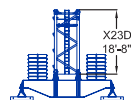


Free-Standing Hook Heights

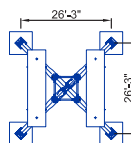
STANDARD FOUNDATION	
Tower Configuration	Hook Height (ft.)
4 x X30 + 1 x TR. X30/X23D + 12 x X23D*	299'-6"
3 x X30 + 1 x TR. X30/X23D + 12 x X23D + 1 x X23E*	291'-4"
3 x X30 + 1 x TR. X30/X23D + 12 x X23D*	280'-10"
2 x X30 + 1 x TR. X30/X23D + 12 x X23D + 1 x X23E*	272'-8"
2 x X30 + 1 x TR. X30/X23D + 12 x X23D*	262'-2"
1 x X30 + 1 x TR. X30/X23D + 12 x X23D + 1 x X23E*	254'-1"
1 x X30 + 1 x TR. X30/X23D + 12 x X23D*	243'-5"
13 x X23D	238'-10"
12 x X23D + 1 x X23E	230'-8"
12 x X23D	220'-2"
11 x X23D + 1 x X23E	211'-11"
11 x X23D	201'-5"
10 x X23D + 1 x X23E	193'-3"
10 x X23D	182'-9"
9 x X23D + 1 x X23E	174'-7"
9 x X23D	164'-1"
8 x X23D + 1 x X23E	155'-10"
8 x X23D	145'-4"
7 x X23D + 1 x X23E	137'-2"
7 x X23D	126'-8"
6 x X23D + 1 x X23E	118'-5"
6 x X23D	107'-11"
5 x X23D + 1 x X23E	99'-9"
5 x X23D	89'-3"
4 x X23D + 1 x X23E	81'-0"
4 x X23D	70'-6"
3 x X23D + 1 x X23E	62'-4"
3 x X23D	51'-10"
2 x X23D + 1 x X23E	43'-8"
2 x X23D	33'-2"

BASE CROSS FOUNDATION	
Tower Configuration	Hook Height (ft.)
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
12 x X23D	226'-4"
11 x X23D + 1 x X23E	218'-2"
11 x X23D	207'-8"
10 x X23D + 1 x X23E	199'-6"
10 x X23D	189'-0"
9 x X23D + 1 x X23E	180'-9"
9 x X23D	170'-3"
8 x X23D + 1 x X23E	162'-1"
8 x X23D	151'-7"
7 x X23D + 1 x X23E	143'-4"
7 x X23D	132'-10"
6 x X23D + 1 x X23E	124'-8"
6 x X23D	114'-2"
5 x X23D + 1 x X23E	106'-0"
5 x X23D	95'-6"
4 x X23D + 1 x X23E	87'-3"
4 x X23D	76'-9"
3 x X23D + 1 x X23E	68'-7"
3 x X23D	58'-1"
2 x X23D + 1 x X23E	49'-10"
2 x X23D	39'-4"

STANDARD FOUNDATION



CROSS BASE ELEVATION



CROSS BASE PLAN VIEW

Hook heights based on configuration with 2-part hook block. Subtract 1'-11" for 4-part hook block.

X23E section MUST be installed for any top climbing applications.

Tower configurations based on 115 mph wind speeds, out of service and 45 mph in service.

*Tower configurations based on 90 mph wind speeds, out of service and 45 mph in service.

Additional tower configuration and information available upon request.













