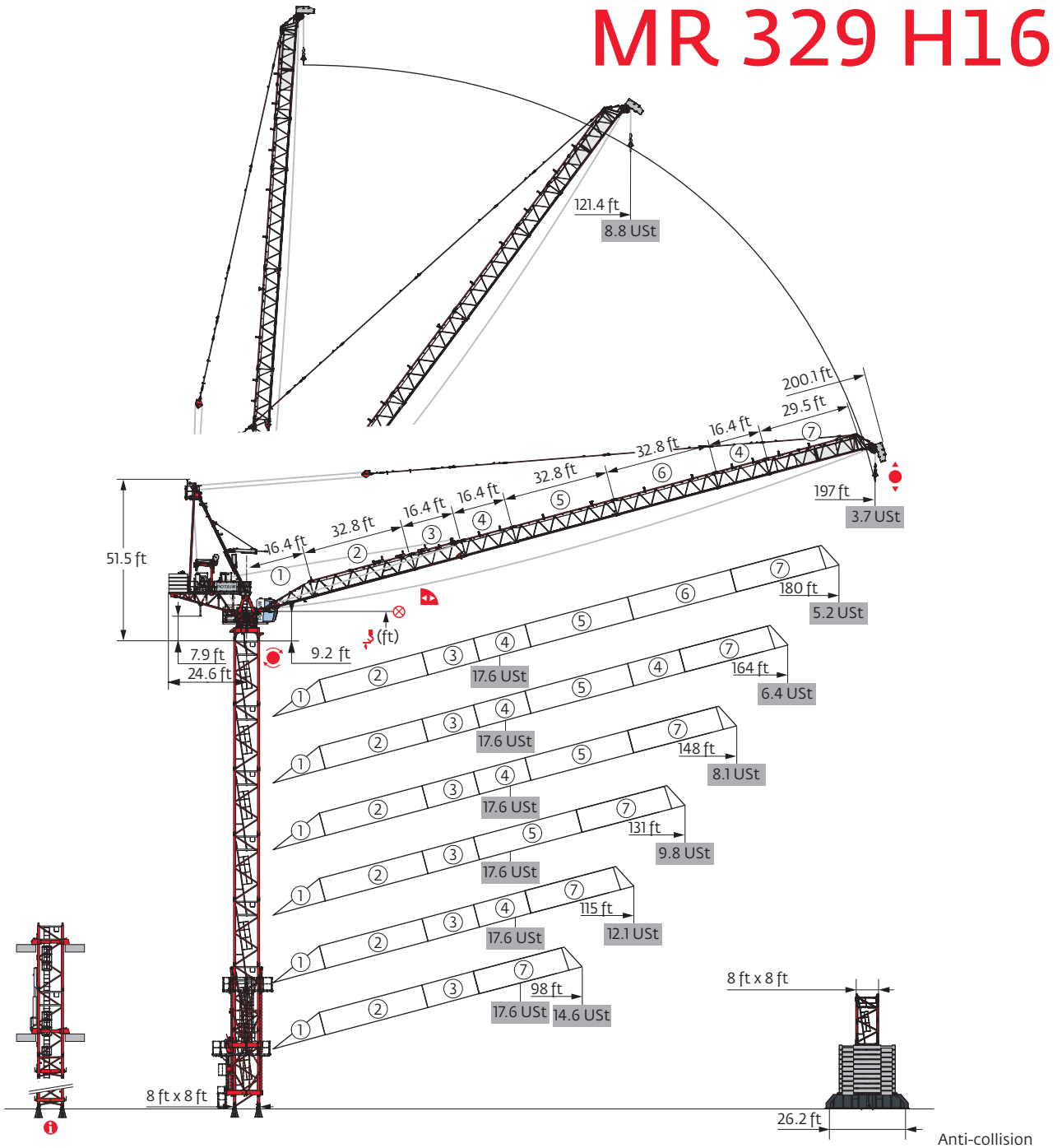
POTAIN®

MR 329 H16



Potain Plus

Power Control

Anti-collision systems

ASCE 7-10

Values have been rounded.

