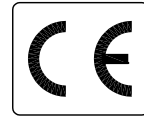
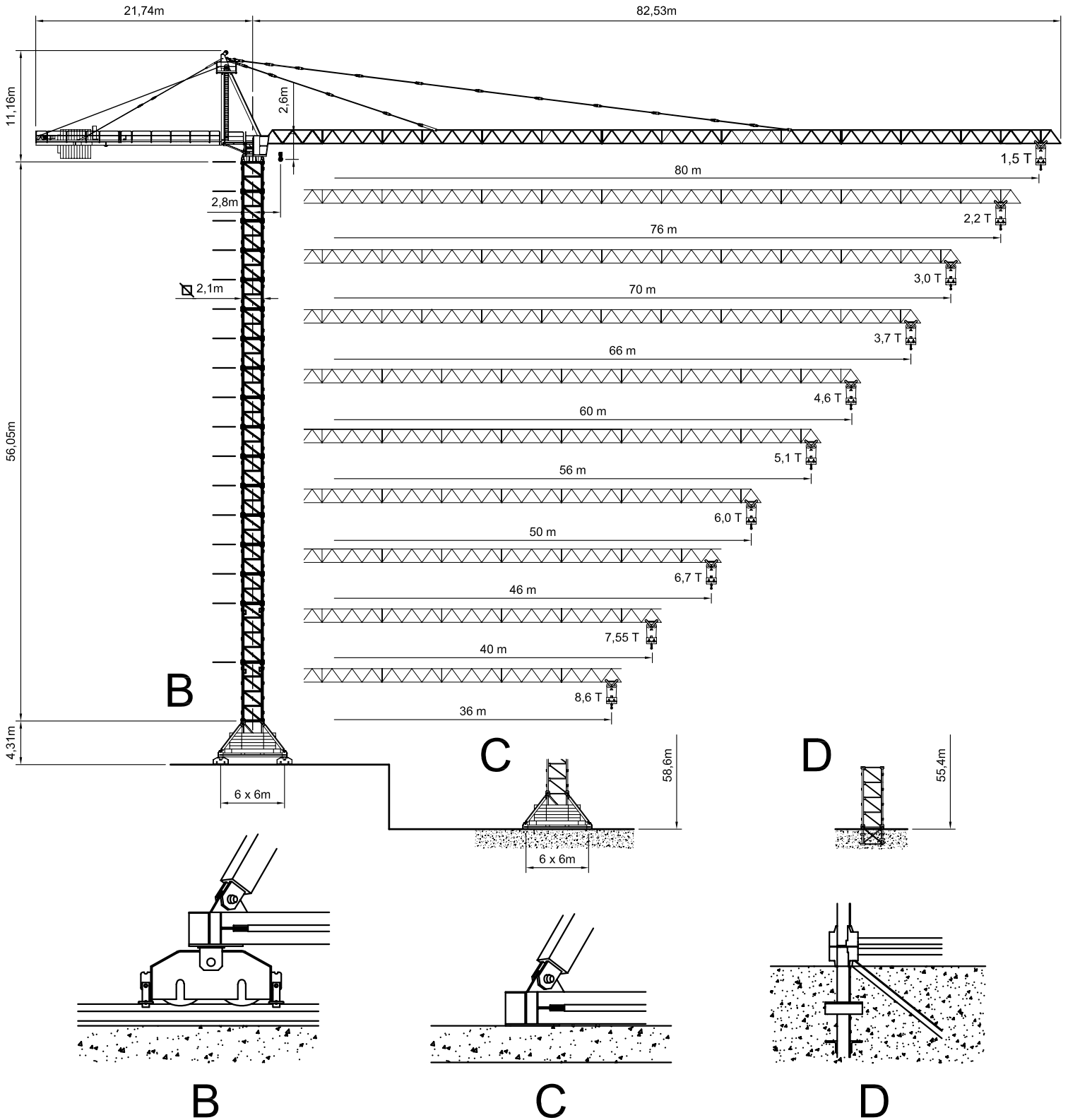


