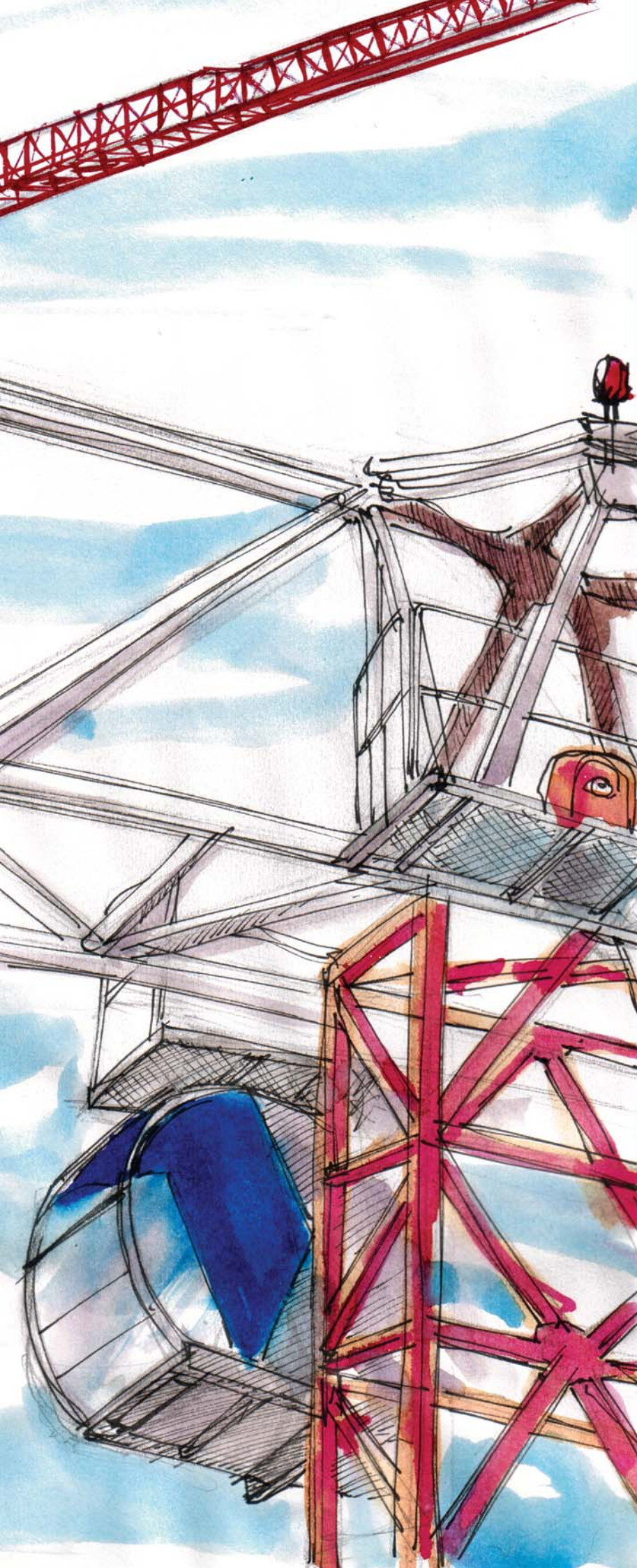
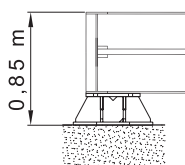
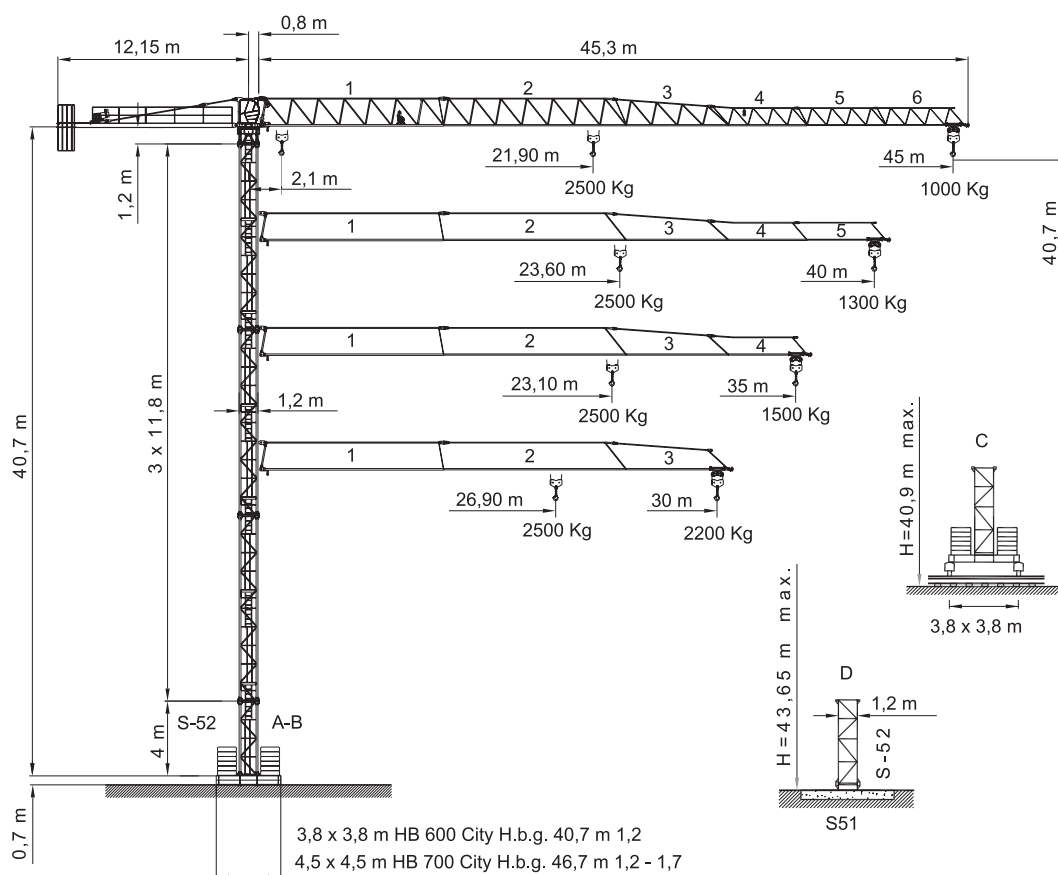


