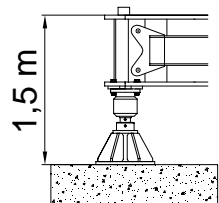
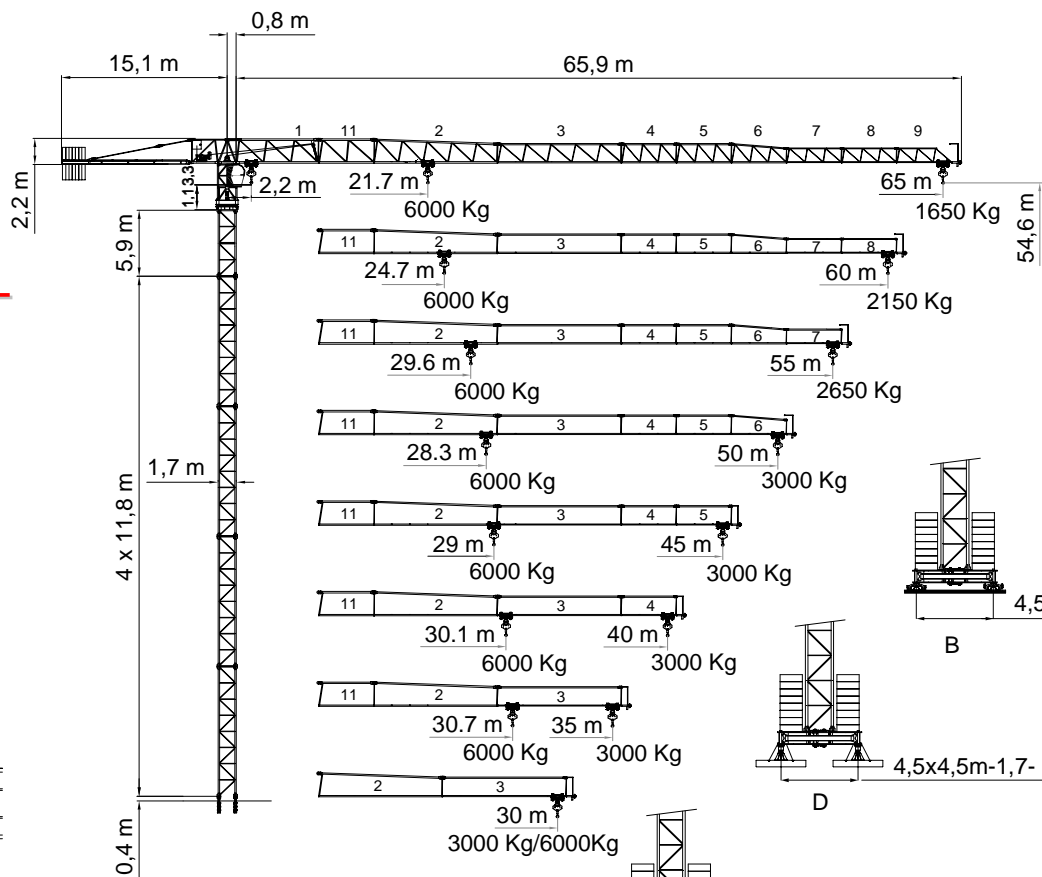
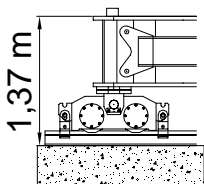




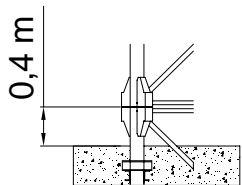
# TLS 65 3-6T



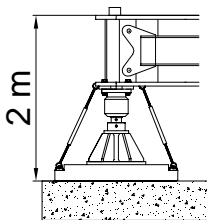
A



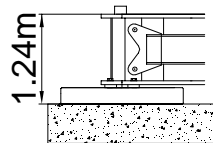
B



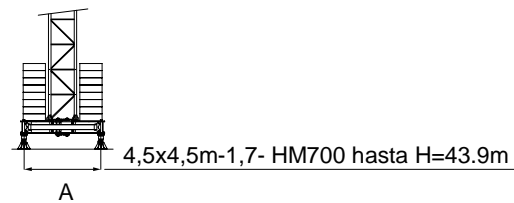
C



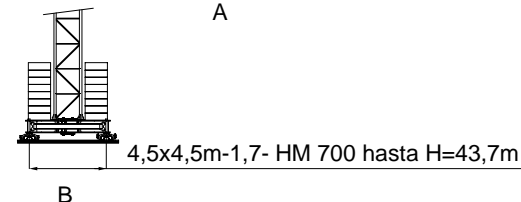
D



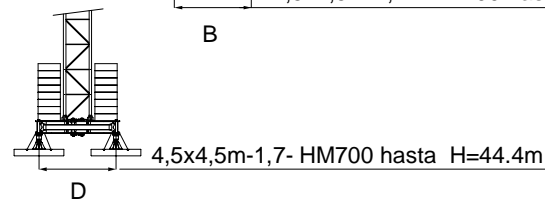
E(4.5x4.5)



