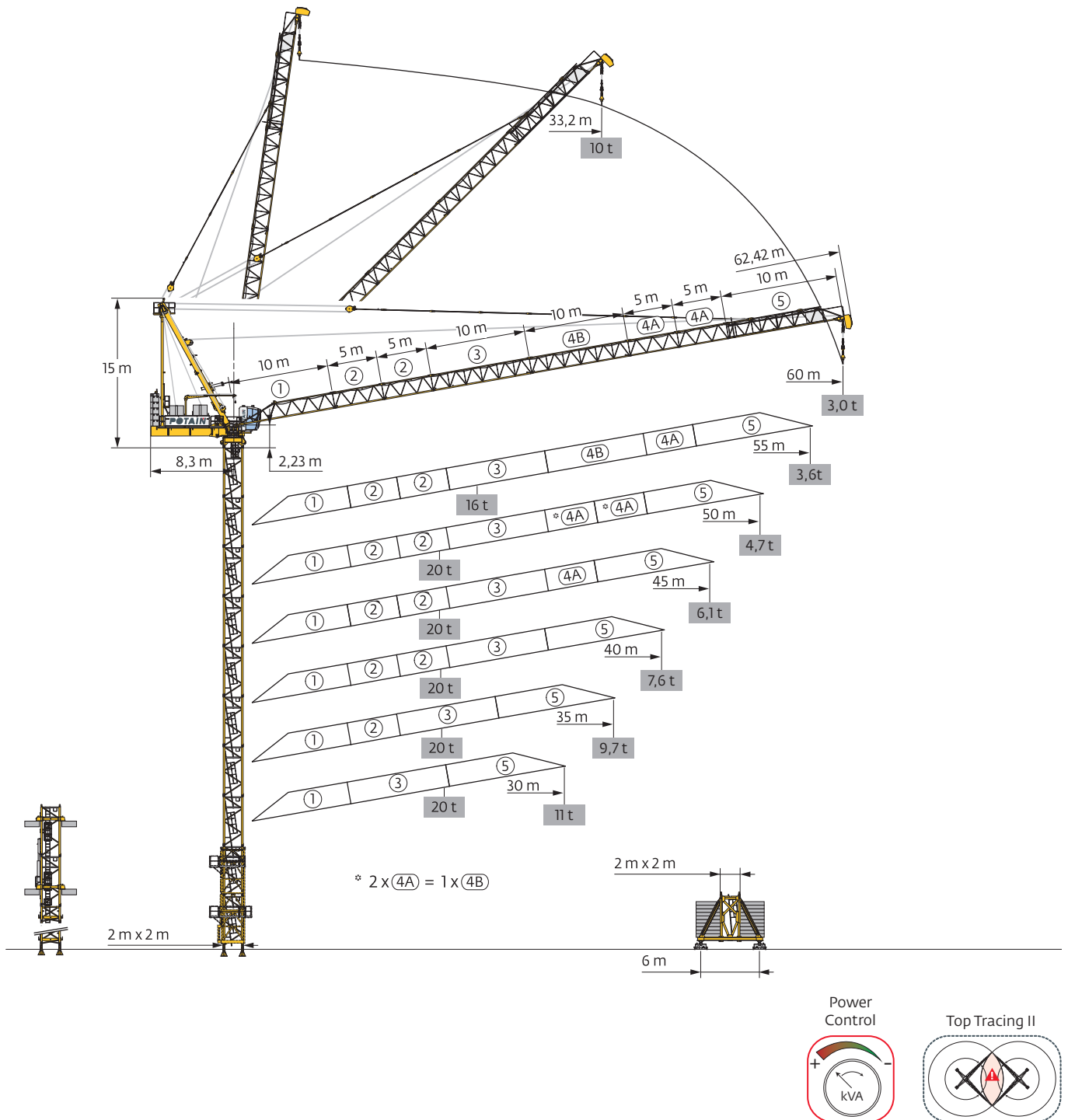


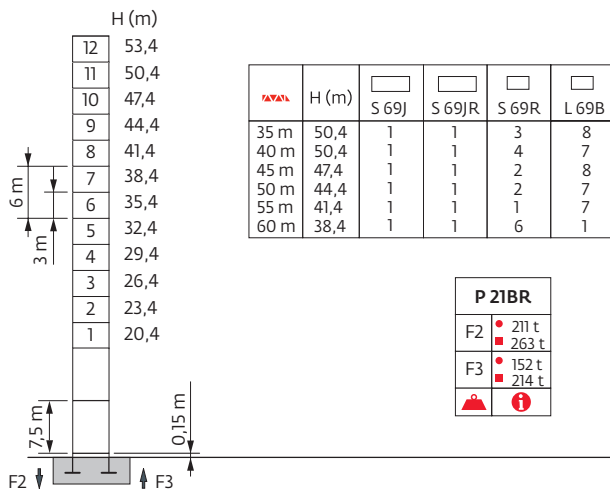
MCR 295A H20



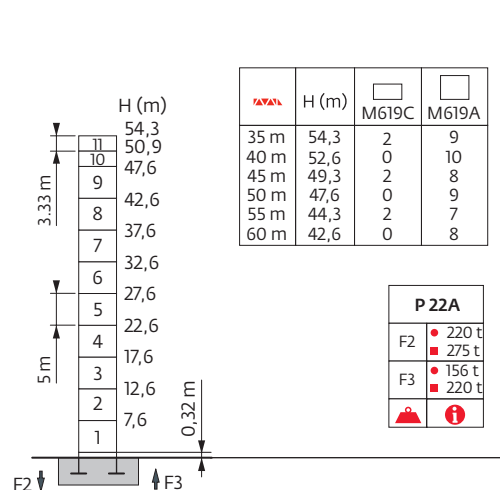
Mât - Réactions / Mast - Reaktionskräfte / Mast - Reactions / Mástil - Reacciones / Torre - Reazioni
Tramo - Reações / Реакция опор мачты

