



8,820 lb


$$[u/w]_0 = H - 1.6 \text{ ft}$$

PowerLift

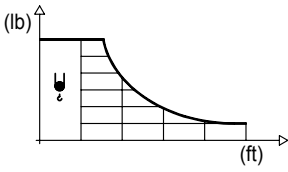




DIAGRAMA DE CARGAS

Load chart / Diagramme de charges / Lastdiagramm / Diagramma di carico / Диаграмма распределения нагрузки

R (ft)	ψ	RCmax (ft)	41.0	49.2	57.4	65.6	73.8	82.0	90.2	98.4	106.6	114.8	123.0	131.2	139.4	147.6	155.8	164.0	↔ (ft) ↕ (lb)
164.0	91.2								4,410	4,030	3,680	3,370	3,110	2,890	2,690	2,510	2,340	2,200	
155.8	93.5								4,410	4,170	3,790	3,480	3,220	2,980	2,780	2,580	2,430		
147.6	95.1								4,410	4,250	3,880	3,550	3,280	3,040	2,820	2,650			
139.4	108.6										4,410	4,140	3,810	3,550	3,310				
131.2	107.9										4,410	4,100	3,790	3,530					
123.0	109.6										4,410	4,170	3,860						
114.8	114.8											4,410							
106.6	106.6										4,410								
98.4	98.4									4,410									
90.2	90.2								4,410										
82.0	82.0							4,410											
73.8	73.8						4,410												
65.6	65.6				4,410														



R (ft)	ψ/ψ	RCmax (ft)	41.0	49.2	57.4	65.6	73.8	82.0	90.2	98.4	106.6	114.8	123.0	131.2	139.4	147.6	155.8	164.0	↔ (ft) ↕ (lb)
164.0	48.9		8,820	8,750	7,340	6,280	5,470	4,830	4,300	3,880	3,510	3,200	2,930	2,690	2,470	2,290	2,140	1,980	
155.8	50.2			8,820	7,540	6,460	5,620	4,980	4,430	3,990	3,620	3,280	3,020	2,780	2,560	2,380	2,200		
147.6	50.9			8,820	7,670	6,570	5,730	5,070	4,520	4,060	3,680	3,350	3,090	2,820	2,620	2,430			
139.4	57.4				8,820	7,610	6,640	5,860	5,250	4,740	4,300	3,920	3,620	3,330	3,090				
131.2	57.1			8,820	8,770	7,540	6,590	5,820	5,200	4,700	4,280	3,900	3,590	3,310					
123.0	57.7				8,820	7,650	6,680	5,910	5,290	4,760	4,320	3,970	3,640						
114.8	60.7				8,820	8,050	7,030	6,240	5,580	5,030	4,590								
106.6	61.0				8,820	8,130	7,120	6,310	5,640	5,090	4,630								
98.4	62.0				8,820	8,270	7,230	6,420	5,730	5,180									
90.2	62.0				8,820	8,270	7,230	6,390	5,730										
82.0	62.0				8,820	8,250	7,210	6,390											
73.8	62.3				8,820	8,310	7,280												
65.6	62.0				8,820	8,270													

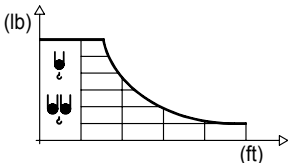
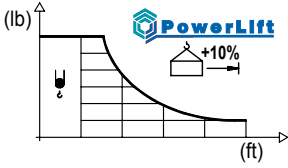


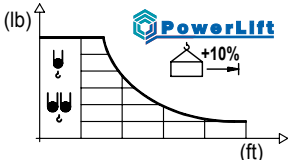
DIAGRAMA DE CARGAS POWERLIFT

Load chart PowerLift / Diagramme de charges PowerLift / Lastdiagramm PowerLift / Diagramma di carico PowerLift / Диаграмма распределения нагрузки PowerLift

R (ft)	ψ	RCmax (ft)	41.0	49.2	57.4	65.6	73.8	82.0	90.2	98.4	106.6	114.8	123.0	131.2	139.4	147.6	155.8	164.0	↔ (ft) ↕ (lb)
164.0	98.4									4,410	4,030	3,700	3,420	3,170	2,950	2,760	2,580	2,430	
155.8	101.4									4,410	4,140	3,810	3,530	3,260	3,040	2,840	2,670		
147.6	103.0									4,410	4,230	3,900	3,590	3,350	3,110	2,910			
139.4	117.8											4,410	4,190	3,900	3,640				
131.2	117.5											4,410	4,190	3,880					
123.0	118.8											4,410	4,230						
114.8	114.8											4,410							
106.6	106.6										4,410								
98.4	98.4									4,410									
90.2	90.2								4,410										
82.0	82.0							4,410											
73.8	73.8						4,410												
65.6	65.6				4,410														



