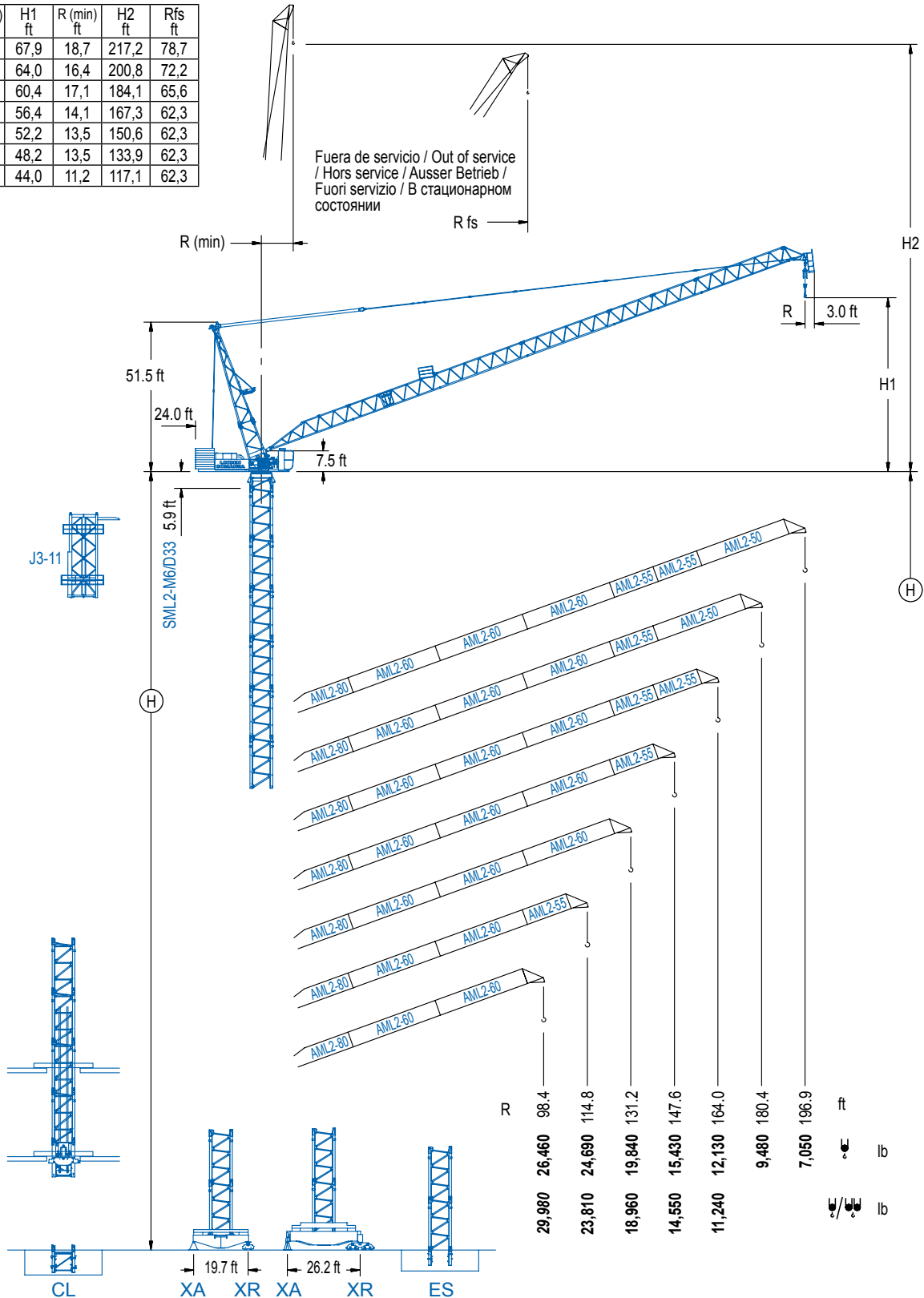


LCL

LCL 310

52,910 lb

R (max) ft	H1 ft	R (min) ft	H2 ft	Rfs ft
196,9	67,9	18,7	217,2	78,7
180,4	64,0	16,4	200,8	72,2
164,0	60,4	17,1	184,1	65,6
147,6	56,4	14,1	167,3	62,3
131,2	52,2	13,5	150,6	62,3
114,8	48,2	13,5	133,9	62,3
98,4	44,0	11,2	117,1	62,3

