Tower System 3T - Through the Trapdoor Method

USER GUIDE

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Safety First

Introduction

Please read this guide carefully.

Please note that diagrams are for illustrative purposes only.

User guides are also available to download from our website at http://youngman.co.in

This user guide provides you with step by step instructions to ensure your system is erected easily and safely, using the 3T (Through The Trapdoor) method.

We recommend that personnel erecting, dismantling or altering towers must be competent. Any person using or erecting a FIT-OUT MASTER mobile tower must have a copy of this guide. For further information on the use of mobile access and working towers follow the PASMA operator's code of practice.

If you need further information, design advice, additional user guides or any other help with this product, please contact the manufacturer on +91 9015964626 or email sales@voungman.co.in.

Compliances

The FIT-OUT MASTER aluminium system has been tested and certified to EN 1004 $\,$



Risk assessment

Please ensure that you arrived at the decision to use this product by carrying out a complete risk assessment. For more details please visit our website at http://youngman.co.in where you can download a Risk Assessment Form and instructions on how to use it.

Safety First

Preparation and inspection

Inspect the equipment before use to ensure that it is not damaged and that it functions properly. Damaged or incorrect components should not be used.

Safe use

- Check that all components are onsite, undamaged and that they are functioning correctly, refer to Checklist and Quantity Schedules. Damaged or incorrect components should not be used
- Check if the ground on which the mobile access tower is to be erected and moved is capable of supporting the tower.
- Towers must be climbed from the inside during assembly and use. It is recommended that towers should be tied to a solid structure when left unattended.

Lifting of equipment

- Tower components should be lifted using a reliable lifting material (e.g. strong rope) employing a reliable knot (e.g. clove hitch) to ensure safe fastening and always lift within the footprint of the tower.
- Assembled mobile towers should not be lifted with a crane or other lifting device.

Safety First

Maximum safe working loads

- The Maximum Safe Platform Load on each platform (the combined weight of the users, tools and materials) is 220kgs.
- The Maximum Safe Tower Load (the combined weight of the users, tools and materials) for the complete tower is the Maximum Tower Load (500kgs) less the self-weight of the tower.
- Loads within the Maximum Safe Tower Load but in excess of the Maximum Safe Platform Load (220kgs) must be distributed over two platforms
- All loads must be evenly distributed over the platform(s)

Composite code	38060600	38061700
Working height (m) > Platform height (m) >	2.6 0.6	3.7 1.7
Self-weight of Towers kgs	(34ª) 41	[56 ^b] 79
Maximum Safe Tower Load kgs	{200°}	{200°}

Notes

- (a) Figures in brackets (a) are weight excluding toe boards.
- [b] Load in brackets {c} are limited by number of platforms.

Important

- The maximum safe tower load is the total combined load of the users, tools and materials.
- The maximum safe platform load that can be placed on any one platform in a tower is 220kg which must be evenly distributed over the platform.
- Where there is only one platform in a tower, the maximum safe tower load is limited to 220kgs.

Safety first

Movement

- The tower should only be moved by manual effort, and only from the base
- When moving the tower, beware of live electrical apparatus, particularly overhead, plus wires or moving parts of machinery.
- No person or materials should be on the tower during movement
- Caution should be exercised when wheeling a tower over rough, uneven or sloping ground, taking care to unlock and lock castors.
- The overall height of the tower when being moved, should not exceed 3.5 times the minimum base dimensions, or 4 metres overall height.
- Before use, check the tower is still correct and complete.
- After every movement of the tower use a spirit level to check that it is vertical and level and set the adjustable legs as required.
- Do not move the tower in wind speeds over 7.7 metres per second (27kmph).

Safety first

During use

Beware of high winds in exposed, gusty or medium breeze conditions. We recommend that in wind speeds over 7.7 metres per second (27kmph), cease working on the tower and do not attempt to move it. If the wind becomes a strong breeze, expected to reach 11.3 metres per second (40kmph), tie the tower to a rigid structure. If the wind is likely to reach gale force, over 18 metres per second (64ka mph), the tower should be dismantled.

Wind description	Beaufort scale	Beaufort no.	Speed in mph	Speed in m/sec
Medium breeze	Raises dust and loose paper, twigs snap off	4	8 - 12	4 - 6
Strong breeze	Large branches in motion, telegraph wires whistle	6	25 - 31	11 - 14
Gale force	Walking is difficult	8	39 - 46	17 - 21

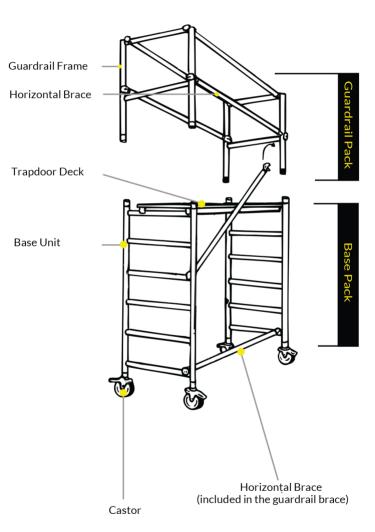
- Beware of open ended buildings, which can cause funnelling effect.
- Do not abuse equipment. Damaged or incorrect components shall not be used
- Raising and lowering components, tools, and/or materials by rope should be conducted within the lower base. Ensure that the safe working load of the supporting decks and the tower structure is not exceeded.
- The assembled tower is a working platform and should not be used as a means of access or egress to other structures.
- Beware of horizontal forces (e.g. power tools) which could generate instability. Maximum horizontal force 20kg.
- Mobile towers are not designed to be suspended please refer to your supplier for advice.
- Do not use boxes or stepladders or other objects on the platform to gain extra height.