R (ft)	ψ/ψ	RCmax (ft)	41.0	49.2	57.4	65.6	73.8	82.0	90.2	98.4	106.6	114.8	123.0	131.2	139.4	147.6	155.8	164.0	↔ (ft) ↕ (lb)
164.0	52.2		8,820	7,910	6,790	5,930	5,220	4,670	4,210	3,810	3,480	3,200	2,930	2,710	2,510	2,340	2,180		
155.8	53.5		8,820	8,160	6,990	6,110	5,400	4,830	4,340	3,950	3,590	3,310	3,040	2,800	2,600	2,430			
147.6	54.5		8,820	8,310	7,140	6,220	5,510	4,920	4,430	4,010	3,680	3,370	3,110	2,870	2,670				
139.4	62.0			8,820	8,270	7,230	6,390	5,730	5,180	4,720	4,300	3,970	3,660	3,400					
131.2	61.7			8,820	8,220	7,190	6,370	5,690	5,140	4,670	4,280	3,950	3,640						
123.0	62.3			8,820	8,310	7,280	6,440	5,780	5,200	4,740	4,340	3,990							
114.8	65.6			8,820	8,800	7,690	6,830	6,110	5,530	5,030	4,610								
106.6	66.3			8,820	8,820	7,780	6,900	6,190	5,600	5,090									
98.4	67.3			8,820	8,820	7,910	7,010	6,280	5,690										
90.2	67.3			8,820	8,820	7,940	7,030	6,310											
82.0	67.3			8,820	8,820	7,940	7,030												
73.8	67.9			8,820	8,820	8,000													
65.6	65.6			8,820															



MECANISMOS

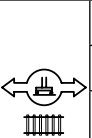
Mechanisms / Mécanismes / Antriebe / Meccanismi / Механизмы

ES3-13-10	ES3-18-10	EFU2-11-10	EFU2-18-10																																																
740 ft	820 ft	740 ft	820 ft																																																
21 hp	29 hp	15 hp	24 hp																																																
<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>30</td><td>118</td><td>236</td></tr><tr><td>lb</td><td>4,410</td><td>4,410</td><td>2,425</td></tr></table>		I	II	III	ft/min	30	118	236	lb	4,410	4,410	2,425	<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>39</td><td>150</td><td>299</td></tr><tr><td>lb</td><td>4,410</td><td>4,410</td><td>2,425</td></tr></table>		I	II	III	ft/min	39	150	299	lb	4,410	4,410	2,425	<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>98</td><td>131</td><td>197</td></tr><tr><td>lb</td><td>4,410</td><td>4,410</td><td>1,760</td></tr></table>		I	II	III	ft/min	98	131	197	lb	4,410	4,410	1,760	<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>177</td><td>197</td><td>230</td></tr><tr><td>lb</td><td>4,410</td><td>4,410</td><td>1,760</td></tr></table>		I	II	III	ft/min	177	197	230	lb	4,410	4,410	1,760
	I	II	III																																																
ft/min	30	118	236																																																
lb	4,410	4,410	2,425																																																
	I	II	III																																																
ft/min	39	150	299																																																
lb	4,410	4,410	2,425																																																
	I	II	III																																																
ft/min	98	131	197																																																
lb	4,410	4,410	1,760																																																
	I	II	III																																																
ft/min	177	197	230																																																
lb	4,410	4,410	1,760																																																
<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>15</td><td>59</td><td>118</td></tr><tr><td>lb</td><td>8,820</td><td>8,820</td><td>4,850</td></tr></table>		I	II	III	ft/min	15	59	118	lb	8,820	8,820	4,850	<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>20</td><td>75</td><td>150</td></tr><tr><td>lb</td><td>8,820</td><td>8,820</td><td>4,850</td></tr></table>		I	II	III	ft/min	20	75	150	lb	8,820	8,820	4,850	<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>49</td><td>68</td><td>88</td></tr><tr><td>lb</td><td>8,820</td><td>8,820</td><td>3,530</td></tr></table>		I	II	III	ft/min	49	68	88	lb	8,820	8,820	3,530	<table><tr><th></th><th>I</th><th>II</th><th>III</th></tr><tr><td>ft/min</td><td>88</td><td>115</td><td>131</td></tr><tr><td>lb</td><td>8,820</td><td>8,820</td><td>3,530</td></tr></table>		I	II	III	ft/min	88	115	131	lb	8,820	8,820	3,530
	I	II	III																																																
ft/min	15	59	118																																																
lb	8,820	8,820	4,850																																																
	I	II	III																																																
ft/min	20	75	150																																																
lb	8,820	8,820	4,850																																																
	I	II	III																																																
ft/min	49	68	88																																																
lb	8,820	8,820	3,530																																																
	I	II	III																																																
ft/min	88	115	131																																																
lb	8,820	8,820	3,530																																																