2-Part Line

Hook Radius (ft.) 8'-2" (Min.)	AVAILABLE JIB LENGTHS IN FEET											
	L9 278'-10"	L8 262'-6"	L7 246'-1"	L6 229'-8"	L5 213'-3"	L4 196'-10"	L3 180'-5"	L2 164'-1"	L1A 147'-8"	L1 131'-3"	L0A 114'-10"	L0 98'-5"
36'-0"	lbs. 27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
45'-11"	lbs. 27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
66'-0"	lbs. 27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
73'-9"	lbs. 25,762	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
78'-9"	lbs. 24,603	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
82'-0"	lbs. 23,849	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
90'-3"	lbs. 21,413	26,233	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
98'-5"	lbs. 19,002	24,920	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560	27,560
106'-6"	lbs. 17,326	22,812	26,000	27,496	27,560	27,560	27,560	27,560	27,560	27,560	27,560	
114'-10"	lbs. 15,599	20,640	24,390	27,430	27,560	27,560	27,560	27,560	27,560	27,560	27,560	
123'-0"	lbs. 14,345	19,148	22,569	25,410	26,068	26,331	26,476	26,361	26,252	25,915		
131'-3"	lbs. 13,079	17,640	20,730	23,370	24,650	25,090	25,380	25,150	24,905	24,260		
139'-5"	lbs. 12,113	16,160	19,255	21,720	22,930	23,330	23,595	23,395	23,263			
147'-8"	lbs. 11,137	15,020	17,900	20,240	21,380	21,785	22,025	21,830	21,600			
155'-10"	lbs. 10,370	14,000	16,735	18,940	20,020	20,395	20,615	20,440				
164'-1"	lbs. 9,595	13,075	15,680	17,770	18,780	19,140	19,360	19,180				
172'-3"	lbs. 8,968	12,295	14,779	16,770	17,741	18,070	18,280					
180'-5"	lbs. 8,341	11,490	13,850	15,740	16,670	17,000	17,200					
188'-6"	lbs. 7,829	10,850	13,111	14,893	15,808	16,119						
196'-10"	lbs. 7,301	10,190	12,350	14,020	14,920	15,210						
205'-1"	lbs. 6,861	9,635	11,707	13,342	14,181							
213'-3"	lbs. 6,425	9,085	11,070	12,670	13,450							
221'-6"	lbs. 6,049	8,610	10,527	12,062								
229'-8"	lbs. 5,676	8,140	9,990	11,460								
237'-11"	lbs. 5,351	7,728	9,513									
246'-1"	lbs. 5,030	7,320	9,040									
254'-4"	lbs. 4,746	6,966										
262'-6"	lbs. 4,465	6,615										
270'-9"	lbs. 4,214											
278'-10"	lbs. 3,970											

4-Part Line

Hook Radius (ft.) 11'-6" (Min.)	AVAILABLE JIB LENGTHS IN FEET											
	L9 278'-10"	L8 262'-6"	L7 246'-1"	L6 229'-8"	L5 213'-3"	L4 196'-10"	L3 180'-5"	L2 164'-1"	L1A 147'-8"	L1 131'-3"	L0A 114'-10"	L0 98'-5"
36'-0"	lbs. 55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125
45'-11"	lbs. 41,559	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125	55,125
62'-4"	lbs. 28,599	40,220	47,410	53,205	55,125	55,125	55,125	55,125	53,168	55,125	51,813	51,813
73'-9"	lbs. 23,412	33,012	39,096	43,990	48,195	46,630	46,968	46,693	44,355	45,632	43,199	43,199
78'-9"	lbs. 21,140	29,855	35,455	39,955	45,160	42,910	43,395	43,000	40,495	41,475	39,427	39,427
82'-0"	lbs. 20,180	28,545	33,944	38,287	42,815	41,133	41,600	41,223	38,864	39,747	37,833	37,833
90'-3"	lbs. 17,745	25,221	30,110	34,053	36,862	36,623	37,045	36,713	34,725	35,359	33,788	33,788
95'-2"	lbs. 16,293	23,240	27,825	31,530	33,315	33,935	34,330	34,025	32,259	32,745	31,378	31,378
106'-6"	lbs. 13,944	20,088	24,187	27,498	29,100	29,641	29,991	29,717	28,267	28,589	27,477	
111'-7"	lbs. 12,890	18,675	22,555	25,690	27,210	27,715	28,045	27,785	26,477	26,725	25,728	
123'-0"	lbs. 11,128	16,333	19,843	22,684	24,064	24,524	24,840	24,594	23,484	23,625		
127'-11"	lbs. 10,369	15,325	18,675	21,390	22,710	23,150	23,460	23,220	22,195	22,290		
139'-5"	lbs. 9,009	13,518	16,605	19,089	20,300	20,712	20,991	20,761	19,884			
144'-4"	lbs. 8,427	12,745	15,720	18,105	19,270	19,670	19,935	19,710	18,896			
155'-10"	lbs. 7,347	11,323	14,067	16,298	17,372	17,737	17,970	17,780				
160'-9"	lbs. 6,885	10,715	13,360	15,525	16,560	16,910	17,130	16,955				
172'-3"	lbs. 6,007	9,573	12,032	14,040	15,015	15,351	15,536					
177'-2"	lbs. 5,631	9,085	11,465	13,405	14,355	14,685	14,855					
188'-6"	lbs. 4,913	8,139	10,385	12,218	13,105	13,408						
193'-7"	lbs. 4,591	7,715	9,900	11,685	12,545	12,835						
205'-1"	lbs. 3,977	6,913	8,989	10,666	11,480							
210'-0"	lbs. 3,715	6,570	8,600	10,230	11,025							
221'-6"	lbs. 3,191	5,890	7,812	9,351								
226'-5"	lbs. 2,967	5,600	7,475	8,975								
237'-11"	lbs. 2,511	5,009	6,792									
242'-9"	lbs. 2,320	4,760	6,505									
254'-4"	lbs. 1,922	4,248										
259'-2"	lbs. 1,756	4,035										
270'-9"	lbs. 1,463											
275'-6"	lbs. 1,259											

