

The **38cm Square Ground Support Tower** is a system manufactured with the purpose of providing a safe lifting medium for a variety of Thomas trusses from 52cm Supertruss through to the largest Roof systems. The Towers will provide the necessary equipment to support a truss rig in venues where the flying points are not strong enough or in the right place. This Tower is capable of lifting 4 tonnes to a maximum height of 12 metres which must include the self weight of the truss rig and the motors. The truss rig is raised and lowered by means of CM Lodestar chains hoists, which are rigged in the truss and work in double fall with the chain running over the Roller Beam at the top of the tower and connected onto the other side of the truss. With suitable restraints fitted the towers can be used outdoors. We detail the component parts below :-

The **Base** of the tower has 4 ball castors which allows the whole assembled rig to be accurately positioned before the towers are raised to their operating position. The Base has 4 screw jack assemblies with 15 cm diameter foot pads which must be adjusted to ensure the tower is vertical and that there is no load on the ball castors.

The **2 metre Hinge Section** is designed to allow the towers to be assembled horizontally at truss top level before being swung and locked in the vertical operating position. This hinge design will work with all truss types

The **Tower Sections** are manufactured from aluminium 6082-T6 - 5.08 cm x 3.2 mm thick wall tube with 2.54 cm x 3.2 mm wall diagonals and are connected together with Thomas truss bolts. The Tower Sections are made to allow 50 cm adjustments in height up to a maximum of 12 metres.

The **Roller Beam** is fitted at the top of the tower. It accepts the chain from the 1 tonne chain hoist which is run over the top of the Roller Beam and back down to the other side of the truss enabling 2 tonnes to be lifted. If you wish to lift 4 tonnes then a **Double Roller Beam** should be specified. Alternatively a **Rocker Beam** can be used enabling 2 - 1 tonne motors to be rigged to lift a total of 4 tonnes.

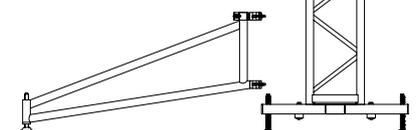
The **Sleeve Block** is the interface between the horizontal truss rig and the vertical towers. It is designed to create a semi rigid joint between the truss grid and the towers by using 16 heavy duty 10 cm wheels to guide the rig up each tower.

PRODUCT CODE	DESCRIPTION	WT kgs
B3800	Base	24
B3801	2 metre Hinge section	32
B3810	1 metre section	13
B3820	2 metre section	24
B3830	3 metre section	36
B3840	4 metre section	43
B3802	Roller beam	22
B4250A	Tower lifting system	32
#	Sleeve block	-

# Select correct one for type of truss being used see over the page.

**Outrigger arms** are required when using less than 3 towers. These are designed to provide stability and rigidity to single or 2 tower systems.

B4003	Outrigger arm & Swivel Coupler	9
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## 38cm Tower System

In addition to the standard truss elements, a sleeve block is supplied, based on the type of truss being used. The following are available :-

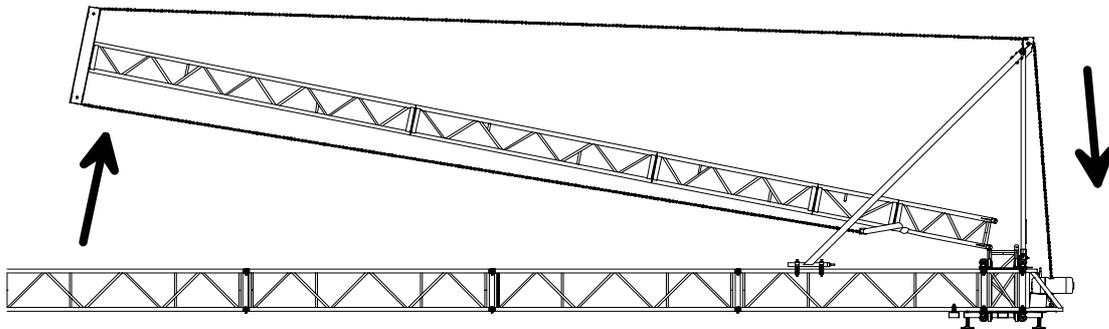
If you are lifting 4 tonnes and are using 2 tonne motors then the Double Roller Beam must be used. However if you want to lift 4 tonnes and only have 1 tonne motors then 2 motors per tower can be rigged in double fall by using the Rocker Beam.

Other lengths of Tower section are listed :-

PRODUCT CODE	DESCRIPTION	WT kgs
B4205	Pre-rig truss sleeve block	44
B4206	Heavy duty sleeve block	36
B1309B	52cm Supertruss Sleeve Plate	8.5
B2606-	Sleeve system for 76cm Folding Supertruss	44
B2609B	Single bar Pre rig Supertruss Sleeve Plate	13.5
B1409B	Pre rig Supertruss Sleeve Plate	13.5
B2809	Supermegatruss Sleeve Plate	9.5
B3804	Double Roller Beam	21
B3803	Rocker Beam	23
B3805	0.5 metre Section	8
B3815	1.5 metre Section	18
B3825	2.5 metre Section	30

The **Tower Lifting System** is a devise fitted to the sleeve block with 2 diagonal braces which clamp on to the horizontal truss to enable the tower to be raised or lowered safely using the chain motor. The chain hoist is rigged in the lifting point and the hoist chain is passed over the lifting system pulley and then around the Roller Beam and fixed to the top of the hinge section. The tower is raised by using the chain hoist to pull up on the tower. We manufacture another version with a built in hand operated winch and wire rope to raise or lower the tower without the need of a chain hoist.

B4250	Tower Lifting System with winch	38
B4250A	Tower Lifting System without	28



The Ground Support Tower system can be used outside but must be suitably anchored from the top of each corner of the truss grid to the ground via a guy wire to a suitable ground anchor. We recommend that the Bases are put on top of a 2.5 cm x 1 metre square piece of plywood. Should a roof system be required then please refer to James Thomas Engineering Ltd. for an approved design to suit your requirements.

The Ground Support Tower system can also be specified with lock offs which provides safety against chain failure. We offer 2 types. The first is for truss systems which will always be rigged at the top of the towers. The second type is designed to fit in the tower at the desired height, whether the truss is at the top of the tower or not.

B4110	Tower top lock off	-
B4120	Adjustable lock off system	-