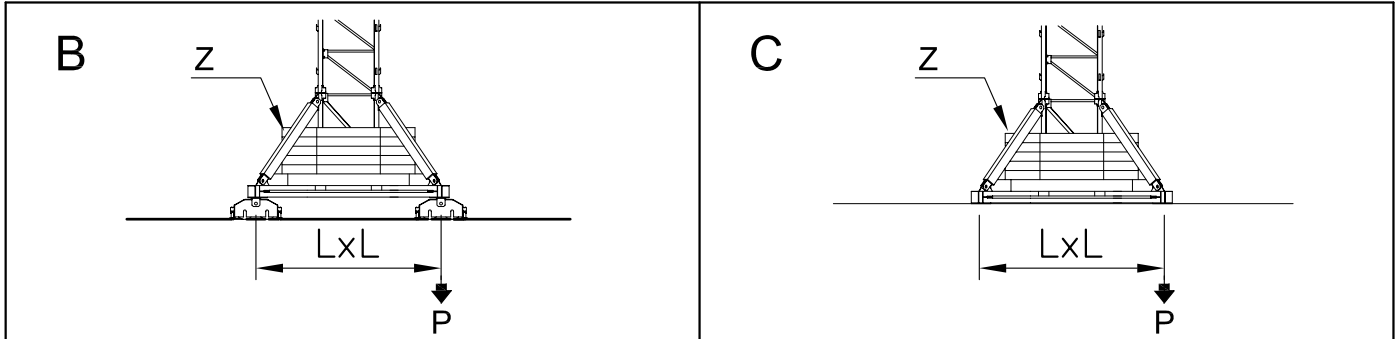
ER 291 GRU A TORRE TOWER CRANE



A4 FEM1,001



ALTEZZA SOTTO-GANCIO, ZAVORRA DI BASE, REAZIONI
 H.U.H., MAX. BASE BALLAST AND CORNER PRESSURE
 H.S.C., LEST DE BASE MAXI ET REACTIONS
 HAKENHOHEN, MAXIMALE ZENTRALBALLASTE UND ECKKRAFT

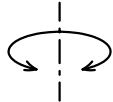

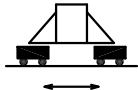


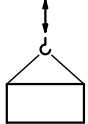


SU BASE / ON CROSS BASE SUR CHASSIS / AUF KREUZRAHME			L = 6 m		
H (m)	max. Z (t)	P (kN)	H (m)	max. Z (t)	P (kN)
21,2	64,16	650	20,3	64,16	635
24,15	64,16	663	23,25	64,16	648
27,1	70,62	693	26,2	70,62	677
30,05	70,62	707	29,15	70,62	692
33,0	70,62	723	32,1	70,62	707
35,95	70,62	739	35,05	70,62	723
38,9	70,62	756	38,0	70,62	739
41,85	77,08	789	40,95	77,08	773
44,8	77,08	808	43,9	77,08	791
47,75	83,54	843	46,85	83,54	826
50,7	83,54	864	49,8	83,54	847
53,65	83,54	880	52,75	83,54	842
56,6	83,54	993	55,7	83,54	952
59,55	96,46	1115	58,65	90,0	1068

SU PLINTO / STATIONARY
 SUR PIEDS DE SCELLEMENT / STATIONAR

D	H (m)	25,95	28,9	31,85	34,8	37,75	40,7	43,65	46,6	49,55	52,5	55,45
	T (kN)	786	815	847	881	919	959	1003	1050	1100	1154	1257
	P (kN)	1144	1182	1222	1265	1311	1361	1413	1468	1527	1590	1633
	q max. (Kg/cm ²)	1,22	1,25	1,28	1,32	1,35	1,40	1,44	1,49	1,54	1,602	1,75
Booster	H (m)	58,4	61,35	64,3								
	T (kN)	1438	1630	1834								
	P (kN)	1822	2023	2236								
	q max. (Kg/cm ²)	1,6	1,789	2,02								

B	Passo delle ruote - Wheel gauge Empattement - Radstand	6,0 m
	Scartamento delle vie di corsa - Track gauge Ecartement de la vole - Spurwette	6,0 m
	Raggio interno della rotaia - Interior curve radius Rayon de courbe intérieur - Innenkurvenradius	12,0 m

		Velocità / Speed / Vitesse / Geschwindigkeit	Potenza / Power / Puissance / Leistung
Rotazione Slewing Orientation Schwenken		0,26 / 0,48 / 0,7 min ⁻¹	4 x 4 Kw
Carrello Trolley Chariot Katzfahnen		27 / 54 m/min	6,6 Kw
		13 / 35 / 56 m/min Progressivo - Progressive	6,6 Kw
Traslazione Rail Translation Kranfahren		19 m/min	4 x 4 Kw



