• **T**ower **C**rane • **H**oist • **M**obile •
Rentals and **S**ales

LEWIS
CRANE & HOIST

2214 HWY. 1187 BLDG. 1
Mansfield, TX76063
817-225-1090

*"**Y**our **T**urnkey **C**rane and **H**oist **P**rovider"*

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Sun STT-293

Topless Tower Crane

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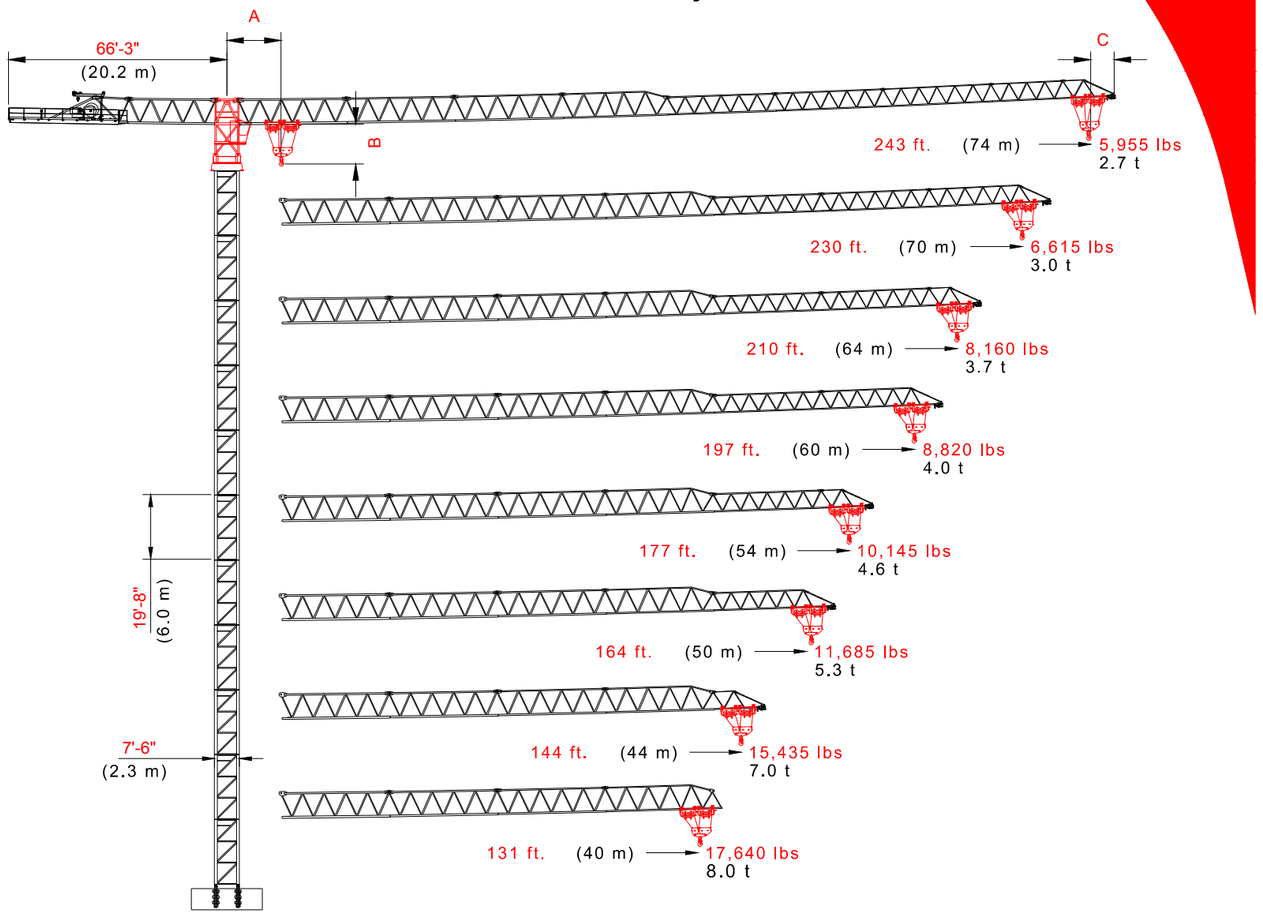
Topless Tower Crane
Modular System



