



Photo: ModifiC, Russian Federation. Project: Russian telecommunication company "Caravan".

The CT tower is based on C52T mast sections. These mast sections have onesided horizontal bracing to facilitate safe and easy climbing of the towers. C52T truss is constructed of main chords of 60 x 5 mm and diagonals of 30 x 3/48 x 3 mm. Use the CCS7 coupling system with the CCS7-704 or CCS7-703-C52T shortened spigot pin. The base section of the CT tower is similar to the ST tower; the outside dimensions and setup are the same. Extra spindles are added to the base section to absorb the extra forces resulting from the tower's higher loading capacity. Existing ST base sections can be upgraded to accommodate CT towers on request.

The CT tower uses several sleeve modules that combine all the trusses from the S and B Series. This makes it possible to fit almost all S-Series trusses to all four sides by means of bolted female CCS7 couplers. The outside dimensions of the CT sleeve block are the same as the ST sleeve block; both can be combined in one grid. The CT tower has a self-weight of 140 kg.

The CT sleeve block is a fully bolted structural element, making it much stronger and more precise than conventional welded versions.

The CT tower is a cost-effective investment. You need only purchase the special parts if you wish to expand your truss system with towers. There is a structural relation between tower length and size. Additionally, the applied load and the method of restraining the tower base also contribute to determination of the total loading capacity. All these factors must be taken into consideration when determining the allowable load and tower length.

The allowable load given is based on a uniformly distributed load (UDL). Load cases with several point loads can show much better loading capacities.



CT Series - standard available lengths									
Meters	0,5	1,00	1,50	2,00	2,50	3,00	4,00	5,00	Avarage weight per meter = 16,5 kg.
Feet	1,64	3,28	4,92	6,56	8,20	9,84	13,12	16,4	Avarage weight in pounds per feet = 11,1 lbs.

C52T - Allowable loading																
						MAXIMUM ALLOWABLE POINT LOADS										
			Distributed ad			Centre F	oint Load				Third Points er Point		Fourth Points er Point		Fifth Points er Point	
S	PAN	UDL		DEFLECTION		CPL		DEFLECTION		TPL		QPL		FPL		SPAN
m	ft	kg/m	lbs/ft	mm	inch	kgs	lbs	mm	inch	kgs	lbs	kgs	lbs	kgs	lbs	total weight
6	19,7	933,4	628,0	21	0,8	3049,7	6730,6	17	0,7	2045,5	4514,3	1687,8	3724,9	1396,5	3082,0	114
7	23,0	798,1	537,0	28	1,1	2716,4	5995,1	23	0,9	1809,1	3992,6	1517,7	3349,6	1197,4	2642,7	133
8	26,2	696,7	468,8	37	1,5	2446,1	5398,6	30	1,2	1647,4	3635,9	1378,7	3042,8	1058,1	2335,2	152
9	29,5	613,6	412,9	47	1,8	2222,1	4904,2	38	1,5	1510,8	3334,4	1238,0	2732,4	957,8	2113,8	171
10	32,8	494,5	332,7	58	2,3	2033,2	4487,4	46	1,8	1393,7	3075,9	1121,9	2476,0	873,7	1928,3	190
11	36,1	406,3	273,4	70	2,8	1871,6	4130,6	56	2,2	1292,1	2851,6	1024,3	2260,6	802,2	1770,4	209
12	39,4	339,3	228,3	83	3,3	1731,4	3821,3	67	2,6	1202,9	2654,8	940,9	2076,6	740,5	1634,3	228
13	42,6	287,1	193,2	98	3,8	1608,6	3550,2	78	3,1	1124,0	2480,6	868,8	1917,5	686,7	1515,5	247
14	45,9	245,7	165,3	113	4,5	1500,0	3310,4	91	3,6	1053,5	2325,1	805,8	1778,3	639,3	1410,9	266
15	49,2	212,3	142,8	130	5,1	1403,0	3096,4	104	4,1	990,1	2185,2	750,1	1655,4	597,1	1317,8	285
16	52,5	184,9	124,4	148	5,8	1315,8	2904,1	119	4,7	932,8	2058,6	700,5	1545,9	559,3	1234,5	304
17	55,8	162,3	109,2	167	6,6	1237,0	2730,0	134	5,3	880,5	1943,3	655,9	1447,6	525,3	1159,2	323
18	59,0	143,3	96,4	187	7,4	1165,1	2571,4	150	5,9	832,7	1837,7	615,7	1358,8	494,3	1090,9	342
19	62,3	127,2	85,6	209	8,2	1099,4	2426,3	167	6,6	788,6	1740,5	579,1	1278,0	466,0	1028,5	361
20	65,6	113,5	76,4	231	9,1	1038,8	2292,7	185	7,3	747,9	1650,7	545,6	1204,1	440,1	971,2	380
21	68,9	101,7	68,4	255	10,0	982,9	2169,2	204	8,0	710,2	1567,3	514,8	1136,2	416,1	918,4	399
22	72,2	91,5	61,5	280	11,0	930,9	2054,6	224	8,8	674,9	1489,6	486,4	1073,4	393,9	869,4	418
23	75,4	82,5	55,5	306	12,0	882,5	1947,8	245	9,6	642,0	1416,9	460,0	1015,2	373,3	823,9	437

