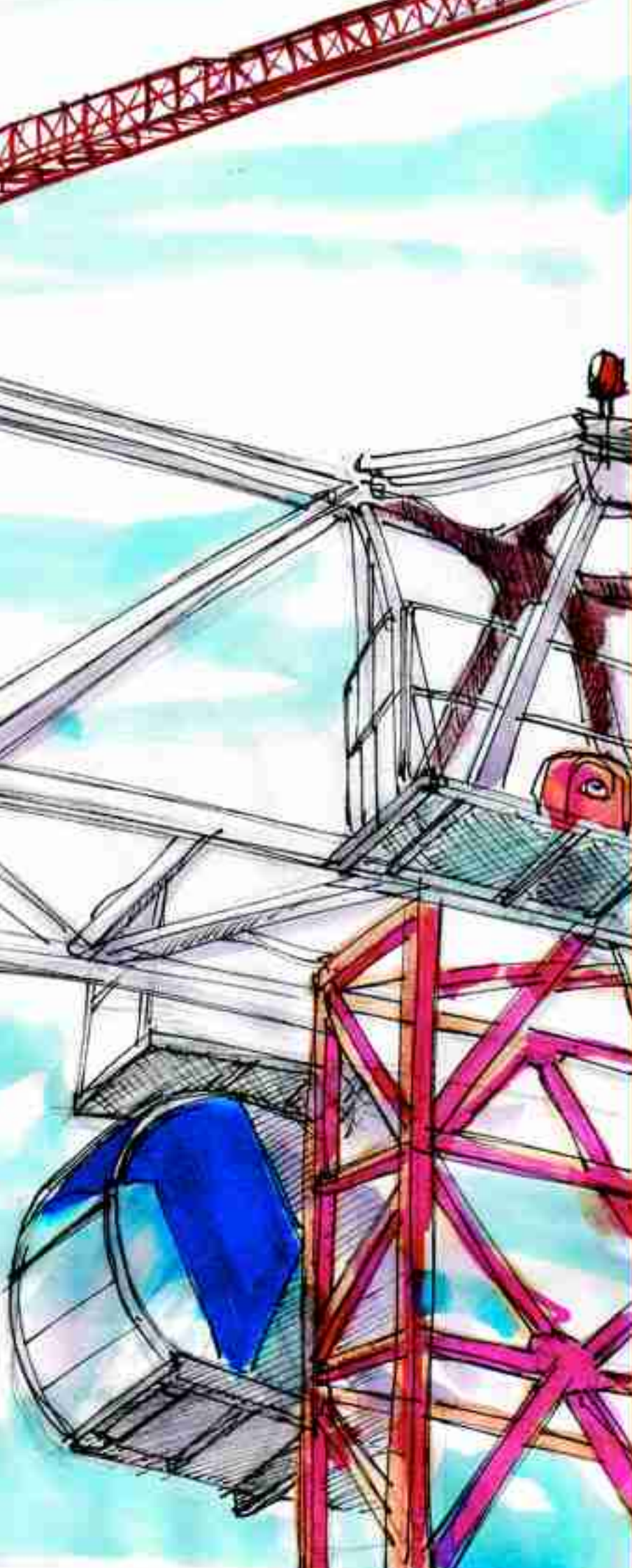
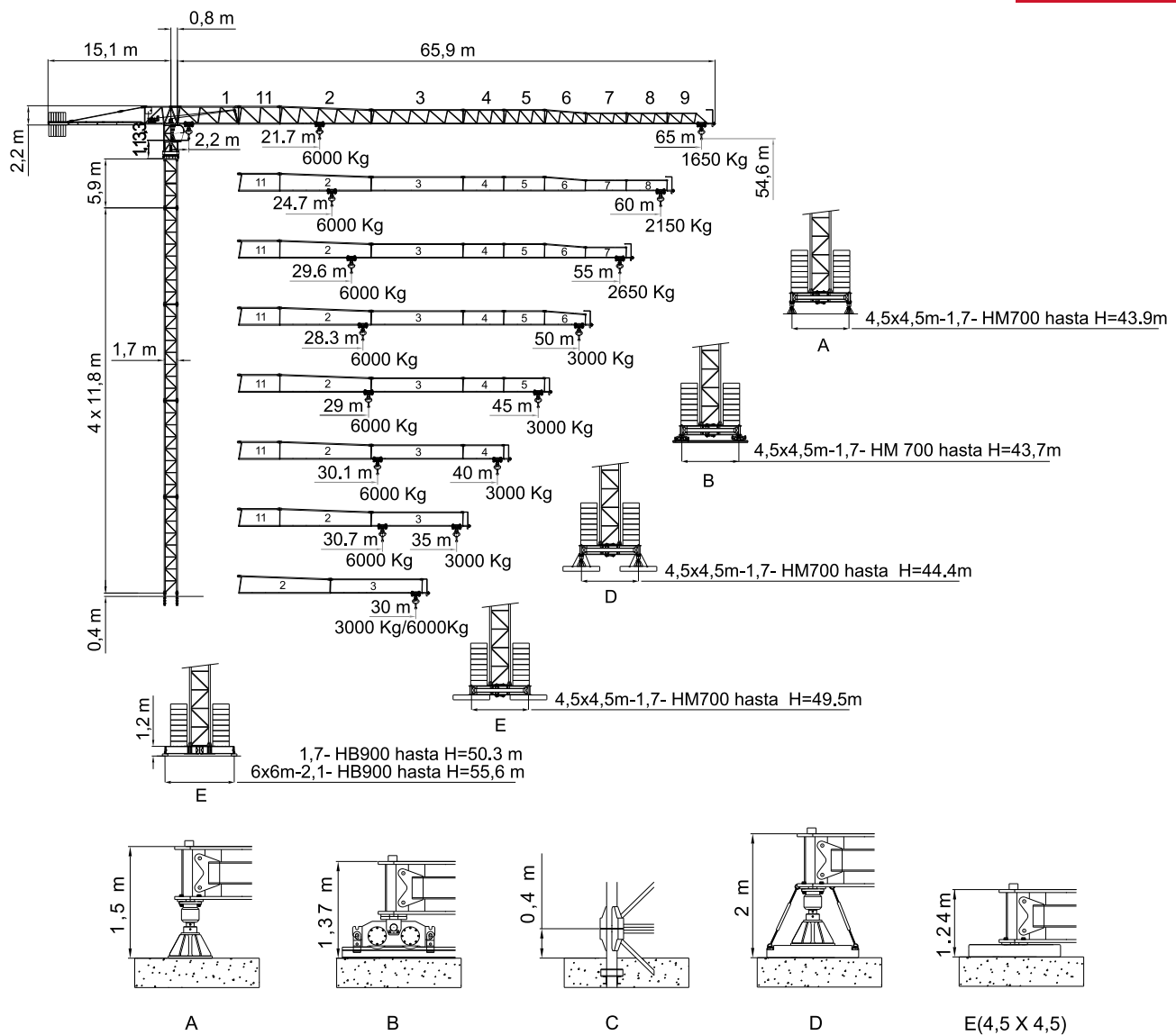