MECANISMOS

Mechanisms / Mécanismes / Antriebe / Meccanismi / Механизмы

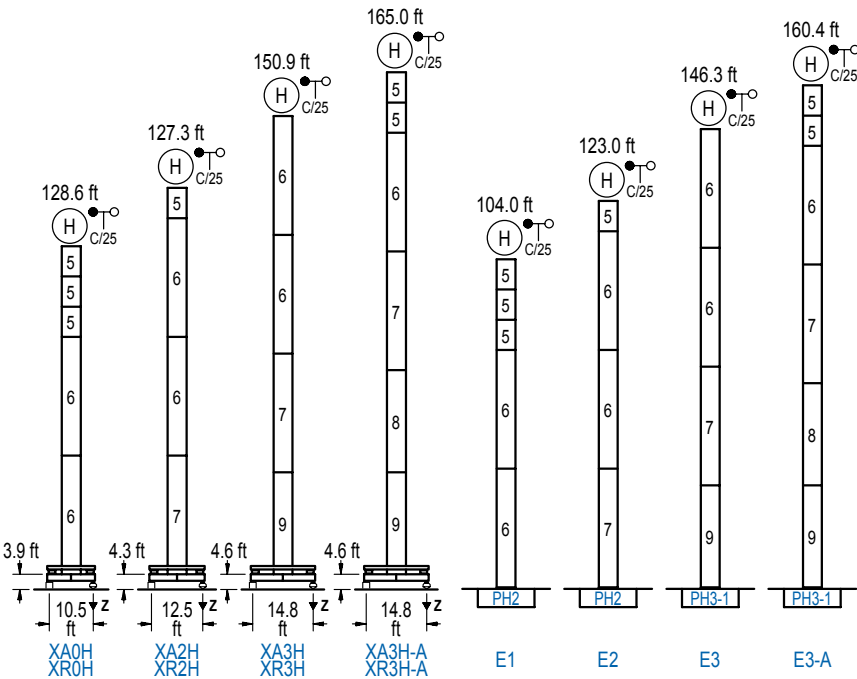
		CS2-1.9				CFU-2.2				GR-9.0				TS2-3.0		TS2-4.5		TS2-5.5	
3 hp				3 hp		*		66 ft·lb				2x 22 ft·lb		2x 33 ft·lb		2x 40 ft·lb			
63 ft/min 189 ft/min				0 ⇄ 262 ft/min				0 ⇄ 0,8 rpm				0 ⇄ 78 ft/min							
												XR0H		XR2H		XR3H XR3H-A			

POTENCIA / POWER / PUISSANCE / LEISTUNG / POTENZA / МОЩНОСТЬ				Tensión de alimentación / Operating voltage / Tension de service / Betriebsspannung / Tensione di alimentazione / Напряжение источника питания		Generador / Generator / Générateur / Generator / Generatore / Генератор		Opcional / Optional / En option / Kaufoption / Opzionale / Опционально *		
Elevación / Hoist / Levage / Hub / Sollevamento / Тип механизма (подъем)		Carro / Trolley / Chariot / Laufkatze / Carrello / Грузовая тележка		Giro / Slewing / Rotation / Drehbewegung / Rotazione / Поворот		Traslación / Travel / Translation / Verfahrbewegung / Traslazione / Ход				
ES3-13-10		CS2-1.9		GR-9.0		(2x) TS2-3.0			90 kVA	
ES3-18-10						(2x) TS2-4.5			107 kVA	
EFU2-11-10		CFU-2.2				(2x) TS2-5.5			48 kVA	
EFU2-18-10									60 kVA	

