

ST TOWER - HEAVY DUTY TOWER SYSTEM

- 1 The black coated, steel base (ST-004) is equipped with 4 castors and four female couplers (CCS6-651) for attachment of the mast section. In most cases, the first mast section can be 50 cm long; however, when S66 or S100 truss is used in the grid a mast section of 100 cm should be used. The base can be used with either short outriggers (ST-011) or long outriggers (ST-012).
- 2 To secure the outriggers within the base, a trigger pin is placed on the inside of the base frame. Pull the pin outwards when mounting the outriggers.
- 3 The ST tower can only be used with a chain hoist. The hoist can be attached in two ways (please see pictures 7 and 8).
- 4 Disassemble the hinge set, mount the half hinges to both mast sections (S40T truss). Male and female connections should be mounted diagonally (as shown in the picture), in order to facilitate the erection of the mast.
- 5 A completely mounted hinge set. First locate the hinge pins on one side. The truss now works as a hinge and can be erected easily. Then locate the remaining hinge pins on the other side to fix the mast into position. Per tower 4 x CCS6-H are needed (hinge set MPT-ST tower). Only use CCS-604ST spigot pints to connect the mast sections, to prevent damage to your sleeve block and the risk of getting "stuck".
- 6 Unscrew the screw jacks in the outriggers, making sure that the castors of the base are free of any load. The complete load of the base should be supported by the screw jacks. Level the base by adjusting the screw jacks. The base must be perfectly level before the mast is erected. Long outriggers are needed for structures with three towers or less.
- 7 To use the ST tower in combination with a chain hoist, Prolyte provides the motor attachment (ST-041). This supplementary component can be attached to the base and has a fixing point for the chain hoist hook. WLL 1000 kg.
- 8 Chain hoists can be attached by use of the motor attachment (ST042). Chain hoists can also be mounted to the grid and sleeve block.
- 9 Prolyte advises that during storage and transportation the ST towers are mounted as an assembly of the following components; base section, 50 cm mast section, sleeve block and top section. This combination facilitates fast, efficient loading and building of the towers (size 80 x 80 x 120cm, weight +/- 120 kg).



ST TOWER - OPTIONS

ST BALLAST FRAME

The ballast frame ST-005 is designed to offer a safe, engineered and easy solution for your ballast requirements. These aluminium frames are simply mounted between the long outriggers of your ST- or MPT base section. Layer screw spindles are placed at the outside for optimum levelling each ballast frame. The system doesn't require any tooling. Standard, pallet-sized water tanks fit on the resulting platforms to create your ballast weight.

HOW TO USE THE BALLAST FRAME

The ballast frames should be used only in conjunction with long outriggers and stabiliser braces. All ballast frames and ballast should be positioned symmetrically. For any other needed set-ups, please contact our engineering department. The amount of ballast required for a structure is dependent on the outcome of structural analysis. Due to deflection of components not all applied ballast can be activated. The outsides will stay grounded, while the area around the tower will have the tendency to tip or be lifted (see drawing example).

ST-005 SPECIFICATIONS

Weight	ST-005: 29,15 kg/frame
Article Code:	ST-005 St ballast frame 1350kg
Additional items required:	2 x ACC-SPIN-LAY/60-60 SCREWJACK per frame are needed.