- Tüv certification only valid for loading table above.
- · Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- · Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

Technical specifications CT Tower							
max. height	20,00 m						
max. loading capacity*	5000 kg**						
sleeve block suitable for truss- series	S52F•V, S66R•V, S100F and B100RV (with various sleeve blocks)						
alloy alu parts	EN-AW 6082 T6						

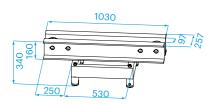
- \* To be used with chainhoist only.
- \*\* There is a structural relation between tower height and size, further the applied load and the method of restraining the tower base and top also have its influence on the total loading capacity. All these factors must be taken into consideration when determining the allowable load.

More information can be found in the Prolyte BlackBook.

Technical Specifications - C52T					
Types	Tower truss				
Alloy	EN AW 6082 T6				
Main Chords	60 x 5 mm				
Diagonal Members	30 x 3 / 48 x 3 mm				
Coupling System	CCS7				

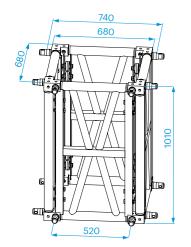
Structural data can be found at www.prolyte.com





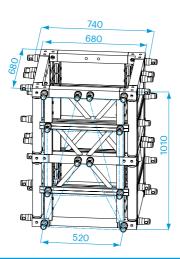
C52T-009

Top section. Pully suitable for 8 mm chain or 8 mm steelwire.



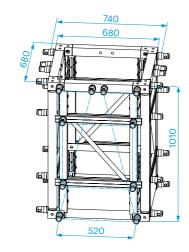
C52T-010-4-B100-0

Sleeve block for B100RV.



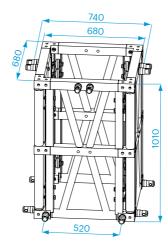
C52T-010-4-100-52-0

Sleeve block for B100RV / S52F / S52V /S100F.



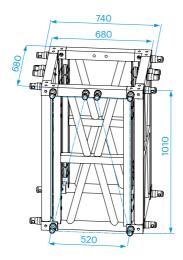
C52T-010-4-100-52V-0

Sleeve block for B100RV / S100F / S52V.



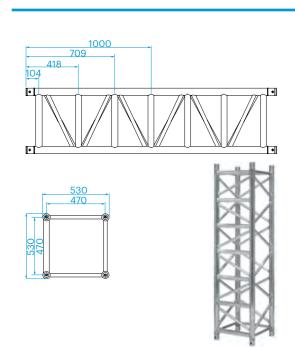
C52T-010-4-100-52F-0

Sleeve block for B100RV / S52F / S100F.



C52T-010-4-B/S100-0

Sleeve block for B100RV / S100F.



CT-010	Sleeve	Block -	Allowable	e canti	lever	oa

Length (L)	B100RV
	P (kg)
1	3141
1,5	2383
2	1911
2,5	1587
3	1351
3,5	1169
4	1025
4,5	907
5	808
5,5	724
6	651

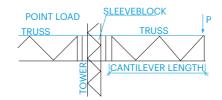




Photo: Neuro Tech Asia

The DT tower is based on D75T mast sections. These mast sections have a four side diagonal webbing with on one side en extra horizontal bracing to facilitate safe and easy climbing of the towers with an appropriate fall protection system. The tower modules are equipped with a pin/fork connection system for easy assembly.

While the D75T towers can be loaded up to 30 tonnes at a height of 20m, building a complete grid or ground support system requires more elements, designed to absorb substantial loads. Using the M145RV Mammoth truss you can build spans up to 60 metres, still allowing a centre point load of 2000 kg. For use in ground support systems, Prolyte has designed a sleeve block for the D75 tower, the D75T-010-4-M145RV-0, which combines the D75T towers with the M145RV Mammoth truss.

The sleeve block can handle a cantilever point load of 2000 kg. at a 10m cantilever. Furthermore, the sleeve block is equipped with a pinned dead hang system, this facilitates a dedicated dead hang position within the tower and increases the tower loading capacity significantly. Sliding the dead hang pin into its integrated holder within the tower is easy, quick and safe.

The base section can be integrated into a 2072 x 2072 scaffolding system and creates integral stability for the tower section, which results in an increase of the tower capacity. It features integrated dedicated attachments for guy wires and lifting points.



