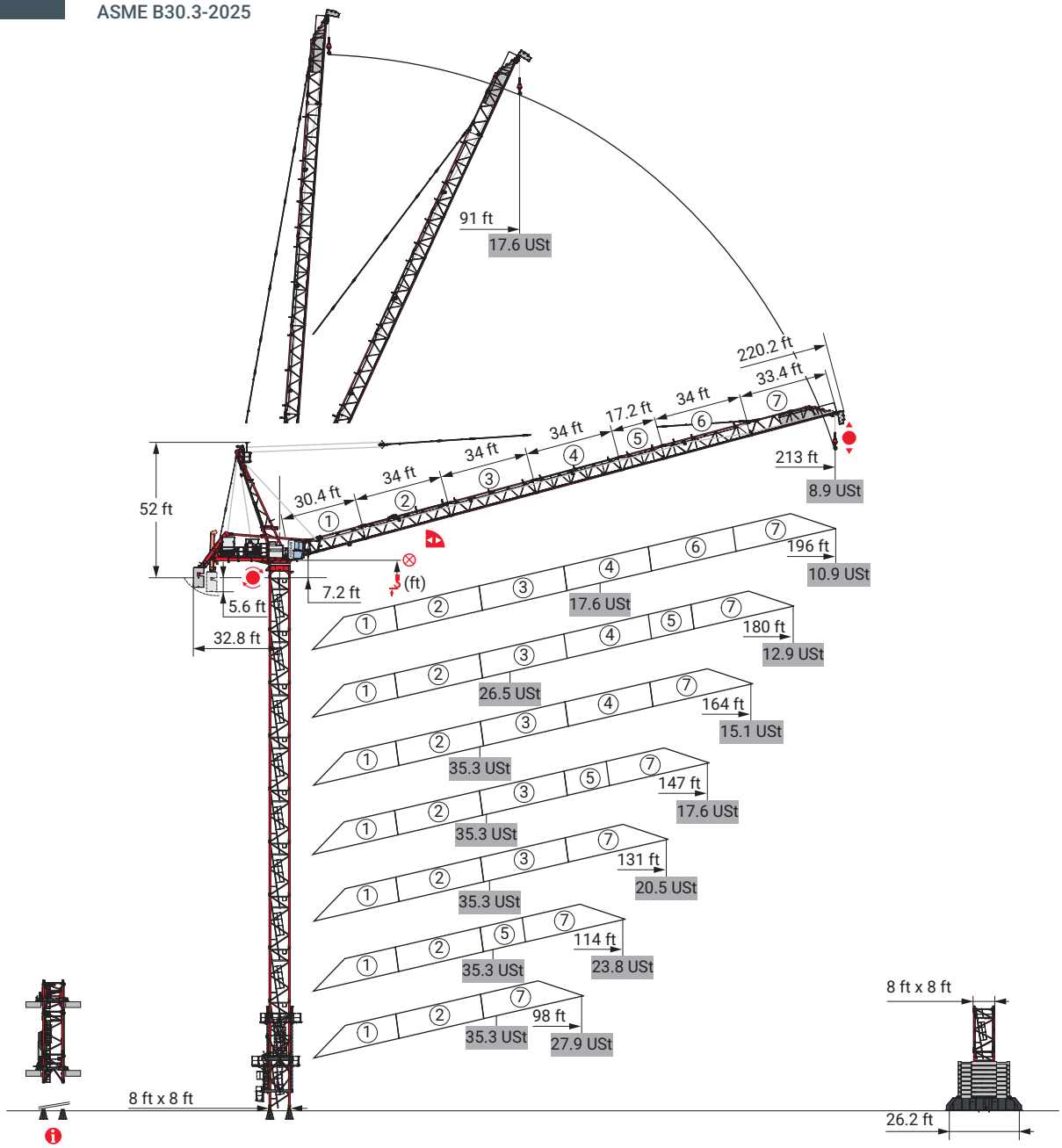
POTAIN®

MR 669

Preliminary information

ASME B30.3-2025



Auto-levelling

Potain Plus

Power Control

Anti-collision systems

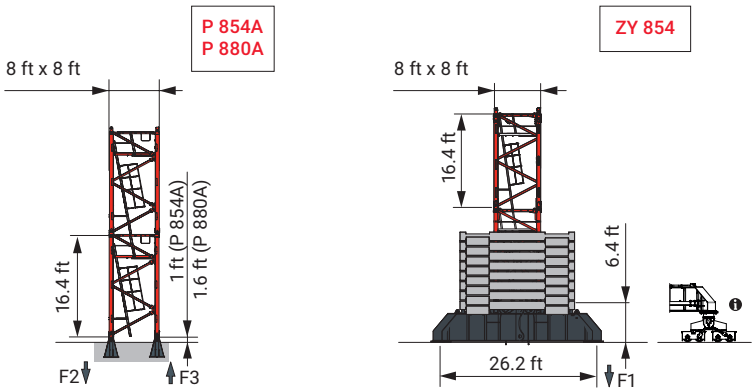
Values have been rounded.

