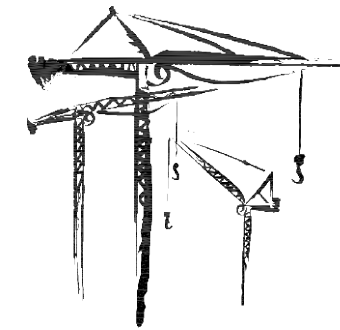


2214 Hwy 1187 - BLDG 1
Mansfield, TX. 76063
Office : 817.225.1090 * Fax : 817.225.1035
Website : www.suncraneandhoist.com

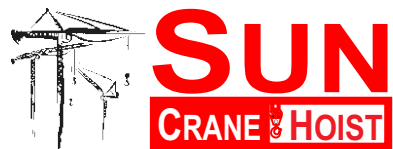
Turnkey Solutions * Parts and Service * Training and Safety * Transportation



PEINER SK415-20

Tower Crane
PRODUCT SPEC SHEET

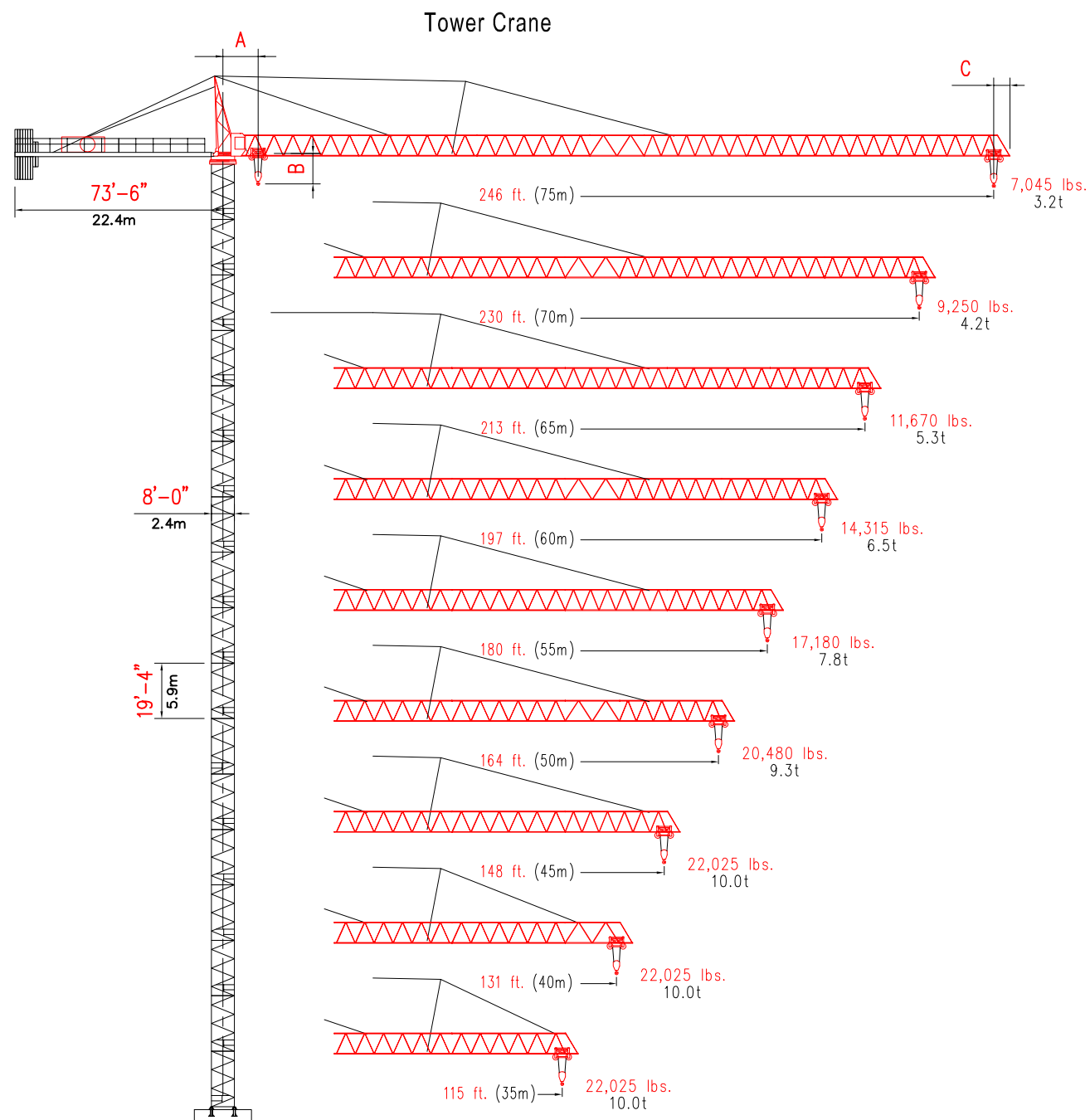




PEINER SK 415-20

PEINER SK 415-20

LINE SPEEDS AND POWER REQUIREMENTS



Note: Specification sheet intended for information only*

- A = Centerline crane to minimum 2-part hook radius 9'-10" (3.0m)
- B = Bottom of jib to hook block 9'-10" (3.0m)
- C = Add for jib tip radius 4'-11" (1.5m) (2-Part)

Hoist Unit

108 hp 79 kW

2 - Part Line	Line Speed	Capacity
Gear 1	110 ft/min 34 m/min	22,000 lbs 10t
Gear 2	177 ft/min 54 m/min	14,700 lbs 7.1t
Gear 3	275 ft/min 84 m/min	9,300 lbs 4.2t
Gear 4	440 ft/min 134 m/min	5,500 lbs 2.5t

4 - Part Line	Line Speed	Capacity
Gear 1	55 ft/min 17 m/min	44,000 lbs 20t
Gear 2	89 ft/min 27 m/min	29,440 lbs 14.2t
Gear 3	138 ft/min 42 m/min	18,600 lbs 8.4t
Gear 4	220 ft/min 67 m/min	11,000 lbs 5t

Unit	Horsepower	Kilowatts	Speed
Trolley	14.2	10.5	0 - 312 ft/min 0 - 95 m/min
Swing	2 x 11 3 x 11	2 x 8.2 3 x 8.2	1.0 rpm
Traveling	4 x 11.9	4 x 88	0 - 100 ft/min 0 - 30 m/min

Power Requirements

480 volts, 60 cycle, 3 phase: 300 amp service

Additional Equipment and Services Available

- Peiner Tower Cranes
- Sun Tower Cranes