A = Centerline crane to minimum 2 part hook radius 11'-6" (3.5 m)
B = Bottom of jib to hook block 11'-10" (3.6 m)
C = Add for jib tip radius 6'-7" (2.0 m)

Line Speeds and Power Requirements

Hoist Unit
100 hp 75 kW

2 - Part Line	Line Speed	Capacity
19,845 lbs 9 t	0 - 131 ft/min 0 - 40 m/min	19,845 lbs 9.0 t
	0 - 262 ft/min 0 - 80 m/min	9,922 lbs 4.5 t
	0 - 525 ft/min 0 - 160 m/min	4,961 lbs 2.25 t

4 - Part Line	Line Speed	Capacity
39,690 lbs 18 t	0 - 65.6 ft/min 0 - 20 m/min	39,690 lbs 18.0 t
	0 - 131 ft/min 0 - 40 m/min	19,845 lbs 9.0 t
	0 - 262.5 ft/min 0 - 80 m/min	9,922 lbs 4.5 t

Unit	Horsepower	Kilowatts	Speed
Trolley	10 Hp	7.5 Kw	0 - 226 ft/min 0 - 69 m/min
Swing	2 x 10 Hp	2 x 7.5 Kw	0 - 0.8 rpm

Power Requirements
460 volts, 60 cycle, 3 phase: 300 amp service

Additional Equipment and Services Available

Moritsch Tower Cranes
Comedil Tower Cranes
Peiner Tower Cranes
Sun Tower Cranes
Comansa Tower Cranes
Timberland Derricks
Hardrock Elevators
Hercules Elevators
Specialized Rigging
Technical Services
Third Party Inspections
Parts and Repair Services
Erection and Dismantlement Services
*Due to product improvement specifications are subject to change without notice.

EQUIPMENT RENTALS - SALES- 24 HOUR SERVICE - YARD STORAGE & TRANSFERS - REGIONAL SERVICE

2214 FM 1187, SUITE 1
MANSFIELD, TX 76063
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Crane Component List

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DESCRIPTION	DIMENSION L x W x H	WEIGHT
Mast H205B	7'6" x 7'6" x 19'8" 2.3m x 2.3m x 6.0m	10,170 lbs 4,853 kg
Mast H205A	7'8" x 7'8" x 19'8" 2.3m x 2.3m x 6.0m	14,396 lbs 6,530 kg
Anchor Stool H205B	6'11" x 1'11" x 1'11" 2.13m x 0.6m x 0.6m	997 lbs 452 kg
Anchor Stool H205A	8'4" x 2'7" x 2'7" 2.55m x 0.8m x 0.8m	1,824 lbs 827 kg
Telescoping Cage	14'7" x 26'5" x 39'1" 4.5m x 8.1m x 11.9m	30,200 lbs 13,698 kg
Complete Slewing Unit	8'2" x 8'2" x 7'4" 2.50m x 2.50m x 2.25m	22,000 lbs 9,979 kg
Cathead	11'7" x 9'6" x 17'7" 3.1m x 2.9m x 5.37m	9,393 lbs 4,261 kg
Operators Cabin	6'3" x 4'3" x 6'8" 1.9m x 1.3m x 2.1m	1,544 lbs 700 kg
Counter-weight deck	38' x 11'9" x 9'5" 11.6m x 3.6m x 2.9m	16,400 lbs 7,438 kg
Hoisting Winch	8'4" x 8'6" x 4'5" 2.5m x 2.6m x 1.4m	13,500 lbs 6,123 kg
Counter-jib	27'5" x 5'7" x 8'1" 8.4m x 1.7m x 2.5m	6,615 lbs 3,000 kg
Hook Block	5'9" x 1'1" x 5'9" 1.8m x 0.3m x 1.7m	1,224 lbs 555 kg
Jib Trolley	11'4" x 6'1" x 4'1" 3.5m x 1.9m x 1.2m	1,568 lbs 711 kg
Jib Section L J03 ①	34'0" x 4'7" x 8'2" 10.4m x 1.4m x 2.5m	8,950 lbs 4,060 kg
Jib Section L J04 ②	33'9" x 4'7" x 8'0" 10.3m x 1.4m x 2.4m	7,130 lbs 3,234 kg
Jib Section L J05 ③	33'8" x 4'7" x 7'10" 10.3m x 1.4m x 2.4m	5,733 lbs 2,600 kg