Speeds

TROLLEY T110 FC 80		0 to 328 fpm				1 x 14.85 hp / 1 x 11 kW	
SWING S145 TA-130-146 LB12/16A		0 to 1.0 rpm				4 x 10 hp / 4 x 7.5 kW	
STANDARD HOIST UNIT H 100FL63-820		 fpm lbs		 fpm lbs		1 x 155 HP / 1 x 115 Kw	
		492	4,410	246	8,820	Maximum Hook Heights ft.	
		369	8,380	184	16,760	 837	 418
		246	13,780	123	27,560	Total motor output approx. (without travel)	210 hp
		123	27,560	62	55,125		
		40	27,560	20	55,125	Connected Power	265 kVA

Measured under nominal load at the turntable of the tower crane. Speeds and power calculated using 480 VAC @ 60 Hertz.

Power Requirements

Power Supply: 3-phase 480 V, 60 Hz; 3-wire plus ground; No Neutral.

480 V phase - phase, 277 V each phase to ground with 120° phase shift between phases.

Service size: Fused disconnect, 350 Amperes.

Notes:

1. For electric power provided by an electric utility, do not use open Delta transformers.
2. For electric power provided by a generator, the minimum generator size required is 350 kW.

A properly sized generator is critical to the safe operation of the crane.

Counterweight

JIB LENGTH	L0	L0A	L1	L1A	L2	L3	L4	L5	L6	L7	L8	L9
WEIGHT (LBS.)	22,050	30,870	37,485	46,305	52,920	55,125	55,120	63,945	72,765	74,970	77,175	81,585
PHZ4000	0	1	3	0	1	0	1	3	2	1	0	0
PHZ5000	2	2	1	3	4	5	5	4	5	6	7	5
PHZ6000	0	0	0	1	0	0	0	0	0	0	0	2

PHZ4000 weighs 8,820 lbs. PHZ5000 weighs 11,025 lbs. PHZ6000 weighs 13,230 lbs. Allowable deviation ± 2%

Information contained in this specification sheet is of a general nature. Operator's manual should be consulted and adhered to.