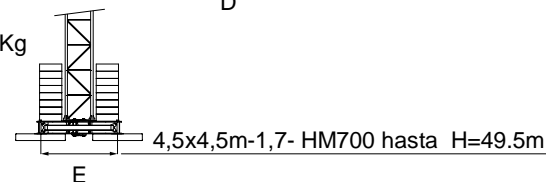
A



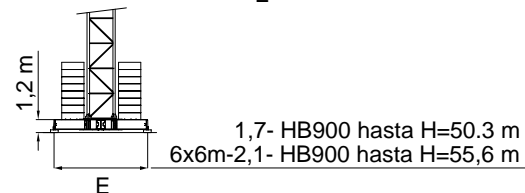
B



D



E



E















**DIN/FEM**   
EN 14439-FEM 1005-C25  
REV001-ABRIL 2011

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

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

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

45 m 	10	15	20	25	30	35	40	45	m Kg		
	3000	3000	3000	3000	3000	3000	3000	3000			
	10	15	20	25	29	30	35	40	45	m Kg	
	6000	6000	6000	6000	6000	5640	4720	4030	3500		
40 m 	10	15	20	25	30	35	40	m Kg			
	3000	3000	3000	3000	3000	3000	3000				
	10	15	20	25	29,4	30	35	40	m Kg		
	6000	6000	6000	6000	6000	5864	4910	4200			
35 m 	10	15	20	25	30	35	m Kg				
	3000	3000	3000	3000	3000	3000					
	10	15	20	25	29,8	30	35	m Kg			
	6000	6000	6000	6000	6000	5970	5000				
30 m 	10	15	20	25	30	m Kg					
	3000	3000	3000	3000	3000						
	10	15	20	25	30	m Kg					
	6000	6000	6000	6000	6000						

**Mecanismos  
Mechanisms  
Antriebe  
Mécanismes  
Meccanismi**

33 Hp (24Kw) - 3vel.  
H.B.G. 94 Mts S/R Ø12

	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

	285 m	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

\* Opcional / Optional / Opzionale /

Elevación / Hoisting / Heben / Levage / Sollevamento

Distribución / Trolleying / Katzfahren / Distribution / Diritubuzione

Orientación / Slewing / Schwenken / Orientation / Rotazione

Traslacion / Travelling / Schienenfahren / Translation / Traslazione

Cable / Rope / Seil / Câble / Fune

	400 V 50 Hz	100m 4x25mm <sup>2</sup>
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
GENERADOR
150 kVA


POTENCIA INSTALADA
46 KW

	380 V 60 Hz	100m 4x25mm <sup>2</sup>
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OPCIONAL

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

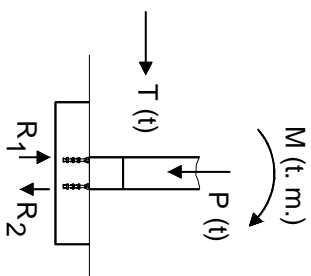
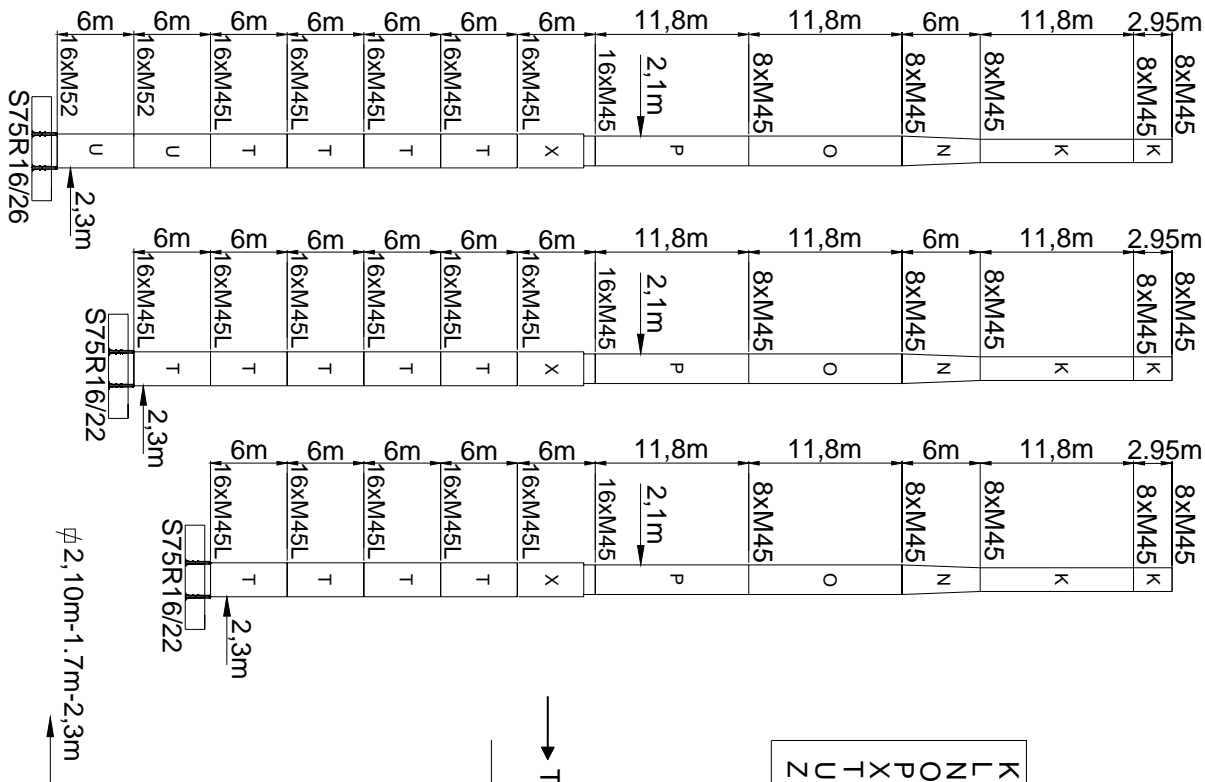
	65 m			60 m			55 m			50 m		
	A	B	C	A	B	C	A	B	C	A	B	C
	8	-	-	8	-	-	7	1	-	6	2	-
	20000 Kg			20000 Kg			19000 Kg			18000 Kg		