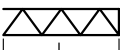

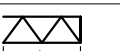



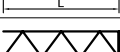



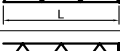

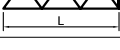

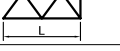


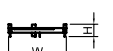


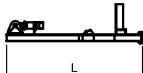

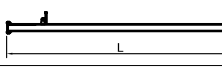



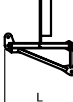
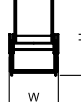

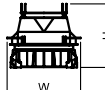

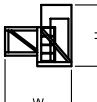
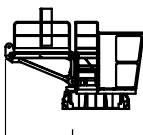
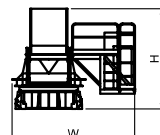
Argano Winch Treuril Hubwerk		Marcia Step Vitesse Gang	Carico / velocità - Load / speed Charge / vitesse - Tragfähigkeit / Geschwindigkeit	
				
Tipo Type Type Typ	(*) 33 HP 24,3 Kw - 10	1	5000 Kg - 5,7 m/min	10000 Kg - 2,8 m/min
		2	5000 Kg - 23 m/min	10000 Kg - 11,5 m/min
		3	2500 Kg - 46 m/min	5000 Kg - 23 m/min
	(*) 33 HP 24,3 Kw - 10VF	1	5000 Kg - 5,7 m/min	10000 Kg - 2,8 m/min
		2	5000 Kg - 23 m/min	10000 Kg - 11,5 m/min
		3	2500 Kg - 46 m/min	5000 Kg - 23 m/min
		4	1800 Kg - 54 m/min	3600 Kg - 27 m/min
	(*) 50 HP 37 Kw - 10VF INVERTER	1	5000 Kg - 3 m/min	10000 Kg - 1,5 m/min
		2	5000 Kg - 16 m/min	10000 Kg - 8 m/min
		3	5000 Kg - 32 m/min	10000 Kg - 16 m/min
		4	3000 Kg - 50 m/min	6500 Kg - 25 m/min
		5	2100 Kg - 68 m/min	4600 Kg - 34 m/min
	60 HP 45 Kw - 12VF INVERTER	1	6000 Kg - 4 m/min	12000 Kg - 2 m/min
		2	6000 Kg - 18 m/min	12000 Kg - 9 m/min
		3	6000 Kg - 34 m/min	12000 Kg - 17 m/min
		4	3200 Kg - 63 m/min	6780 Kg - 32 m/min
		5	2070 Kg - 93 m/min	4440 Kg - 46 m/min
	60 HP 45 Kw - 14VF INVERTER	1	7000 Kg - 3 m/min	14000 Kg - 1,5 m/min
		2	7000 Kg - 15 m/min	14000 Kg - 8 m/min
		3	7000 Kg - 28 m/min	14000 Kg - 14 m/min
		4	3570 Kg - 53 m/min	7540 Kg - 27 m/min
		5	2410 Kg - 76 m/min	5100 Kg - 38 m/min
	102 HP 75 Kw - 12VF INVERTER	1	12000 Kg - 3 m/min	
		2	12000 Kg - 30 m/min	
3		6380 Kg - 58 m/min		
4		4028 Kg - 88 m/min		
5		2935 Kg - 115 m/min		

Conforme alla direttiva CEE 84/534 sul livello acustico - In compliance with the EEC 84/534 instruction on noise level - Conforme à directive CEE 84/534 sur le niveau acoustique
Gemäss EWG 84/534 über Schall - Leistungspegel - Conforme con la direttiva CEE 84/534 sobre el nivel acustico.

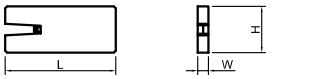
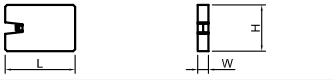



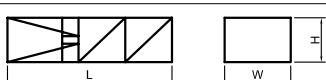



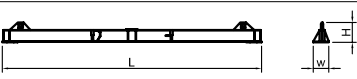



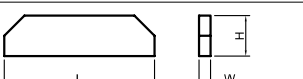
FORZA MOTRICE TOTALE TOTAL INSTALLED POWER PUISSANCE TOTALE DES MOTEURS GESAMT-MOTORENLEISTUNG	(*) 24,3 Kw (33HP)	(*) 37 Kw (50HP)	45 Kw (60HP)	75 Kw (102HP)
	65 Kw	80 Kw	85 Kw	115 Kw

(*) Portata max. della gru limitata a 10 t - Maximun load of crane limited to 10 t - Charge maxi limitée à 10 tonnes - Max. Tragfähigkeit begrenzt auf 10 t.