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TLS 656 '19





65 m 	10	15	20	25	30	35	40	40,7	45	50	55	60	65	m Kg m Kg	
	3000	3000	3000	3000	3000	3000	3000	3000	2630	2310	2050	1830	1650		
	10	15	20	21,7	25	30	35	40	45	50	55	60	65		
	6000	6000	6000	6000	5070	4090	3390	2880	2480	2160	1900	1680	1500		
60 m 	10	15	20	25	30	35	40	45	46,3	50	55	60	m Kg m Kg		
	3000	3000	3000	3000	3000	3000	3000	3000	3000	2690	2400	2150			
	10	15	20	24,7	25	30	35	40	45	50	55	60			
	6000	6000	6000	6000	5850	4730	3940	3360	2900	2540	2250	2000			
55 m 	10	15	20	25	30	35	40	45	49,5	50	55	m Kg m Kg			
	3000	3000	3000	3000	3000	3000	3000	3000	3000	2970	2650				
	10	15	20	25	26,9	30	35	40	45	50	55				
	6000	6000	6000	6000	6000	5210	4350	3710	3210	2820	2500				
50 m 	10	15	20	25	30	35	40	45	50	m Kg m Kg					
	3000	3000	3000	3000	3000	3000	3000	3000	3000						
	10	15	20	25	28,3	30	35	40	45			50			
	6000	6000	6000	6000	6000	5510	4610	3930	3410			3000			
45 m 	10	15	20	25	30	35	40	45	m Kg m Kg						
	3000	3000	3000	3000	3000	3000	3000	3000							
	10	15	20	25	29	30	35	40			45				
	6000	6000	6000	6000	6000	5640	4720	4030			3500				
40 m 	10	15	20	25	30	35	40	m Kg m Kg							
	3000	3000	3000	3000	3000	3000	3000								
	10	15	20	25	29,4	30	35			40					
	6000	6000	6000	6000	6000	5864	4910			4200					
35 m 	10	15	20	25	30	35	m Kg m Kg								
	3000	3000	3000	3000	3000	3000									
	10	15	20	25	29,8	30			35						
	6000	6000	6000	6000	6000	5970			5000						

