

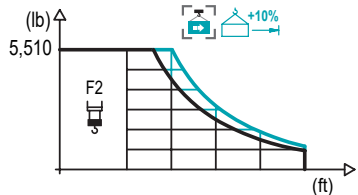
DIAGRAMA DE CARGAS / LOAD CHART

Diagramme de charges / Lastdiagramm / Диаграмма распределения нагрузки

STF

ES3-13-12; ES3-18-12; EFU2-18-12

R	5,510 lb	F2																↔ (ft) ↕ (lb)
		32.8	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
164.0	74.8 54.3						5,510 5,510	4,980 5,420	4,450 4,870	4,030 4,410	3,680 4,030	3,370 3,700	3,110 3,420	2,890 3,170	2,690 2,950	2,510 2,760	2,360 2,580	2,200 2,430
155.8	76.8 55.8						5,510 5,510	5,110 5,030	4,610 5,030	4,170 4,540	3,790 4,140	3,480 3,810	3,220 3,530	2,980 3,260	2,780 3,040	2,580 2,840	2,420 2,670	
147.6	78.1 56.8						5,510 5,510	5,220 5,140	4,690 5,140	4,250 4,650	3,880 4,230	3,550 3,900	3,280 3,590	3,040 3,350	2,820 3,110	2,640 2,910		
139.4	88.9 64.9							5,510 5,510	5,420 5,400	4,910 5,400	4,500 4,940	4,140 4,540	3,810 4,190	3,550 3,900	3,310 3,640			
131.2	88.6 64.6							5,510 5,510	5,400 5,380	480 5,380	4,470 4,920	4,120 4,520	3,790 4,190	3,530 3,880				
123.0	89.9 65.4							5,510 5,510	5,490 5,450	4,960 4,980	4,540 4,980	4,170 4,590	3,860 4,230					
114.8	94.2 68.8								5,510 5,510	5,250 5,510	4,780 5,270	4,410 4,850						
106.6	95.1 69.6								5,510 5,510	5,310 5,340	4,850							
98.4	96.8 66.1								5,510 5,510	5,400								
90.2	90.2 60.6								5,510 5,510									
82.0	82.0 55.1							5,510 5,510										
73.8	73.8 49.6						5,510 5,510											
65.6	65.6 44.1					5,510 5,510												



The graph plots F2 (lb) on the vertical axis against distance (ft) on the horizontal axis. A black curve represents the base F2 values, while a red curve above it represents a 10% increase. A horizontal line at 5,510 lb is shown. A small icon of a truck is positioned between the two curves, and a label '+10%' with a double-headed arrow indicates the percentage increase.