DESCRIPTION	DIMENSION L x W x H	WEIGHT
Jib Section ④ L JO6	33'7" x 4'7" x 7'8" 10.2m x 1.4m x 2.4m	4,630 lbs 2,100 kg
Jib Section ⑤ L JO7	33'6" x 4'7" x 5'9" 10.2m x 1.4m x 1.8m	3,576 lbs 1,622 kg
Jib Section ⑥ L JO8	33'4" x 4'7" x 5'8" 10.2m x 1.4m x 1.7m	2,734 lbs 1,240 kg
Jib Section ⑦ L JO9	33'4" x 4'7" x 5'7" 10.2m x 1.4m x 1.7m	2,112 lbs 958 kg
Jib Section ⑧ L J11	13'6" x 4'7" x 5'8" 4.1m x 1.4m x 1.7m	695 lbs 315 kg
Jib Assembly for 242.8ft (74m) jib ①②③④⑤⑥⑦⑧ + Tip	242'10" x 4'7" x 8'2" 74m x 1.4m x 2.5m	48,510 lbs 22,004 kg
Jib Assembly for 229.7ft (70m) jib ①②③④⑤⑥⑦ + Tip	229'8" x 4'7" x 8'2" 70m x 1.4m x 2.5m	47,815 lbs 21,689 kg
Jib Assembly for 210ft (64m) jib ①②③④⑤⑥⑧ + Tip	210' x 4'7" x 8'2" 64m x 1.4m x 2.5m	46,398 lbs 21,046 kg
Jib Assembly for 196.9ft (64m) jib ①②③④⑤⑥+ Tip	196'10" x 4'7" x 8'2" 60m x 1.4m x 2.5m	45,703 lbs 20,731 kg
Jib Assembly for 177.2ft (54m) jib ①②③④⑤⑧ + Tip	177'2" x 4'7" x 8'2" 54m x 1.4m x 2.5m	43,663 lbs 19,805 kg
Jib Assembly for 164ft (50m) jib ①②③④⑤ + Tip	164' x 4'7" x 8'2" 50m x 1.4m x 2.48m	42,969 lbs 19,490 kg
Jib Assembly for 144.4ft (44m) jib ①②③④⑧ + Tip	144'4" x 4'7" x 8'2" 44m x 1.4m x 2.48m	40,087 lbs 18,183 kg
Jib Assembly for 131.2ft (40m) jib ①②③④ + Tip	131'2" x 4'7" x 8'2" 40m x 1.4m x 2.48m	39,392 lbs 17,868 kg
Counter-Jib Block A	8'2" x 1'3" x 7'5" 2.48m x 0.38m x 2.27m	8,820 lbs 4,000 kg
Counter-Jib Block B	8'2" x 1'3" x 3'10" 2.48m x 0.38m x 1.17m	4,410 lbs 2,000 kg
Counter-Jib Block C	7'1" x 1'3" x 2'4" 2.15m x 0.38m x 0.71m	2,205 lbs 1,000 kg

* Inclusive of ladders, platforms and assembly equipment
** Complete of trolley winch and various accessories

NOTE: Weights and dimensions are approximate. Weigh components before lifting.

