



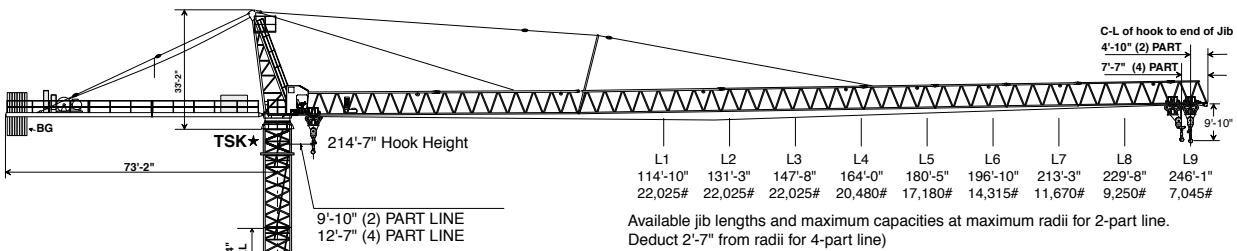
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# PEINER SK 415

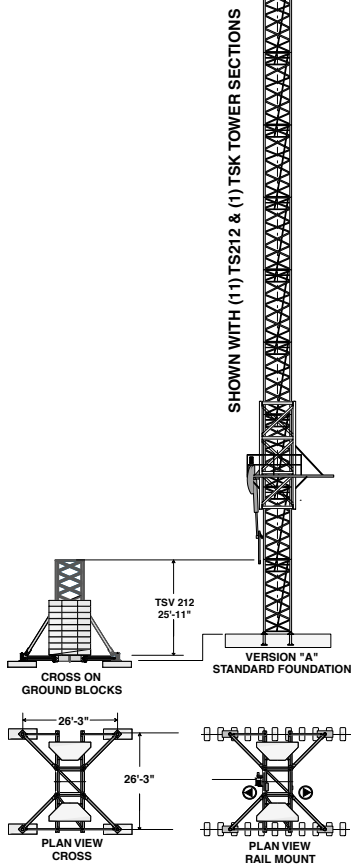
Hammerhead Tower Crane  
22,025 – 44,050 lbs. (10 – 20 t)  
Lifting Capacity\*

## SPECIFICATIONS



### HOOK HEIGHT TABLE

★Version "A" (Without TSK 212 Section)		Version "A" (With TSK 212 Section)		Cross and Rail Mount (Without TSK 212 Section)	
TOWER TYPE	HOOK HEIGHT ft/m	TOWER TYPE	HOOK HEIGHT ft/m	TOWER TYPE	HOOK HEIGHT ft/m
TS212.1		TS 212.1		TSV 212/ TS 212.1	
11 x TS 212.1	208'-0"/63.4m**	11 x TS 212.1	214'-7"/65.4m**	1 x TSV 212	218'-6"/66.6m**
10 x TS 212.1	188'-8"/57.5m	10 x TS 212.1	195'-3"/59.5m	10 x TS 212.1	
9 x TS 212.1	169'-3"/51.6m	9 x TS 212.1	175'-10"/53.6m	1 x TSV 212	199'-2"/60.7m
8 x TS 212.1	149'-11"/45.7m	8 x TS 212.1	156'-6"/47.7m	9 x TS 212.1	
7 x TS 212.1	130'-7"/39.8m	7 x TS 212.1	137'-2"/41.8m	1 x TSV 212	179'-9"/54.8m
6 x TS 212.1	111'-3"/33.9m	6 x TS 212.1	117'-10"/35.9m	8 x TS 212.1	
5 x TS 212.1	91'-10"/28.0m	5 x TS 212.1	98'-5"/30.0m	1 x TSV 212	160'-5"/48.9m
4 x TS 212.1	72'-6"/22.1m	4 x TS 212.1	79'-1"/24.1m	7 x TS 212.1	
3 x TS 212.1	53'-2"/16.2m	3 x TS 212.1	59'-9"/18.2m	1 x TSV 212	141'-1"/43.0m
2 x TS 212.1	33'-10"/10.3m	2 x TS 212.1	40'-5"/12.3m	6 x TS 212.1	
The above uses standard FF 212 anchor stools.					
<p>★ TSK 212 section MUST be installed for any top climbing applications.</p> <p>**Lower climbing unit if utilized.</p> <p>Tower configurations based on 95 mph wind speeds.</p>					
				<p>NOTE: ADD 6' 7" TO THE ABOVE HOOK HEIGHT IF TSK 212 SECTION IS UTILIZED.</p>	