- Hercules Elevators
- Timberland Derricks
- Specialized Rigging
- Technical Services
- Third Party Inspections
- Parts and Repair Services
- Erection and Dismantlement Services

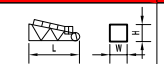
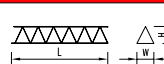
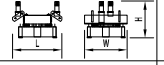
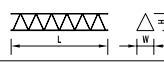

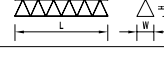
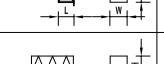
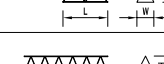
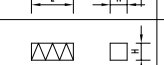
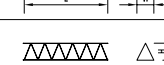

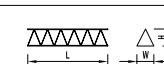

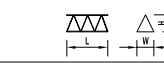
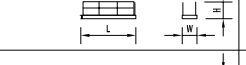
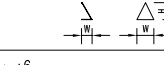
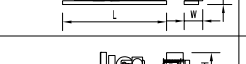

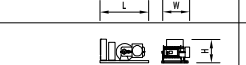
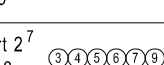

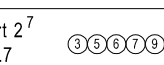
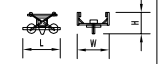
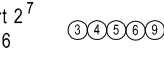
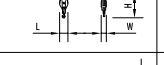
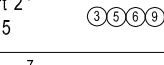
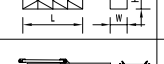
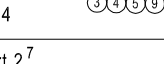
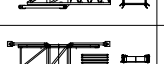
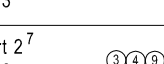



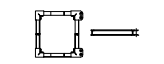

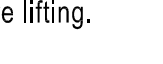
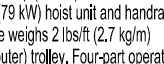

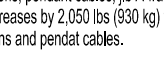

*Due to product improvement specifications are subject to change without notice.