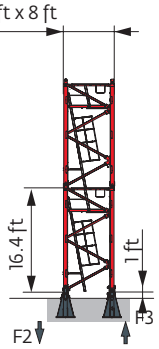
Mast - Reactions

8 ft - P 800B								
(ft)		98	115	131	148	164	180	197
(ft)		234.6	229	223.4	218.2	212.6	207	201.8
/P+ (ft)		234.6	229	223.4	218.2	212.6	207	201.8
10.9 ft		1	2	0	1	2	0	1
16.4 ft		13	12	13	12	11	12	11
F2 (USt)	●	236	236	233	231	231	228	229
	■	406	410	403	406	409	403	405
F3 (USt)	●	166	164	162	162	162	160	162
	■	337	339	334	338	340	336	339

8 ft - P 854A								
(ft)		98	115	131	148	164	180	197
(ft)		289	283.8	278.2	272.6	267.4	261.8	256.2
/P+ (ft)		289	283.8	278.2	272.6	267.4	261.8	256.2
10.9 ft		0	1	2	0	1	2	0
16.4 ft		17	16	15	16	15	14	15
F2 (USt)	●	287	287	286	282	282	282	279
	■	605	609	612	604	607	610	601
F3 (USt)	●	203	202	201	199	192	192	200
	■	523	526	529	522	526	529	523

P 63A / P 800B
P 854A

8 ft x 8 ft



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.

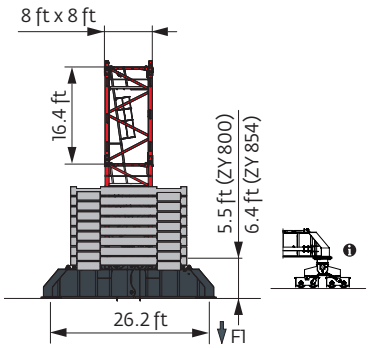
Other mast compositions - Please consult us.

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

8 ft - ZY 800 -							
(ft)	98	115	131	148	164	180	197
(ft)	228	228	222.4	211.6	211.6	206	195.2
/P+ (ft)	228	228	222.4	211.6	211.6	206	195.2
10.9 ft	0	0	1	0	0	1	0
16.4 ft	13	13	12	12	12	11	11
Fl (USt) ●	140	145	148	143	148	148	142
Fl (USt) ■	193	201	203	193	202	204	192

8 ft - ZY 854 -							
(ft)	98	115	131	148	164	180	197
(ft)	272.6	261.8	261.8	250.7	245.4	239.8	229
/P+ (ft)	272.6	261.8	261.8	250.7	245.4	239.8	229
10.9 ft	1	0	0	2	0	1	0
16.4 ft	15	15	15	13	14	13	13
Fl (USt) ●	182	177	181	181	180	179	172
Fl (USt) ■	283	268	278	271	266	267	255

ZY 800
ZY 854



Anchorages

Base ballast

(USt) / 8 ft - ZY 800 -

(ft)	98	115	131	148	164	180	197
228	145.5	158.7					
222.4	145.5	158.7	172				
211.6	119.1	132.3	145.5	158.7	172		
206	105.8	119.1	132.3	145.5	158.7	172	
195.2	92.6	105.8	105.8	132.3	132.3	158.7	172
178.8	79.4	79.4	79.4	92.6	105.8	119.1	132.3
162.4	66.1	66.1	66.1	79.4	79.4	92.6	105.8
146	52.9	52.9	66.1	66.1	66.1	66.1	79.4
129.6	39.7	39.7	52.9	52.9	52.9	66.1	66.1
113.2	39.7	39.7	39.7	39.7	39.7	52.9	52.9
96.8	26.5	26.5	26.5	26.5	39.7	39.7	39.7
80.4	13.2	26.5	26.5	26.5	26.5	26.5	39.7

(ft)

(USt) / 8 ft - ZY 854 -

(ft)	98	115	131	148	164	180	197
272.6	238.1						
261.8	211.6	224.9	238.1				
250.7	198.4	211.6	224.9	238.1			
245.4	185.2	185.2	211.6	224.9	238.1		
239.8	172	185.2	198.4	211.6	224.9	238.1	
229	145.5	158.7	172	185.2	198.4	211.6	238.1
212.6	105.8	119.1	132.3	158.7	172	185.2	198.4
196.2	79.4	92.6	105.8	119.1	132.3	145.5	158.7
179.8	66.1	66.1	79.4	92.6	105.8	119.1	132.3
163.4	52.9	52.9	66.1	66.1	66.1	79.4	92.6
147	39.7	52.9	52.9	52.9	52.9	66.1	66.1
130.6	39.7	39.7	39.7	39.7	52.9	52.9	52.9
114.2	26.5	26.5	26.5	26.5	39.7	39.7	52.9
97.8	13.2	13.2	26.5	26.5	26.5	26.5	39.7
81.4	13.2	13.2	13.2	13.2	13.2	26.5	26.5