Safety first

Maintenance - storage - transport

- All components and their parts should be regularly inspected to identify damage, particularly to joints. Lost or broken parts should be replaced, and any tubing with indentation greater than 5mm should not be used and put to one side for manufacture repair.
 Adjustable leg threads should be cleaned and lightly lubricated to keep them free running.
- Brace claws, frame interlock clips, trapdoor latches and platform wind-locks should be regularly checked to ensure they lock correctly.
- Components should be stored with due care to prevent damage.
- Ensure components are not damaged by excessive strapping forces when transported.

Components



Quantity Schedule

Quantity schedule in packs

FIT-OUT MASTER tower to EN1004: 1.83M platform length

			Internalor	Internal or External Use
	Composite Code Working Height (m) > Platform Height (m) >		38060600 2.6m 0.6m	38061700 3.7m 1.7m
	Description	Weight	Pack Q	Pack Quantities
37051800	Base Pack	34kg	_	_
37251800	2 rung Guardrail Pack	16kg		~

*Toe Board Pack to be bought seperately.

Quantity Schedule

Quantity schedule in components

FIT-OUT MASTER tower to EN1004: 1.83M platform length

		Internal or	Internal or External Use
	Composite Code	38060600	38061700
Wor Platf	Working Height (m) > Platform Height (m) >	2.6m 0.6m	3.7m 1.7m
Product Code	Description	Pack Quantities	ntities
00009000	Base Frame	2	2
37751800	Trapdoor Platform	_	_
00061000	Diagonal Braces		_
00062100	Horizontal Braces		2
57691700	FIT-OUT MASTER Side Toe Board	2°	2
00062200	FIT-OUT MASTER End Toe Board	2°	2
39951800	2 rung Guardrail Frames		2

^c Toe boards required if risk assessment shows necessary.



Stage 1

Maximum platform height 0.6M Maximum working height 2.6M

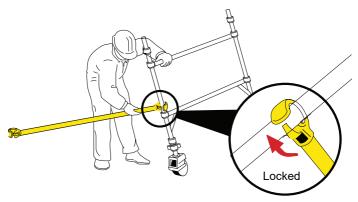
- x2 Base Frame
- x1 Toe board pack(If bought seperately)

Setting up the base unit



- 1 Move the base frames into the required position
- Fit one horizontal brace (red) onto the vertical of a span frame, just above the bottom rung, with the claw facing outwards. The frame will now be self-supporting.

Note: All locking claws must be opened before fitting.



Lock the brakes on all four castors wheels. Ensure the castors are facing outwards from the base unit.



Check that the ground is flat and all four castor wheels are in contact with the ground. Use a spirit level to check the base is level. If the ground is uneven or sloping you will need to fit adjustable legs. See Fitting Adjustable Legs section on page 11 for guidance.

Stage 3

Maximum platform height 1.7M Maximum working height 3.7M

- x1 Base pack
- x1 Adjustable leg pack (Required if ground is uneven or sloping)
- x1 Guardrail pack (2 rung)
- x1 Toe board pack (Required where a risk assessment shows toe boards are necessary)

Follow stage 1 - step 1 - setting up the base unit

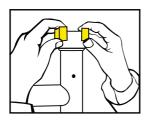
If the ground is uneven or sloping you will need to fit adjustable legs. Refer to the Fitting Adjustable Legs section on page 11 for guidance.

2 Fit a horizontal brace between the bottom rungs on the front face of the base unit.

Important: Always ensure braces are fully locked in position.



Fit the four spring interlock clips supplied with the guardrail pack. Expand the clips over the top of the base unit uprights and then slide down to engage the pin on the clip into hole in the upright.





Fit a 2 rung guardrail frame at each end of the base unit. Ensure the four frame interlock clips are engaged.



Fit a diagonal brace between the 5th rung of the base unit and the lower rung of a guardrail frame.

Important: Always ensure braces are fully locked in position.

Fit a trapdoor platform on the 6th rungs of the base unit. Engage the wind-locks, underneath the rungs, at both ends of the platform.

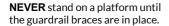


Climb the tower on the inside and from a protected position within the trapdoor, fit four horizontal braces as guardrails on the upper and lower rungs of the guardrail frames, on both sides of the platform.



Important: Always ensure braces are fully locked in position.

When horizontal braces are fitted as guardrails they should always be 0.5m and 1.0m above the platform surface.



If your risk assessment shows it is necessary, fit toe boards to the platform checking that there are no gaps and that the trapdoor opens and closes correctly. The tower structure is now complete at 1.7m platform height

Refer to the Fitting Toe Boards section on page 31 for guidance.



Dismantling procedure

Dismantling the tower is the reverse procedure to assembly. ALWAYS reposition platforms and guardrails as shown. When removing or repositioning guardrail braces always proceed as follows: Unlatch the four guardrail brace hooks furthest from the trapdoor but leave the braces in position. From the protected position trapdoor position, unlatch the four remaining brace hooks and remove the four guardrail braces and then descend.

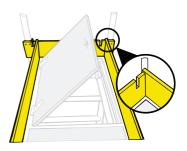
Never stand on a platform without guardrail braces.



Assembly Procedure

Fitting toe boards

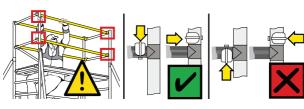
Start with the end boards which have red plastic clips. There are two slots depending on which side you position the diagonal brace. Clip into correct slots, as shown, ensuring that no large objects can fall through and that the trap door can open with ease.



Safety checklist

Checklist

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Ensure horizontal braces and guardrails are fitted correctly. Always fit as shown.

Refer to this checklist before using each time.



Notes		

Notes		



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UNIT - 1: PLOT NO. 237 UDYOG KENDRA-1 ECOTECH-1, GREATER NOIDA 201308 (U.P.) \$\cdot\ +91 9015964626

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