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

2214 FM 1187, Suite 1
Mansfield, TX 76063
O 817.225.1090
F 817.225.1095

WWW.SUNCRANEANDHOIST.COM

Crane Component List

DESCRIPTION	DIMENSION L x W x H	WEIGHT	DESCRIPTION	DIMENSION L x W x H	WEIGHT
Tower Top 	29'-4" x 7'-1" x 8'-11" 8.95m x 2.15m x 2.73m	8,600 lbs 3900 kg	Jib Section ① 	38'-11" x 6'-6" x 7'-3" 11.86m x 2.0m x 2.20m	6,650 lbs 3 016 kg
Turntable (Complete) ¹ Upper & Lower Part 	9'-8" x 7'-9" x 7'-7" 2.95m x 2.35m x 2.3m	21,715 lbs 9850 kg	Jib Section ② 	40'-6" x 6'-6" x 7'-3" 12.34m x 2.00m x 2.20m	5,175 lbs 2 347 kg
Operator's Cab with Platform & Panel 	8'-6" x 6'-7" x 7'-2" 2.58m x 2.0m x 2.4m	3,085 lbs 1400 kg	Jib Section ③ 	38'-10" x 6'-6" x 7'-7" 11.84m x 2.00m x 2.31m	4,750 lbs 2 154 kg
Tower Section (TSK212) 	6'-8" x 7'-10" x 9'-10" 2.02m x 2.4m x 3.0m	6,175 lbs 2800 kg	Jib Section ④ 	18'-8" x 6'-6" x 6'-3" 5.69m x 2.00m x 1.91m	2,000 lbs 907 kg
Tower Section (TS212) 	19'-5" x 7'-10" x 8'-0" 5.92m x 2.4m x 2.44m	9,125 lbs 4140 kg	Jib Section ⑤ 	35'-0" x 6'-6" x 6'-11" 10.67m x 2.00m x 2.10m	4,000 lbs 1 814 kg
Transition Section (TS213/212) 	19'-5" x 7'-11" x 7'-11" 5.92m x 2.4m x 2.44m	9,930 lbs 4500 kg	Jib Section ⑥ 	35'-5" x 6'-6" x 6'-4" 10.00m x 2.00m x 1.93m	3,000 lbs 1 360 kg
Tower Section (TS213) 	19'-5" x 7'-11" x 7'-11" 5.92m x 2.41m x 2.41m	9,930 lbs 4500 kg	Jib Section ⑦ 	33'-6" x 6'-6" x 6'-3" 10.21m x 2.00m x 1.91m	2,150 lbs 975 kg
Counterjib ² (Complete) 	69'-7" x 9'-0" x 5'-7" 21.2m x 2.75m x 1.7m	20,545 lbs 9320 kg	Jib Section ⑧ 	17'-1" x 6'-6" x 6'-3" 5.69m x 2.00m x 1.91m	1,750 lbs 794 kg
Counterjib Section #1 (Inner) 	31'-10" x 6'-6" x 5'-6" 9.71m x 1.98m x 1.67m	4,740 lbs 2500 kg	Jib Section ⑨ 9 = TIP 	4'-6" x 6'-6" x 4'-6" 1.37m x 1.87m x 1.37m	850 lbs 385 kg
Counterjib Section ³ #2 (Outer) 	38'-1" x 9'-0" x 5'-7" 11.6m x 2.75m x 1.7m	15,805 lbs 7170 kg	Jib Assembly Part ¹⁶ for all Jib Assemblies 	76'-2" x 6'-2" x 7'-1" 23.2m x 1.87m x 2.17m	18,050 lbs 8 187 kg