\*Optional hoist winches allow maximum capacities to be increased to 25,555 – 55,115 lbs. (12.5 – 25.0 t) lifting capacity. Contact factory for details.

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**LOAD CHARTS FOR 2-PART LINE (US / METRIC)**



**2-PART LINE WB 76-100/4F ~108 HP (76 kW) Hoist Winch**

(pounds / feet)

(metric tons / meters)

Hook Radius [ft.]	AVAILABLE JIB LENGTHS IN FEET								
	L9	L8	L7	L6	L5	L4	L3	L2	L1
▼	246	229.6	213.2	196.8	180.4	164	147.6	131.2	114.8
9.8	22025	22025	22025	22025	22025	22025	22025	22025	22025
101.7	22025	22025	22025	22025	22025	22025	22025	22025	22025
105.0	21880	22025	22025	22025	22025	22025	22025	22025	22025
108.2	21085	22025	22025	22025	22025	22025	22025	22025	22025
111.5	20340	22025	22025	22025	22025	22025	22025	22025	22025
<b>114.8</b>	19635	22025	22025	22025	22025	22025	22025	22025	<b>22025</b>
118.1	18975	21770	22025	22025	22025	22025	22025	22025	
121.4	18350	21065	22025	22025	22025	22025	22025	22025	
124.6	17755	20400	22025	22025	22025	22025	22025	22025	
127.9	17195	19770	22025	22025	22025	22025	22025	22025	
<b>131.2</b>	16660	19170	21480	22025	22025	22025	22025	<b>22025</b>	
134.5	16155	18605	20855	22025	22025	22025	22025		
137.8	15670	18060	20260	22025	22025	22025	22025		
141.0	15215	17545	19695	21575	22025	22025	22025		
144.3	14775	17055	19150	20990	22025	22025	22025		
<b>147.6</b>	14355	16585	18635	20430	21905	22025	<b>22025</b>		
150.9	13955	16135	18140	19900	21335	22025			
154.2	13575	15705	17665	19385	20795	22025			
157.4	13210	15295	17215	18900	20275	21505			
160.7	12855	14900	16780	18430	19780	20985			
<b>164.0</b>	12520	14520	16365	17980	19300	<b>20480</b>			
167.3	12195	14160	15965	17545	18840				
170.6	11885	13810	15580	17130	18400				
173.8	11585	13475	15210	16735	17980				
177.1	11300	13150	14855	16350	17570				
<b>180.4</b>	11020	12840	14510	15980	<b>17180</b>				
183.7	10755	12540	14180	15620					
187.0	10495	12250	13865	15275					
190.2	10250	11970	13555	14945					
193.5	10010	11700	13260	14625					
<b>196.8</b>	9775	11440	12970	<b>14315</b>					
200.1	9550	11190	12695						
203.4	9335	10945	12425						
206.6	9125	10710	12165						
209.9	8920	10480	11915						
<b>213.2</b>	8725	10260	<b>11670</b>						
216.5	8535	10045							
219.8	8350	9835							
223.0	8170	9635							
226.3	7995	9440							
229.6	7825	9250							
<b>229.6</b>	7825	<b>9250</b>							
232.9	7660								
236.2	7500								
239.4	7345								
242.7	7195								
<b>246.0</b>	<b>7045</b>								