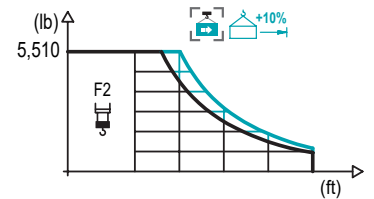


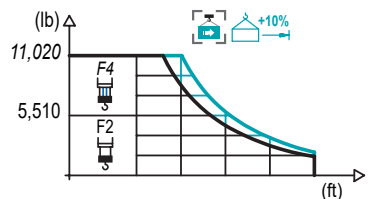
DIAGRAMA DE CARGAS / LOAD CHART

Diagramme de charges / Lastdiagramm / Диаграмма распределения нагрузки

STA

ES3-13-12; ES3-18-12; EFU2-18-12

R	11,020 lb F4	5,510 lb F2	F4					F2												↔ (ft) ↓ (lb)
			32.8	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	
164.0	40.4 43.0	73.5 78.4	11,020	10,780	8,750	7,340	6,280	5,470	4,830	4,300	3,880	3,500	3,200	2,930	2,690	2,490	2,290	2,140	1,980	
			11,020	10,440	9,440	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	41.0 44.0	75.1 80.7	11,020	8,990	7,540	6,460	5,620	4,960	4,430	3,990	3,610	3,280	3,020	2,780	2,560	2,380	2,200			
			11,020	9,720	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	41.7 44.6	76.4 82.0	11,020	9,150	7,670	6,570	5,730	5,070	4,520	4,060	3,680	3,350	3,090	2,840	2,620	2,420				
			11,020	9,900	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	47.2 50.9	86.6 93.2	11,020	10,540	8,840	7,600	6,630	5,860	5,250	4,740	4,300	3,920	3,610	3,330	3,090					
			11,020	9,610	8,270	7,230	6,390	5,730	5,180	4,720	4,300	3,970	3,660	3,400						
131.2	46.9 50.5	86.0 92.8	11,020	10,540	8,770	7,540	6,590	5,840	5,220	4,690	4,280	3,900	3,590	3,310						
			11,020	9,570	8,220	7,190	6,370	5,690	5,140	4,670	4,280	3,950	3,640							
123.0	47.6 51.2	86.9 93.8	11,020	10,580	8,900	7,650	6,680	5,910	5,290	4,760	4,340	3,970	3,640							
			11,020	9,680	8,310	7,280	6,440	5,780	5,200	4,740	4,340	3,990								
114.8	49.5 53.8	91.2 98.8	11,020	9,370	8,040	7,030	6,240	5,580	5,030	4,580	4,190									
			11,020	10,230	8,800	7,690	6,830	2770	2510	2280	2090									
106.6	50.2 54.1	91.9 99.7	11,020	9,460	8,130	7,120	6,300	5,640	5,090	4,630										
			11,020	10,340	8,910	7,780	6,900	6,190	5,600	5,090										
98.4	50.9 55.1	93.5	11,020	9,610	8,270	7,230	6,410	5,730	5,180											
			11,020	10,490	9,040	7,910	7,010	6,280	5,690											
90.2	50.9 55.1		11,020	9,610	8,270	7,230	6,390	5,730												
			11,020	10,520	9,060	7,940	7,030	6,310												
82.0	50.9 55.1		11,020	9,590	8,240	7,210	6,390													
			11,020	10,520	9,060	7,940	7,030													
73.8	51.2 55.4		11,020	9,680	8,310	7,270														
			11,020	10,630	9,150	8,000														
65.6	50.9 55.1		11,020	9,610	8,270															
			11,020	9,080																

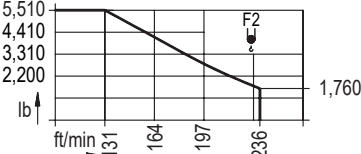


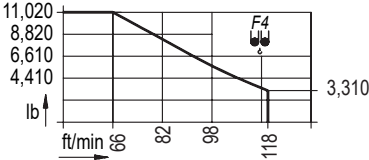
Datos válidos hasta 328 ft de ABG. Para alturas mayores consultar / Valid data up to 328 ft HUH. Additional heights on request / Données valables jusqu'à 328 ft HSC. Pour des autres hauteurs, merci de nous consulter / Gültige Daten bis zu 328 ft HH. Bei höheren Hakenhöhen nachfragen / Допустимые данные до 328 фут ВПК. Для более высоких высот консультируйтесь

		950 ft	ES3-18-12		
			29 hp		
	ft/min	I	II	III	
	lb	32	126	252	
	ft/min	I	II	III	
	lb	11,020	11,020	5,730	

		740 ft	ES3-13-12		
			21 hp		
	ft/min	I	II	III	
	lb	24	94	189	
	ft/min	I	II	III	
	lb	11,020	11,020	5,730	

	950 ft	EFU2-18-12		*
		24 hp		

	
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		CS2-1.9
		3 hp
		63 ft/min 189 ft/min

		CFU-2.2
		3 hp
		0 ⇌ 262 ft/min

		GR-9.0
		66 ft·lb
		0 ⇌ 0.8 rpm

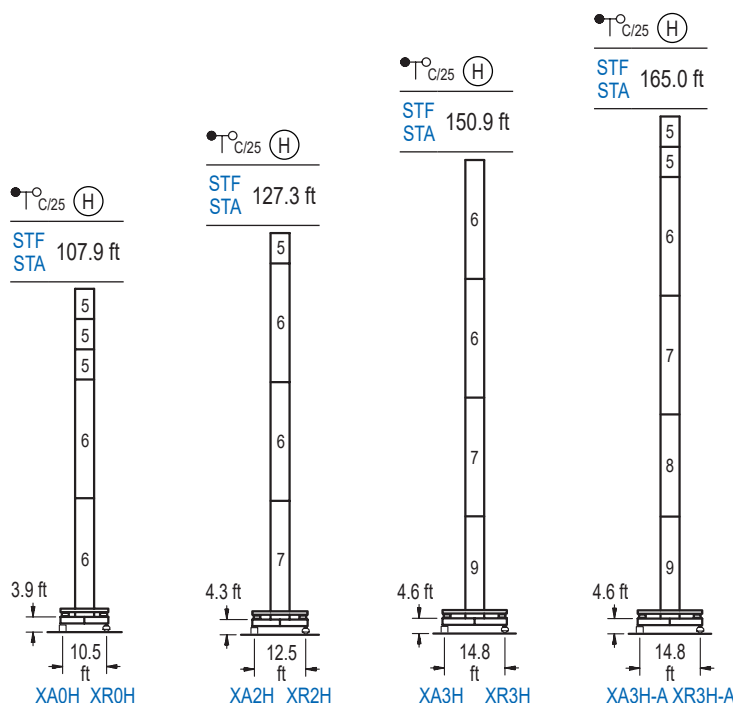
	TS2-3.0	TS2-4.5	TS2-5.5
	2x 22 ft·lb	2x 33 ft·lb	2x 40 ft·lb
	78 ft/min		
	XR0H	XR2H	XR3H XR3H-A