	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		

**FEM 1005-C25 / EN 14439**

**Mástil / Reacciones**  
**Masts / Reactions**  
**Maste / Eckdrücke**  
**Mat / Réactions**  
**Torre / Reazioni**

H (m)	86.5	80.5	74.5
M (T.m)	1387.6	1180	970.2
T (t)	27.6	24.6	22
P (t)	102.7	94	89.4
R1(t)	453	383.6	312.3
R2(t)	-504.3	-430.7	-350

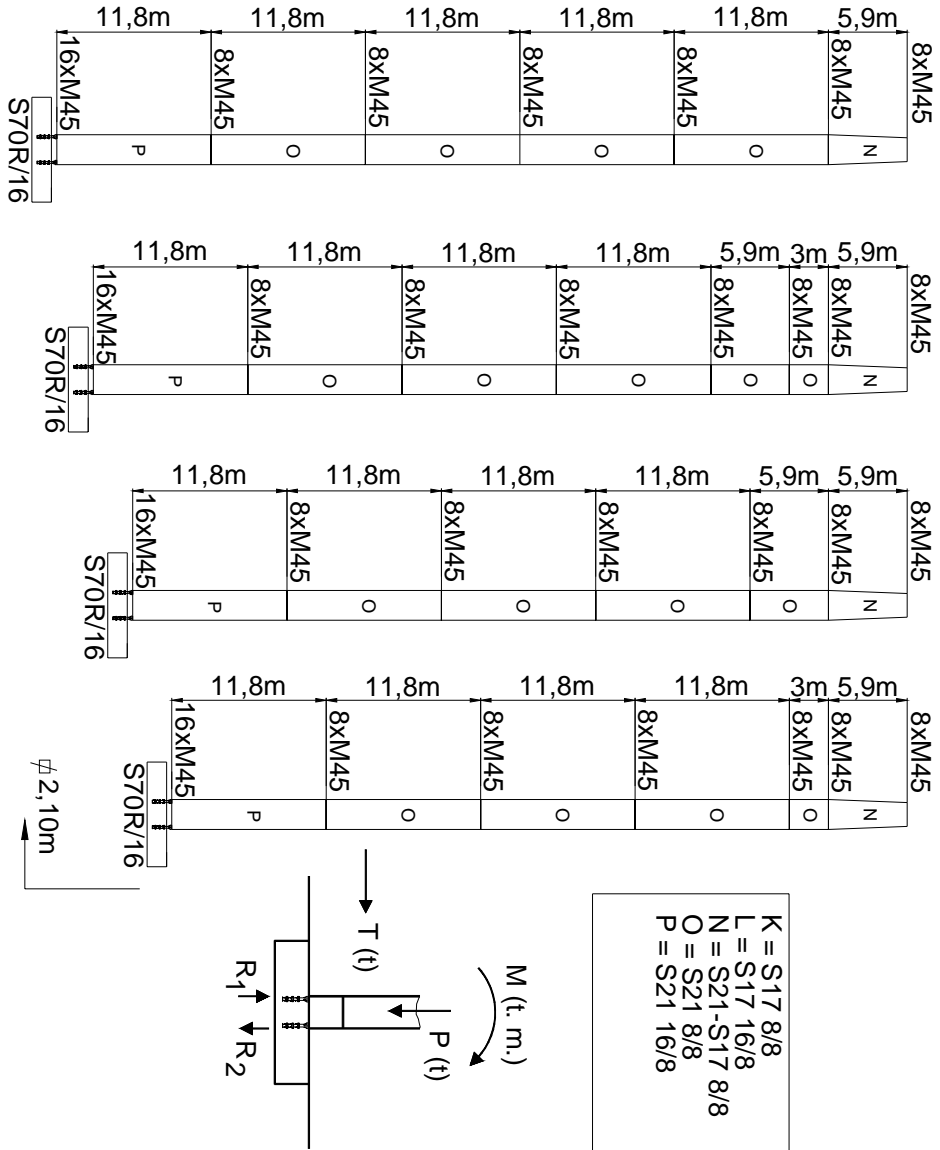


- K = S17 8/8
- L = S17 16/8
- N = S21-S17 8/8
- O = S21 8/8
- P = S21 16/8
- X = C2322/21 16/16 M45/M45L
- T = S2322 16/16 M45L
- U = S2326 16/16 M52/M45L
- Z = S2326 24/16L M52