Hook Radius [m.]	AVAILABLE JIB LENGTHS IN METERS								
	L9 (75m)	L8 (70m)	L7 (65m)	L6 (60m)	L5 (55m)	L4 (50m)	L3 (45m)	L2 (40m)	L1 (35m)
▼									
3.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
31.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
32.00	9.93	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
33.00	9.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
34.00	9.23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
<b>35.00</b>	8.92	10.00	10.00	10.00	10.00	10.00	10.00	10.00	<b>10.00</b>
36.00	8.62	9.88	10.00	10.00	10.00	10.00	10.00	10.00	
37.00	8.33	9.57	10.00	10.00	10.00	10.00	10.00	10.00	
38.00	8.06	9.26	10.00	10.00	10.00	10.00	10.00	10.00	
39.00	7.81	8.98	10.00	10.00	10.00	10.00	10.00	10.00	
<b>40.00</b>	7.56	8.70	9.75	10.00	10.00	10.00	10.00	<b>10.00</b>	
41.00	7.34	8.45	9.47	10.00	10.00	10.00	10.00		
42.00	7.12	8.20	9.20	10.00	10.00	10.00	10.00		
43.00	6.91	7.97	8.94	9.80	10.00	10.00	10.00		
44.00	6.71	7.74	8.70	9.53	10.00	10.00	10.00		
<b>45.00</b>	6.52	7.53	8.46	9.28	9.94	10.00	<b>10.00</b>		
46.00	6.34	7.33	8.24	9.03	9.69	10.00			
47.00	6.16	7.13	8.02	8.80	9.44	10.00			
48.00	6.00	6.94	7.82	8.58	9.21	9.77			
49.00	5.84	6.77	7.62	8.37	8.98	9.53			
<b>50.00</b>	5.69	6.59	7.43	8.16	8.76	<b>9.30</b>			
51.00	5.54	6.43	7.25	7.97	8.56				
52.00	5.40	6.27	7.07	7.78	8.36				
53.00	5.26	6.12	6.91	7.60	8.16				
54.00	5.13	5.97	6.74	7.42	7.98				
<b>55.00</b>	5.01	5.83	6.59	7.26	<b>7.80</b>				
56.00	4.88	5.69	6.44	7.09					
57.00	4.77	5.56	6.29	6.94					
58.00	4.65	5.44	6.16	6.79					
59.00	4.55	5.31	6.02	6.64					
<b>60.00</b>	4.44	5.20	5.89	<b>6.50</b>					
61.00	4.34	5.08	5.76						
62.00	4.24	4.97	5.64						
63.00	4.14	4.86	5.52						
64.00	4.05	4.76	5.41						
<b>65.00</b>	3.96	4.66	<b>5.30</b>						
66.00	3.88	4.56							
67.00	3.79	4.47							
68.00	3.71	4.38							
69.00	3.63	4.29							
70.00	3.55	4.20							
<b>70.00</b>	3.55	<b>4.20</b>							
71.00	3.48								
72.00	3.41								
73.00	3.34								
74.00	3.27								
<b>75.00</b>	<b>3.20</b>								

"A"	7045	9250	11670	14315	17180	20480	22025	22025	22025
"B"	246	229.6	213.2	196.8	180.4	164	147.6	131.2	114.8
"C"	103.6	116.8	128.5	139.1	147.6	155.1	147.6	131.2	114.8

"A"	3.2	4.2	5.3	6.5	7.8	9.3	10	10	10
"B"	75	70	65	60	55	50	45	40	35
"C"	31.6	35.6	39.2	42.4	45.0	47.3	45	40	35

"A"= Load at maximum radius (pounds)

"B"= Maximum radius (feet)

"C"= Radius with maximum load (feet)

"A"= Load at maximum radius (metric tons)

"B"= Maximum radius (meters)

"C"= Radius with maximum load (meters)

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LOAD CHARTS FOR 4-PART LINE (US / METRIC) 3



4-PART LINE WB 76-100/4F ~108 HP (76 kW) Hoist Winch (pounds / feet)

(metric tons / meters)

Table with columns: Hook Radius [ft], AVAILABLE JIB LENGTHS IN FEET (L9 to L1), and corresponding weight values in pounds.