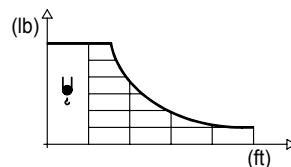


R	29,980	23,810	18,960	14,550	11,240	9,480	7,050	ft
Weight	26,460	24,680	19,840	15,430	12,130	9,480	7,050	lb
Weight								lb

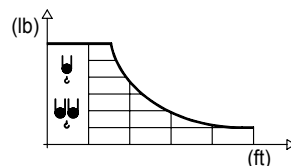
DIAGRAMA DE CARGAS

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

R (ft)	μ	RCmax (ft)	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	↔ (ft) ↓ (lb)
196.9		91.9				26,460	23,370	17,920	14,330	11,770	9,830	8,330	7,050	
180.4		95.1				26,460	25,040	19,620	15,920	13,230	11,180	9,480		
164.0		98.4					26,460	20,990	17,200	14,370	12,130			
147.6		101.7					26,460	22,290	18,410	15,430				
131.2		105.0					26,460	23,610	19,840					
114.8		108.3					26,460	24,690						
98.4		98.4					26,460							

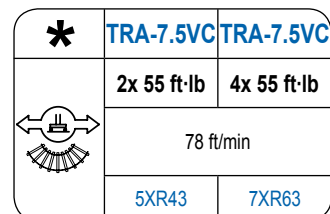
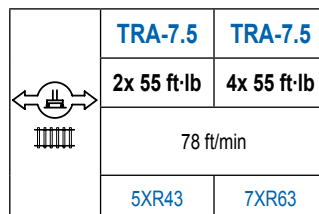
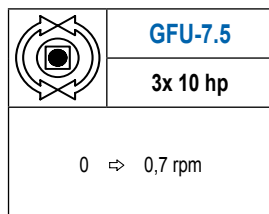
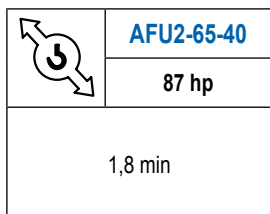
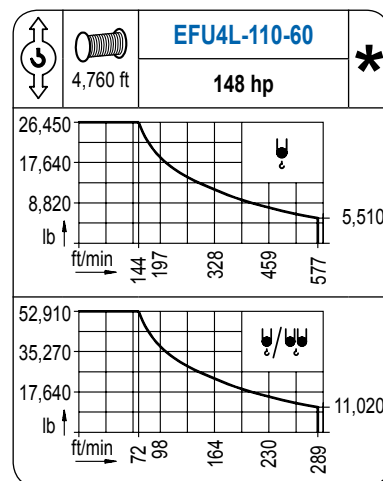
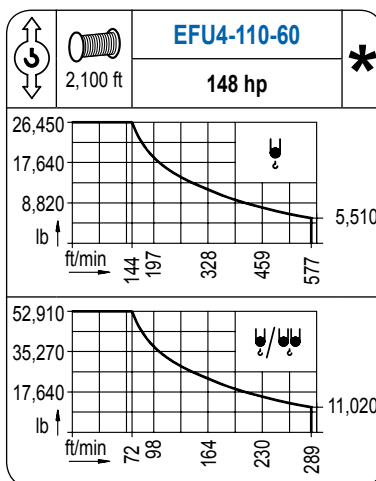
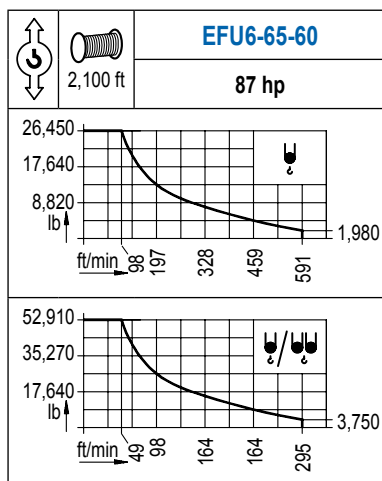


R (ft)	μ/μμ	RCmax (ft)	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	↔ (ft) ↓ (lb)
164.0		47.9	52,910	51,080	35,470	26,900	21,490	17,750	15,010	12,920	11,240			
147.6		50.2		52,910	38,400	29,500	23,770	19,780	16,840	14,550				
131.2		52.8		52,910	41,510	32,340	26,340	22,110	18,960					
114.8		55.8		52,910	44,250	34,610	28,290	23,810						
98.4		59.1		52,910	47,070	36,750	29,980							