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

Bloque de contrapeso, **Counterweight blocks**, Gegengewichtsblöcke, **Bloc de contrepoid**, Blocco di contrappeso

	65 m			60 m			55 m			50 m		
	A	B	C	A	B	C	A	B	C	A	B	C
	8	-	-	8	-	-	7	1	-	6	2	-
	20000 Kg			20000 Kg			19000 Kg			18000 Kg		
	45 m			40 m			35 m			30 m		
	A	B	C	A	B	C	A	B	C	A	B	C
	6	1	-	6	-	-	4	2	-	3	2	-
	16500 Kg			15000 Kg			13000 Kg			10500 Kg		

Mecanismos, **Mechanisms**, Antriebe, **Mécanismes**, Meccanismi.

33 Hp (24Kw) - 3vel. H.B.G. 94 Mts S/RØ 12								
	 285 m	m/min	7,4	37	74	3,7	18,5	37
		Kg	3000	3000	1500	6000	6000	3000
		Kw	24	24	24	24	24	24
		m/min	11 / 37 / 75			11 / 37 / 75		
		Kw	3,0			3,0		
		r.p.m	0,3	0,6	0,9	0,3	0,6	0,9
		Nm	2 x 65			2 x 65		
 		m/min	12 / 24			12 / 24		
		Kw	4 x 3			4 x 3		

* 33 Hp (24Kw) - INV.
H.B.G. 94 Mts S/R Ø12

		m/min	0 → 9	0 → 37	0 → 80	0 → 4,5	0 → 18,5	0 → 40
		Kg	3000	3000	1500	6000	6000	3000
		Kw	24	24	24	24	24	24

	400 V 50 Hz	100m 4x25mm ²
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GENERADOR	POTENCIA INSTALADA
150 kVA	46 KW

	380 V 60 Hz	100m 4x25mm ²
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OPCIONAL

* Opcional / Optional / Opzionale /

- Elevación / Hoisting / Heben / Levage / Sollevamento
- Distribución / Trolleying / Katzfahren / Distribution / Distributions
- Orientación / Slewing / Schwenken / Orientation / Rotazione
- Traslación / Travelling / Schienenfahren / Translation / Traslazione
- Cable / Rope / Seil / Câble / Fune