2 m

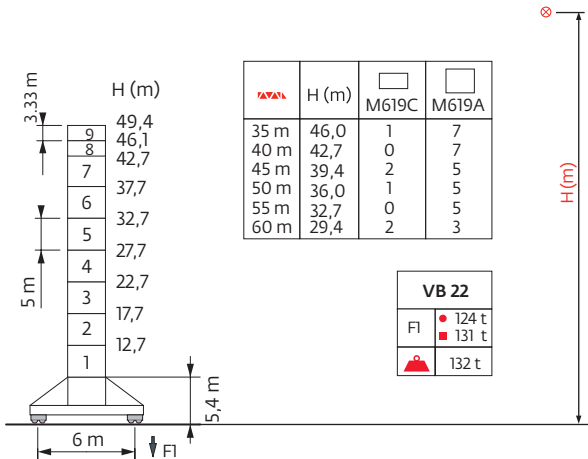
30 m



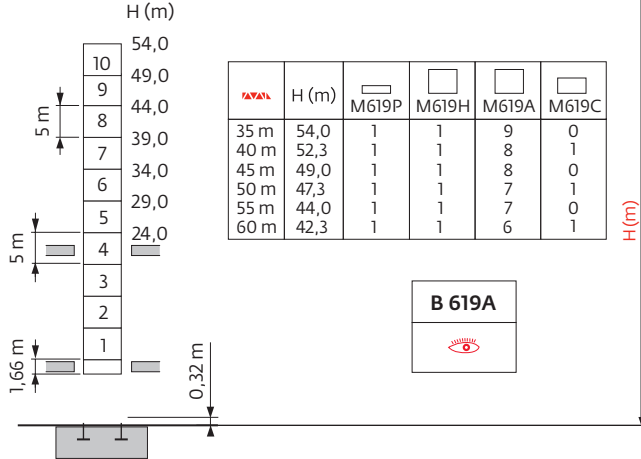
30 m



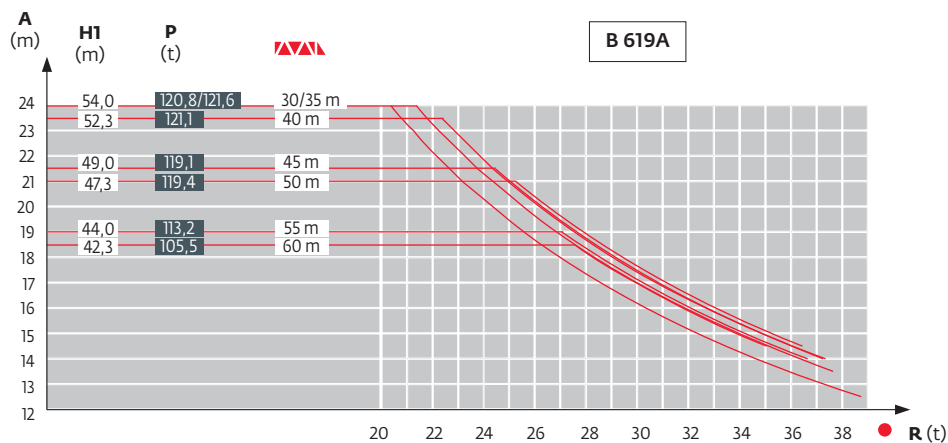
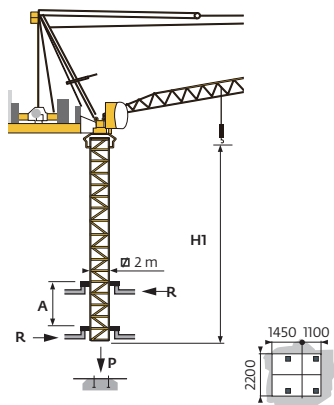
30 m



30 m

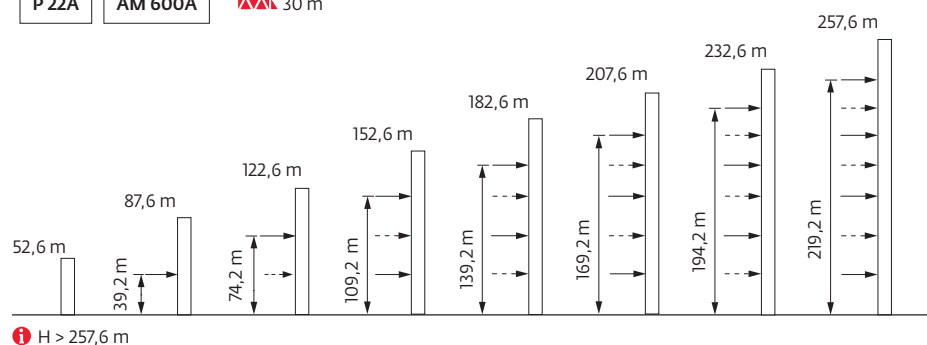