1 jib assembly doesn't include trolley, pulley support and load block
2 Counter-jib does not include hoist winch, handrails, platforms and tie bars
3 Turntable complete doesn't include platform and operator cabin
4 Cathead includes cabin, rails, platform and ladder
5 Telescoping cage doesn't include platform and ladder

Radius and Capacities

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Radius and capacity (feet and pounds)	2-Part-Line									ft
Hook Radius	98	111	131	144	164	177	197	210	230	243
										lbs
243 ft	19,845 lbs - 85ft	16,890	14,685	12,238	10,981	9,481	8,666	7,673	7,100	6,372	5,955
230 ft	19,845 lbs - 87 ft	17,464	15,192	12,679	11,378	9,834	8,996	7,960	7,365	6,615	
210 ft	19,845 lbs - 95 ft	19,404	16,714	13,958	12,546	10,849	9,945	8,798	8,160		
197 ft	19,845 lbs - 95 ft	19,404	17,331	13,980	12,568	10,871	9,967	8,820			
177 ft	19,845 lbs - 97 ft	19,624	17,045	14,222	12,789	11,069	10,145				
164 ft	19,845 lbs - 102 ft	19,845	17,949	14,994	13,495	11,685					
144 ft	19,845 lbs - 115 ft	19,845	19,845	17,155	15,435						
131 ft	19,845 lbs - 118 ft	19,845	19,845	17,640							

Radius and capacity (feet and pounds)	4-Part-Line									ft
Hook Radius	98	111	131	144	164	177	197	210	230	243
										lbs
243 ft	39,690 lbs - 47 ft	15,470	13,583	11,135	9,878	8,379	7,563	6,571	5,998	5,270	4,850
230 ft	39,690 lbs - 48 ft	16,361	14,090	11,576	10,275	8,732	7,894	6,858	6,262	5,510	
210 ft	39,690 lbs - 52 ft	18,301	15,611	12,855	11,444	9,746	8,842	7,695	7,055		
197 ft	39,690 lbs - 51 ft	18,301	16,228	12,877	11,466	9,768	8,864	7,715			
177 ft	39,690 lbs - 52 ft	18,522	15,942	13,120	11,686	9,967	9,040				
164 ft	39,690 lbs - 53 ft	18,963	16,846	13,891	12,392	10,585					
144 ft	39,690 lbs - 60 ft	22,270	19,294	16,052	14,330						
131 ft	39,690 lbs - 61 ft	22,821	19,845	16,535							

Radius and capacity (meters and tons)	2-Part-Line									m
Hook Radius	30	34	40	44	50	54	60	64	70	74
										t
74 m	9 t - 25.9 m	7.66	6.66	5.55	4.98	4.30	3.93	3.48	3.22	2.89	2.70
70 m	9 t - 26.7 m	7.92	6.89	5.75	5.16	4.46	4.08	3.61	3.34	3.00	
64 m	9 t - 29.1 m	8.80	7.58	6.33	5.69	4.92	4.51	3.99	3.70		
60 m	9 t - 29.1 m	8.80	7.86	6.34	5.70	4.93	4.52	4.00			
54 m	9 t - 29.6 m	8.90	7.73	6.45	5.80	5.02	4.60				
50 m	9 t - 31.0 m	9.00	8.14	6.80	6.12	5.30					
44 m	9 t - 35.0 m	9.00	9.00	7.78	7.00						
40 m	9 t - 35.9 m	9.00	9.00	8.00							

Radius and capacity (meters and tons)	4-Part-Line									m
Hook Radius	30	34	40	44	50	54	60	64	70	74
										t
74 m	18 t - 14.3 m	7.02	6.16	5.05	4.48	3.80	3.43	2.98	2.72	2.39	2.20
70 m	18 t - 14.6 m	7.42	6.39	5.25	4.66	3.96	3.58	3.11	2.84	2.50	
64 m	18 t - 15.7 m	8.30	7.08	5.83	5.19	4.42	4.01	3.49	3.20		
60 m	18 t - 15.6 m	8.30	7.36	5.84	5.20	4.43	4.02	3.50			
54 m	18 t - 15.7 m	8.40	7.23	5.95	5.30	4.52	4.10				
50 m	18 t - 16.3 m	8.60	7.64	6.30	5.62	4.80					
44 m	18 t - 18.2 m	10.10	8.75	7.28	6.50						
40 m	18 t - 18.5 m	10.35	9.00	7.50							