Mast - Reactions

8 ft - P 854A									
(ft)		98	114	131	147	164	180	196	213
(ft)		227	227	215.9	215.9	210.6	210.6	205.1	199.5
/P+ (ft)		227	227	215.9	215.9	210.6	210.6	205.1	199.5
10.9 ft		2	2	1	1	2	2	0	1
16.4 ft		12	12	12	12	11	11	12	11
F2 (USt)	●	378	399	384	387	383	386	380	376
	■	517	552	512	543	547	578	568	576
F3 (USt)	●	256	280	278	281	276	279	275	271
	■	413	448	405	436	440	471	463	471

8 ft - P 880A									
(ft)		98	114	131	147	164	180	196	213
(ft)		287.7	276.6	271.3	271.3	265.8	254.9	254.9	249.3
/P+ (ft)		287.7	276.6	271.3	271.3	265.8	254.9	254.9	249.3
10.9 ft		0	2	0	0	1	0	0	1
16.4 ft		17	15	16	16	15	15	15	14
F2 (USt)	●	483	484	474	486	471	455	460	457
	■	877	856	837	880	880	840	871	881
F3 (USt)	●	342	347	338	344	348	334	339	337
	■	754	733	713	756	756	719	750	761

8 ft - ZY 854 -									
(ft)		98	114	131	147	164	180	196	213
(ft)		226.7	226.7	215.9	215.9	210.3	210.3	205.1	199.5
/P+ (ft)		226.7	226.7	215.9	215.9	210.3	210.3	205.1	199.5
10.9 ft		0	0	2	2	0	0	1	2
16.4 ft		13	13	11	11	12	12	11	10
F1 (USt)	●	202	210	203	209	204	210	208	210
	■	257	277	260	276	274	292	292	296



Other mast compositions - Please consult us.

Motorized accesses: adapted mast composition, base ballast and reactions.