FEM 1005-C25 / EN 14439

Mástil / Reacciones  
 Masts / Reactions  
 Mast / Eckdrücke  
 Torre / Reazioni

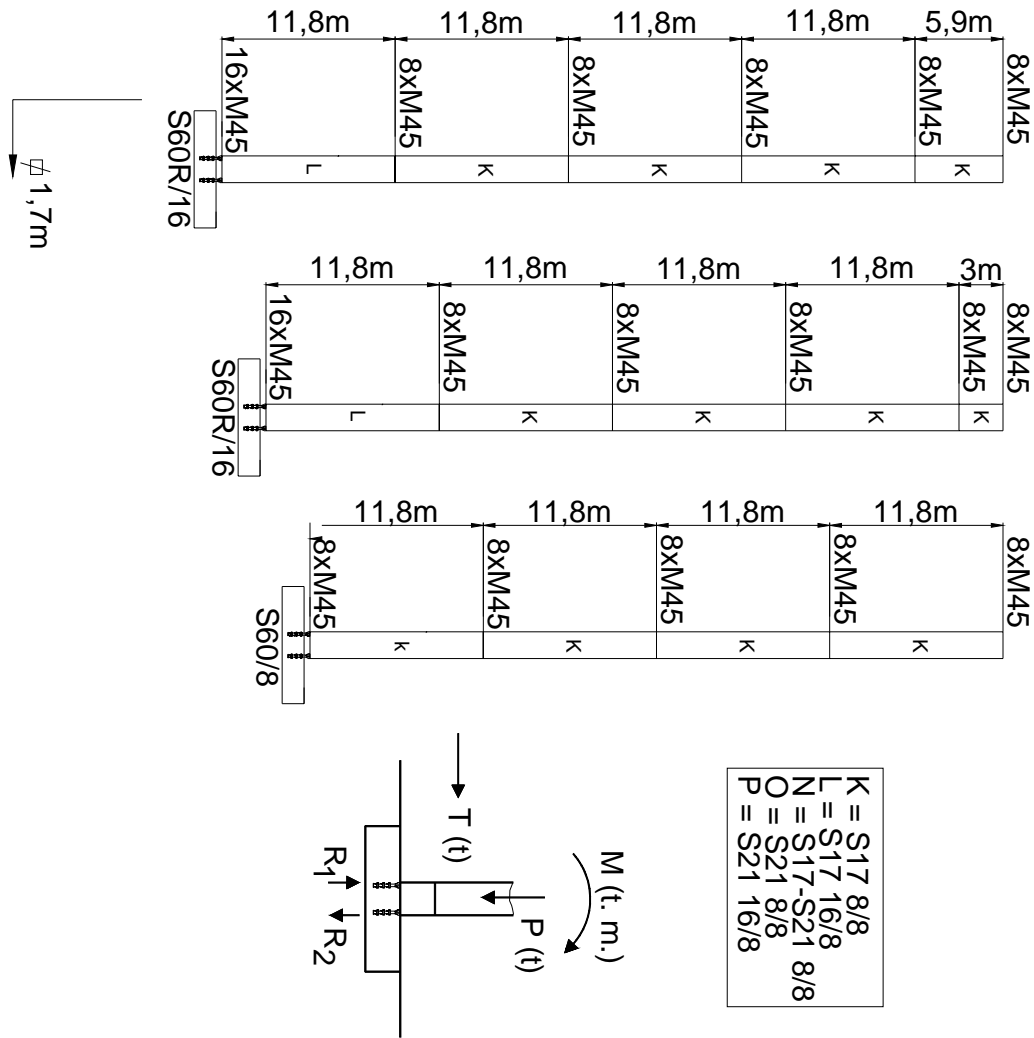
H (m)	66,4	63,5	60,5	57,6
M (T.m)	764,2	708,9	657,6	611,2
T (t)	17,5	17	16,4	15,8
P (t)	85,5	83,9	82,6	81,4
R1(t)	258,2	238,6	221,3	204,5
R2(t)	-296	-275,5	-256,5	-238,7



**FEM 1005-C25 / EN 14439**

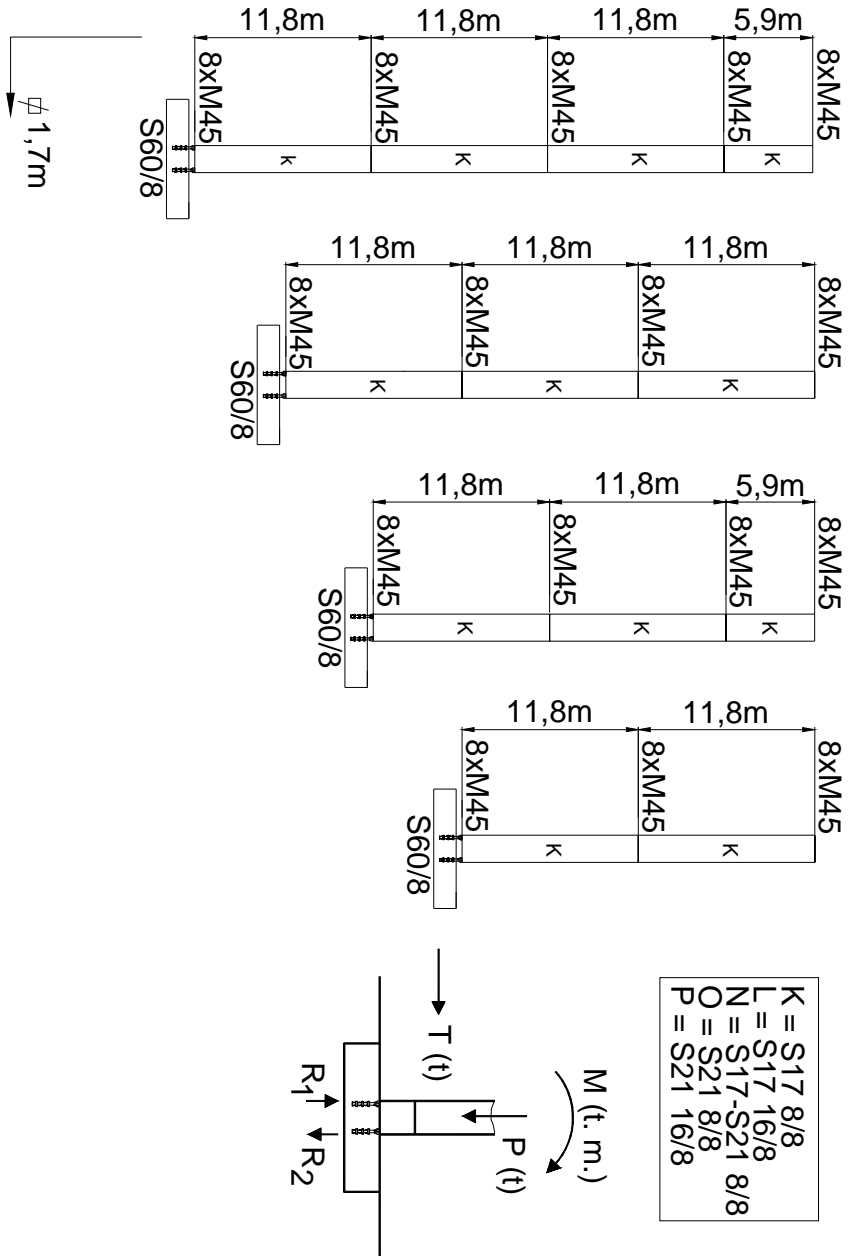
Mástil / Reacciones  
 Masts / Reactions  
 Mast / Eckdrücke  
 Mat / Réactions  
 Torre / Reazioni