Windzone A-B / DIN 15019

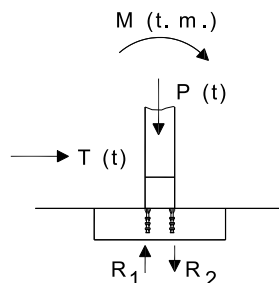
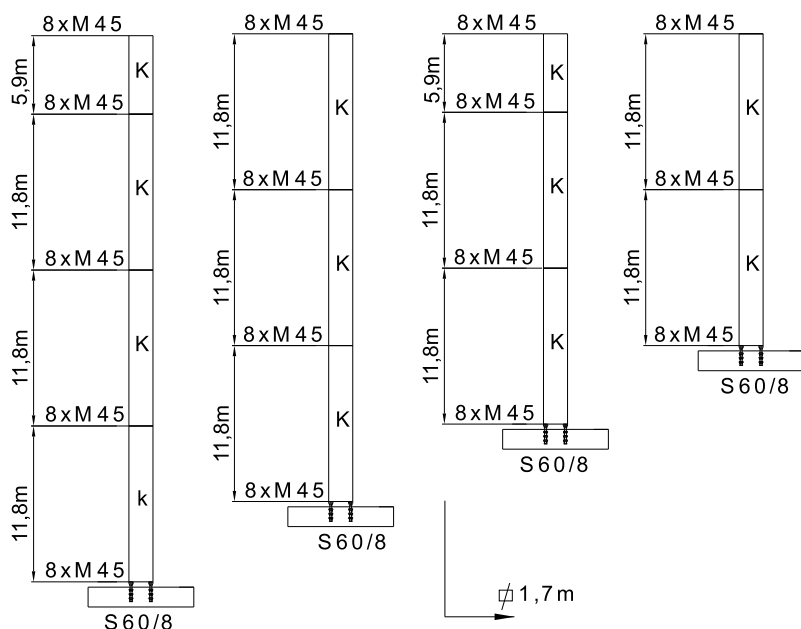
Mástil / Reacciones

Masts / Reactions

Maste / Eckdrücke

Mat / Réactions

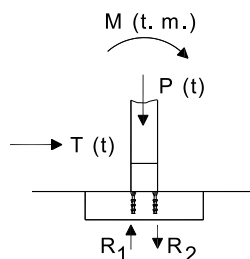
Torre / Reazioni



K = S17 8/8
L = S17 16/8
N = S17-S21 8/8
O = S21 8/8
P = S21 16/8

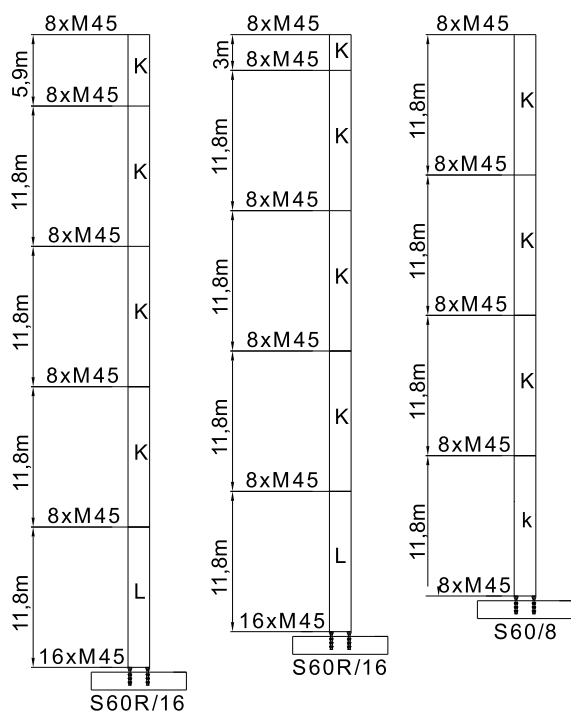
H (m)	42,8	36,9	31	25,1
M (T·m)	278,7	264,9	252,4	241,1
T (t)	8,8	7,9	7,0	6,1
P (t)	71,2	68,5	66,5	63,8
R ₁ (t)	113,6	107,8	102,4	97,8
R ₂ (t)	149,1	141,9	135,5	129,6

Windzone A-B / DIN 15019
Mástil / Reacciones
Masts / Reactions
Maste / Eckdrücke
Mat / Réactions
Torre / Reazioni