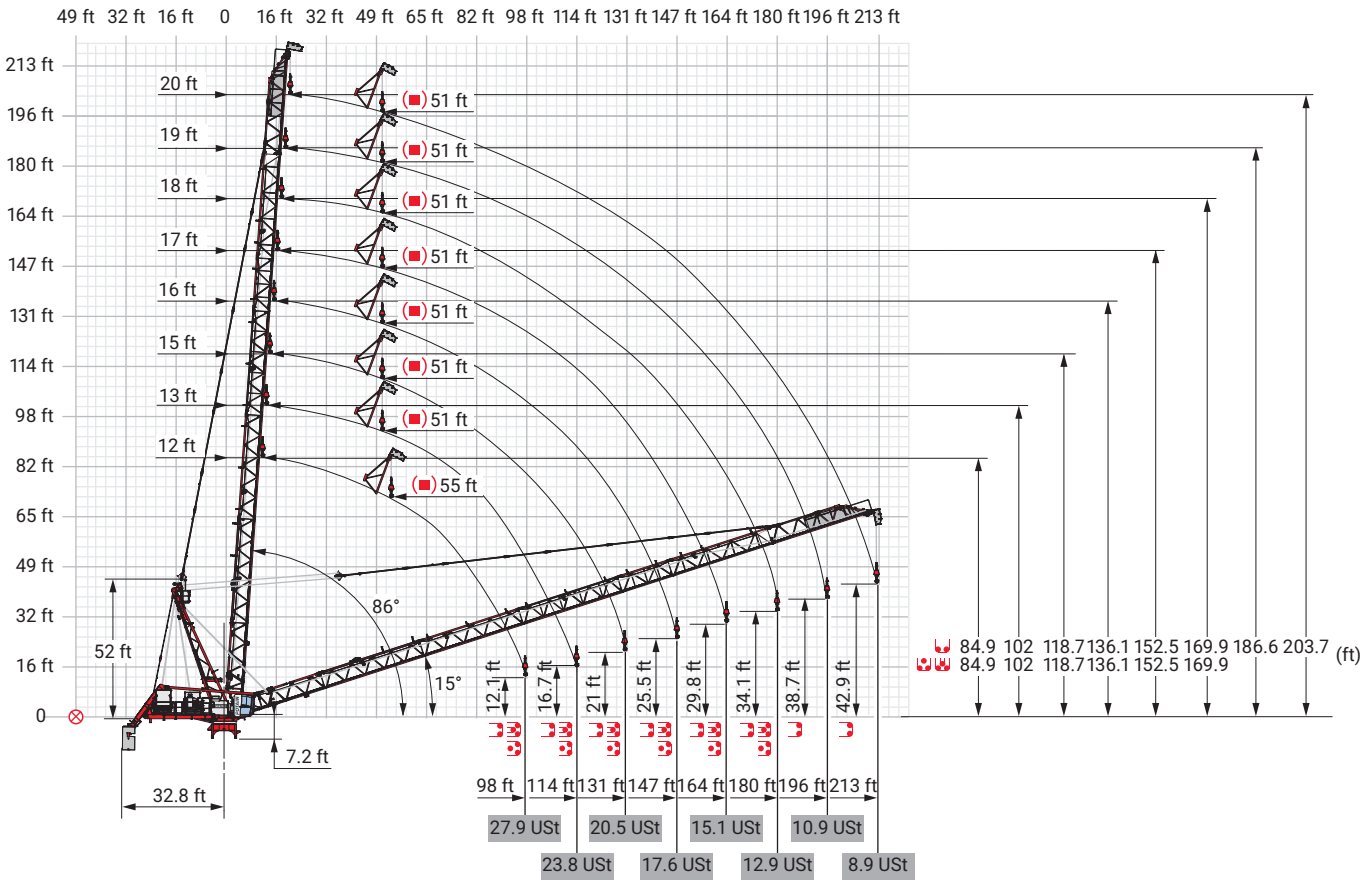
Anchorages

Base ballast

(USt) / 8 ft - ZY 854 -

(ft)	98	114	131	147	164	180	196	213
226.7	185.2	198.4						
215.9	172	172	185.2	198.4				
210.3	158.7	158.7	172	185.2	198.4	224.9		
205.1	145.5	158.7	172	172	172	198.4	224.9	
199.5	132.3	145.5	158.7	158.7	172	185.2	211.6	238.1
183.1	119.1	119.1	132.3	132.3	132.3	145.5	158.7	172
166.7	92.6	92.6	105.8	105.8	119.1	119.1	132.3	132.3
150.3	66.1	79.4	79.4	92.6	92.6	92.6	105.8	119.1
133.9	52.9	52.9	66.1	66.1	66.1	79.4	79.4	92.6
117.5	52.9	52.9	52.9	52.9	52.9	52.9	66.1	66.1
101.1	52.9	52.9	39.7	39.7	39.7	39.7	52.9	52.9
84.7	52.9	52.9	39.7	39.7	39.7	39.7	39.7	39.7

Luffing jib


49 ft 32 ft 16 ft 0 16 ft 32 ft 49 ft 65 ft 82 ft 98 ft 114 ft 131 ft 147 ft 164 ft 180 ft 196 ft 213 ft
213 ft
196 ft
180 ft
164 ft
147 ft
131 ft
114 ft
98 ft
82 ft
65 ft
49 ft
32 ft
16 ft
0
20 ft
19 ft
18 ft
17 ft
16 ft
15 ft
13 ft
12 ft
51 ft
55 ft
86°
15°
52 ft
7.2 ft
32.8 ft
12.1 ft
16.7 ft
21 ft
25.5 ft
29.8 ft
34.1 ft
38.7 ft
42.9 ft
84.9 102 118.7 136.1 152.5 169.9 186.6 203.7 (ft)
84.9 102 118.7 136.1 152.5 169.9
98 ft 114 ft 131 ft 147 ft 164 ft 180 ft 196 ft 213 ft
27.9 USt
20.5 USt
15.1 USt
10.9 USt
23.8 USt
17.6 USt
12.9 USt
8.9 USt

