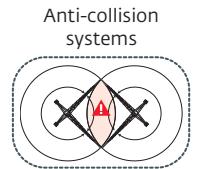
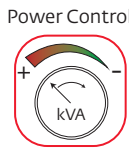
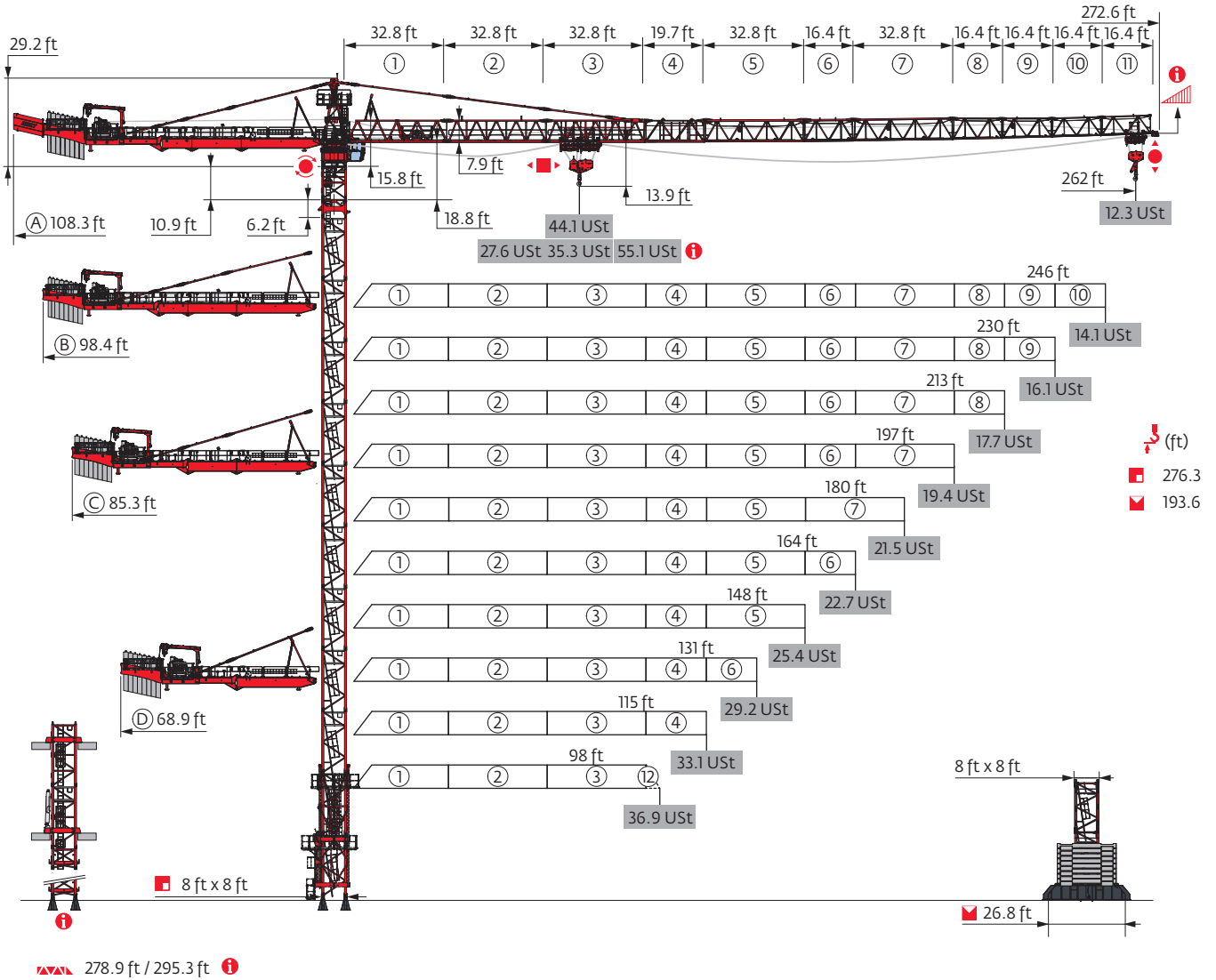