A watercolor illustration of a crane's lattice structure, showing a red crane arm at the top and a complex network of white and red beams below. A blue cylindrical component is visible in the lower left. The background is a light blue sky with soft clouds.

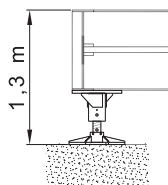
SAEZ

CRANES

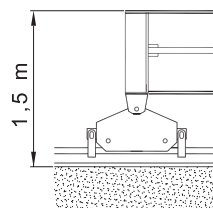
TL 452 4T



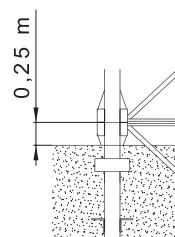
A



B



C



D

Curvas de cargas
Load diagrams
Lastkurven
Courbes de charges
Curve di carico

45 m 	12	16	18	20	21,9	24	25	26	28	30	33	35	37	39	40	43	45	m		
	2500	2500	2500	2500	2500	2244	2136	2036	1859	1706	1512	1402	1303	1215	1175	1065	1000	Kg		
	9	10	12	13,8	14	16	18	21	24	27	30	33	35	38	40	43	45	m		
	4000	4000	4000	4000	3961	3377	2929	2424	2049	1760	1530	1343	1237	1099	1019	912	850	Kg		
40 m 	12	16	18	20	23,6	24	25	26	28	30	33	35	37	39	40	m				
	2500	2500	2500	2500	2500	2455	2338	2230	2038	1873	1664	1544	1438	1343	1300	Kg				
	9	10	12	14	15	16	18	21	24	27	30	33	35	38	40	m				
	4000	4000	4000	4000	4000	3715	3228	2678	2270	1956	1706	1503	1387	1237	1150	Kg				
35 m 	12	16	18	20	23,1	24	25	26	28	30	33	35	m							
	2500	2500	2500	2500	2500	2389	2274	2169	1982	1821	1616	1500	Kg							
	9	10	12	14	14,7	16	18	21	24	27	30	33	35	m						
	4000	4000	4000	4000	4000	3631	3153	2614	2215	1907	1662	1463	1350	Kg						
30 m 	12	16	18	20	24	25	26	26,9	28	30	m									
	2500	2500	2500	2500	2500	2500	2500	2500	2389	2200	Kg									
	9	10	12	14	16	17,2	18	21	24	27	30	m								
	4000	4000	4000	4000	4000	4000	3811	3175	2703	2339	2050	Kg								