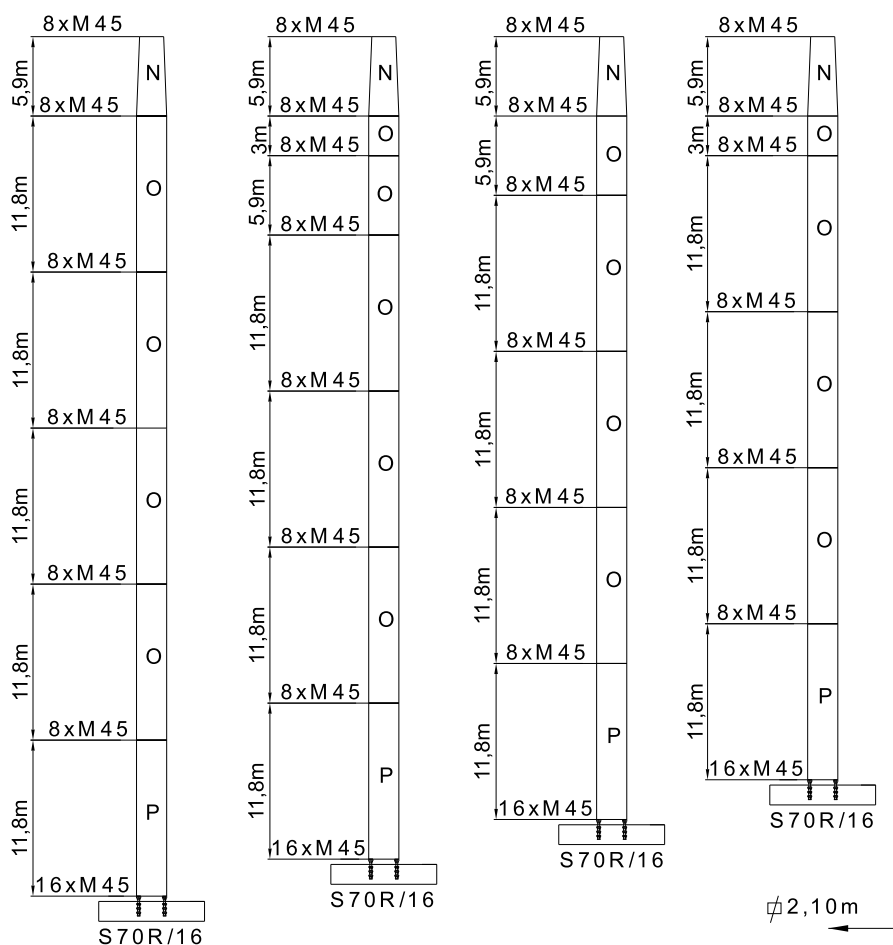


K = S17 8/8
L = S17 16/8
N = S17-S21 8/8
O = S21 8/8
P = S21 16/8

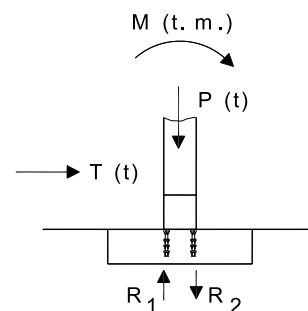
H (m)	54,6	51,7	48,7
M (T·m)	357,2	321,8	293,8
T (t)	10,6	10,1	9,7
P (t)	76,2	74,9	73,2
R ₁ (t)	151,4	135,0	120,3
R ₂ (t)	185,4	168,4	156,7



φ 1,7m



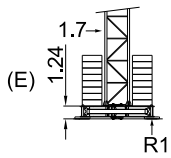
K = S17 8/8
L = S17 16/8
N = S21-S17 8/8
O = S21 8/8
P = S21 16/8



H (m)	66,4	63,5	60,5	57,6
M (T·m)	576,7	530,6	485,5	443,2
T (t)	13,3	12,7	12,2	11,8
P (t)	78,5	77,5	75,9	74,4
R ₁ (t)	192	175	159,1	144,1
R ₂ (t)	226,7	209,7	192,9	177,2

Windzone A-B / DIN 15019

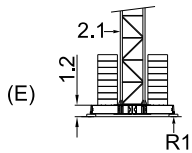
Bloque lastre de base , **Base ballast block**, Grundballastblöcke, **Bloc de lest de base**, Blocco di zavorra alla base



4,5 x 4,5 m-1,7- HM 700

R1 (t)	73,6 t	74,4 t	75,6 t	78,8 t	80 t	81,3 t
H (m)	20 m	23 m	25,9 m	28,9 m	31,8 m	34,8 m
Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