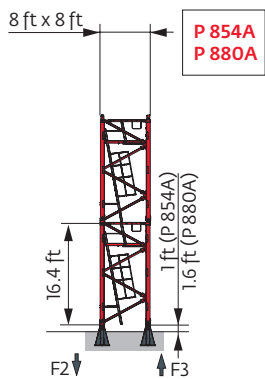
MDLT 1109



Mast - Reactions

8 ft - P 854A											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
↓ (ft)	237.5	226.4	221.1	226.4	221.1	221.1	215.6	210	210	210	204.7
↓/P _r (ft)	237.5	226.4	221.1	226.4	221.1	221.1	215.6	210	210	210	204.7
Accessories	10.9 ft	1	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1	1
	10.9 ft	1	0	1	0	1	2	0	0	0	1
	16.4 ft	13	13	12	13	12	12	11	12	12	11
F2 (Ust)	● 425	429	425	433	427	425	420	413	418	394	388
	■ 448	398	372	402	375	389	367	352	351	375	362
F3 (Ust)	● 284	284	277	286	300	275	289	285	288	241	257
	■ 329	275	246	277	248	261	236	224	221	244	231

8 ft - P 880A											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
↓ (ft)	276.3	259.8	259.8	271	265.4	271	271	265.4	265.4	265.4	259.8
↓/P _r (ft)	276.3	259.8	259.8	259.8	259.8	259.8	265.4	265.4	265.4	265.4	259.8
Accessories	10.9 ft	1	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1	1
	10.9 ft	0	0	0	1	2	1	2	2	2	0
	16.4 ft	16	15	15	15	14	15	15	14	14	15
F2 (Ust)	● 504	499	500	514	506	504	513	509	510	493	475
	■ 706	620	612	697	648	683	699	682	681	688	621
F3 (Ust)	● 337	331	327	338	352	326	350	327	348	311	300
	■ 561	474	461	544	494	527	536	522	519	528	468



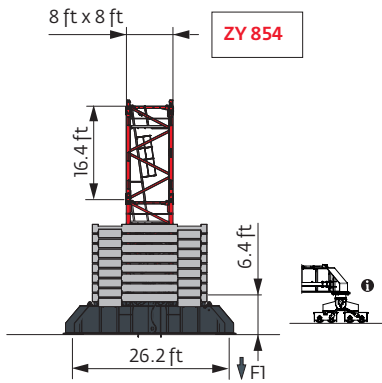
i Motorized accesses: adapted mast compositions, base ballast and reactions.

For any special request, please consult us.

Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.

8 ft - ZY 854 -

WxH (ft)	98	115	131	148	164	180	197	213	230	246	262
\bar{r} (ft)	193.6	160.8	144.4	155.2	144.4	160.8	166.3	155.2	160.8	149.9	193.6
\bar{r}/P_r (ft)	193.6	149.9	144.4	149.9	144.4	160.8	166.3	155.2	160.8	149.9	193.6
10.9 ft	1	1	1	1	1	1	1	1	1	1	1
6.2 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	1	1	2	1	1	0	2	1	0	1
16.4 ft	10	8	7	7	7	8	9	7	8	8	10
F1 (Ust)	● 222	206	201	200	198	213	212	208	218	211	241
	■ 173	167	170	167	171	177	180	177	187	181	200



Anchorage



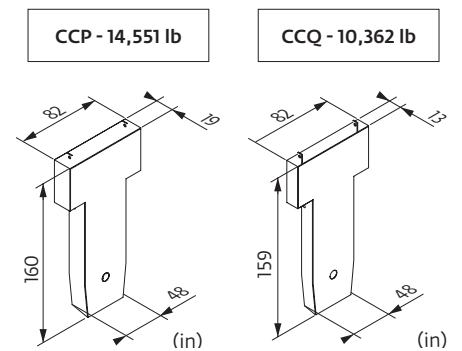
Base ballast

⚖️ (Ust) / 8 ft - ZY 854 - 🏗️

⚙️ (ft)	98	115	131	148	164	180	197	213	230	246	262
193.6	185.2										238.1
166.3	158.7						158.7				224.9
160.8	145.5	158.7				172	158.7		185.2		224.9
155.2	145.5			145.5		172	158.7	158.7	185.2		224.9
149.9	145.5	158.7		158.7		172	158.7	158.7	185.2	198.4	224.9
144.4	132.3	158.7	158.7	158.7	145.5	158.7	145.5	158.7	172	198.4	224.9
128	132.3	145.5	145.5	158.7	145.5	158.7	145.5	145.5	172	198.4	224.9
111.6	132.3	145.5	145.5	158.7	145.5	158.7	145.5	145.5	172	198.4	224.9
95.1	132.3	145.5	145.5	158.7	145.5	158.7	145.5	145.5	172	198.4	224.9
78.7	132.3	145.5	145.5	158.7	145.5	158.7	145.5	145.5	172	198.4	224.9
62.3	132.3	145.5	145.5	158.7	145.5	158.7	145.5	145.5	172	198.4	224.9