Table with columns: Hook Radius [m], AVAILABLE JIB LENGTHS IN METERS (L9 to L1), and corresponding weight values in metric tons.

Summary table for US units showing weight values for 'A', 'B', and 'C' categories across various hook radii.

Summary table for metric units showing weight values for 'A', 'B', and 'C' categories across various hook radii.

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**TECHNICAL DATA**

FU 8-200/4		0 to 265 fpm / 0 to 80 m/min				1 x 14.2 HP / 1 x 10.5 kW	
SR 10-190/3		0 to 100 fpm / 0 to 30m/min				4 x 11.9 HP / 4 x 8.8 kW	
K WB 120/4		0 to 1 rpm				L1 to L5 Jibs L6 to L9 Jibs 2 x 11.0 HP / 2 x 8.2 kW 3 x 11.0 HP / 3 x 8.2 kW	
<b>STANDARD HOIST UNIT</b> SR WB 76-100/4F (108 HP)						Maximun hook heights ft./ m	
		fpm m/min	lbs. kg	fpm m/min	lbs. kg		
		440 134	5500 2500	220 67	11000 5000	820 ft (5 Layers) 250 m	410 ft (5 Layers) 125 m
		275 84	9300 4200	138 42	18600 8400	Total motor output approx. 195 HP	
		177 54	14700 7100	89 27	29400 14200	Without SR 10-190/3 approx. 148 HP	
		110 34	22000 10000	55 17	44000 20000	Connected Power 205 kVA	

Recommended dedicated service: 440 - 480 VAC 3-Phase 250 amp service. Measured under nominal load at the turntable of the tower crane. Speeds and power calculated using 480VAC @ 60 Hertz.

<b>OPTIONAL HOIST UNIT</b> SR WB 122-125/4F (167 HP)						Maximun hook heights ft./ m	
		fpm m/min	lbs. kg	fpm m/min	lbs. kg		
		440 134	7700 3500	220 67	15400 7000	984 ft (6 Layers) 300 m	492 ft (6 Layers) 150 m
		275 84	13200 6000	138 42	26400 12000	Total motor output approx. 260 HP	
		177 54	22000 10000	89 27	44000 20000	Without SR 10-190/3 approx. 212 HP	
		110 34	27600 12500	55 17	55200 25000	Connected Power 290 kVA	

Recommended dedicated service: 440 - 480 VAC 3-Phase 300 amp service. Measured under nominal load at the turntable of the tower crane. Speeds and power calculated using 480VAC @ 60 Hertz.

**COUNTERWEIGHT (BG) FOR SR WB 76-100/4F OR SR WB 122-125/4F**

JIB LENGTH	L1	L2	L3	L4	L5	L6	L7	L8	L9
Lbs.	41010	41010	47845	47845	47845	54680	54680	54680	54680
metric tons	18.6	18.6	21.7	21.7	21.7	24.8	24.8	24.8	24.8
Lbs.	6x6835	6x6835	7x6835	7x6835	7x6835	8x6835	8x6835	8x6835	8x6835
metric tons	6x3.1	6x3.1	7x3.1	7x3.1	7x3.1	8x3.1	8x3.1	8x3.1	8x3.1