Hoist Unit ⁴ (108 hp/79 kW) 	7'-6" x 5'-5" x 3'-3" 2.29m x 1.66m x 1.0m	5,400 lbs 2450 kg	Jib Assembly Part ²⁷ 246-ft (74.9m) = L9 	180'-0" x 6'-1" x 6'-5" 51.34m x 1.84m x 1.95m	21,410 lbs 9 711 kg
Hoist Unit ⁴ (167 hp/125 kW) 	7'-6" x 5'-5" x 3'-3" 2.29m x 1.66m x 1.0m	9,900 lbs 4490 kg	Jib Assembly Part ²⁷ 230-ft (70.1m) = L8 	163'-0" x 6'-1" x 6'-5" 43.6m x 1.84m x 1.95m	19,660 lbs 8 918 kg
Counterweight Block A 	14'-9" x 7'-5" x 5'-1" 4.5m x 0.19m x 1.55m	6,800 lbs 3100 kg	Jib Assembly Part ²⁷ 213-ft (64.9m) = L7 	145'-0" x 6'-1" x 6'-5" 37.82m x 1.84m x 1.95m	17,350 lbs 7 870 kg
Trolley (Outer) ⁵ (2-part operation) 	5'-7" x 6'-11" x 4'-3" 1.7m x 2.11m x 1.55m	950 lbs 430 kg	Jib Assembly Part ²⁷ 197-ft (60.0m) = L6 	129'-0" x 6'-1" x 6'-5" 51.34m x 1.84m x 1.95m	17,510 lbs 7 942 kg
Hook Block 	2'-5" x 1'-1" x 5'-10" 0.74m x 0.33m x 1.79m	1,100 lbs 500 kg	Jib Assembly Part ²⁷ 180-ft (54.8m) = L5 	111'-0" x 6'-1" x 6'-5" 43.6m x 1.84m x 1.95m	15,200 lbs 6 895 kg
Top Climbing Unit with Hydraulics (TS212) 	29'-3" x 11'-6" x 11'-6" 8.9m x 3.5m x 3.5m	24,750 lbs 11230 kg	Jib Assembly Part ²⁷ 164-ft (49.9m) = L4 	95'-0" x 6'-1" x 6'-5" 37.82m x 1.84m x 1.95m	14,510 lbs 6 582 kg
TSV 212.1 Tower Section for U821 cross 	31'-2" x 9'-10" x 10'-0" 9.50m x 3.00m x 3.05m	20,500 lbs. 9.30t	Jib Assembly Part ²⁷ 148-ft (45.1m) = L3 	76'-6" x 6'-1" x 6'-5" 32.03m x 1.84m x 1.95m	12,200 lbs 5 534 kg
U821 Base Cross for TS212 & 212.1 Tower 	34'-7" x 9'-1" x 2'-9" 10.54m x 2.76m x .838m	17,100 lbs. 7.76t	Jib Assembly Part ²⁷ 131-ft (39.9m) = L2 	60'-0" x 6'-1" x 6'-5" 26.1m x 1.84m x 1.95m	9,980 lbs 4 512 kg
TS 212 Anchor Stools 	3'-11" x 2'-0" x 2'-0" 1.20m x 0.6m x .838m	850 lbs. 0.385t	Jib Assembly Part ²⁷ 115-ft (35.0m) = L1 	42'-0" x 6'-1" x 6'-5" 32.03m x 1.84m x 1.95m	7,980 lbs 3 610 kg
TS 213 Anchor Stools 	3'-2" x 2'-0" x 2'-0" .96m x 0.6m x .809m	1,100 lbs. 0.5t	TSK 212 Tie-in Collar 	12'-2" x 10'-2" x 1'-7" 3.70m x 3.10m x .048m	3,200 lbs. 1.45t