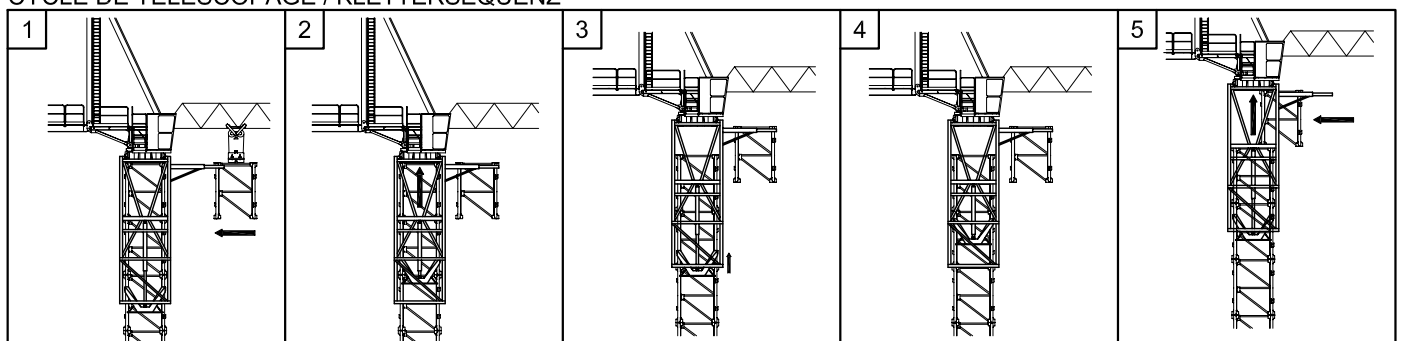
LISTA DEI PESI / PACKING LIST
LISTE DE COLISAGE / KOLLI-LISTE

Pos. Item	Pezzi Pieces	Denominazione Description	Schizzo Sketch	Dimensioni Dimensions			Peso Weight (Kg)			
				L	W	H	Unit.	Total.		
1	1	Elemento di freccia Jib element Elément de flèche Ausleger	N°1			6,200	1,500	1,670	941	941
	2		N°2-5			6,240	1,500	1,670	895	1790
	1		N°3			4,240	1,500	1,670	602	602
	1		N°4			6,240	1,500	1,670	1000	1000
	4		N°6-7 7A-8			6,240	1,500	1,650	745	2235
	1		N°9			6,240	1,500	1,650	813	813
	2		N°10-11			6,240	1,500	1,630	560	1120
	1		N°12-12A			4,200	1,500	1,610	328	656
	1		N°13			2,210	1,500	1,610	178	178
			1	Puntale Jib point Elément de pointe Spitzelement			0,740	1,510	0,340	78
2	1	Cuspide A frame Pointe Turmspitze			9,500	1,550	0,800	3500	3500	
3	1	Elemento controfreccia esterno porta argano sollevamento External counterjib section with hoisting winch Contreflèche extérieure porte treuil Externes Gegenauslegerteil mit Hubgewinde			7,100	2,270	2,040	3600	3600	
4	1	Elemento interno controfreccia Internal counterjib section Contreflèche intérieure Internes Gegenauslegerteil			11,830	2,270	1,100	2100	2100	
5	1	Controfreccia completa Complete counterjib Contreflèche complète Gegenausleger komplett			18,830	2,270	2,040	7000	7000	
6	1	Coda telaio girevole Switchboard support frame Support de l'armoire électrique Rahmen bei Drehgestell			2,470	1,700	2,530	1300	1300	
7	1	Gruppo rotazione Slewing table Table tournante Drehgruppe			2,300	2,540	2,270	5500	5500	
8	1	Ballatoio cabina, cabina Access balcony, cabin Porte cabine Wartung plattform			2,400	2,000	2,300	750	750	
8	1	Assieme montato pos.6-7-8 Assembly of pos.6-7-8 Groupe 6-7-8 Zusammenbau der teile 6-7-8			4,890	4,240	3,350	8000	8000	