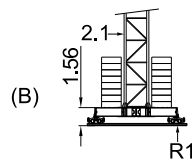
R1 (t)	82,4 t	86,7 t	88,1 t	94,4 t	95,3 t	
H (m)	37,7 m	40,7 m	43,6 m	46,6 m	49,5 m	
Z (t)	91,2 t	102,6 t	102,6 t	121,6 t	121,6 t	



6 x 6 m-2,1/1,7- HB 900

R1 (t)	46,5 t	49,1 t	53,8 t	62,5 t	71,9 t	
H (m)	26,2 m	32,1 m	38 m	41 m	44 m	
Z (t)	53,2 t	53,2 t	53,2 t	53,2 t	57 t	

R1 (t)	81,6 t	92,6 t	104,1 t	116,5 t		
H (m)	47 m	50 m	53 m	56 m		
Z (t)	68,4 t	76 t	87,4 t	95 t		

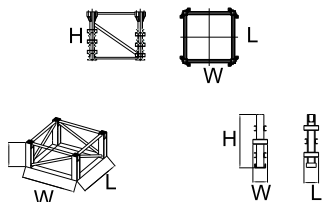
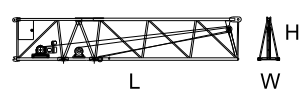
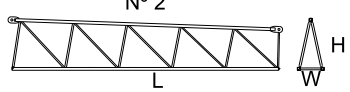
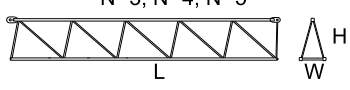
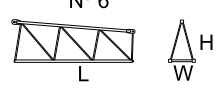
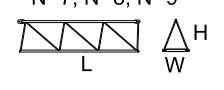
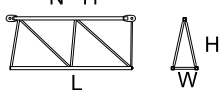
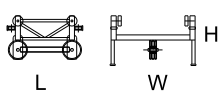
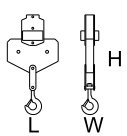
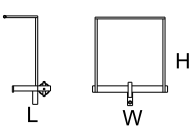
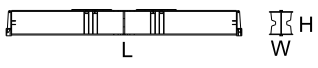


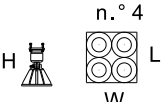
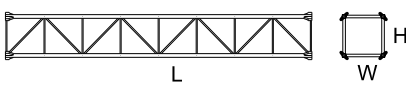
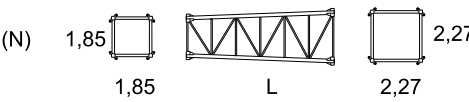
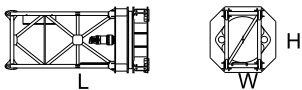
6 x 6 m-2,1/1,7- HB 900

R1 (t)	46,5 t	49,1 t	53,8 t	62,5 t	71,9 t	
H (m)	26,5 m	32,4 m	38,3 m	41,3 m	44,3 m	
Z (t)	53,2 t	53,2 t	53,2 t	53,2 t	57 t	

R1 (t)	81,6 t	92,6 t				
H (m)	47,3 m	50,3 m				
Z (t)	68,4 t	76 t				

		L(m)	W(m)	H(m)	Peso(Kg)
Contrapluma / Counter-jib / Gegenausleger / Contre-fleche / Controbraccio		11,94	1,80	0,60	2575
Bloque de contrapeso / Counterweight blocks / Gegengewichtsblöcke / Bloc de contrepoids / Blocco di contrappeso		3,20 1,83	1,25	0,29	2500 1500
Base Cruciforme 4,5 X4,5 / Crossbase 4,5 X 4,5 / Fundamentkreuz 4,5 X 4,5 / Châsis 4,5 X 4,5 / Carro base 4,5 X 4,5		6,70	1,10	1,20	5750
Vigas auxil. de base / Half base beams / Halbträger für fundamentkreuz / Semipoutre de châsis de base / Travi di congiunzioni di congiunzione		4,40	0,30	0,55	220
Bloque lastre de base / Base ballast block / Grundballastblöcke / Bloc de lest de base Blocco di zavorra alla base		4,40	0,30	1,20	3800
Bloque apoyo de base / Base support block / Grundballastblöcke / Bloc de appui de base Blocco di appoggio alla base		3,75	0,5	1,2	5400

