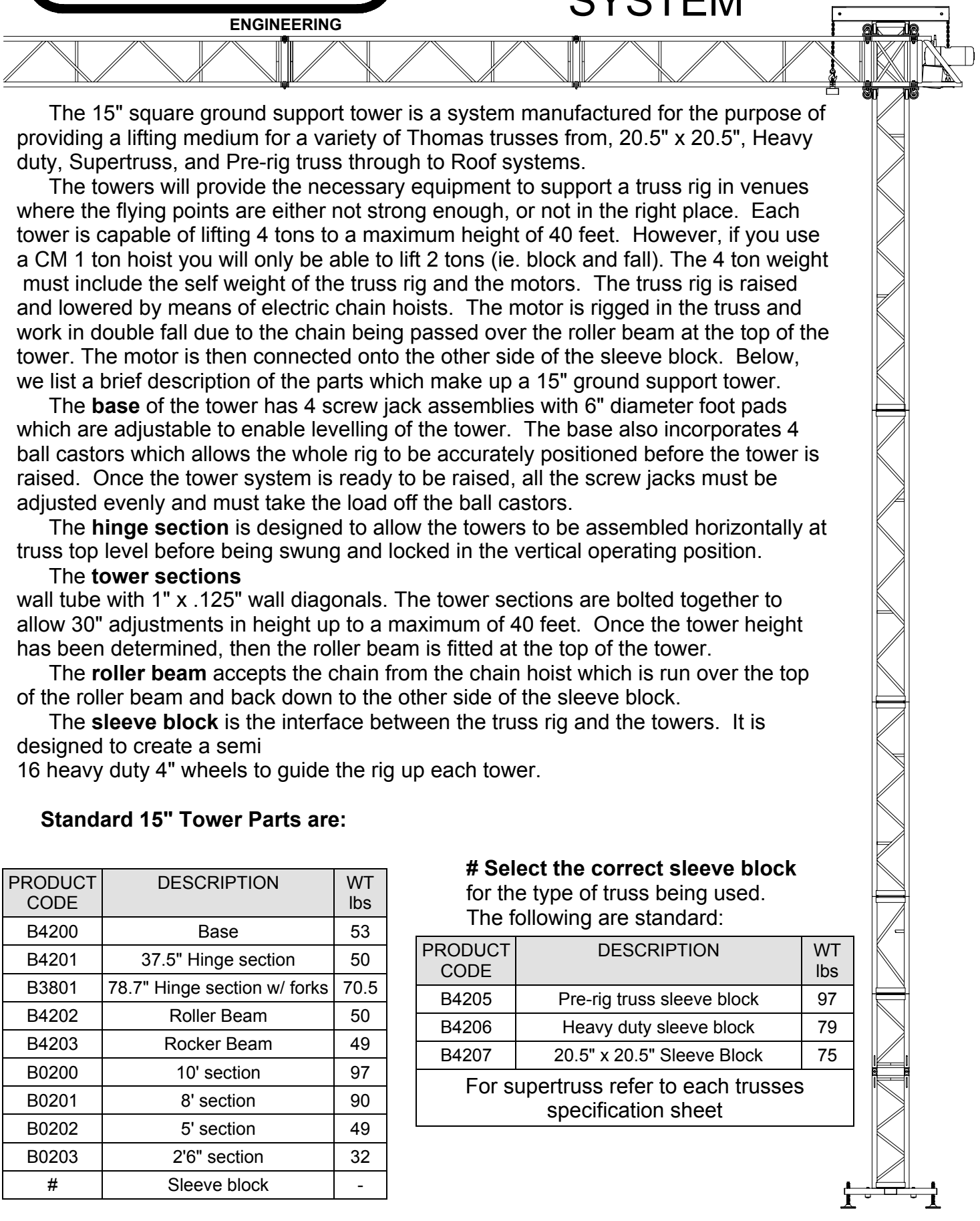
JAMES Thomas ENGINEERING

15" TOWER SYSTEM



The 15" square ground support tower is a system manufactured for the purpose of providing a lifting medium for a variety of Thomas trusses from, 20.5" x 20.5", Heavy duty, Supertruss, and Pre-rig truss through to Roof systems.

The towers will provide the necessary equipment to support a truss rig in venues where the flying points are either not strong enough, or not in the right place. Each tower is capable of lifting 4 tons to a maximum height of 40 feet. However, if you use a CM 1 ton hoist you will only be able to lift 2 tons (ie. block and fall). The 4 ton weight must include the self weight of the truss rig and the motors. The truss rig is raised and lowered by means of electric chain hoists. The motor is rigged in the truss and work in double fall due to the chain being passed over the roller beam at the top of the tower. The motor is then connected onto the other side of the sleeve block. Below, we list a brief description of the parts which make up a 15" ground support tower.

The **base** of the tower has 4 screw jack assemblies with 6" diameter foot pads which are adjustable to enable levelling of the tower. The base also incorporates 4 ball castors which allows the whole rig to be accurately positioned before the tower is raised. Once the tower system is ready to be raised, all the screw jacks must be adjusted evenly and must take the load off the ball castors.

The **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.