LISTA DEI PESI / PACKING LIST
LISTE DE COLISAGE / KOLLI-LISTE

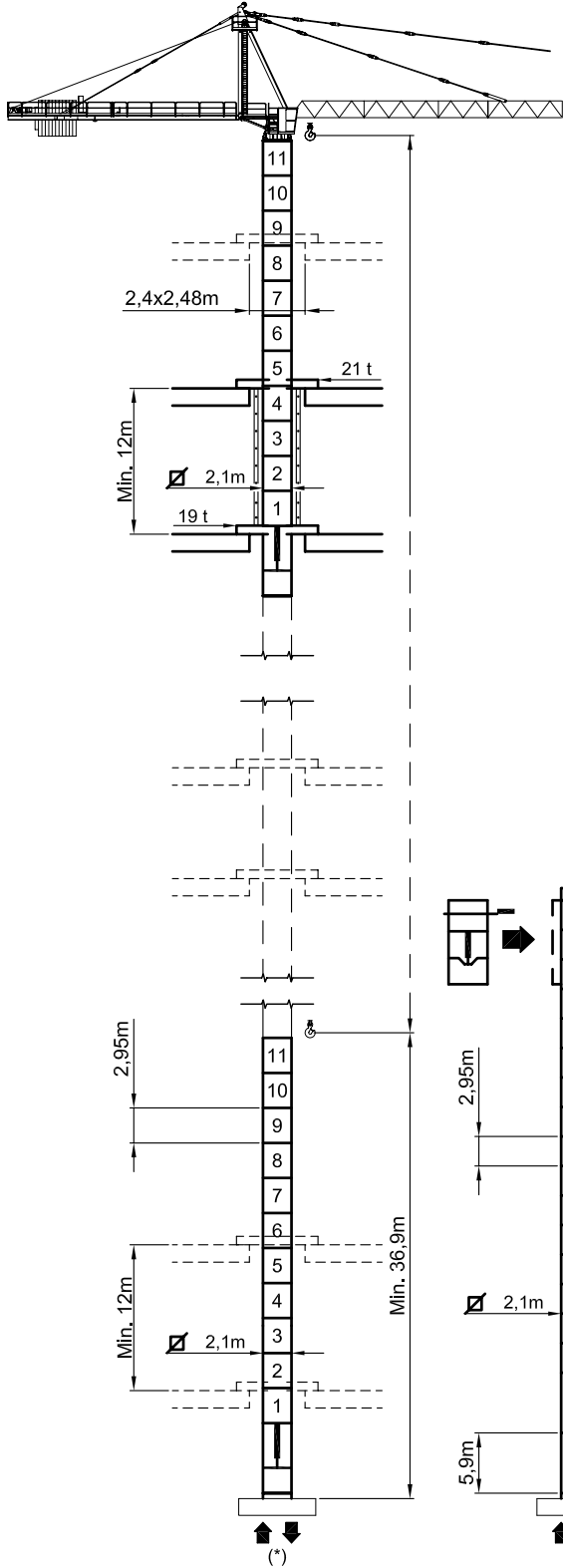
Pos. Item	Pezzi Pieces	Denominazione Description	Schizzo Sketch	Dimensioni Dimensions			Peso Weight (Kg)	
				L	W	H	Unit.	Total.
10	12	Blocchi di contrappeso Counterweight blocks Contre-poids Gegengewichtsböcke	 AW	2,870	1,200	0,275	2022	24264
	1		 BW	1,815	1,200	0,275		1296
11	-	Elemento di torre Tower element Elément de mature Turmstück		6,000	2,300	2,300		3450
12	-			3,000	2,300	2,300		1900
13	1	Elemento di base Base element Mat de base Turmbasiselement		3,000	2,400	2,400		1950
14	1	Gabbia di motaggio Climbing cage Cage de montage Hydraulikbühne		8,530	3,100	2,300		7670
15	1	Tronchetto di fondazione Expendable foundation element Elément a sceller Fundamentanker		1,820	2,400	2,400		1370
16	4	Gambe di fondazione Fixing angles Pieds de scellement Fundamentstempel		1,820	0,470	0,470	280	1120
17	4	Puntoni di base Oblique legs Jambes de force Basisdruckstäben		3,770	0,230	0,260	340	1360
18	1	Trave principale della crociera di base Base main beam Poutre de chassis de base Hauptträger für Kreuzgelenk		8,900	0,720	0,760		1650
19	2	Semitrave della crociera di base Half base beam Semipoutre de chassis de base Halbräger für Kreuzgelenk		4,350	0,600	0,760	750	1500
20	4	Bilancino di traslazione motorizzato Driven bogie Boggie motorisée Fahrschemel mit Motorantrieb		1,750	0,705	0,790	1000	4000
21	24	Blocco di zavorra Base ballast block Lest base Grundballastblöcken	 3G	4,200	0,320	1,400	3230	77520
	2		 3H	5,200	0,400	1,400	6240	12480