Télescopage sur dalles / Kletterkrane im Gebäude / Climbing Crane / Telescopage grua trepadora / Gru in cavedio
Telescopagem sobre lajes / Кран, ползущий внутри здания



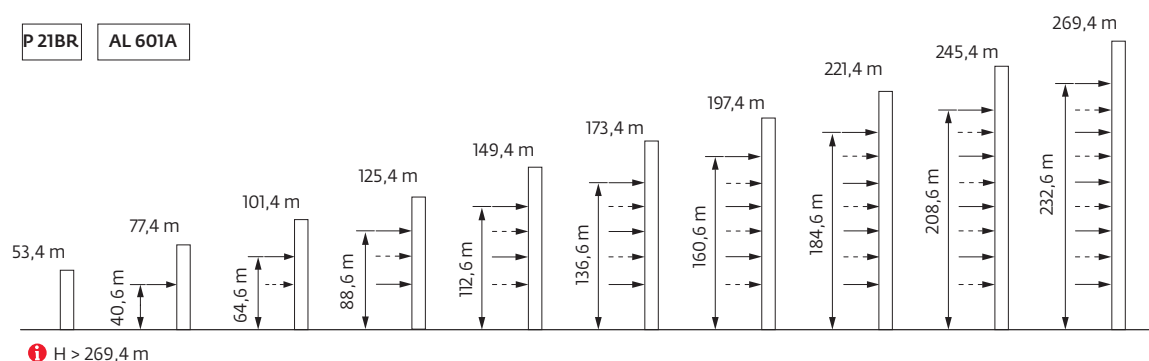
Ancrages / Verankerungen / Anchorages / Anclajes / Ancoraggi
Ancoragem / Анкера