(ft)

Load curves

(ft)			66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	ft
	17.6 USt	8.8 USt																						
180	15.7 → 72.2	123.5 - 127.2	17.6	17.6	15.3	13.9	12.2	-	11.2	9.8	-	9.1	8.4	-	7.8	6.9	-	6.4	5.7	-	5.3	4.7	4.6	USt
	15.7 → 72.2	123.5 - 127.2	17.6	17.6	15.3	13.9	12.2	-	11.2	9.8	-	9.1	8.4	-	7.8	7	-	6.5	5.8	-	5.4	4.8	4.8	USt P+
164	15.1 → 73.8	125.9 - 129.8	17.6	17.6	15.7	14.3	12.5	-	11.5	10.1	-	9.3	8.7	-	8	7.2	-	6.6	5.9	5.8	USt			
	15.1 → 73.8	125.9 - 129.8	17.6	17.6	15.7	14.3	12.5	-	11.5	10.1	-	9.3	8.7	-	8	7.2	-	6.7	6	5.9	USt P+			
148	14.4 → 75.5	131.5 - 135.6	17.6	17.6	16.1	14.8	13	-	12	10.7	-	9.9	8.8	-	8.6	7.7	7.6	USt						
	14.4 → 75.6	131.5 - 135.6	17.6	17.6	16.1	14.8	13	-	12	10.7	-	9.9	8.8	-	8.6	7.7	7.6	USt P+						
131	13.5 → 75.5		17.6	17.6	16.3	15.2	13.6	-	12.7	11.5	-	10.8	9.8	9.6	USt									
	13.5 → 76.1		17.6	17.6	16.3	15.2	13.6	-	12.7	11.5	-	10.8	9.8	9.6	USt P+									
115	12.1 → 77.1		17.6	17.6	16.7	15.6	14.2	-	13.3	12.1	11.8	USt												
	12.1 → 77.5		17.6	17.6	16.7	15.6	14.2	-	13.3	12.1	11.8	USt P+												
98	10.2 → 78.7		17.6	17.6	17.1	16	14.6	14.1	USt															
	10.2 → 79.6		17.6	17.6	17.1	16	14.6	14.1	USt P+															

= - 0.44 USt max.

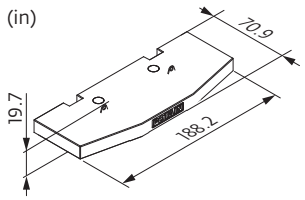
(ft)		66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	197	ft
	8.8 USt																							
197	15.4 → 121.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.8	-	7.3	6.5	-	6	5.3	-	4.9	4.4	-	3.5	USt
	15.4 → 121.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.8	-	7.3	6.5	-	6.1	5.4	-	5.1	4.5	-	3.7	USt P+
180	15.7 → 126.3	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.4	-	7.8	7.1	-	6.7	6	-	5.6	5.1	5.1	USt	
	15.7 → 126.3	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.4	-	7.8	7.1	-	6.7	6.1	-	5.7	5.2	5.2	USt P+	
164	15.1 → 129.6	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.7	-	8.1	7.4	-	7	6.4	6.3	USt				
	15.1 → 129.6	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.7	-	8.1	7.4	-	7	6.4	6.4	USt P+				
148	14.4 → 134.5	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	-	8.6	8.1	8	USt							
	14.4 → 135.2	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	-	8.6	8.1	8	USt P+							
131	13.5 → 133.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	8.8	USt										
	13.5 → 133.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	8.8	USt P+										
115	12.1 → 117.6	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	8.8	USt													
	12.1 → 117.6	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	8.8	USt P+													
98	10.2 → 101.7	8.8	8.8	8.8	8.8	8.8	8.8	USt																
	10.2 → 101.7	8.8	8.8	8.8	8.8	8.8	8.8	USt P+																