Load curves

(ft)			55	65	72	82	88	98	104	114	115	121	131	137	147	154	164	170	180	ft
		17.6 USt																		
180	18 → 78	117 - 124	26.5	26.5	26.5	25.4	23.5	21.1	19.8	18	-	17.6	16.7	15.9	14.8	14.2	13.3	12.8	12	USt
	18 → 78	122 - 130	26.5	26.5	26.5	25.5	23.8	21.6	20.4	18.7	-	17.7	17.6	16.8	15.7	15.1	14.2	13.7	12.9	USt P+
164	17 → 62	124 - 132	35.3	33.6	30.7	27.1	25.1	22.6	21.1	19.3	-	18.2	17.6	17	15.9	15.2	14.2	USt		
	17 → 62	131 - 140	35.3	33.8	31.1	27.7	25.8	23.4	22	20.1	-	19.1	17.6	17.6	16.8	16.1	15.1	USt P+		
147	16 → 67	133 - 142	35.3	35.3	33	29.1	27	24.3	22.7	20.7	-	19.6	18	17.6	17	USt				
	16 → 67	138 - 147	35.3	35.3	33.1	29.4	27.4	24.8	23.3	21.4	-	20.3	18.7	17.8	17.6	USt P+				
131	15 → 68		35.3	35.3	34	30.5	28.5	26	24.5	22.6	-	21.4	19.8	USt						
	15 → 68		35.3	35.3	34	30.8	28.9	26.5	25.1	23.2	-	22	20.5	USt P+						
114	13 → 70		35.3	35.3	34.6	31.2	29.2	26.7	25.2	23.2	23.1	USt								
	13 → 70		35.3	35.3	34.7	31.4	29.6	27.1	25.7	23.8	23.7	USt P+								
98	12 → 72		35.3	35.3	35.3	32	30.1	27.6	USt											
	12 → 72		35.3	35.3	35.3	32.1	30.3	27.9	USt P+											

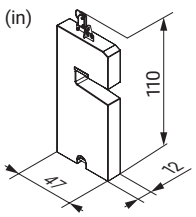
= - 1.15 USt max.

(ft)		55	65	72	82	88	98	104	114	115	121	131	137	147	154	164	170	180	196	213	ft
	17.6 USt																				
213	20 → 91	17.6	17.6	17.6	17.6	17.6	16.7	15.8	14.7	-	14	13.1	12.5	11.8	11.3	10.7	10.3	9.8	9	8.3	USt
	20 → 91	17.6	17.6	17.6	17.6	17.6	16.8	16	15	-	14.4	13.5	13	12.3	11.9	11.3	10.9	10.4	9.6	8.9	USt P+
196	19 → 111	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.2	-	16.3	15.1	14.5	13.5	13	12.2	11.7	11.1	10.1	USt	
	19 → 111	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.2	-	16.5	15.5	14.9	14.1	13.6	12.8	12.4	11.8	10.9	USt P+	
180	18 → 125	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	16.8	16	15	14.3	13.4	12.9	12.2	USt		
	18 → 130	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	16.8	15.7	15.1	14.2	13.7	12.9	USt P+		
164	17 → 133	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	17.1	16	15.3	14.3	USt				
	17 → 140	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	17.6	16.8	16.1	15.1	USt P+				
147	16 → 143	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	17.6	17.1	USt						
	16 → 147	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	17.6	17.6	USt P+						
131	15 → 131	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	USt								
	15 → 131	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	17.6	17.6	USt P+								
114	13 → 115	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	USt										
	13 → 115	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	USt P+										
98	12 → 98	17.6	17.6	17.6	17.6	17.6	17.6	USt													
	12 → 98	17.6	17.6	17.6	17.6	17.6	17.6	USt P+													

Jib weight and counter-jib ballast

	(lb) (+/- 5%)			
		/		
			13,228 lb	(lb)
213 ft	36,586	23,237 / 13,349	9	119,052
196 ft	34,580	23,237 / 11,343	9	119,052
180 ft	34,800	23,215 / 11,585	9	119,052
164 ft	32,778	23,215 / 9,563	9	119,052
147 ft	30,377	13,768 / 16,609	9	119,052
131 ft	28,393	13,768 / 14,625	9	119,052
114 ft	25,964	13,823 / 12,141	8	105,824
98 ft	23,986	14,081 / 9,905	8	105,824

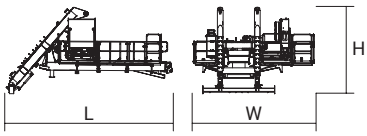
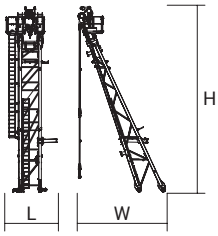
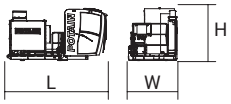
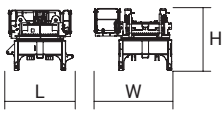
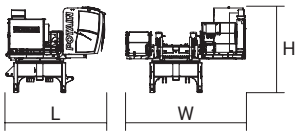
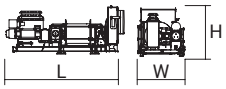
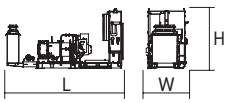
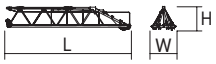
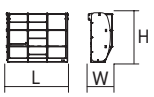
13,228 lb