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**WEIGHTS AND MEASURES\***

Description	Illustration	Dimensions ft. / m.			Weight lbs./ tons (metric)	Assembled Components Information Length and weight in <b>pounds</b> and metric tons *
		L.	W.	H.		
TS 212 and 212.1 Anchor Stools		3'-2" / .965m	2'-0" / .609m	2'-0" / .609m	850lbs. / .385t	
TS 213 and 213.1 Anchor Stools		5'-5" / 1.65m	2'-2" / .66m	2'-2" / .66m	1100lbs. / .499t	
U821 Base Cross for TS212 & 212.1 Tower		34'-7" / 10.54m	9'-1" / 2.76m	2'-9" / .838m	17,100lbs. / 7.76t	
TSV 212.1 Tower Section for U821 cross		31'-2" / 9.50m	9'-10" / 3.00m	10'-0" / 3.05m	20,500lbs. / 9.30t	
TS 213 and 213.1 Tower Section		19'-6" / 5.94m	8'-0" / 2.44m	8'-0" / 2.44m	9,950lbs. / 4.52t	108 HP Counterjib Complete (less Wire rope) 70'/21.33m - 26,500 lbs./ 12.02 t 167 HP Counterjib Complete (less Wire rope) 70'/21.33m - 29,000 lbs./ 13.16 t 22mm Wire rope weighs ~ 2.0 lbs/foot/2.7kg/m
TS 213 to TS212 Tower Transition Section		19'-6" / 5.94	8'-0" / 2.44m	8'-0" / 2.44m	9,750lbs. / 4.42t	
TS 212 and 212.1 Tower Section		19'-6" / 5.94m	8'-0" / 2.44m	8'-0" / 2.44m	9,300lbs. / 4.22t	
TSK 212 Tower Section		8'-0" / 2.44m	9'-10" / 3.00m	6'-8" / 2.03m	6,175lbs. / 2.80t	Inner jib with one trolley, load block, and suspension cables 75'/22.86m - 18,050lbs./7.77t
TSK 212 Tie-in Collar		12'-2" / 3.70m	10'-2" / 3.10m	1'-7" / 0.48m	3,200lbs. / 1.45t	
TS 212 Top Climbing Section (w / items inside)		29'-3" / 8.92m	11'-6" / 3.50m	11'-6" / 3.50m	25,000lbs. / 11.34t	Outer jib for L1 114'-10/35m hook radius with suspension cables 42'/12.80m - 7,960lbs./3.61t
TS 213/212 Top Climbing Section (w / items inside)		29'-3" / 8.92m	11'-6" / 3.50m	11'-6" / 3.50m	25,850lbs. / 11.36t	Outer jib for L2 131'-3/40m hook radius with suspension cables 60'/18.29m - 9,960lbs./4.52t
Turntable only w / 3 swing motors		11'-4" / 3.45m	7'-8" / 2.34m	6'-7" / 2.01m	23,850lbs. / 10.80t	Outer jib for L3 147'-8/45m hook radius with suspension cables 76'/23.16m - 12,200lbs./5.54t
Turntable Top portion only w / 3 swing motors		11'-4" / 3.45m	7'-8" / 2.34m	4'-9" / 1.45m	9,350lbs. / 10.80t	
Turntable Race Bearing only		7'-2" / 2.19m	7'-2" / 2.19m	0'-6" / 0.15m	3,250lbs. / 1.40t	
Turntable Lower portion only DA 212		9'-10" / 3.00m	7'-8" / 2.34m	1'-8" / 0.50m	11,250lbs. / 4.90t	Outer jib for L4 164'-0/50m hook radius with suspension cables 95'/28.96m - 14,510lbs./6.58t