Jib weight & counter-jib ballast

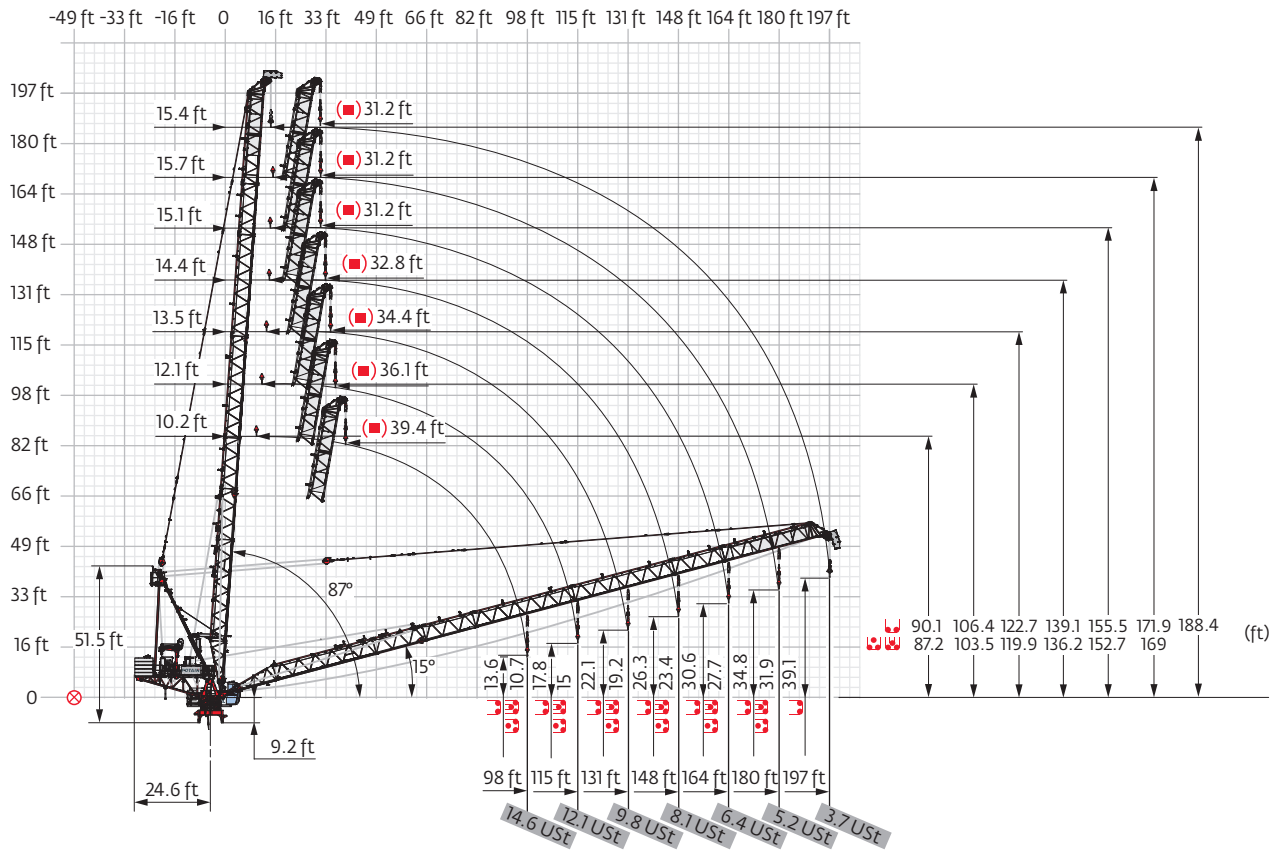
	(lb) (+/- 5%)			
		/		
			15,873 lb	(lb)
197 ft	24,030	14,771 / 9,259	5	79,366
180 ft	23,810	14,771 / 9,039	5	79,366
164 ft	22,487	14,771 / 7,716	5	79,366
148 ft	20,944	14,771 / 6,173	5	79,366
131 ft	18,739	9,700 / 9,039	5	79,366
115 ft	17,416	9,700 / 7,716	5	79,366
98 ft	15,873	9,700 / 6,173	5	79,366

CDJ - 15,873 lb

(in)