Hook Heights / Freestanding

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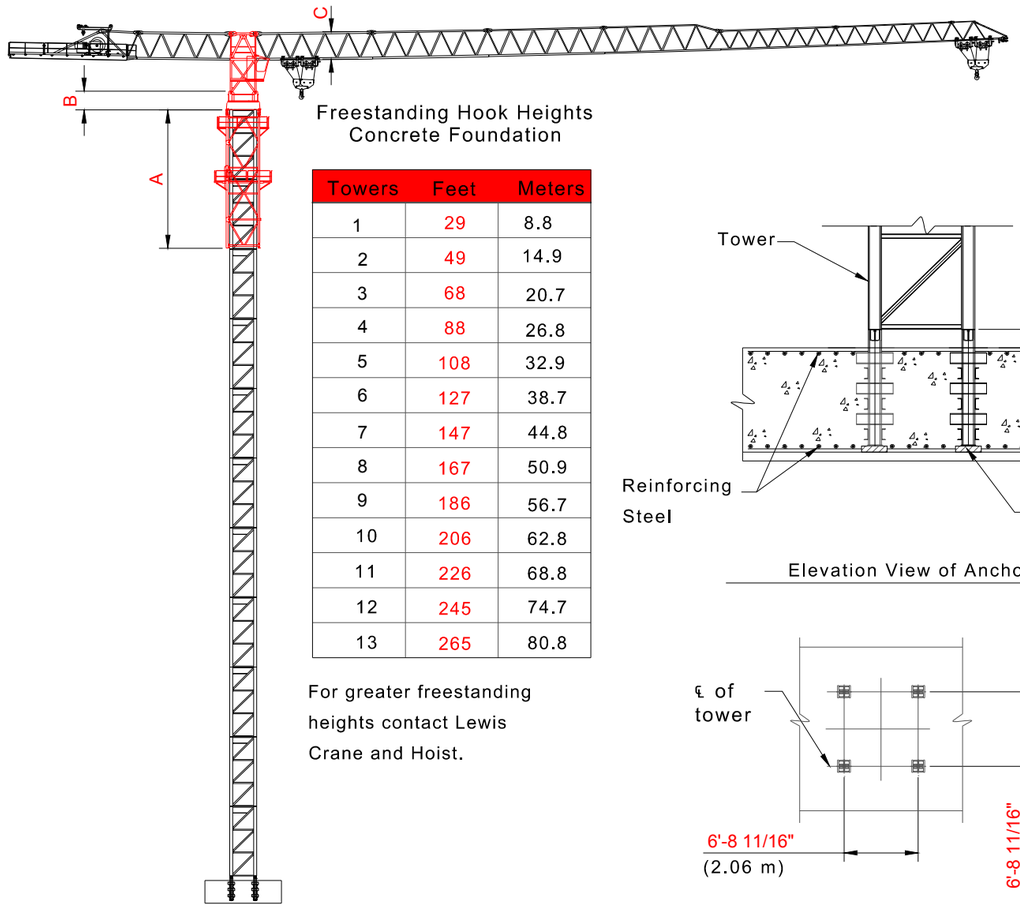
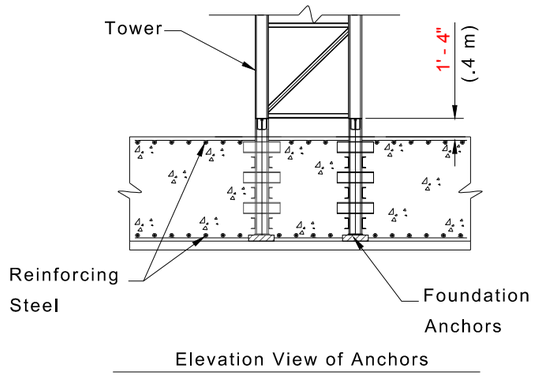


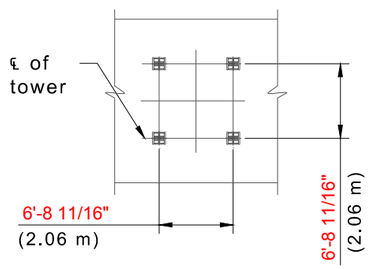
Freestanding Hook Heights
Concrete Foundation

Towers	Feet	Meters
1	29	8.8
2	49	14.9
3	68	20.7
4	88	26.8
5	108	32.9
6	127	38.7
7	147	44.8
8	167	50.9
9	186	56.7
10	206	62.8
11	226	68.8
12	245	74.7
13	265	80.8

For greater freestanding heights contact Lewis Crane and Hoist.