H (m)	54,6	51,7	48,7
M (T·m)	615.2	564.5	518.3
T (t)	12.3	11.6	11.2
P (t)	62.8	58.9	57.7
R <sub>1</sub> (t)	274.2	251.3	223
R <sub>2</sub> (t)	-305.7	-280.8	-258.7





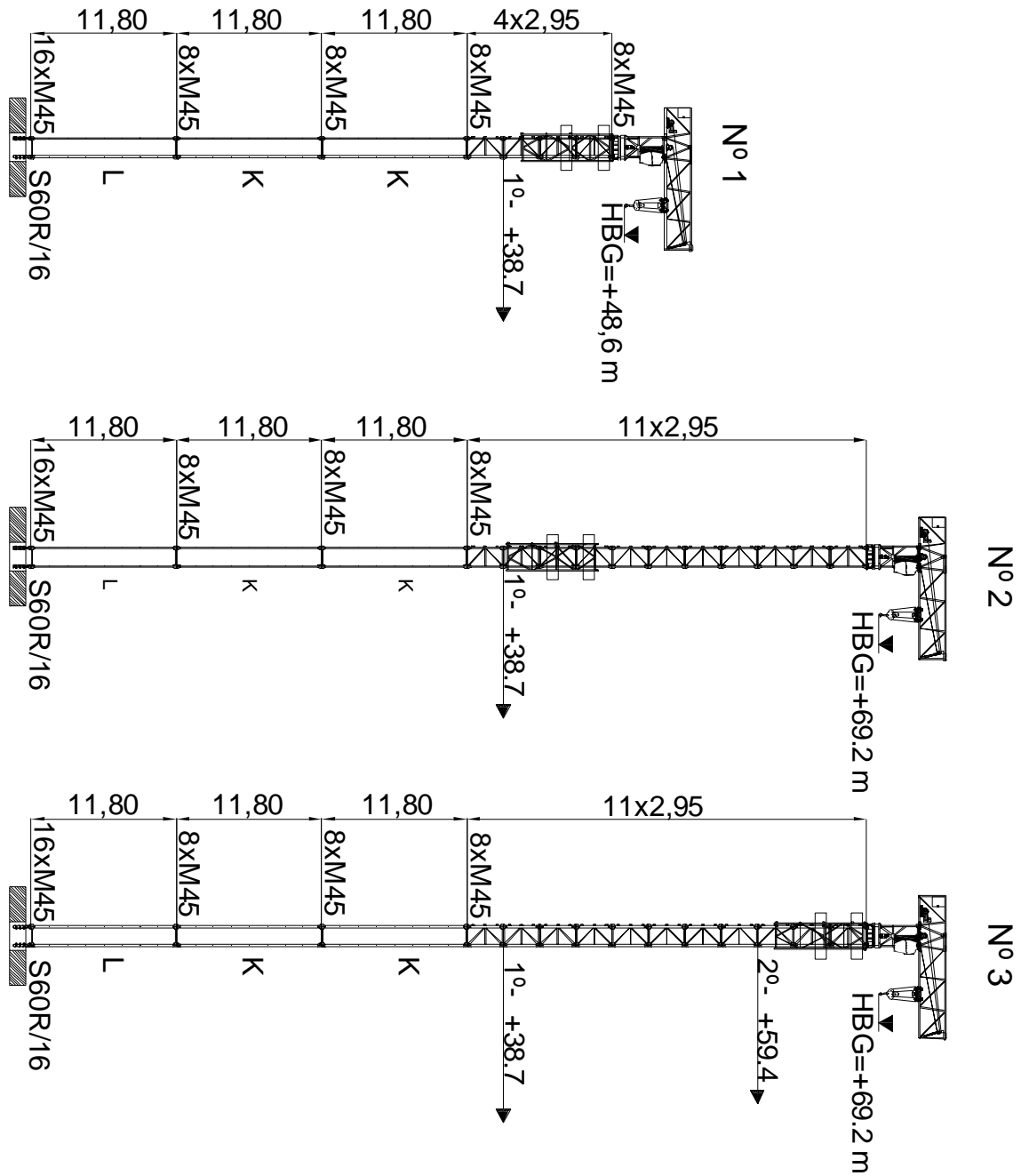
Mástil / Reacciones  
 Masts / Reactions  
 Mast / Eckdrücke  
 Mat / Réactions  
 Torre / Reazioni