P 22A AM 600A 30 m



i H > 257,6 m

P 21BR AL 601A



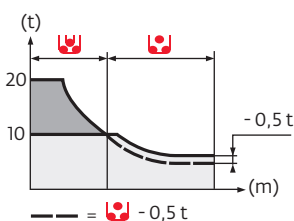
i H > 269,4 m

Courbes de charges / Lastkurven / Load curves / Curvas de cargas / Curve di carico
Curvas de carga / Кривые нагрузок

Figure 10 displays design load diagrams for a 10m wide bridge deck with 10m lane width. The diagrams are arranged in a grid, showing the load distribution for various vehicle types (60m, 55m, 50m, 45m, 40m, 35m, 30m) and their corresponding design load values in kN/m. The diagrams are arranged in a grid, with vehicle types on the left and load values on the right. A legend at the bottom right shows the vehicle symbols and the load reduction factor of 0.5.

Vehicle Type	Design Load (kN/m)
60 m	33,2 35 37 40 42 45 47 50 52 55 57 60 m
55 m	22,2 25 27 27,3 30 32 32,4 35 37 40 42 45 47 50 52 55 55,2 m
50 m	18,9 20 22 23,5 25 27 30,7 32 32,6 35 37 40 42 45 47 50 50,3 m
45 m	18,9 20 22 23,6 25 27 31 32 33,1 35 37 40 42 45 45,5 m
40 m	19,1 20 22 23,9 25 27 30 31,4 33,6 35 37 40 40,7 m
35 m	19,2 20 22 24,1 25 27 30 31,8 34,3 35 35,9 m
30 m	19,4 20 22 24,1 25 27 30 31 m

Legend: $\text{---} = \text{Vehicle Symbol} \cdot 0,5 \text{ t}$



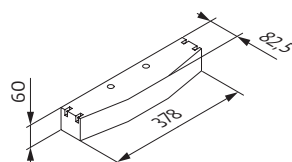
Lest de base / Grundballast / Base ballast / Lastre de base / Zavorra di base
 Lastro da base / Базовый Балласт

			30 m	35 m	40 m	45 m	50 m	55 m	60 m
 2 m	VB 22	H (m)	49,4	46,0	42,7	39,4	36,0	32,7	29,4
		 (t)	132	132	132	132	132	132	132

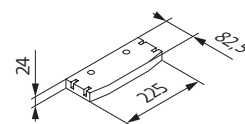
Lest de contre-flèche / Gegenauslegerballast / Counter-jib ballast / Lastre de contra-flecha / Zavorra di controbraccio
 Lastro da contra lança / Противовес стрелы

	100 LVF			150/180 HPL™		
	3950 kg	1000 kg	 (kg)	3950 kg	1000 kg	 (kg)
30 m	5	0	19750	4	3	18800
35 m	5	0	19750	4	3	18800
40 m	5	0	19750	4	3	18800
45 m	5	0	19750	4	3	18800
50 m	5	1	20750	5	0	19750
55 m	5	1	20750	5	0	19750
60 m	5	1	20750	5	0	19750