SEQUENZA DI SOPRALZO / CLIMBING SEQUENCE
CYCLE DE TELESCOPAGE / KLETTERSEQUENZ



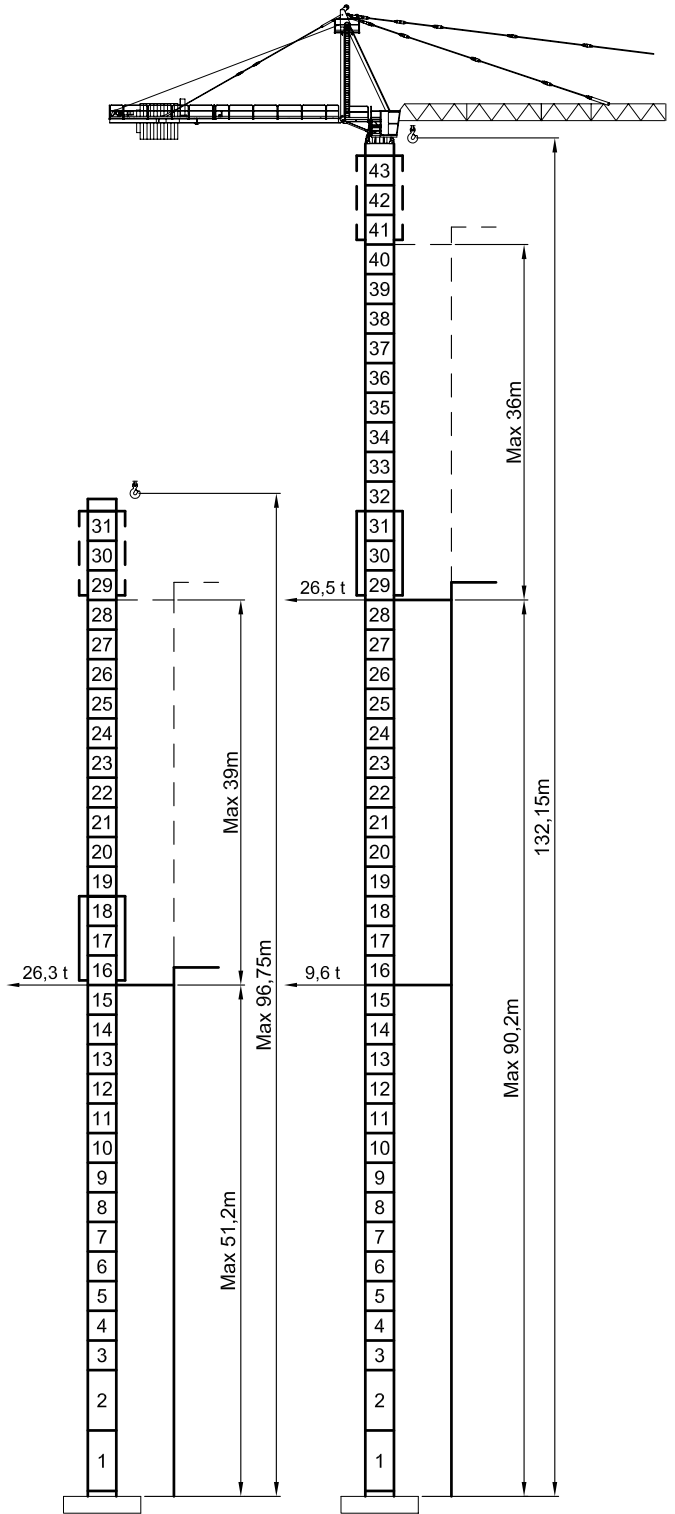
ER 291 RI

RAMPANTE
FLOOR CLIMBING
TELESCOPABLE SUR DALLES
KLETTERKRANE IM GEBAUDE



ER 291 HC

A SOPRALZO IDRAULICO
EXTERNAL CLIMBING
TELESCOPABLE
KLETTERKRANE



* Vedi tabella a pag. 4 - See table at page 4 - Voir table à la page 4 - Siehe tafel an seite 4



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