Dimensions and Weights

ITEM	ILLUSTRATION	LENGTH	WIDTH	HEIGHT	WEIGHT lbs.	ASSEMBLED COMPONENTS
X23D Anchor Stool		7'-0"	2'-0"	1'-9"	1,325	
Base Cross Long Beam for X23D Tower		38'-6"	2'-0"	7'-8"	17,400	
Base Cross Short Beams for X23D Tower (2 Pieces)		18'-7"	2'-0"	7'-8"	8,590/ea.	Jib for L0 98'-5" hook radius 36'-6" - 9,200 lbs.
Base Support for X23D Tower (4 Pieces)		2'-6"	2'-6"	2'-0"	660/ea.	
Ballast Weight		22'-4"	6'-3"	1'-4"	20,950	
X23D Tower Section		19'-8"	7'-6"	7'-6"	13,600	Jib for L0A 114'-10" hook radius 53'-4" - 15,400 lbs.
X23E Tower Section		10'-8"	7'-6"	7'-6"	8,200	
X30 Tower Section		19'-8"	9'-10"	9'-10"	15,050	Jib for L1 131'-3" hook radius 69'-6" - 15,700 lbs.
X30/X23D Transition Section		7'-1"	11'-4"	11'-4"	13,760	
X23D Tie-in Collar		12'-4"	10'-9"	0'-7"	4,440	
X23D Top Climbing Section (w/Accessories)		38'-0"	15'-1"	15'-1"	29,100	Jib for L1A 147'-8" hook radius 86'-4" - 21,900 lbs.
Turntable- Upper Part		9'-4"	8'-0"	5'-3"	16,200	
Turntable- Lower Part		8'-6"	8'-2"	3'-10"	9,800	
Operator Cabin		7'-3"	4'-11"	7'-6"	3,000	Jib for L2 164'-1" hook radius 102'-5" - 20,600 lbs.
Electric Cabinet		7'-2"	4'-3"	7'-6"	3,000	
Turntable Complete w/ cabin & Electric Cabinet		9'-6"	5'-3"	9'-6"	32,000	
Tower Head		10'-10"	7'-10"	7'-7"	6,800	Jib for L3 180'-5" hook radius 118'-10" - 20,700 lbs.
Counter jib- 1		38'-0"	6'-11"	8'-4"	15,800	
Counter jib- 2 (Including handrails & platforms)		38'-7"	6'-2"	1'-11"	12,800	
Hoisting Mechanism (Not including hoist rope)		7'-5"	8'-0"	4'-2"	15,800	
Hoisting Mechanism (including 1,200 ft hoist rope)		7'-5"	8'-0"	4'-2"	18,150	
Trolley Mechanism		5'-1"	2'-7"	2'-11"	1,600	Jib for L5 213'-3" hook radius 151'-9" - 25,600 lbs.
Jib 1		34'-1"	7'-1"	8'-5"	17,500	
Jib 2		34'-1"	6'-3"	8'-0"	14,200	
Jib 3		34'-5"	6'-3"	8'-2"	8,600	Jib for L6 229'-8" hook radius 168'-2" - 26,700 lbs.
Jib 4		34'-1"	6'-3"	7'-11"	6,500	
Jib 4A		18'-4"	6'-3"	7'-11"	6,200	
Jib 5		34'-1"	6'-3"	7'-9"	4,900	Jib for L7 246'-1" hook radius 184'-8" - 27,700 lbs.
Jib 6		33'-10"	6'-3"	7'-7"	3,600	
Jib 7		17'-1"	6'-3"	6'-0"	1,400	
Jib 8		17'-1"	6'-3"	6'-0"	1,100	Jib for L8 262'-6" hook radius 199'-2" - 28,600 lbs.
Jib 9		17'-1"	6'-3"	5'-10"	1,000	
Jib 10		16'-5"	6'-3"	5'-10"	900	
Jib Tip (T)		4'-11"	7'-1"	5'-3"	600	Jib for L9 278'-10" hook radius 216'-0" - 34,800 lbs.
Special Jib Tip (T*) for Jib L0 & L0A		4'-11"	7'-1"	5'-3"	600	
Single Trolley for 2-Part Line		7'-1"	7'-2"	4'-2"	1,300	
Single Load Block for 2-Part Line		4'-2"	1'-5"	5'-11"	1,500	
Double Trolley for 4-Part Line		14'-2"	7'-2"	4'-2"	2,600	
Double Load Block for 4-Part Line		6'-3"	1'-5"	7'-10"	2,200	
Counterweight PHZ6000		4'-9"	1'-6"	12'-2"	13,230	
Counterweight PHZ5000		4'-9"	1'-6"	10'-6"	11,025	
Counterweight PHZ4000		4'-9"	1'-6"	8'-6"	8,820	
Power Cable		3'-4"	3'-4"	3'-6"	600	

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

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

*Consult operating manual for erection instructions.

* Wind sails have to be installed for L0 & L0A jibs. Consult P&J Arcomet Engineering for details.