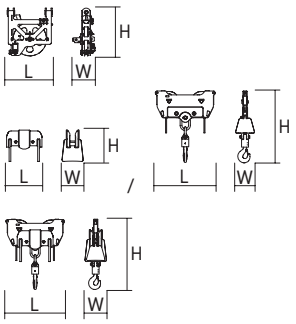
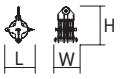
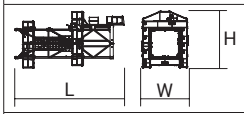
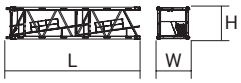
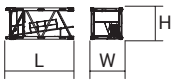
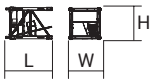
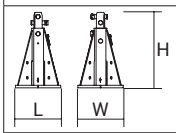
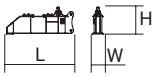


Dimensions and weight

Slewing crane part - : 213 ft - - 180 HPL™

x 12
x 11

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Counter-jib	150 VVF	27.8	21	16.3	31,824
	Strut		11.9	20.2	43	26,411
	Cab	Ultra View	15.6	7.5	8.1	4,255
	Towerhead	8 ft	10.6	11.9	9.5	31,129
			15.6	18.8	13.4	35,384
	Hoisting winch (+ rope)	180 HPL™ 320 LVF	15.8 18.4	6.4 7.2	6.5 7.8	16,821 28,153
	Luffing winch (+ rope)	150 VVF	16	5.6	7.1	11,211
	Jib section	①	32	7.7	6.7	7,209
		②	34.6	7	5.9	4,277
		③	34.5	7	5.7	3,715
		④	34.5	7	5.7	3,307
		⑥	34.5	7	5.7	2,910
		⑤	17.8	7	5.7	1,631
		⑦	34.9	7	6.6	5,004
	Jib nose inspection platform		6.2	2.5	5	187

			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Pulley block		2.6 3.4 5.6 5.6	1.2 2 1.7 2	2.7 3 6.7 6.7	231 1,653 1,653 3,306
	Luffing pulley block		3	2.3	3.6	728
Crane tower						
	T 851	⍁ 8 ft	36.7	15.9	19	34,723
	KM 850.10B KM 850.14B	⍁ 8 ft	33.9 33.9	8.3 8.3	8.2 8.2	22,201 24,670
	KMT 850.10A KMT 850.14A K88/K85A2 KM 880.10A KMT 880.10A	⍁ 8 ft	17.5 17.5 17.5 17.8 17.8	8.3 8.3 8.2 8.3 8.3	8.2 8.2 8.2 8.3 8.6	12,015 13,206 18,281 18,453 19,180
	KMT 850.10C	⍁ 8 ft	12	8.3	8.2	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™ 80	fpm	137	170	228	359	503	68	85	114	183	251	180	132	2,385 ft
		USt	17.6	13.2	8.8	4.4	2.1	35.3	26.5	17.6	8.8	5.2			
	320 LVF 80 Optima	fpm	246	321	449	639	669	124	160	226	318	334	320	240	3,432 ft
		USt	17.6	13.2	8.8	5.5	4.5	35.3	26.5	17.6	12.2	10.4			
	150 VVF 71		1 min 55 s										150	110	
	RVF 173 Optima +	rpm	0 → 1										3 x 10	3 x 7.5	

IEC 60204-32	kVA	
480 V (+6% -10%) 60 Hz	180 HPL™ + 150 VVF : 293 → 161 kVA 320 LVF + 150 VVF : 405 → 217 kVA	

The reactions and mast compositions presented in this data sheet meet the specifications of EN 14439:2025 and ASME B30.3-2025 standards.
The “out of service” wind profile is determined in accordance with ASCE 7-22 and ASCE 37-25 specifications as follow:
The “standard” design wind is determined from an ultimate reference wind speed of 115 mph (185 kph) corresponding to an average recurrence interval of 700 years, calculated for an Exposure C category, and combined with a 0.85 reduction factor based on the assumption that the crane is considered as a temporary construction structure used for 2 years or less.
As a result, this “standard” wind profile is covered by the EN 14439:2025 C25 wind profile, which is used to determine all technical data provided in this document.

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

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MR 669

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