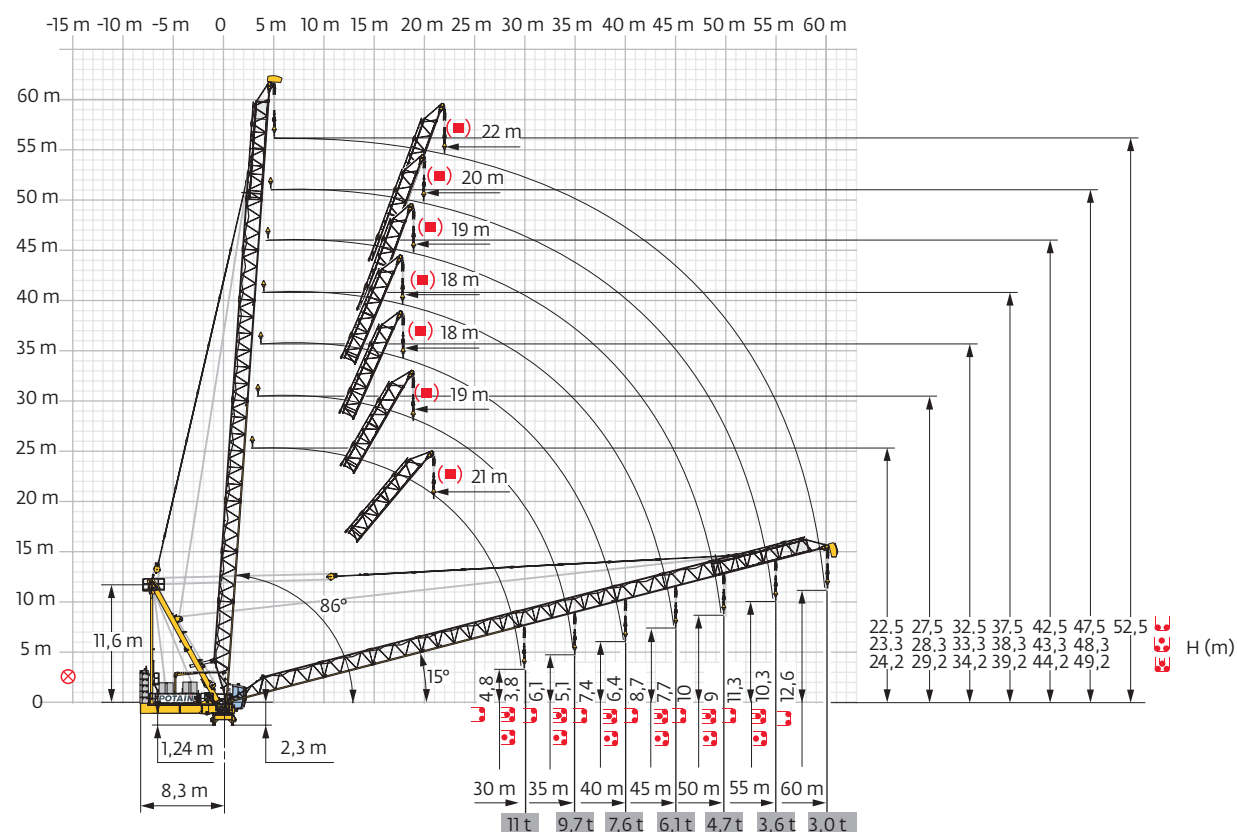
CBJ - 3950 kg



CBK - 1000 kg



Flèche relevée / Ausleger in Steilstellung / Luffing jib / Flecha izada / Braccio impennato
 Lança inclinada / Маховая стрела



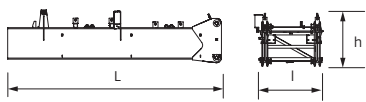
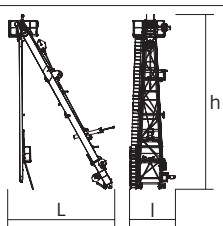
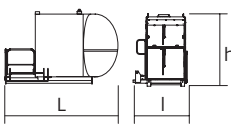
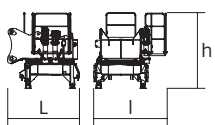
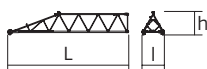
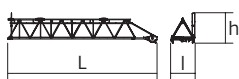
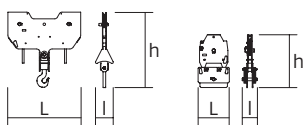
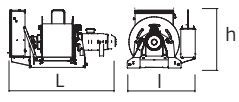
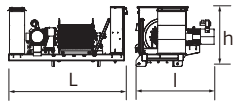
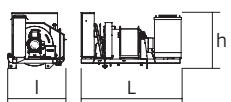
Encombrenment et poids / Abmessungen und Gewicht / Dimensions and weight / Dimensiones y peso / Ingombro e peso
dimensões e pesos / габаритные размеры и вес

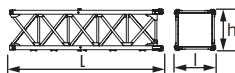
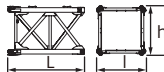
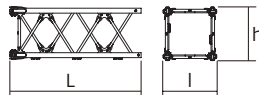
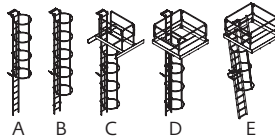
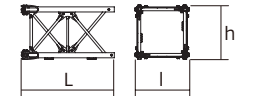
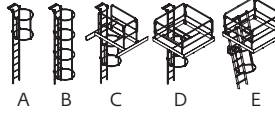
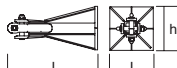
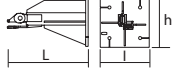
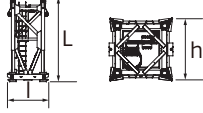
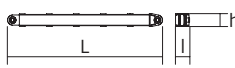
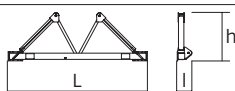
Partie tournante / Drehender Kranteil / Slewing crane part / Parte giratoria

