



ENGINEERING

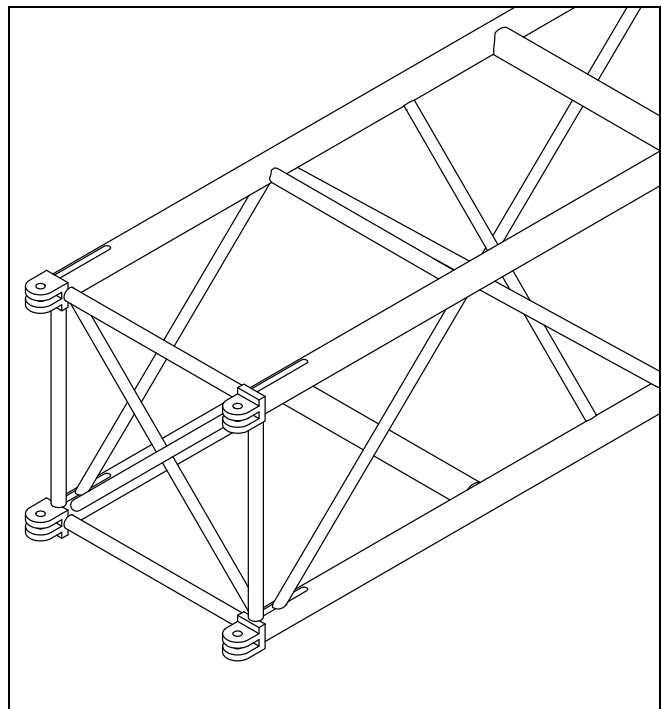
SUPER-TRUSS 20.5 x 20.5

Thomas has rethought truss design to encompass the changing demands of the touring industry. The supertruss design features new double end connectors, which are orientated, so that the truss elements are unisex (they can be used either way). Made from 6061T6 or 6082T6 alloy, the truss has 2" x 0.157" main chord tubes and 1" x 0.125" diagonal tubes.

Supertruss saves truck space because of its very high strength in relation to its size and also the space saving design of the corners.

The corners are simplicity themselves. As for the 2 way corner, only a connecting gate is required to brace between the outer fork connectors. The 3 way corner only requires a connecting gate and 2 square connecting plates. The 4 way corner requires just 2 square connecting plates. In order to use the supertruss with towers, 2 sleeve connecting plates with roller wheels are required with 1 or 2 ladders depending on how many truss connections their are. 60 degree corners require 2 extended double fork connectors and a connecting gate. Other angles can be easily made to order. Variable and vertical connecting forks are available for 0 - 90 degree operation.

PRODUCT CODE	DESCRIPTION	WT lbs
B20144	12' Section	90.5
B20120	10' Section	77
B20096	8' Section	70.5
B20072	6' Section	58.5
B20060	5' Section	49.5
B20030	2' 6" Section	38.5
B20-060G	60 Degree corner gate	33
B20-090G	90 Degree corner gate	11
B20-120G	3 Way gate	10
B20-135G	135 Degree corner gate	8.5
B20-120LG	3 Way gate/ 120 deg. Lifting gate	20
B20-120TLG	Tower Lifting Gate	30
B1306	Vertical connecting fork	1.3
B1307	Horizontal connecting fork	2.2
B20-SSP	Square support plate	11
B20-12SP	12" Tower sleeve plate	26.5
B20-15SP	15" Tower sleeve plate	26.5
B1311	Super-truss to GP20.5x20.5 adapter gate	14
B1312	Lifting point for super-truss	12



LOADING FIGURES show maximum loads between supports in addition to self weight of truss. Information extracted from structural report by The Broadhurst Partnership. * Denotes load limited to suit maximum shear capacity. All loads include a 20% overload factor for dynamic effects.

Span feet (meters)	Maximum Allowable Uniform Loads		Maximum Allowable Center Point Loads	
	Loads pounds (kgs)	Maximum deflection inches (mm)	Loads pounds (kgs)	Maximum deflection inches (mm)
10 (3.048)	7405 (3359)*	0.433 (7)	7405 (3359)*	0.670 (17)
20 (6.096)	7405 (3359)*	0.433 (7)	7405 (3359)*	0.670 (17)
30 (9.144)	7326 (3323)*	1.77 (45)	5870 (2663)	1.77 (45)
40 (12.192)	6435 (2919)	3.0 (75)	3219 (1460)	3.0 (75)
50 (15.24)	3918 (1777)	3.7 (94)	1960 (889)	3.7 (94)
60 (18.288)	2476 (1123)	4.4(112)	1239 (562)	4.4(112)
70 (21.336)	1611 (731)	5.2 (131)	807 (366)	5.2 (131)
80 (24.384)	996 (452)	5.9 (150)	498 (226)	5.9 (150)