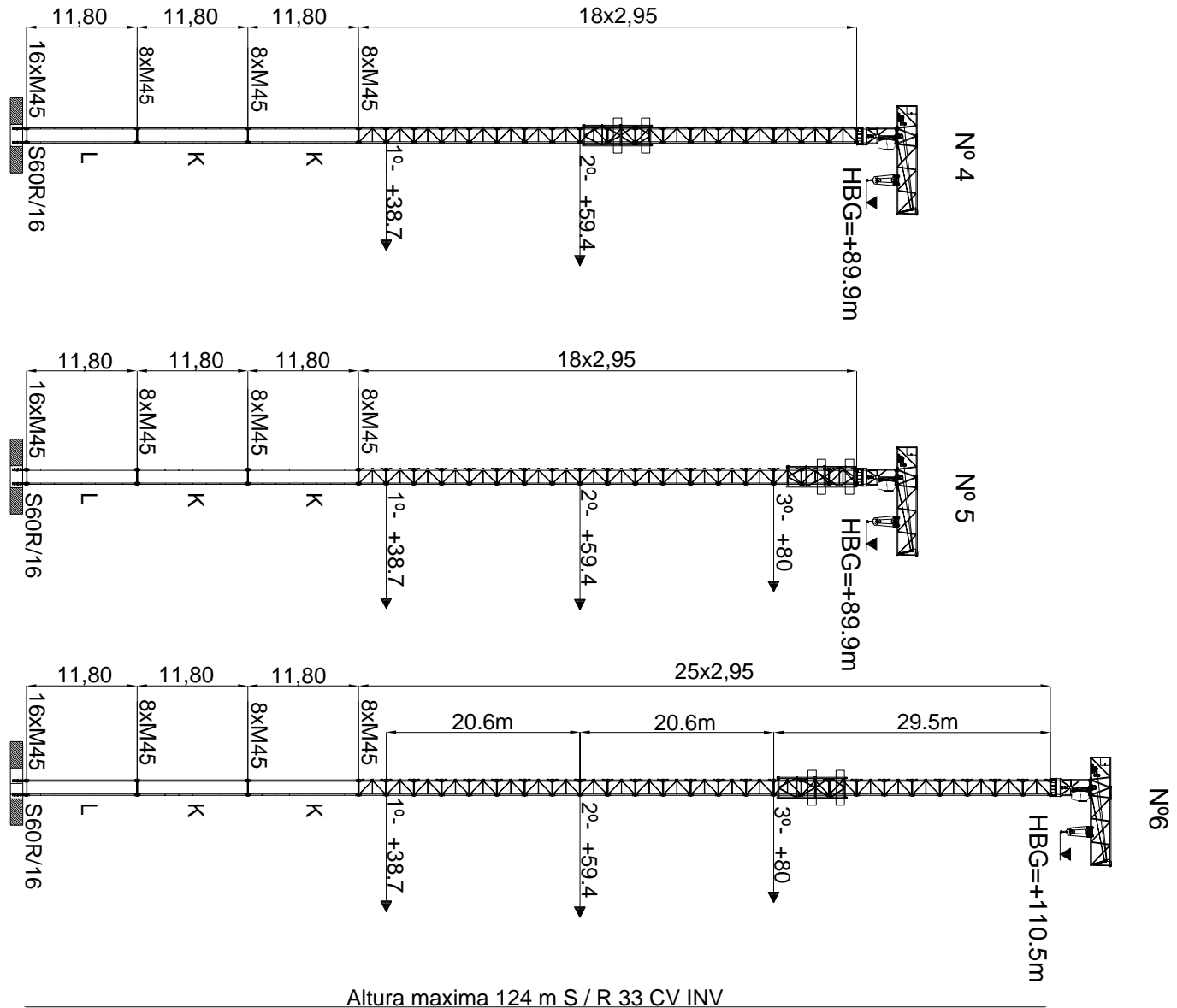
H (m)	42,8	36,9	31	25,1
M (T·m)	419,6	352	281,3	232,4
T (t)	9,7	8,8	7,4	6,2
P (t)	55,6	53,5	51,4	45,3
R <sub>1</sub> (t)	184	152,5	119,7	98,2
R <sub>2</sub> (t)	-211,7	-179,2	-145,4	-120,8

# TLS 65 3-6 T

Proceso de trepado  
 External climbing  
 Kletterkrane  
 Telescopable  
 Sopralzo idraulico



Proceso de trepado  
 External climbing  
 Kletterkrane  
 Telescopable  
 Sopralzo idraulico



**TLS 65 3-6 T**



# TLS 65 3-6 T

## FEM 1005-C25 / EN 14439

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

(A)

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)	20,3 m	23,3 m	26,2 m	29,2 m	32,1 m	35,1 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

4,5 x 4,5 m-1,7-HM 700	R1 (t)	82,4 t	86,7 t	103 t
	H (m)	38 m	41 m	43,9 m
	Z (t)	91,2 t	106,4 t	106,4t

(B)

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)	20,1 m	23,1 m	26 m	29 m	31,9 m	34,9 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

4,5 x 4,5 m-1,7-HM 700	R1 (t)	82,4 t	86,7 t	103 t
	H (m)	37,8 m	40,8 m	43,7 m
	Z (t)	91,2 t	106,4 t	106,4t

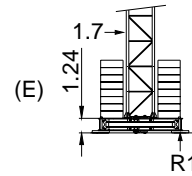
(D)