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

1. Turntable (Complete) includes swing motors, slewing ring, slewing ring support.
2. Includes Counterjib Sections #1 & #2, 108 hp (79 kW) hoist unit with frame, electrical panel and handrails. Does not include wire rope.
3. Counterjib Section #2 includes 108 hp (79 kW) hoist unit and handrails.
4. Does not include wire rope, 22mm rope weighs 2 lbs/ft (2.7 kg/m)
5. Two-part operation requires a single (outer) trolley. Four-part operation requires two (inner and outer) trolleys. Inner and outer trolley dimensions and awweights are the same.
6. Jib Assembly Part 1 includes jib sections, pendant cables, jib A-frame, trolley drive unit, trolley wire rope, 2-part trolley (outer) and hook block.
If 4-part application is used, weight increases by 2,050 lbs (930 kg) for additional trolley (inner) and hook block.
7. Jib Assembly Part 2 includes jib sections and pendant cables.

Radius and Capacities

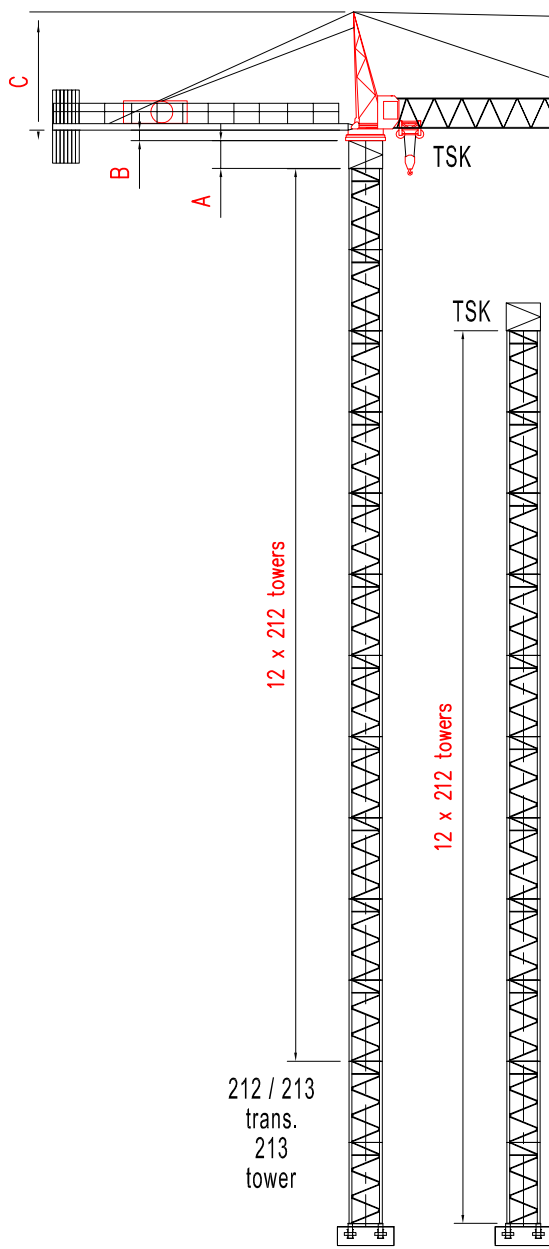
Radius and capacity (feet and pounds) 2-Part-Line										
ft										
Hook Radius	102	115	131	148	164	180	197	213	230	246
246ft										lbs
230ft	22,025	19,635	16,660	14,355	12,520	11,020	9,775	8,725	7,825	7,045
213ft	22,025	22,025	19,170	16,585	14,520	12,840	11,440	10,260	9,250	
197ft	22,025	22,025	21,480	18,635	16,365	14,510	12,970	11,670		
180ft	22,025	22,025	22,025	20,430	17,980	15,980	14,315			
164ft	22,025	22,025	22,025	21,950	19,300	17,180				
148ft	22,025	22,025	22,025	22,025	22,025					
131ft	22,025	22,025	22,025							
115ft	22,025	22,025								

Radius and capacity (feet and pounds) 4-Part-Line										
ft										
Hook Radius	92	111	128	144	161	177	193	210	226	243
243ft										lbs
226ft	44,050	19,100	15,840	13,340	11,355	9,745	8,410	7,290	6,330	5,505
210ft	44,050	21,925	18,300	15,510	13,305	11,510	10,025	8,775	7,705	
193ft	44,050	24,510	20,545	17,495	15,080	13,120	11,495	10,130		
177ft	44,050	26,745	22,490	19,215	16,620	14,515	12,775			
161ft	44,050	28,540	24,050	20,595	17,860	15,635				
144ft	44,050	30,115	25,415	21,800	18,940					
128ft	44,050	30,975	26,160	22,465						
111ft	44,050	31,535	26,650							
	39,990	31,715								