Parte rotante / Parte rotativa / Поворотная часть :  60 m -  100 LVF / 150 HPL



x 6

Partie tournante / Drehender Kranteil / Slewing crane part Parte giratoria / Parte rotante / Поворотная часть		L (m)	I (m)	h (m)	kg (+/- 5%)
Contre-flèche / Gegenausleger Counter-jib / Contra-flecha Controbraccio / Contra-lança Контр-стрела		6,77	2,19	1,67	5784
Poinçon / Auslegerhaltebock Strut / Puntal Puntone / Extrator стойка		7,6	3,3	13	7385
Cabine / Kabine Cab / Cabina Cabina / Cabina Кабина	 V140SR	3,39	1,9	2,58	1159
Pivot / Krankopf Towerhead / Pivote Portaralla / Pivot Секция поворотной части	 12 m	2,98	3,12	3,16	9150
Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы	 ①	10,27	1,9	1,99	1625
Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы	 ③ ④B	10,17	1,81	1,67	1245
		10,17	1,81	1,65	1015
Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы	 ② ④A	5,17	1,81	1,67	677
		5,17	1,81	1,65	544
Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы	 ⑤	11,79	1,93	2,36	1356
Moufle / Hubflasche Pulley block / Aparejo Bozzello / Cadernal Полиспаст		1,8 0,68	0,44 0,33	1,86 1,16	493 401
Treuil de levage (+ câble) / Hubwerk (+ Seil) Hoisting winch (+ rope) / Mecanismo de elevación (+ cabo) Argano di sollevamento (+ fune) Guincho de elevação (+ cabo) Подъемная лебедка (+ канатом)	 100 LVF/LVFC 150/180 HPL	3,25 4,82	1,6 1,93	1,73 1,97	2920 6265
	 100 LVFC50-L-	3,25	1,6	1,73	3172
Treuil de relevage (+ câble) / Auslegerverstellwerk (+ Seil) Luffing winch (+ rope) / Mecanismo de izado (+ cabo) Argano di Impennaggio braccio (+ fune) Mecanismo de Inclinação da Lança (+ cabo) лебедка подъема стрелы (+ канатом)	 100 VVF	3,16	1,77	1,88	3000

Pylône / Kranturm / Crane tower Mástil / Torre / Torre Башня крана			L (m)	l (m)	h (m)	kg (+/- 5%)	
Cage de télescopage / Teleskopwagen Telescopic cage / Jaula de telescopaje Gabbia di telescopaggio / Gaiola de telescopagem для телескопирования крана		T22	12,78	4,11	4,43	8759	
		T21BR	8,60	4,0	4,36	6450	
S 69J S 69JR			7,8 7,8	2,12 2,12	2,12 2,12	4770 4836	
L 69B2 S 69R			3,3 3,3	2,12 2,12	2,12 2,12	1828 2110	
M 619 A		▣ 2 m	5,32	2,13	2,13	3550	
		A	-	-	-	47	
		B	-	-	-	55	
		C	-	-	-	122	
		D	-	-	-	165	
		E	-	-	-	148	
M 619 C		▣ 2 m	3,66	2,13	2,13	2460	
		A	-	-	-	29	
		B	-	-	-	41	
		C	-	-	-	98	
		D	-	-	-	140	
		E	-	-	-	138	
Pieds de scellement / Verankerungsfüße Fixing angles / Pie de empotramiento Montante da annegare / Angulos fixadores анкера		P 22A R 22A	1,35 0,82	0,65 0,65	0,65 0,65	387 325	
			P 21BR R 21BR	1,3 0,8	0,8 0,6	0,8 0,6	471 230
	Mât-châssis / Grundmasteinheit Basic mast unit / Tramo-chasis Elemento base / Tramo-chassis Мачта для крепления к шасси			VB 22	5,08	2,46	2,38
	Haubans / Mastabstützungen Struts / Tornapuntas Puntoni / Escoras Растяжка		VB 22	4,04	0,32	0,29	401
Sommier / Unterwagenhälfte Half-bearer / Testero Testata / Estrutura base Траверса		VB 22	6,7	0,7	2,31	1596	