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)	20,8 m	23,8 m	26,7 m	29,7 m	32,6 m	35,6 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

4,5 x 4,5 m-1,7-HM 700	R1 (t)	82,4 t	86,7 t	103 t
	H (m)	38,5 m	41,5 m	44,4 m
	Z (t)	91,2 t	106,4 t	106,4t

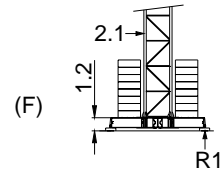
# FEM 1005-C25 / EN 14439

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



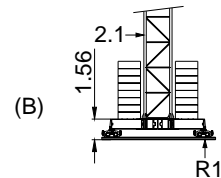
4,5 x 4,5 m-1,7- HM 700	R1 (t)	73,6 t	74,4 t	75,6 t	78,8 t	80 t	81,3 t
	H (m)	20 m	23 m	25,9 m	28,9 m	31,8 m	34,8 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

4,5 x 4,5 m-1,7- HM 700	R1 (t)	82,4 t	86,7 t	103 t	125 t
	H (m)	37,7 m	40,7 m	43,6 m	46,6 m
	Z (t)	91,2 t	106,4 t	106,4 t	121,6 t



6 x 6 m-2,1/1,7- HB 900	R1 (t)	44 t	46.1 t	52 t	59.8 t	77.7 t
	H (m)	18.8 m	24.7 m	30.6 m	36.5 m	42.4 m
	Z (t)	45.6 t	45.6 t	45.6 t	60.5 t	68.4 t

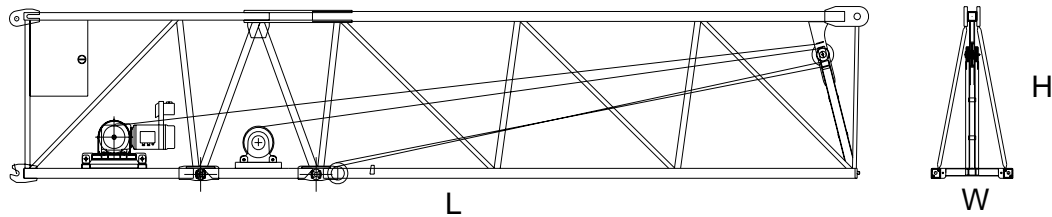
6 x 6 m-2,1/1,7- HB 900	R1 (t)	104 t	115.8 t
	H (m)	48.3 m	51.2 m
	Z (t)	91.2 t	98.8 t



6 x 6 m-2,1/1,7- HB 900	R1 (t)	44 t	46.1 t	52 t	59.8 t	77.7 t
	H (m)	18.8 m	24.7 m	30.6 m	36.5 m	42.4 m
	Z (t)	45.6 t	45.6 t	45.6 t	60.5 t	68.4 t

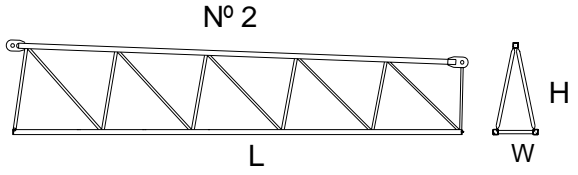
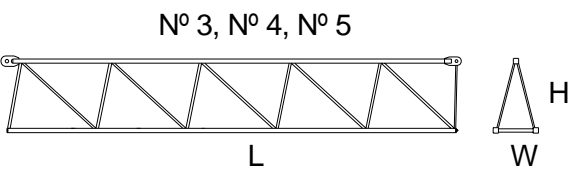
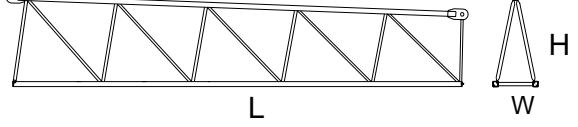
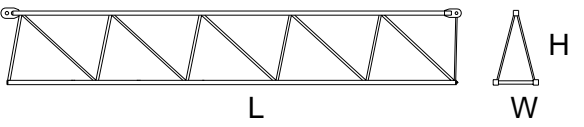
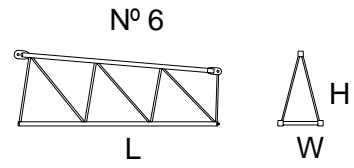
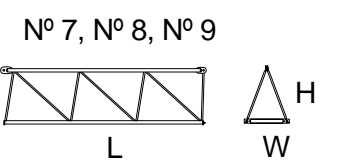
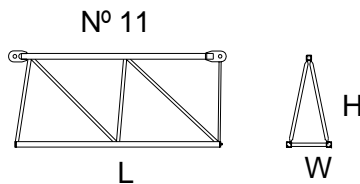
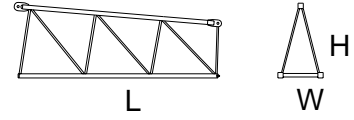
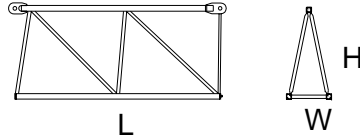
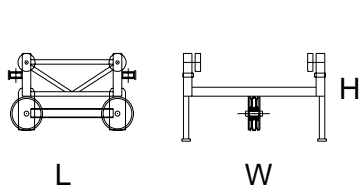
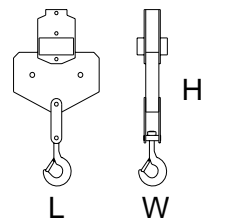
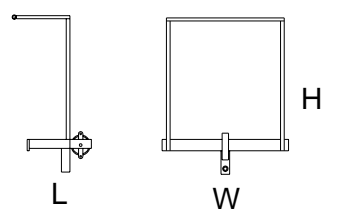
6 x 6 m-2,1/1,7- HB 900	R1 (t)	104 t
	H (m)	48.3 m
	Z (t)	91.2 t