Elevation View of Anchors



Plan View of Anchors

A = Height of telescoping unit 39'-1"(7.3 m)
B = Height of complete slewing unit 7'-4"(2.2 m)
C = Height of jib section 8'-4" (2.5 m)

Climbing / Tie - in Assembly

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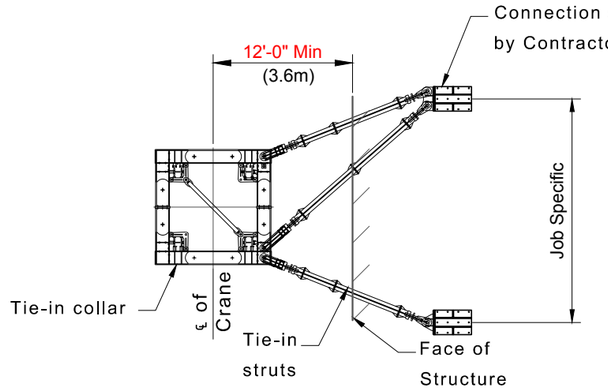
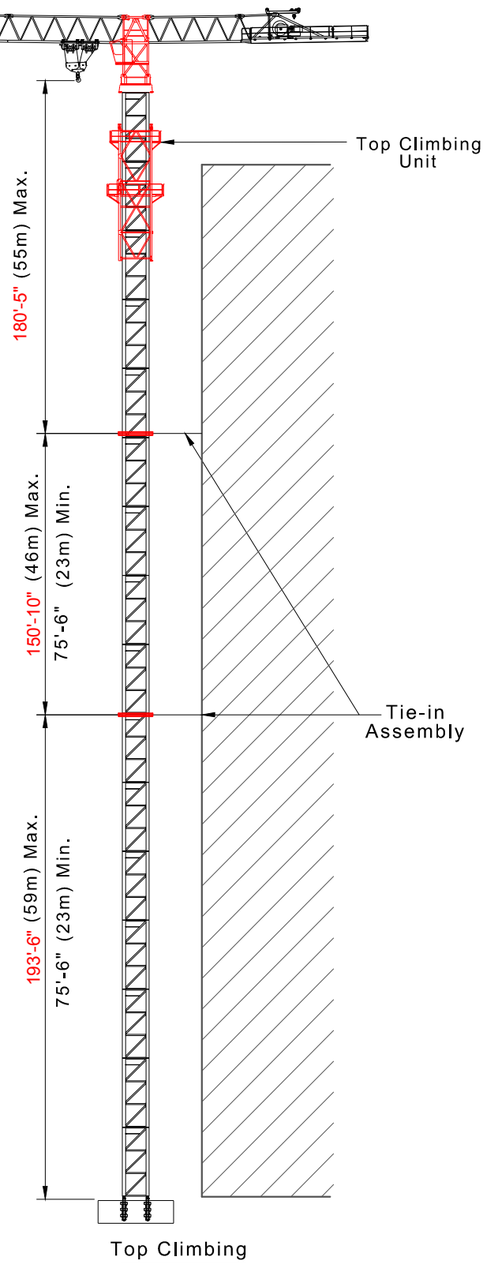
Note:
1. Climbing lugs must be oriented to ensure cab is positioned away from building.
2. Lower or remove top climbing unit prior operating the crane
3. If hook height exceeds 330ft (100m) the number of above the upper most tie-in location must be reduced by one section



NOTE: Tie-in Detail Plan View

Tie-in installations may vary due to job site conditions. Contact Lewis Crane and Hoist for information regarding dimensions and reaction forces.

The jib must be parallel to the face of building when climbing.



Top Climbing