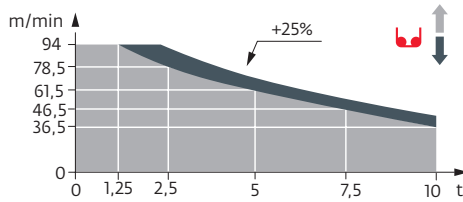
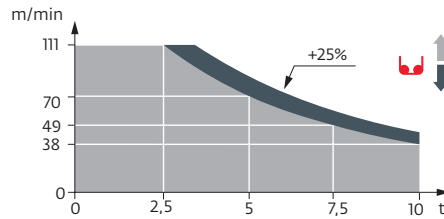
Mécanismes / Triebwerke / Mechanisms / Mecanismos / Meccanismi
Mecanismos / Механизмы

400 V - 50 Hz													ch - PS hp	kW	
	100 LVFC 50-L Optima	m/min	38	49	70	111	19	24	35	55	100	75	818 m		
		t	10	7,5	5	2,5	20	15	10	5					
	100 LVFC 50 Optima	m/min	36,5	46,5	61,5	78,5	94	18,5	24	32	44,5	47	100	75	1018 m
		t	10	7,5	5	2,5	1,25	20	15	10	5	3,9			
	100 LVF 50 Optima	m/min	36,5	46,5	61,5	78,5	94	18,5	24	32	44,5	47	100	75	1018 m
		t	10	7,5	5	2,5	1,25	20	15	10	5	3,9			
150 HPL™ 50 GH	m/min	55	69	94	144	195	28	36	48,5	80	97,5	150	110	1200 m	
	t	10	7,5	5	2,5	0,85	20	15	10	5	3				
	100 VVFC 40-L	min	1 min 40 s									100	75		
	100 VVFC 40	min	1 min 40 s									100	75		
	100 VVF 40	min	1 min 40 s									100	75		
	RVF 172 Optima+	rpm	0 → 0,8									2 x 10	2 x 7,5		

IEC 60204-32	kVA
400 V (+10% -10%) 50 Hz	100 LVFC /100 LVF : 179 kVA 150 HPL™ : 219 → 159 kVA

480 V - 60 Hz													ch - PS hp	kW	
	100 LVFC 50-L Optima	m/min	38	49	70	111	19	24	35	55	100	75	818 m		
		t	10	7,5	5	2,5	20	15	10	5					
	100 LVFC 50 Optima	m/min	36,5	46,5	61,5	78,5	94	18,5	24	32	44,5	47	100	75	1018 m
		t	10	7,5	5	2,5	1,25	20	15	10	5	3,9			
	100 LVF 50 Optima	m/min	36,5	46,5	61,5	78,5	94	18,5	24	32	44,5	47	100	75	1018 m
		t	10	7,5	5	2,5	1,25	20	15	10	5	3,9			
	180 HPL™ 50 GH	m/min	64	78	101,5	150,5	195	32,5	40	53	82,5	97,5	180	132	1200 m
		t	10	7,5	5	2,5	0,85	20	15	10	5	3			
	100 VVFC 40-L	min	1 min 40 s									100	75		
	100 VVFC 40	min	1 min 40 s									100	75		
	100 VVF 40	min	1 min 40 s									100	75		
	RVF 172 Optima+	rpm	0 → 0,9									2 x 10	2 x 7,5		

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	100 LVFC /100 LVF : 179 kVA 180 HPL™ : 243 → 171 kVA