ALTURAS BAJO GANCHO

Heights under hook / Hauteurs sous crochet / Hakenhöhen / Altezza sotto gancio / Высота под крюком

3.9 ft



n°	Ref.	h (ft)	h (ft)
5	MH121	3.9	9.8
6	MH124-1	3.9	38.7
7	MH124A	3.9	38.7
8	MT123A	3.9	33.1
9	MT123	3.9	33.1

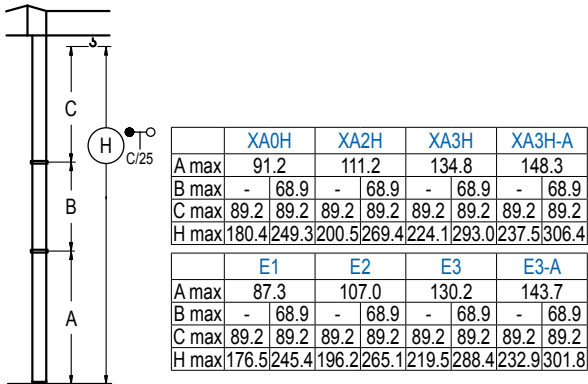
MH124-1 = 4x MH121 - 0.7 ft

	H = H + 0.7 ft
	H = H
	H = H
	H = H - 0.7 ft

Z max.	En servicio / In operation / En service / In Betrieb / In servizio / При работе	XR0H 95 kip XR2H 93 kip XR3H 95 kip XR3H-A. 106 kip
	Fuera de servicio / Out of service / Hors service / Ausser Betrieb / Fuori servizio / В стационарном состоянии	XR0H 93 kip XR2H 108 kip XR3H 141 kip XR3H-A. 168 kip

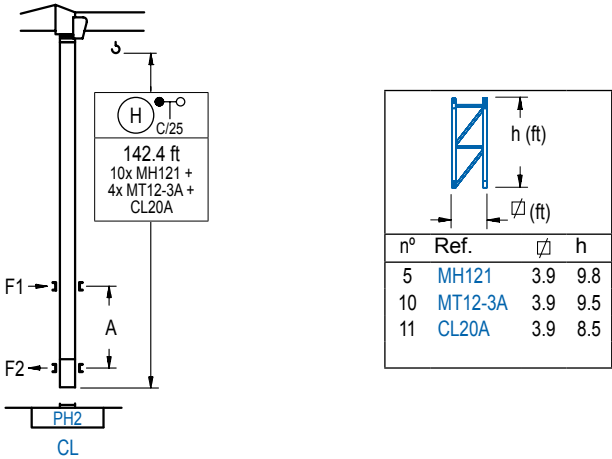
GRÚA ARRIOSTRADA

Braced crane / Grue à entretoisement / Abgespannter Kran / Gru ancorata / Нарастаемый кран



GRÚA TREPADORA

Internal climbing crane / Grue avec cage de télescopage intérieure / Kran mit klettern im Gebäude / Gru in rampante in cavedio / Монтажная келья



Otras zonas de viento, alturas superiores, arriostramientos o trepado interno consultar / Other wind zones, additional hook heights, tie frames or internal climbing on request / Autres zones de vent, des hauteurs supplémentaires, entretoisements ou grues avec cage de télescopage intérieure, sur demande / Andere Windzonen, weitere Hakenhöhen, Abspannungen zum Gebäude oder Klettern im Gebäude auf Anfrage / Per zone con velocità del vento particolari, altezze superiori, ancoraggi o rampante in cavedio, consultare il fabbricante / При других ветренных зонах, при большой высоте, привязках к зданию или наращивании крана внутри здания проконсультируйтесь с нами