MECANISMOS

Mechanisms / Mécanismes / Antriebe / Meccanismi / Механизмы



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	
Elevación / Hoist / Levage / Hub / Sollevamento / Тип механизма (подъем)	Abatimiento / Luffing / Releage / Einziehen / Brandeggio / Складывание	Giro / Slewing / Rotation / Drehbewegung / Rotazione / Поворот	Traslación / Travel / Translation / Verfahrbewegung / Traslazione / Ход				
EFU6-65-60	AFU2-65-40	(3x) GFU-7.5	(2x) TRA-7.5	480 V		280 kVA	
EFU4-110-60			(4x) TRA-7.5	3ph		345 kVA	
EFU4L-110-60				60 Hz		345 kVA	

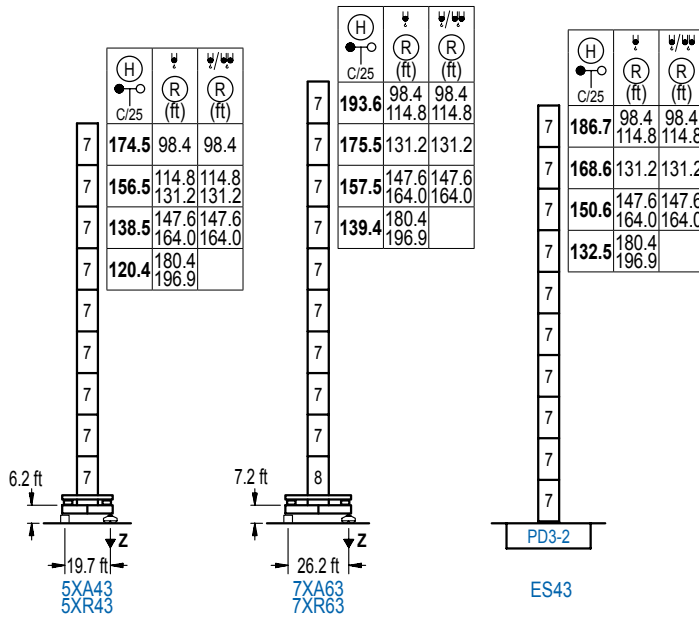
Opcional / Optional / En option / Kaufoption / Opzionale / Опционально

*

ALTURAS DE TORRE

Tower height / Hauteurs de tour / Turmhöhen / Altezza della torre / Высота башни

Ø 8.2 ft



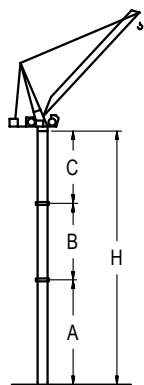
n°	Ref.	h
7	D33	8.2 18.0
8	TD34	8.2 18.0

Z max.	En servicio / In operation / En service / In Betrieb / In servizio / При работе	5XR43.. 300 kip 7XR63.. 262 kip
	Fuera de servicio / Out of service / Hors service / Ausser Betrieb / Fuori servizio / В стационарном состоянии	5XR43.. 370 kip 7XR63.. 337 kip

GRÚA ARRIOSTRADA

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

Ø 8.2 ft



5XA43				
R	196.9 / 180.4	164.0 / 147.6	131.2 / 114.8	98.4
(ft)	196.9 / 180.4	164.0 / 147.6	131.2 / 114.8	98.4
A max	78.4	96.5	114.5	132.5
A min	78.4	78.4	78.4	78.4
B max	54.1	72.2	90.2	108.3
B min	54.1	54.1	54.1	54.1
C max	96.1	114.2	132.2	150.3
C min	96.1	114.2	132.2	150.3
H max	174.5	228.7	246.7	318.9