100 LVFC 50 Optima
100 LVF 50 Optima

100 LVFC 50-L-1 Optima


	FR	DE	EN	ES	IT	PT	RU
●	Réactions en service	Reaktionskräfte in Betrieb	Reactions in service	Reacciones en servicio	Reazioni in servizio	Reacções em serviço	Реакция при работе
■	Réactions hors service	Reaktionskräfte außer Betrieb	Reactions out of service	Reacciones fuera de servicio	Reazioni fuori servizio	Reacções fora de serviço	Реакция в покое
⚖	Poids à vide sans lest avec flèche et hauteur maximum	Gewicht ohne Last, ohne Ballast, mit Ausleger und max. Höhe	Weight without load, without ballast, with jib and max. height	Peso en vacío sin lastre, con flecha y altura máxima	Peso a vuoto, senza zavorra, con braccio e altezza massimi.	Peso em vazio sem lastro com lança e altura máxima.	Вес пустого, без балласта, со стрелой, максимальной высоты.
⚖	Poids total du lest	Ballast-Gesamtgewicht	Total ballast weight	Peso total del lastre	Peso totale della zavorra	Peso total do lastro	Общий вес балласта
⚖	Courbes de charges sans plate-forme d'intervention	Lastkurven ohne Arbeitsbühne	Load curves without inspection platform	Curvas de cargas sin plataforma de servicio	Curve di carico senza piattaforma di intervento	Curvas de carga sem plataforma de intervenção	Кривые грузоподъемности без технической платформой
⚖	Courbes de charges avec plate-forme d'intervention déduire 0,1 t	Lastkurven mit Arbeitsbühne 0,1 t abziehen	Load curves with inspection platform, deduct 0,1 t	Curvas de cargas con plataforma de servicio descontar 0,1 t	Curve di carico con piattaforma di intervento detrarre 0,1 t	Curvas de carga com plataforma de intervenção deduzir 0,1 ton	Кривые грузоподъемности с технической платформой - вычесть 0,1 т
⊗	Axe articulation flèche	Auslegergelenks-achse	Jib articulation axis	Eje de articulación de la flecha	Perno di articolazione del braccio	Eixo de articulação da lança	Ось шарнира стрелы
⚖	Position girouette	Windfreistellung	Weathervaning position	Posición veleta	Libera rotazione	Posição em cata-vento	Флюгер
🚚	Camion 13,4 m	Lkw 13,4 m	Lorry 13,4 m	Camión 13,4 m	Camion 13,4 m	Camião 13,4 m	Рзусовой автомобиль 13,4 м
📦	Conteneur High Cube 40', et/ou Flat Rack 20'	Container High Cube 40', und/oder Flat Rack 20'	Container High Cube 40', and/or Flat Rack 20'	Contenedor High Cube 40', y/o Flat Rack 20'	Container High Cube 40', e/o Flat Rack 20'	Contentor High Cube 40', e/ou Flat Rack 20'	40-футовый контейнер повышенной вместимости High Cube, и/или 20-футовая открытая платформа Flat Rack
➡	Cadre d'ancrage serré	Fester Verankerungs-rahmen	Tightened anchorage frame	Marco de anclaje de apriete	Quadro di ancoraggio stretto	Quadro de amarração apertado	Прикрепленная анкерная рама
➡	Cadre d'ancrage desserré	Loser Verankerungs-rahmen	Loosened anchorage frame	Marco de anclaje de desapriete	Quadro di ancoraggio allentato	Quadro de amarração solto	Отсоединенная анкерная рама
⬆	Levage	Heben	Hoisting	Elevación	Sollevamento	Elevação	Подъем
⬆	Relevage	AL-Verstellen	Luffing	Izado	Brandeggio	Levantamento	Маховый подъем
🔄	Orientation	Schwenken	Slewing	Orientación	Rotazione	Rotação	Поворот
➡	Translation	Kranfahren	Travelling	Traslación	Traslazione	Translação	Перемещение крана
⚡	Puissance nominale	Nennleistung	Rated power	Potencia nominal	Potenza nominale	Potência nominal	Номинальная мощность
⌚	Fonction Power Control : vitesses levage «montée» adaptées à la puissance disponible	Funktion Power Control : An die verfügbare Leistung angepasste Hubgeschwindigkeiten „Heben“	Power Control function: „Hoisting“ speeds adapted to the available power	Función Power control (control de la potencia): velocidades de elevación “arriba” adaptada a la energía disponible	Funzione Power Control : velocità del sollevamento «salita» adattate alla potenza elettrica disponibile	Função Power control (controlo de potência): velocidades de elevação “subir” adaptada a energia disponível	Функция Power control: изменение скорости подъема в зависимости от мощности источника питания
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