Elevación / Hoist / Levage / Hub / Тип механизма (подъем)	Carro / Trolley / Chariot / Laufkatze / Грузовая тележка	Giro / Slewing / Rotation / Drehbewegung / Поворот	Traslación / Travel / Translation / Verfahrbewegung / Ход	Tensión de alimentación / Operating voltage / Tension de service / Betriebsspannung / Напряжение источника питания	Potencia requerida / Required power / Puissance requise / Benötigte Leistung / требуемая мощность
ES3-18-12	CS2-1.9	GR-9.0	(2x) TS2-3.0	480 V	24 kVA
ES3-13-12			(2x) TS2-4.5	3 ph	19 kVA
EFU2-18-12	CFU-2.2		(2x) TS2-5.5	60 Hz	24 kVA

Optional / Optional / En option / Kaufoption / Opzionale / Опционально
*

ALTURAS BAJO GANCHO / HEIGHTS UNDER HOOK
Hauteurs sous crochet / Hakenhöhen / Высота под крюком

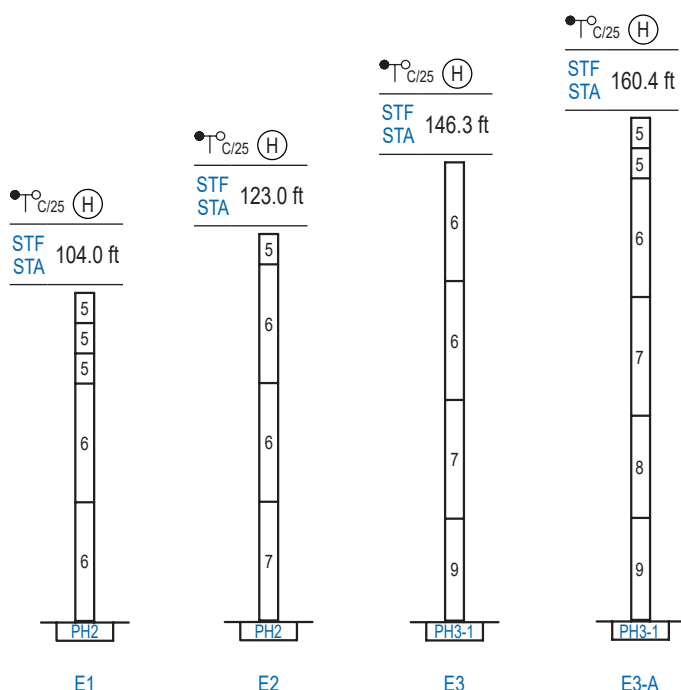
± 3.9 ft



			G (kip)	Z max (kip)
		XA0H	148	108
		XR0H	145	106
		XA2H	143	107
		XR2H	190	124
		XA3H-A	148	104
		XR0H	145	122
		XA2H	143	146
		XR2H	190	173

nº	Ref.	h	h	nº	Ref.	h	h
5	MH121	3.9	9.8	9	MT123	3.9	33.1
6	MH124-1	3.9	38.7				
7	MH124A	3.9	38.7				
MH124-1 = 4x MH121 - 0.7 ft							

Otras zonas de viento, alturas superiores o arriostamientos consultar / Other wind zones, additional hook heights or tie frames on request / Autres zones de vent, des hauteurs supplémentaires où entretoisements, sur demande / Andere Windzonen, weitere Hakenhöhen oder Abspannungen zum Gebäude auf Anfrage / При других ветренных зонах, при большой высоте или привязках к зданию проконсультируйтесь с нами



			R1 (kip)	R2 (kip)
		E1	-140	109
		E2	-157	100
		E3	-179	144
		E3-A	-192	155
		E1	-199	168
		E2	-239	206
		E3	-297	261
		E3-A	-353	316