Counter-jib ballast

⚙️	180 HPL™ 🏗️			320 LVF 🏗️			320 LVF GH 🏗️		
	14,551 lb	10,362 lb	⚖️ (lb)	14,551 lb	10,362 lb	⚖️ (lb)	14,551 lb	10,362 lb	⚖️ (lb)
262 ft	7	1	112,215	7	1	112,215	6	2	108,027
246 ft	6	2	108,027	6	2	108,027	5	3	103,838
230 ft	6	2	108,027	5	3	103,838	6	1	97,665
213 ft	7	0	101,854	4	4	99,649	3	5	95,460
197 ft	8	0	116,404	5	4	114,199	6	2	108,027
180 ft	5	3	103,838	5	3	103,838	6	1	97,665
164 ft	7	0	101,854	4	4	99,649	2	6	91,271
148 ft	4	3	89,287	6	0	87,303	5	1	83,114
131 ft	8	0	116,404	8	0	116,404	6	2	108,027
115 ft	5	3	103,838	5	3	103,838	4	4	99,649
98 ft	6	0	87,303	6	0	87,303	5	1	83,114







Load curves



 (ft)		72	82	98	115	131	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft	
	44.1 USt																						
	22 USt																						
262	15.1 → 76.4	140.7 - 152.5	44.1	40.9	33.4	28	24	22	21.8	20.3	19.5	18.3	17.5	16.5	15.9	15.1	14.6	13.8	13.4	12.7	12.3	11.8	USt
	15.1 → 76.8	143.5 - 155.9	44.1	41	33.7	28.4	24.4	22	22	20.9	20	18.8	18.1	17.1	16.5	15.6	15.1	14.4	13.9	13.3	12.9	12.3	USt P+
246	15.1 → 79.7	148.8 - 161	44.1	42.7	35.1	29.6	25.5	22.2	22	21.6	20.7	19.5	18.7	17.7	17.1	16.2	15.7	14.9	14.4	13.8	USt		
	15.1 → 80.4	151.1 - 164	44.1	43.2	35.5	30	25.9	22.6	22	22	21.1	19.9	19.1	18.1	17.4	16.5	16	15.2	14.8	14.1	USt P+		
230	15.1 → 84.6	155.5 - 167.4	44.1	44.1	37.3	31.3	26.9	23.4	22.3	22	21.6	20.3	19.5	18.4	17.7	16.8	16.2	15.4	USt				
	15.1 → 87.6	161.3 - 173.9	44.1	44.1	38.8	32.7	28.1	24.5	23.3	22	22	21.1	20.3	19.2	18.5	17.5	16.9	16.1	USt P+				
213	15.1 → 87.3	160.5 - 172.8	44.1	44.1	38.6	32.5	27.9	24.3	23.1	22	22	21	20.2	19.1	18.4	17.4	USt						
	15.1 → 88.6	163.2 - 175.7	44.1	44.1	39.3	33.1	28.4	24.8	23.6	22	22	21.4	20.6	19.4	18.7	17.7	USt P+						
197	15.1 → 87.3	160.6 - 172.8	44.1	44.1	38.6	32.5	27.9	24.3	23.1	22	22	21	20.2	19.1	USt								
	15.1 → 88.6	163 - 175.5	44.1	44.1	39.3	33.1	28.4	24.8	23.6	22	22	21.4	20.5	19.4	USt P+								
180	15.1 → 86.9	160.1 - 172.3	44.1	44.1	38.5	32.4	27.8	24.3	23	22	22	20.9	USt										
	15.1 → 88.9	163.8 - 176.4	44.1	44.1	39.5	33.3	28.6	24.9	23.7	22	22	21.5	USt P+										
164	15.1 → 89.6		44.1	44.1	39.7	33.5	28.7	25.1	23.8	22.2	USt												
	15.1 → 91.5		44.1	44.1	40.7	34.2	29.4	25.7	24.4	22.7	USt P+												
148	15.1 → 88.6		44.1	44.1	39.3	33.1	28.4	24.8	USt														
	15.1 → 90.2		44.1	44.1	40.1	33.8	29	25.4	USt P+														
131	15.1 → 90.9		44.1	44.1	40.4	34	29.2	USt															
	15.1 → 90.9		44.1	44.1	40.4	34	29.2	USt P+															
115	15.1 → 88.6		44.1	44.1	39.3	33.1	USt																
	15.1 → 88.6		44.1	44.1	39.3	33.1	USt P+																
98	15.1 → 84		44.1	44.1	36.9	USt																	
	15.1 → 84		44.1	44.1	36.9	USt P+																	