Radius and capacity (meters and tons) 2-Part-Line										
m										
Hook Radius	31	35	40	45	50	55	60	65	70	75
75m										t
70m	10t	8.92	7.56	6.52	5.69	5.01	4.44	3.96	3.55	3.20
65m	10t	10.0	8.70	7.53	6.59	5.83	5.20	4.66	4.20	
60m	10t	10.0	9.75	8.46	7.43	6.59	5.89	5.30		
55m	10t	10.0	10.0	9.28	8.16	7.26	6.50			
50m	10t	10.0	10.0	9.94	8.76	7.80				
45m	10t	10.0	10.0	10.0	10.0					
40m	10t	10.0	10.0	10.0						
35m	10t	10.0	10.0							

Radius and capacity (meters and tons) 4-Part-Line											
m											
Hook Radius	31	35	40	45	50	55	60	65	70	75	
74m										t	
69m	20t	17m	11.17	8.67	7.19	6.06	5.16	4.43	3.82	3.31	2.50
64m	20t	19m	12.73	9.96	8.31	7.04	6.04	5.23	4.55	3.98	3.50
59m	20t	21m	14.16	11.13	9.33	7.94	6.85	5.96	5.22	4.60	
54m	20t	22m	15.40	12.14	10.21	8.72	7.55	6.59	5.80		
49m	20t	24m	16.40	12.96	10.92	9.35	8.11	7.10			
44m	20t	25m	17.27	13.67	11.54	9.90	8.60				
39m	20t	25m	17.75	14.06	11.88	10.20					
34m	20t	26m	18.06	14.32	12.10						
	18.16	14.40									

Hook Heights / Freestanding



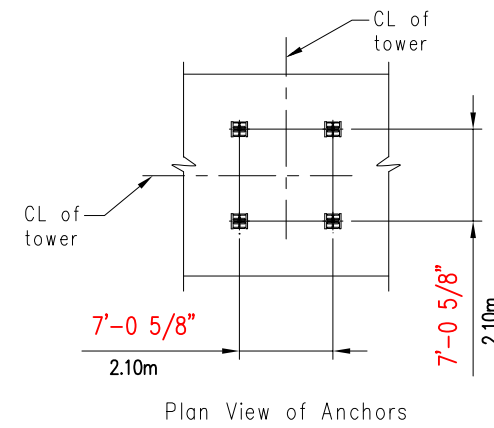
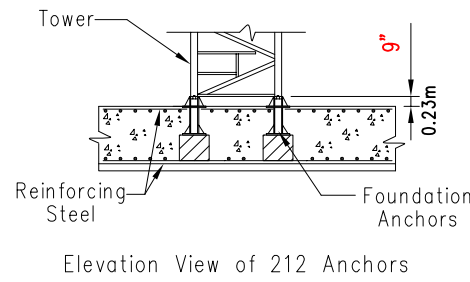
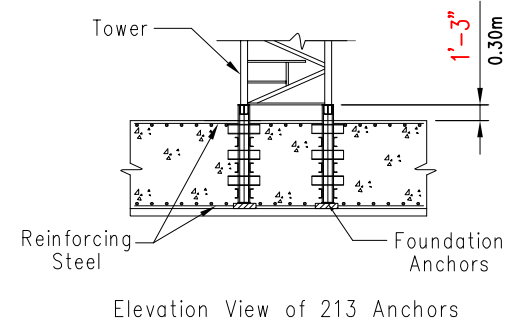
Freestanding Hook Heights
Concrete Foundation

Towers	Feet	Meters
1	21	7.4
2	41	13.3
3	60	19.2
4	79	25.1
5	99	31.0
6	118	36.9
7	138	42.8
8	157	48.7
9	176	54.6
10	195	60.5
11	215	66.4
12	237	72.3
13	256	78.2
14	273	83.2