		L(m)	W(m)	H(m)	Peso(Kg)			
Elemento de empotre / Foundation anchor / Fundamentanker / Élément de scellement El annegare				1,85				
		S60/R16	1,85	1,85	1,6	1108		
		S70/8	2,27	2,27	1,6	1122		
		S70R/16	2,27	2,27	1,6	1274		
		S75R 8 /20	0,35	0,35	1.6 (x4)	300		
		S75R16/22	0,5	0,5	2.5 (x4)	710		
		S75R16/26	0,5	0,5	2.5 (x4)	790		
		S75R24/26	0,5	0,5	2.5 (x4)	850		
		Dima	2,31	2,34	0,8	1650		
		Pluma tramo primero / Jib heel section / Ausleger-Anlenkstück / Pied de fleche / Settore articolato di braccio		11,90	1,25	2,30	5800	
Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück Elément interm. de fleche / Spezzone di braccio	    							
		2	11,60	1,13	2,25	2194		
		3	11,60	1,13	1,80	1720		
		4	5,30	1,13	1,80	620		
		5	5,30	1,13	1,80	530		
		6	5,30	1,13	1,80	470		
		7	5,30	1,13	1,45	376		
		8	5,30	1,13	1,45	326		
		9	5,15	1,13	1,40	248		
		11	5,15	1,13	2,25	1280		
		Gancho, Carro y Puntera / Hook, Trolley and jib head / Lasthaken - Laufkatze-Cabeça de Lança Crochet - Chariot-Pointe de fleche / Gancio - Carrello e Punta freccia	  					
Viga principal base 6x6 / Main base beam / Hauptträger für fundamentkruz Poutre de châssis de base / euz Trave principale della base		8,65	0,78	0,92	4300			
Semiviga secundaria base 6x6 / Half base beam / Halbträger für fundamentkruz Semipoutre de châssis de base / Semitrave secundaria della base		4,27	0,68	0,97	2025			

		L(m)	W(m)	H(m)	Peso(Kg)
Niveladores / Levellers / Spindel pyramide / Niveleurs / Piedi regolabile	 (x4)	1,20	1,20	0,90	250
Traslacion / Travelling bogies / Kranfahren / Traslation / Traslazione	 (x2)  (x2)	1,15 1,15	1,25 0,25	0,45 0,45	505 450
Elemento de torre TL16 / Tower section TL16 / Turmstück TL16 / Element de mât TL16 / Elemento di torre TL16	  (N) 1,85 1,85 L 2,27 2,27	K 11,8 K 5,9 K 3 L 11,8 O 11,8 O 5,9 O 3 P 11,8 N 5,9 X 6 T 6 U 6 Z 6	1,85 1,85 1,85 1,85 2,27 2,27 2,27 2,27 2,27 2,27 2,31 2,61	1,85 1,85 1,85 1,85 2,27 2,27 2,27 2,27 2,29 2,29 2,34 2,34	4600 2472 1425 5520 5044 2640 1545 5700 3500 4000 4300 5910 5980
Unidad de rotacion / Complete slewing unit / Drehbühne / Orientation / Rotazione		4,40	2,00	2,00	6600
Cabina y soporte / Cabin and support / Kabine und wartungs / Cabine et support / Cabina e supporto		3,00	1,15	2,35	558

ESPECIFICACIONES SUJETAS A MODIFICACIONES SIN PREVIO AVISO.

Specifications subject to modification without notice.

Obiges kann ohne berstaendigung geaendert werden.

Specifications susceptibles de modification sans avis préalable.

Specifiche suscettibili di variazioni senza preavviso.

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This information is supplied without liability.

Sämtliche Angaben erfolgen ohne Gewähr.

Ces renseignements sont sans garantie.

Le indicazioni contenute si intendono salvo errori ed omissioni.



UNE 58-101-92 FEM 1001-87
According to EC 98/37 instruction

Windzone A-B / DIN 15019

Viento max. fuerza de servicio 150km/h

Maximun wind speed out of service 150 km/h

Maximale windstärke, ohne Betrieb 150 km/h

Vent maximum, hors service 150 km/h

Vento max, fuori di servizio 150 km/h



SAEZ

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