Operatos Cabin, Catwalk and Electric panel		8'-2" / 2.50m	6'-9" / 2.06m	8'-6" / 2.60m	3,750lbs. / 1.730	
Turntable Complete w/cabin and 3 swing motors		17'-2" / 5.23m	14'-2" / 4.32m	12'-4" / 3.75m	27,600lbs. / 12.52t	
Towertop w / catwalk and ladder		27'-1" / 8.26m	6'-5" / 2.00m	6'-6" / 2.00m	9,600lbs. / 4.36t	Outer jib for L5 180'-5/55m hook radius with suspension cables 111'/33.83m - 15,200lbs./6.90t
108 HP Machinery Deck w/o wire rope		9'-2" / 2.80m	8'-5" / 2.57m	5'-7" / 1.70m	7,500lbs. / 3.40t	
108 HP Machinery Deck w/ Rear portion of Counterjib		38'-1" / 11.61	9'-2" / 2.80m	6'-7" / 2.01m	17,500lbs. / 7.94t	Outer jib for L6 196'-10/60m hook radius with suspension cables 129'/39.32m - 17,510lbs./7.95t
Front portion of Counterjib		31'-10" / 9.70	6'-9" / 2.03m	5'-7" / 1.70m	6,610lbs. / 2.90t	
108 HP Counterjib complete less wire rope		69'-11" / 21.31	9'-2" / 2.80m	6'-7" / 2.01m	26,500lbs. / 12.02t	
Jib Section No. 1 w / Trolley machinery		38'-11" / 11.86	6'-6" / 2.00m	7'-3" / 2.20m	6,650lbs. / 3.01t	Outer jib for L7 213'-3/65m hook radius with suspension cables 145'/44.20m - 17,350lbs./7.87t
Jib Section No. 2		40'-6" / 12.34	6'-6" / 2.00m	7'-3" / 2.20m	5,175lbs. / 2.35t	
Outer Jib Support "A" Frame		21'-7" / 6.58	5'-5" / 1.65m	4'-8" / 1.42m	650lbs. / 0.30t	
Jib Section No. 3		38'-10" / 11.84	6'-6" / 2.00m	7'-7" / 2.31m	4,750lbs. / 2.16t	Outer jib for L8 229'-8/70m hook radius with suspension cables 163'/49.68m - 19,660lbs./8.92t
Jib Section No. 4		18'-8" / 5.69	6'-6" / 2.00m	6'-3" / 1.91m	2,000lbs. / 0.91t	
Jib Section No. 5		35'-0" / 10.67	6'-6" / 2.00m	6'-11" / 2.10m	4,000lbs. / 1.82t	
Jib Section No. 6		35'-5" / 10.80	6'-6" / 2.00m	6'-4" / 1.93m	3,000lbs. / 1.36t	
Jib Section No. 7		33'-6" / 10.21	6'-6" / 2.00m	6'-3" / 1.91m	2,150lbs. / 0.98t	Outer jib for L9 246'-1/75m hook radius with suspension cables 180'/54.86m - 21,410lbs./9.71t
Jib Section No. 8		17'-1" / 5.69	6'-6" / 2.00m	6'-2" / 1.88m	1,750lbs. / 0.80t	
Jib Tip Section		4'-6" / 1.37	6'-8" / 2.03m	4'-6" / 1.37	850lbs. / 0.39t	
Single (outer) Trolley for 2-Part Line		7'-4" / 2.24m	5'-9" / 1.73m	6'-0" / 1.83m	1,750lbs. / 0.80t	
Single Load Block for 2-Part Line		2'-9" / 0.84	1'-0" / 0.31m	4'-6" / 1.37m	1,200lbs. / 0.54t	
Double Trolley for 4-Part Line		14'-8" / 4.47m	5'-9" / 1.73m	6'-0" / 1.83m	3,400lbs. / 1.55t	
Dual Load Block for 4-Part Line		5'-6" / 1.68	1'-0" / 0.31m	4'-6" / 1.37m	2,400lbs. / 1.09t	
BG Counterweight		14'-8" / 4.47m	0'-6" / 0.15m	5'-1" / 1.55m	6,800lbs. / 3.09t	