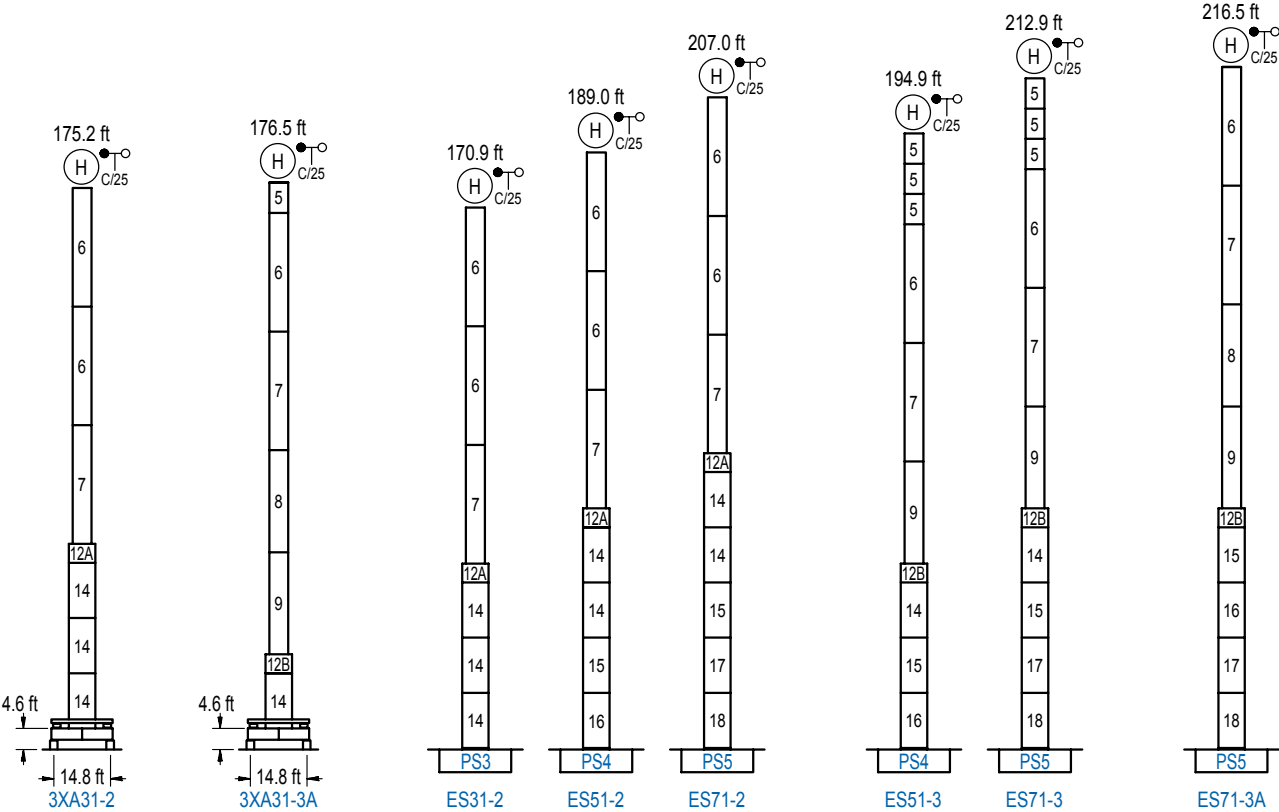


ALTURAS ESPECIALES

Special heights / Spéciaux hauteurs / Extra Höhen / Conformazioni raccordate per altezze speciali / Для специальной высоты

5.2 ft

LC 500



	n°	Ref.	5.2	h	n°	Ref.	5.2	h	n°	Ref.	5.2	h
	5	MH121	3.9	9.8	12A	TMS13/PMH12	5.2	3.3	14	S13	5.2	18.0
	6	MH124-1	3.9	38.7	12B	TMS13/PMH13	5.2	3.3	15	TS14	5.2	18.0
	7	MH124A	3.9	38.7					16	S14	5.2	18.0
	8	MT123A	3.9	33.1					17	TS15	5.2	18.0
	9	MT123	3.9	33.1					18	S15	5.2	18.0
	MH124-1 = 4x MH121 - 0.7 ft											

Otras zonas de viento o alturas superiores consultar / Other wind zones or additional hook heights on request / Autres zones de vent ou des hauteurs supplémentaires sur demande / Andere Windzonen oder weitere Hakenhöhen auf Anfrage / Per zone con velocità del vento particolari o altezze superiori consultare il fabbricante / При других ветренных зонах о при большой высоте проконсультируйтесь с нами



Construcciones Metálicas COMANSA S. A.

Tel.: (34) 948 335 020 / Fax: (34) 948 330 810 / e-mail: info@comansa.com
Polígono Urbizkain E-31620 HUARTE-PAMPLONA.- SPAIN