$$\text{Symbol} = \text{Symbol} - 2.04 \text{ USt max.}$$



 (m)		72	82	98	115	131	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft	
	44.1 USt																						
	22 USt																						
262	12.5 → 76.4	140 - 143	44.1	40.8	33.3	27.9	23.8	21.2	20.2	18.7	17.8	16.6	15.9	14.9	14.3	13.4	12.9	12.2	11.7	11.1	10.7	10.1	USt
	12.5 → 76.8	142.8 - 145.9	44.1	41	33.6	28.3	24.3	21.8	20.7	19.2	18.4	17.2	16.5	15.5	14.9	14	13.5	12.7	12.3	11.7	11.3	10.7	USt P+
246	12.5 → 79.1	147.2 - 150.4	44.1	42.4	34.8	29.3	25.2	22	21.4	19.9	19	17.8	17.1	16	15.4	14.5	14	13.2	12.8	12.1	USt		
	12.5 → 80.1	149.5 - 152.8	44.1	42.9	35.2	29.7	25.6	22.4	21.8	20.3	19.4	18.2	17.4	16.4	15.8	14.9	14.3	13.6	13.1	12.5	USt P+		
230	12.5 → 83.7	152.8 - 156	44.1	44.1	36.8	30.9	26.4	23	22	20.8	19.8	18.5	17.7	16.6	16	15	14.5	13.7	USt				
	12.5 → 86.9	158.4 - 161.9	44.1	44.1	38.3	32.2	27.6	24	22.8	21.7	20.7	19.4	18.5	17.4	16.7	15.7	15.2	14.3	USt P+				
213	12.5 → 86.6	159 - 162.5	44.1	44.1	38.3	32.2	27.6	24.1	22.9	21.8	20.8	19.5	18.6	17.5	16.8	15.9	USt						
	12.5 → 88.3	161.7 - 165.2	44.1	44.1	39.1	32.8	28.2	24.6	23.3	22	21.2	19.9	19	17.9	17.2	16.2	USt P+						
197	12.5 → 86.9	159.1 - 162.5	44.1	44.1	38.4	32.2	27.7	24.1	22.9	21.8	20.8	19.5	18.7	17.5	USt								
	12.5 → 88.3	161.5 - 165	44.1	44.1	39	32.8	28.2	24.5	23.3	22	21.2	19.8	19	17.9	USt P+								
180	12.5 → 86.9	159.9 - 163.4	44.1	44.1	38.4	32.4	27.8	24.2	23	21.9	21	19.6	USt										
	12.5 → 88.9	163.7 - 167.3	44.1	44.1	39.5	33.2	28.5	24.9	23.7	22	21.5	20.2	USt P+										
164	12.5 → 89.6		44.1	44.1	39.7	33.5	28.7	25.1	23.8	22.2	USt												
	12.5 → 91.5		44.1	44.1	40.7	34.2	29.4	25.7	24.4	22.7	USt P+												
148	12.5 → 88.6		44.1	44.1	39.3	33.1	28.4	24.8	USt														
	12.5 → 90.2		44.1	44.1	40.1	33.8	29	25.4	USt P+														
131	12.5 → 90.9		44.1	44.1	40.4	34	29.2	USt															
	12.5 → 90.9		44.1	44.1	40.4	34	29.2	USt P+															
115	12.5 → 88.6		44.1	44.1	39.3	33.1	USt																
	12.5 → 88.6		44.1	44.1	39.3	33.1	USt P+																
98	12.5 → 84		44.1	44.1	36.9	USt																	
	12.5 → 84		44.1	44.1	36.9	USt P+																	

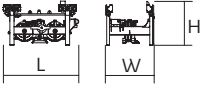

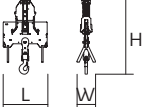

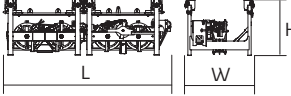



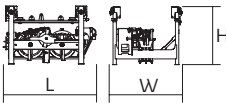

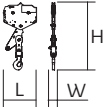

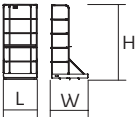
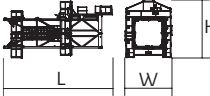

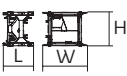

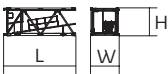

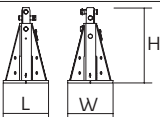
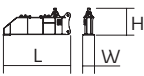
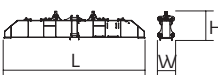
$$\text{Symbol} = \text{Symbol} - 0.57 \text{ USt max.}$$