The **tower sections**
wall tube with 1" x .125" wall diagonals. The tower sections are bolted together to allow 30" adjustments in height up to a maximum of 40 feet. Once the tower height has been determined, then the roller beam is fitted at the top of the tower.

The **roller beam** accepts the chain from the chain hoist which is run over the top of the roller beam and back down to the other side of the sleeve block.

The **sleeve block** is the interface between the truss rig and the towers. It is designed to create a semi
16 heavy duty 4" wheels to guide the rig up each tower.

Standard 15" Tower Parts are:

PRODUCT CODE	DESCRIPTION	WT lbs
B4200	Base	53
B4201	37.5" Hinge section	50
B3801	78.7" Hinge section w/ forks	70.5
B4202	Roller Beam	50
B4203	Rocker Beam	49
B0200	10' section	97
B0201	8' section	90
B0202	5' section	49
B0203	2'6" section	32
#	Sleeve block	-

 # Select the correct sleeve block
for the type of truss being used.
The following are standard:

PRODUCT CODE	DESCRIPTION	WT lbs
B4205	Pre-rig truss sleeve block	97
B4206	Heavy duty sleeve block	79
B4207	20.5" x 20.5" Sleeve Block	75
For supertruss refer to each trusses specification sheet		

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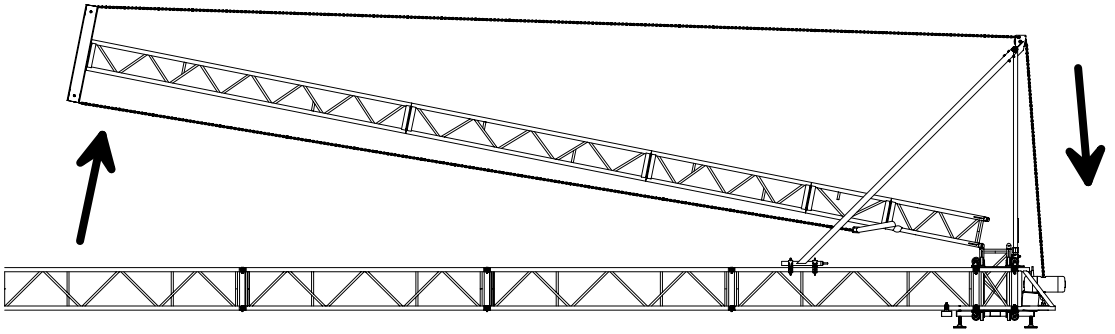
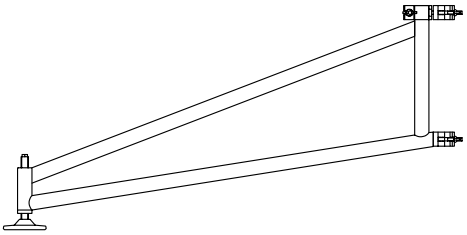
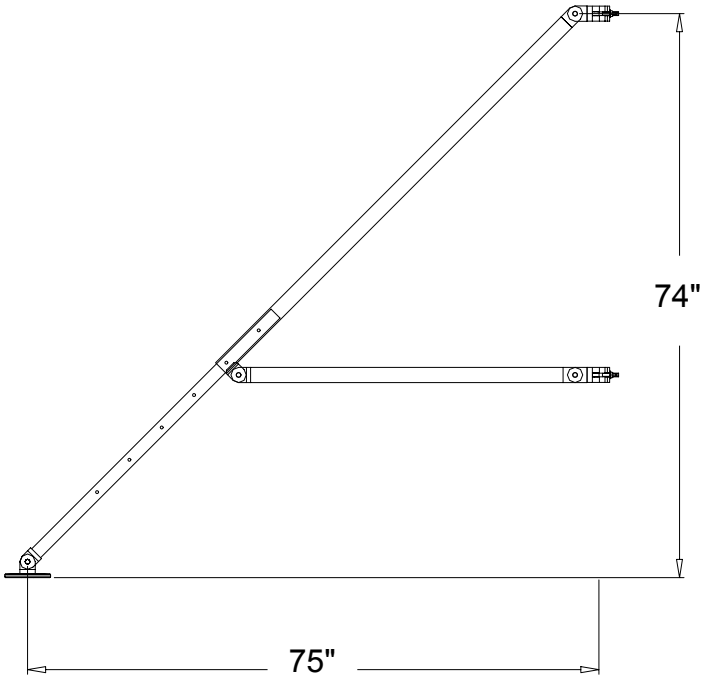
The **Tower Lifting System** is a device fitted to the sleeve block with 2 diagonal braces which clamp on to the horizontal truss to enable the tower to be raised or lowered safely using the chain motor. The chain hoist is rigged in the lifting point and the hoist chain is passed over the lifting system 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. Caution should be used to not pull the tower over, when the tower is near vertical.



PRODUCT CODE	DESCRIPTION	WT lbs
B4250	Tower Lifting System	38
B4003	Small Outrigger arm	19.5
B4003B	Large Outrigger	

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





The ground support tower system can be used outside but must be suitably anchored from the top of each tower sleeve block to the ground via a guy wire to a suitable ground anchor. We recommend that the bases are sat on top of a 3' square piece of 3/4" plywood. Should a cover be required please refer to James Thomas Engineering for an approved design to suit your requirements.

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