Windzone A-B / DIN 15019

Mástil / Reacciones

Masts / Reactions

Maste / Eckdrücke

Mat / Réactions

Torre / Reazioni

C: TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8

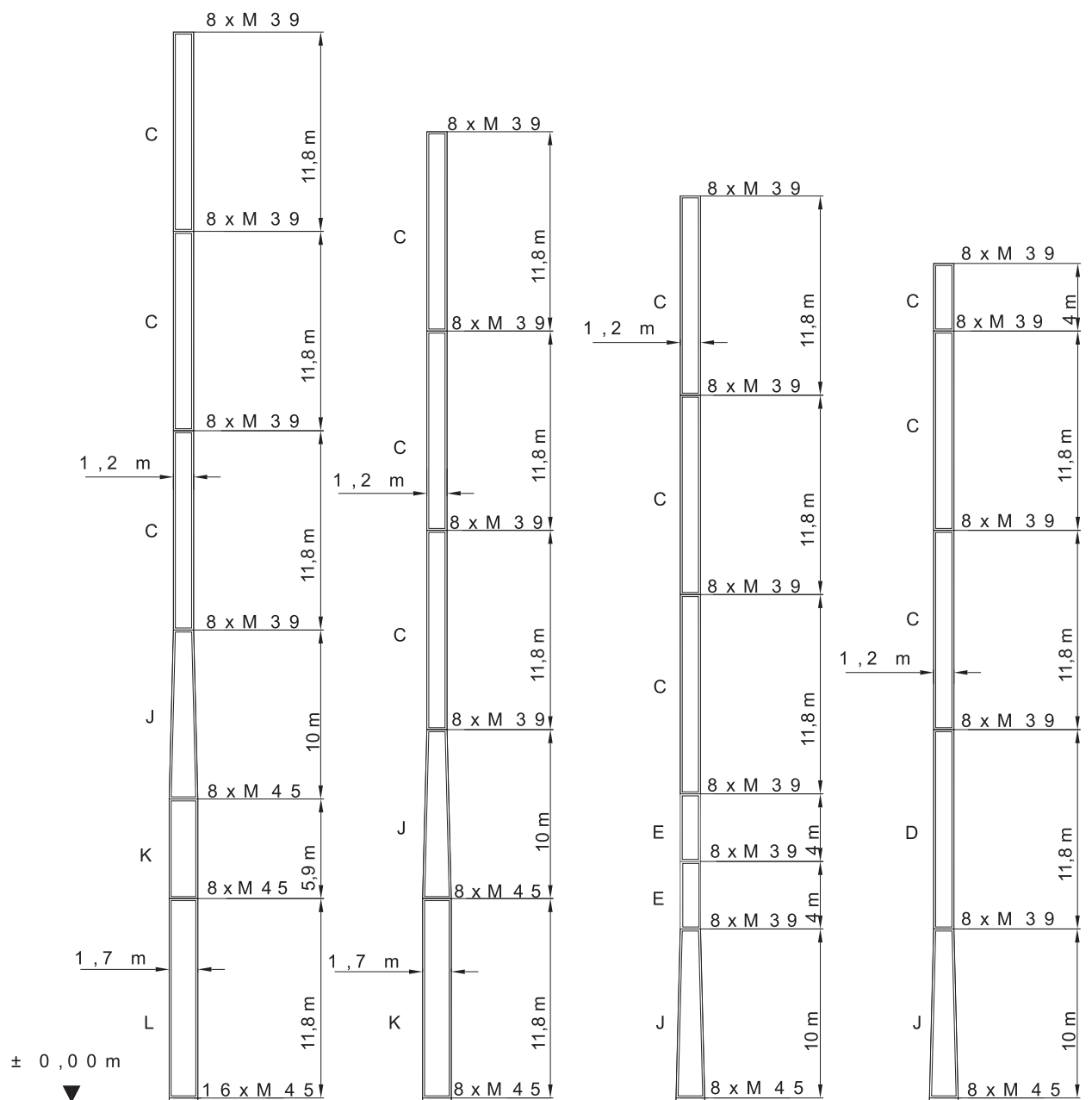
D: TORRE S/TL 50-52 1.20 M39/M39 8/8

E: TORRE TL 55 1.20 M39/M39 8/8

J: CAMPANA S17 10m 1.20/1.70 M39/M45 8/8

K: TORRE S17 1.70 M45 8/8

L: TORRE S17 1.70 M45 16/8

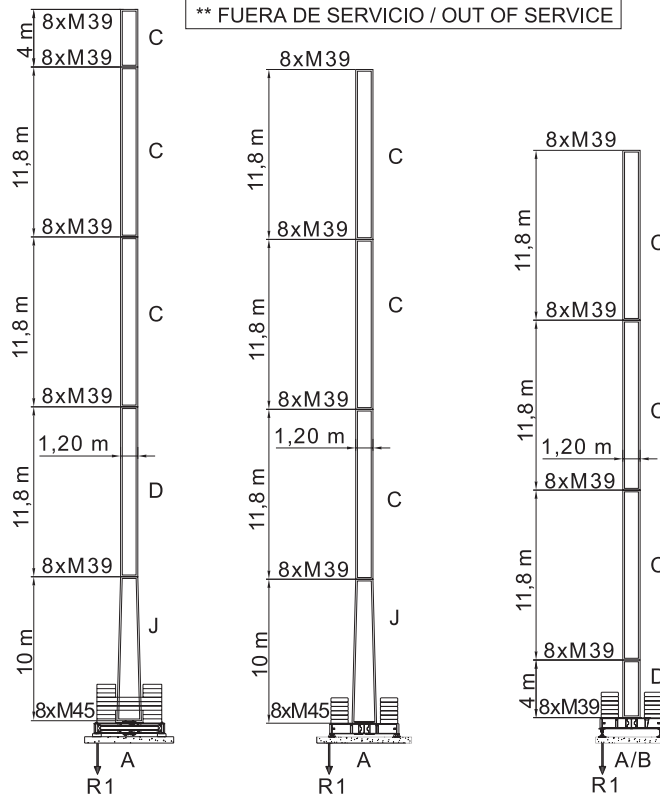


S 6 0 R / 1 6	S 6 0 / 8	S 6 0 / 8	S 6 0 / 8
H : 6 3 , 4 m	H : 5 7 , 5 m	H : 5 3 , 7 m	H : 4 9 , 7 m