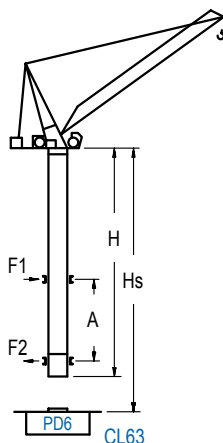
7XA63				
R	196.9 / 180.4	164.0 / 147.6	131.2	114.8 / 98.4
(ft)	196.9 / 180.4	164.0 / 147.6	131.2	114.8 / 98.4
A max	97.4	115.5	133.5	151.6
A min	79.4	79.4	79.4	79.4
B max	54.1	72.2	90.2	108.3
B min	54.1	54.1	54.1	54.1
C max	96.1	114.2	132.2	150.3
C min	96.1	114.2	132.2	150.3
H max	193.6	247.7	265.7	337.9

ES43				
R	196.9 / 180.4	164.0 / 147.6	131.2	114.8 / 98.4
(ft)	196.9 / 180.4	164.0 / 147.6	131.2	114.8 / 98.4
A max	90.6	108.6	126.6	144.7
A min	72.5	72.5	72.5	72.5
B max	54.1	72.2	90.2	108.3
B min	54.1	54.1	54.1	54.1
C max	96.1	114.2	132.2	150.3
C min	96.1	114.2	132.2	150.3
H max	186.7	240.8	258.9	331.0

GRÚA TREPADORA

Internal climbing crane / Grue avec cage de télescopage intérieure / Kran mit klettern im Gebäude / Gru in rampante in cavedio / Кран с самоподъемом

Ø 8.2 ft



(H)	(R)	(ft)	(ft)	Hs < 1,310 ft
216.9 ft	98.4	98.4	80.7	49.2
(6x D33 + TD34 + 4x D34A + CLD34A)	114.8	114.8		
198.8 ft	131.2	131.2	80.7	45.9
(5x D33 + TD34 + 4x D34A + CLD34A)				
180.8 ft	147.6	147.6	71.9	45.9
(4x D33 + TD34 + 4x D34A + CLD34A)	164.0			
162.7 ft	180.4	164.0	62.7	45.9
(3x D33 + TD34 + 4x D34A + CLD34A)				
144.7 ft	196.9		53.8	42.7
(2x D33 + TD34 + 4x D34A + CLD34A)				

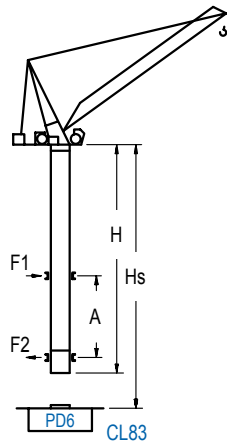
n°	Ref.	h
7	D33	8.2 18.0
8	TD34	8.2 18.0
20	D34A	8.2 18.0
21	CLD34A	8.2 12.5

Otras zonas de viento, alturas superiores, arriostamientos 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

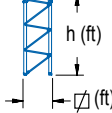
GRÚA TREPADORA

Internal climbing crane / Grue avec cage de télescopage intérieure / Kran mit klettern im Gebäude / Gru in rampante in cavedio / Кран с самоподъемом

Ø 8.2 ft



	Hs < 1,310 ft		A max (ft)	A min (ft)
	(R)(ft)	(R)(ft)		
216.9 ft (5x D33 + TD34 + TD36B + 4x D36A + CLD36)	98.4 114.8	98.4 114.8	80.7	32.8
198.8 ft (4x D33 + TD34 + TD36B + 4x D36A + CLD36)	131.2	131.2	71.9	32.8
180.8 ft (3x D33 + TD34 + TD36B + 4x D36A + CLD36)	147.6 164.0	147.6 164.0	62.7	32.8
162.7 ft (2x D33 + TD34 + TD36B + 4x D36A + CLD36)	180.4 196.9		53.8	32.8

				
nº	Ref.	h	h	
7	D33	8.2	18.0	
8	TD34	8.2	18.0	
10	TD36B	8.2	18.0	
12	D36A	8.2	18.0	
13	CLD36	8.2	12.5	

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 / 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



Construcciones Metálicas COMANSA S. A.

Tel.: (+34) 948 335 020 / Fax: (+34) 948 330 810 / E-mail: info@comansa.com
Polígono Urbizkain, Ctra. Aoiz nº1 31620, Huarte (Navarra), SPAIN

DS.1539.13.IA 11/16 **LCL 310/52,910 lb**

Reserva de modificaciones. Subject to modifications. Modifications réservées. Konstruktionsänderungen vorbehalten.
Il Fabbricante si riserva la facoltà di apportare modifiche. Возможны изменения.

Courtesy of Crane.Market