Luffing jib



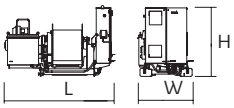
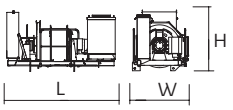
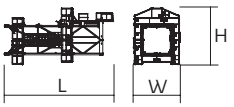
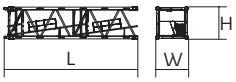
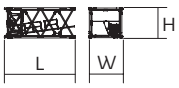
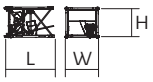
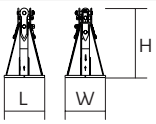
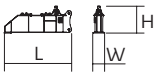
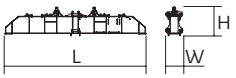
Dimensions and weight

Slewing crane part: 197 ft - - 90 HPL™

x 7

x 6

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib	100 VVF	28.3	16.5	19.3	24,482
Strut		23.6	9	37.8	14,440
Cab	Ultra View	17.1	6.4	8.2	4,079
Towerhead	8 ft	10.3	10.6	10.5	23,810
		17.1	15.7	13.2	27,889
Jib section	①	19.3	7.2	6.1	3,086
	②	33.4	6.2	6.9	3,086
	⑤	33.4	6	6.6	2,866
	⑥	33.4	6	6.6	2,756
	⑦	31	6	6.6	3,086
	③	17	6	6.9	2,116
	④	17	6	6.6	1,521
		5.9	5.1	7.4	959
Jib nose inspection platform		4.7	2.5	6	187
Pulley block		4.1	1	4.4	342
		2	0.9	3.8	805
		5.3	1.5	5.6	915
		5.3	1.5	7.8	1,720

Hoisting winch (+ rope)		90 HPL™ 132 HPL™	8.4 11.1	4.3 5.7	5.6 6.3	5,875 11,552
Luffing winch (+ rope)		100 VVF	10.6	5.5	5.9	7,948
Crane tower			**L (ft)**	**W (ft)**	**H (ft)**	**lb** (+/- 5%)
T 851		⍁8 ft	36.7	15.9	19	34,723
KRM 849B K 85/KR 84B2 KM 850.10B KM 850.14B		⍁8 ft	33.6 33.6 33.9 33.9	8.4 8.3 8.3 8.3	8.3 8.2 8.2 8.2	17,196 21,242 22,201 24,670
K 849A KMT 849A KR 849A KRMT 849A K 85/KR 84A2 KMT 850.10A KMT 850.14A		⍁8 ft	17.2 17.2 17.2 17.2 17.2 17.5 17.5	8.3 8.4 8.3 8.4 8.3 8.3 8.3	8.2 8.3 8.2 8.3 8.2 8.2 8.2	7,496 6,945 9,458 9,017 12,236 12,015 13,206
KRMT 849C KMT 850.10C		⍁8 ft	11.7 12	8.4 8.3	8.3 8.2	7,066 9,326
Fixing angles		P 63A / P 800B P 854A	2.5 3	2.5 3	4.2 4.9	1,025 2,072
1/2 Cross girder		ZY 800 ZY 854	18.6 18.7	3.2 3.2	6.3 7.4	10,406 14,176
Cross girder		ZY 800 ZY 854	39.2 39	4.6 4.7	6.3 7.4	22,212 30,865

Mechanisms

480 V - 60 Hz												hp	kW	
	90 HPL™ 40	fpm	133	174	249	366	548	69	90	130	190	274	90	66	1,768 ft
		USt	8.8	6.6	4.4	2.2	0.6	17.6	13.2	8.8	4.4	1.5			
	132 HPL™ 40	fpm	198	259	363	525	671	102	135	189	269	336	132	98	3,740 ft
		USt	8.8	6.6	4.4	2.2	0.8	17.6	13.2	8.8	4.4	2			
	100 VVF 50		2 min										100	75	
	RVF 172 Optima+	rpm	0 → 0.8										2 x 10	2 x 7.5	

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	90 HPL™ + 100 VVF: 171 → 95 kVA 132 HPL™ + 100 VVF: 205 → 112 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.

- Standard equipment
- Options
- Potain Plus function: Plus load curves
- Hook heights with Plus load curves
- Reactions in service
- Reactions out of service
- Jib weight
- Total ballast weight
- Jib articulation axis
- Weathervaning position
- 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

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

Ref. 02D_ASCEUSt_MR329H16_2023_46-2