P (t) : 5 6 , 4 3	P (t) : 5 4	P (t) : 4 7 , 4 5	P (t) : 4 7 , 3 1
T (t) : 1 2 , 7 6	T (t) : 1 1 , 6 5	T (t) : 9	T (t) : 8 , 4 1

C:TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8
D:TORRE S/TL 50-52 1.20 M39/M39 8/8
J:CAMPANA S17 10m 1.20/1.70 M39/M45 8/8

* EN SERVICIO / IN SERVICE

** FUERA DE SERVICIO / OUT OF SERVICE

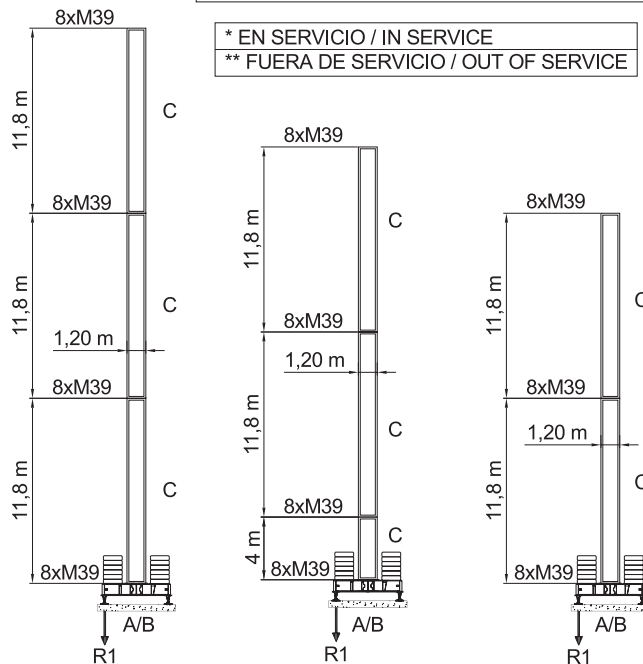


H(m): 50,6	H(m): 46,5	H(m): 40,4
BASE 4,5x4,5 1,7 HM700	BASE 4,5x4,5 1,2/1,7 HB700	BASE 3,8x3,8 1,2 HB600
LASTRE: 121,6 Tn	LASTRE: 98,8 Tn	LASTRE: 76 Tn
	*R1= 62,5 Tn	*R1= 56,3 Tn
**R1= 97 Tn	**R1= 70,9 Tn	**R1= 62,3 Tn

C:TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8

* EN SERVICIO / IN SERVICE

** FUERA DE SERVICIO / OUT OF SERVICE



H(m): 36,4	H(m): 28,6	H(m): 24,6
BASE 3,8x3,8 1,2 HB600	BASE 3,8x3,8 1,2 HB600	BASE 3,8x3,8 1,2 HB600
LASTRE: 76 Tn	LASTRE: 45,6 Tn	LASTRE: 45,6 Tn
*R1= 52 Tn	*R1= 39,3 Tn	*R1= 35,3 Tn
**R1= 54,4 Tn	**R1= 36 Tn	**R1= 29,2 Tn

Windzone A-B / DIN 15019

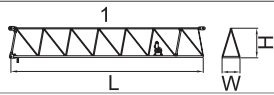
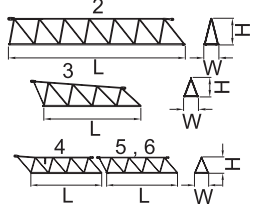
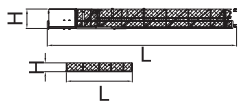
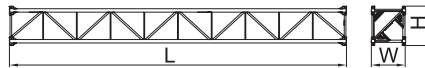
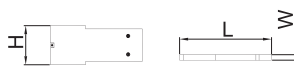
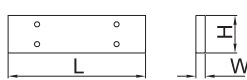
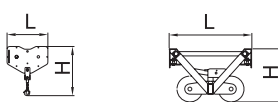
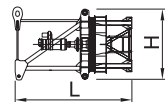
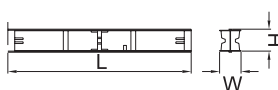
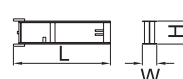
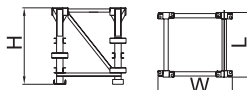
Bloque lastre de base

Base ballast block

Grundballastblöcke

Bloc de lest de base

Blocco di zavorra alla base

			L(m)	W(m)	H(m)	Peso(Kg)
Pluma tramo primero / Jib heel section Ausleger-Anlenkstück / Pied de flèche Settore articolato di braccio		1	11,74	1	1,7	1544
Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück Elément interm. de flèche / Spezzzone di braccio		2	11,74	1	1,7	1064
		3	6,5	1	1,31	502
		4	5	1	1,16	312
		5	5	1	1,16	262
		6	5	1	1,16	206
Contrapluma / Counter-jib Gegenausleger / Contre-flèche Controbraccio			11,49	0,28	1,65	1502
			4,05	0,30	0,58	96
Elemento de torre / Tower section Turmstück / Elément de mât Elemento di torre		C	11,8	1,2	1,38	2520
		C	8,0	1,2	1,38	1870
		C	5,9	1,2	1,38	1348
		C	4,0	1,2	1,38	1050
		D	11,8	1,2	1,38	3017
		D	8,0	1,2	1,38	2075
		D	5,9	1,2	1,38	1560
		D	4,0	1,2	1,38	1100
		E	11,8	1,2	1,38	3782
		E	8,0	1,2	1,38	2654
		E	5,9	1,2	1,38	2090
		E	4,0	1,2	1,38	1527
		J	10	1,85	1,38	3520
		K	11,8	1,85	1,85	4600
		K	5,9	1,85	1,85	2472
		K	3	1,85	1,85	1425
		L	11,8	1,85	1,85	5520
Bloque de contrapeso / Counterweight blocks Gegengewichtsblöcke / Bloc de contrepoids Blocco di contrappeso		A	2,94	0,30	1,25	2300
		B	2,94	0,18	1,25	1400
		C	1,70	0,18	1,25	850
Bloque lastre de base / Base ballast block Grundballastblöcke / Bloc de lest de base Blocco di zavorra alla base			4,4	1,2	0,3	3800
Gancho y Carro / Hook and Trolley Lasthaken - Laufkatze / Crochet - Chariot Gancio e Carrello			0,75	0,12	1,40	164
			0,96	1,10	0,62	184
Cabeza de torre / Tower head Turmspitze / Porte - flèche Testa di torre			2,94	1,8	1,7	2998
Viga principal base / Main base beam Hauptträger für fundamentkreuz Poutre de châssis de base Trave principale della base			5,72	0,67	0,65	1570
Semiviga secundaria base / Half base beam Halbträger für fundamentkreuz Semipoutre de châssis de base Semitrave secundaria della base			2,77	0,45	0,665	800
Elemento de empotre / Foundation anchor Fundamentanker / Élément de scellement El anegare		S51	1,2	1,38	1,42	496
		S60/8	1,85	1,85	1,6	956
		S60R/16	1,85	1,85	1,6	1108

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