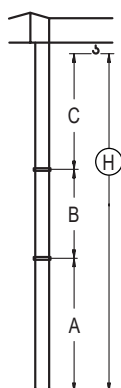
En servicio / In operation / En service / In Betrieb / При работе
 Fuera de servicio / Out of service / Hors service / Ausser Betrieb / В стационарном состоянии

	n°	Ref.	∅	h	n°	Ref.	∅	h
	5	MH121	3.9	9.8	9	MT123	3.9	33.1
	6	MH124-1	3.9	38.7				
	7	MH124A	3.9	38.7				
	MH124-1 = 4x MH121 - 0.7 ft							

GRÚA ARRIOSTRADA / BRACED CRANE

Grue à entretoisement / Abgespannter Kran / Наращиваемый кран

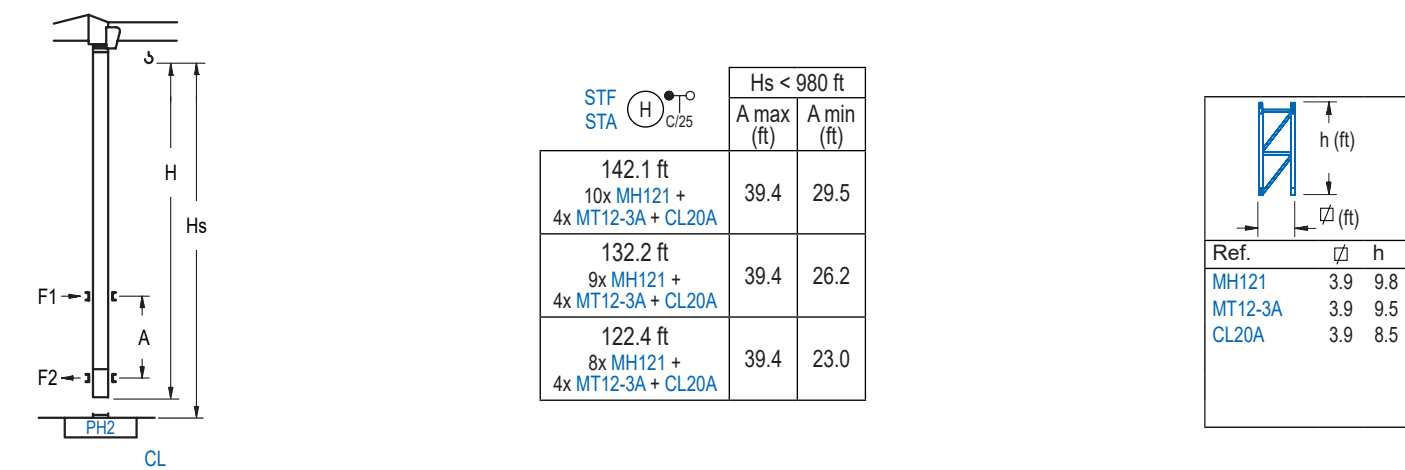
∅ 3.9 ft



STF STA	∅	h	XA0H	XA2H	XA3H	XA3H-A
	A max	91.2	111.2	134.8	148.3	
	A min	52.5	52.8	76.4	109.6	
	B max	-	68.9	68.9	68.9	68.9
	B min	-	39.4	39.4	39.4	39.4
	C max	89.2	89.2	89.2	89.2	89.2
	H max	180.4	249.3	200.5	269.4	224.1

STF STA	∅	h	E1	E2	E3	E3-A
	A max	87.3	107.0	130.2	143.7	
	A min	48.6	48.6	71.9	90.6	
	B max	-	68.9	68.9	68.9	68.9
	B min	-	39.4	39.4	39.4	39.4
	C max	89.2	89.2	89.2	89.2	89.2
	H max	176.5	245.4	196.2	265.1	219.5

Otras zonas de viento, alturas superiores o arriostramientos consultar / Other wind zones, additional hook heights or tie frames on request / Autres zones de vent, des hauteurs supplémentaires ou entretoisements, sur demande / Andere Windzonen, weitere Hakenhöhen oder Abspannungen zum Gebäude auf Anfrage / При других ветренных зонах, при большой высоте или привязках к зданию проконсультируйтесь с нами



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 où grues avec cage de télescopage intérieure, sur demande / Andere Windzonen, weitere Hakenhöhen, Abspannungen zum Gebäude oder Klettern im Gebäude auf Anfrage / При других ветренных зонах, при большой высоте, привязках к зданию или наращивании крана внутри здания проконсультируйтесь с нами