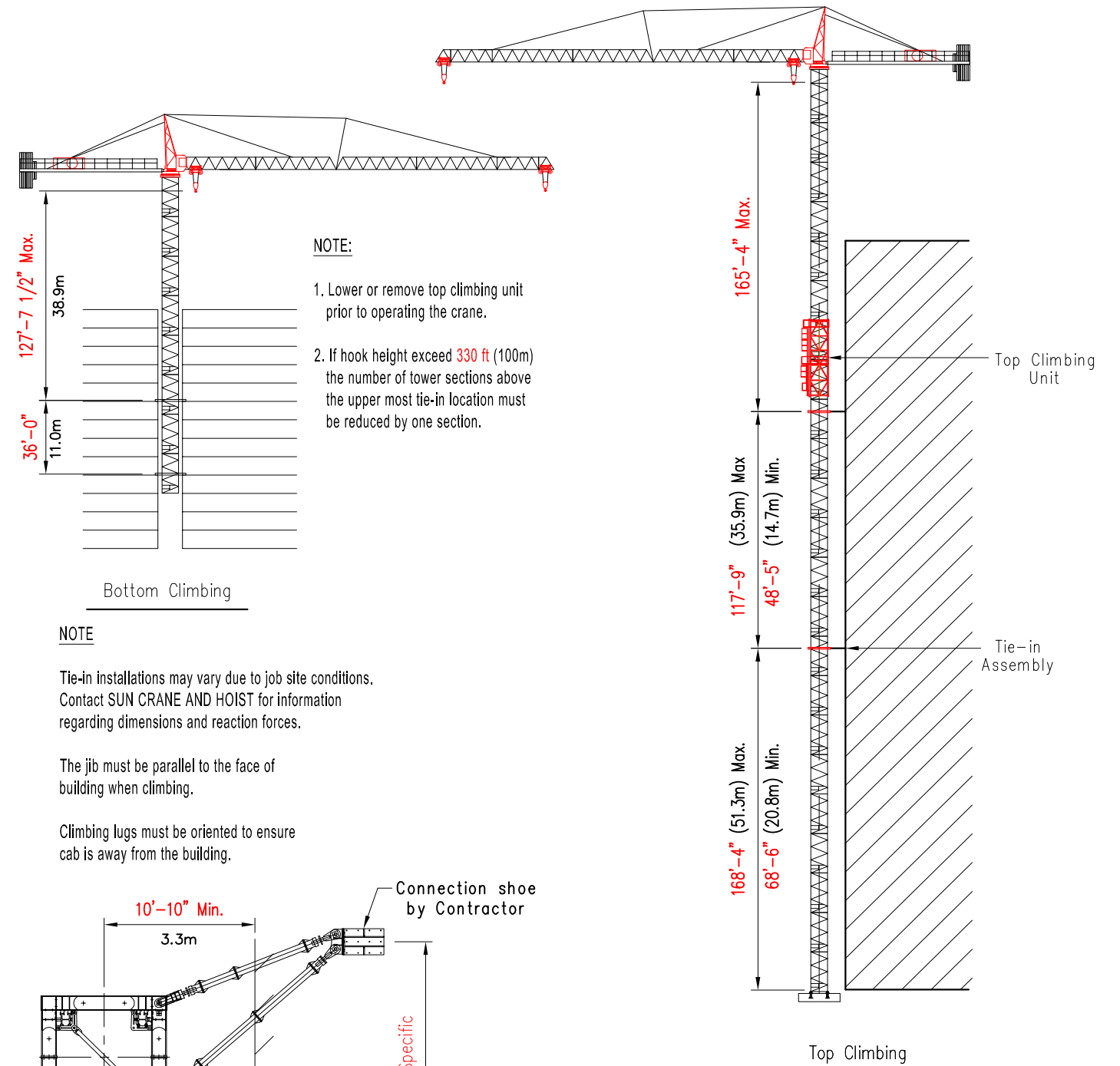
* Above hook heights include TSK tower. For greater freestanding heights contact SUN CRANE AND HOIST.

Note: Hook heights may be limited by geographic location.

A = Height of TSK tower section 6'-8" (2.02m)
 B = Height of complete slewing unit 4'-7" (2.3m)
 C = Height of jib section 29'-4" (8.95m)



Climbing / Tie-in Assembly



NOTE:

1. Lower or remove top climbing unit prior to operating the crane.
2. If hook height exceed 330 ft (100m) the number of tower sections above the upper most tie-in location must be reduced by one section.

NOTE

Tie-in installations may vary due to job site conditions. Contact SUN CRANE AND HOIST for information regarding dimensions and reaction forces.

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

Climbing lugs must be oriented to ensure cab is away from the building.