Dimensions and weight

Slewing crane part: 262 ft - 180 HPL™



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		25.8	7.3	9.2	21,164
		27.4	6.6	8	16,094
		17.6	5.3	9	10,097
		11	5.4	7.9	6,790
		102.2	21.9	20.3	70,989
		93.2	21.9	20.3	70,107
Cathead		20.7	6.2	7.3	17,857
Cab		11	7.5	8.2	6,614
		11	7.5	8.2	6,614
Towerhead		9.8	9.5	9.8	37,038
		23.5	9.8	9.8	43,652
Hoisting winch (+ rope)		16.2	6.6	6.6	20,459
		16.8	7.3	7.3	21,437
		18.4	7.2	7.8	31,150
Jib section		34.2	7.4	8.9	20,062
Jib section		34.1	4.5	9.1	15,212
		34	4.5	7.9	16,314
		34.4	4.5	7.8	11,023
		33.9	4.5	7.5	7,011
Jib section		20.9	4.5	7.9	8,774
		17.8	4.5	7.7	4,850
		17.3	4.5	7.3	2,998
		17.3	4.5	6.8	2,183
		17.3	4.5	6.7	1,962
		4.5	3.3	7.3	1,303
		5.5	5.2	1.9	728

			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Trolley			8.6	5.7	5.2	2,678
Pulley block			6.2	2.6	10.4	3,120
Trolley			13.8	5.9	4.9	3,219
Pulley block			7.5	1.1	9.7	2,888
Trolley			6.9	5.9	4.9	1,720
Pulley block			5	1.1	10	1,786
Trolley inspection platform			3.1	3.4	7	125
Crane tower						
T 851			36.7	15.9	19	34,723
K 85/K 85-2			7.3	10.7	8.2	7,937
KM 850.10B KM 850.14B KMT 850.10A KMT 850.14A K 88/K 85A2 KM 880.10A KMT 880.10A KMT 850.10C			33.9 33.9 17.5 17.5 17.5 17.8 17.8 12	8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.3	8.2 8.2 8.2 8.2 8.2 8.3 8.6 8.2	22,201 24,670 12,015 13,206 18,281 18,453 19,180 9,326
Fixing angles		P 854A P 880A	3 3.3	3 3.3	4.9 6.2	2,072 3,536
1/2 Cross girder		ZY 854	18.7	3.2	7.4	14,176
Cross girder		ZY 854	39	4.7	7.4	30,865

Mechanisms

480 V - 60 Hz													hp	kW	
	180 HPL™100	fpm	107	131	174	274	323	53	66	89	143	161	180	132	1,745 ft
		USt	22	16.5	11	5.5	4	44.1	33.1	22	11	8.9			
	320 LVF 100 Optima	fpm	220	282	387	486	531	112	141	197	243	266	320	240	1,745 ft
		USt	22	16.5	11	7.5	6.6	44.1	33.1	22	15.7	14			
	320 LVF 100 GH Optima	fpm	220	279	369	436		112	141	187	218		320	240	3,488 ft
		USt	22	16.5	11	8		44.1	33.1	22	18.1				
	15 DVF 16 Optima	fpm	0 → 108 (44.1 USt) 0 → 164 (22 USt)				0 → 220 (11 USt)		0 → 328 (2.8 USt)			15	11		
	RVF 174 Optima +	rpm	0 → 0.7									4 x 10	4 x 7.5		

IEC 60204-32		
480 V (+6% -10%) 60 Hz	180 HPL™: 194 → 122 kVA 320 LVF: 306 → 178 kVA	

These mast combinations meet the EN 14439 and ASME B30.3-2016 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind speed for the location of the tower crane. The "out of service" design wind speed was determined in accordance with ASCE 7-10, Figure 26.5-1A. The wind velocity, used for this configuration was 98 mph (158 kph), which represents a nominal design 3-second wind gust at 33 ft (10 m) above ground for Exposure B category. A factor of 0.85 was applied to the 700-year ultimate design wind speed of 115 mph (185 kph), per ASCE 37-02, with the assumption that this crane is considered a temporary structure used during a construction period of 2 years or less.

- Jib elevation
- Standard equipment
- Options
- Potain Plus function: Plus load curves
- Hook heights with Plus load curves
- Reactions in service
- Reactions out of service
- Total ballast weight
- Lorry 44 ft
- Container High Cube 40 ft, and/or Flat Rack 20 ft
- Hoisting
- Trolleying
- Slewing
- Travelling
- Required power
- Power Control Function: winch speeds adapted to the available power
- Consult us

This commercial document is not legally binding. For any technical information, please refer to the corresponding instructions.