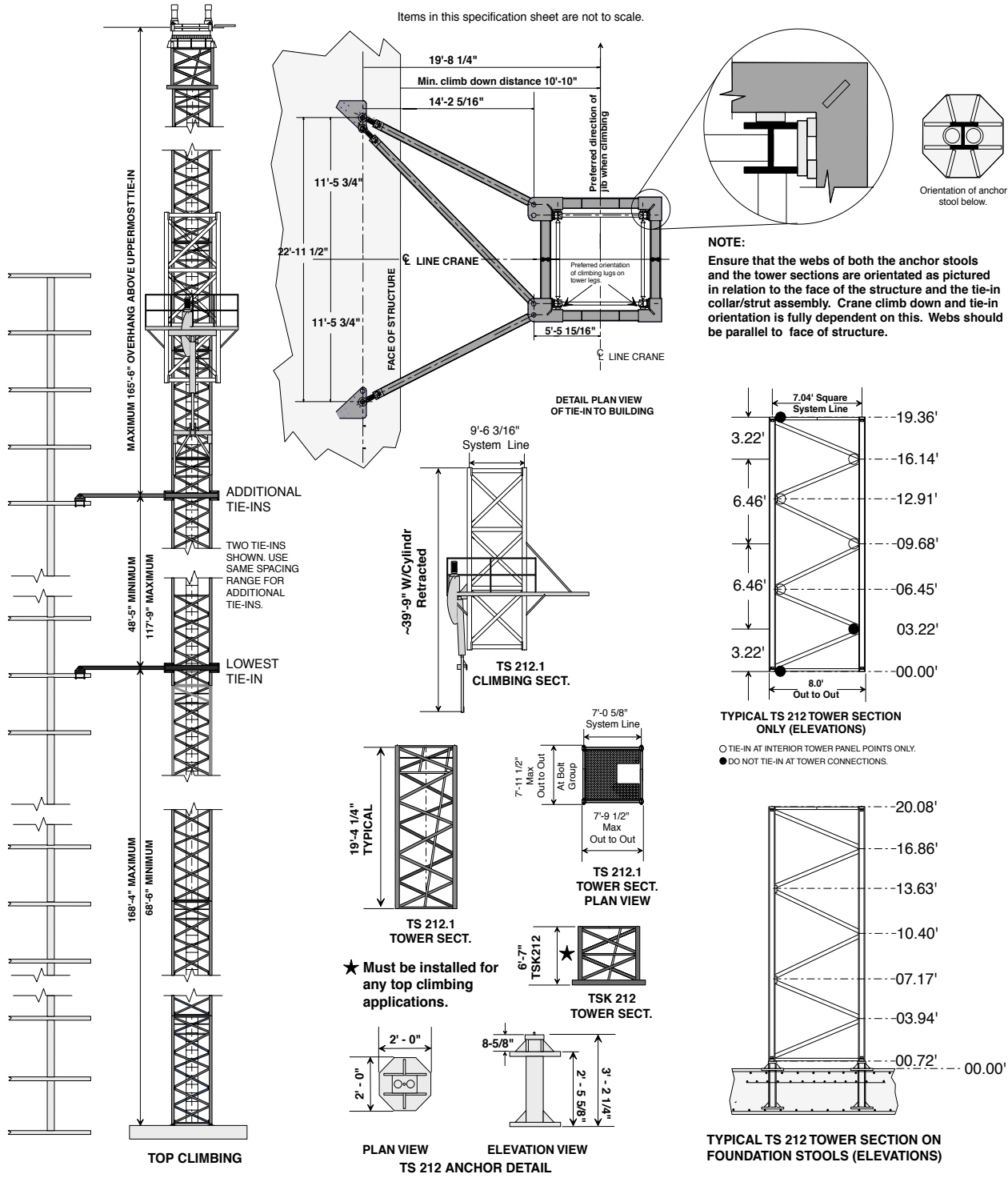
\*Any printed weights should be confirmed in the field and adjustments made to lifting equipment if required. Do not scale any information within this specification sheet.

\*The operators manual should be used for crane assembly/disassembly. Sizes and weights shown herein are for general illustration and are approximate in scope.



USEFUL ERECTION INFORMATION

Items in this specification sheet are not to scale.



We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty applicable to the particular product and sale. We make no other warranty, expressed or implied.

For more information, product demonstration, or details on lease and rental plans, please contact your local Terex Towers Distributor.

TEREX TOWERS

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