Pluma tramo primero / Jib heel section / Ausleger-Anlenkstück / Pied de fleche /  
Settore articolato di braccio



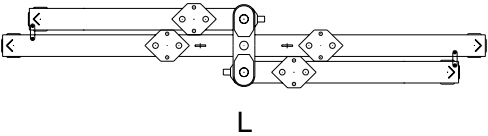
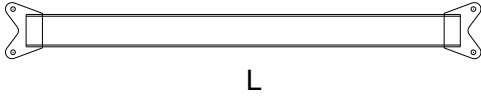
L(m)	W(m)	H(m)	Peso(Kg)
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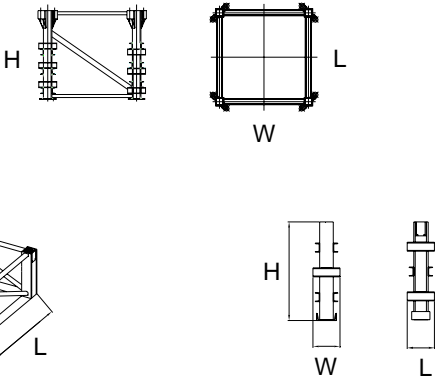
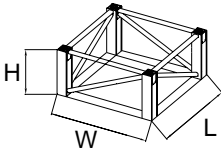
11,90	1,25	2,30	5800
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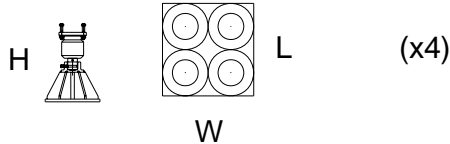
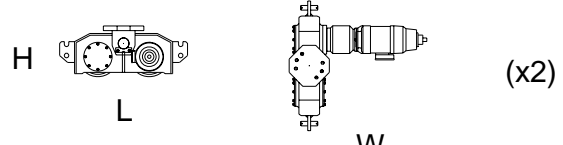
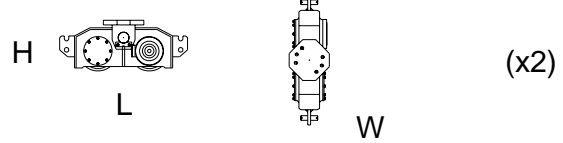
	L(m)	W(m)	H(m)	Peso(Kg)	
<p>Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück            Élément interm. de fleche / Spezzone di braccio</p>					
 <p>N° 2</p>	2	11,60	1,13	2,25	2194
 <p>N° 3, N° 4, N° 5</p>	3	11,60	1,13	1,80	1720
	4	5,30	1,13	1,80	620
	5	5,30	1,13	1,80	530
 <p>N° 6</p>	6	5,30	1,13	1,80	470
 <p>N° 7, N° 8, N° 9</p>	7	5,30	1,13	1,45	376
 <p>N° 11</p>	8	5,30	1,13	1,45	326
	9	5,15	1,13	1,40	248
	11	5,15	1,13	2,25	1280
<p>Gancho, Carro y Puntera / Hook, Trolley and jib head / Lasthaken - Laufkatze-Cabeça de Lança            Crochet - Chariot-Pointe de fleche / Gancio - Carrello e Punta freccia</p>					
	1,20	1,35	0,80	290	
	0,80	0,15	1,50	330	
	0,80	1,20	1,40	108	

	L(m)	W(m)	H(m)	Peso(Kg)
<p>Contrapluma / Counter-jib / Gegenausleger / Contre-fleche / Controbraccio</p>	11,94	1,80	0,60	2575
<p>Bloque de contrapeso / Counterweight blocks / Gegengewichtsblöcke / Bloc de contrepoids / Blocco di contrappeso</p>	3,20 1,83	1,25	0,29	2500 1500

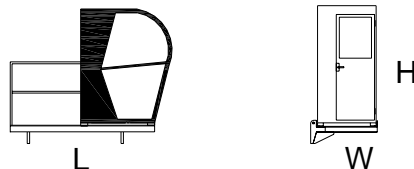
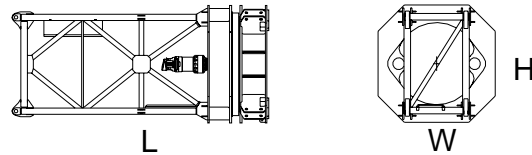
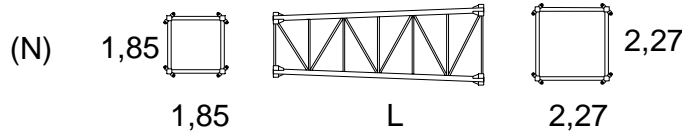
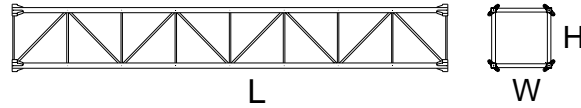


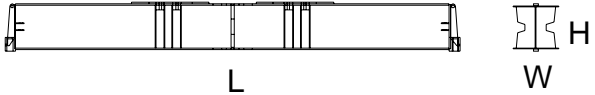
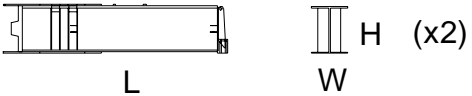
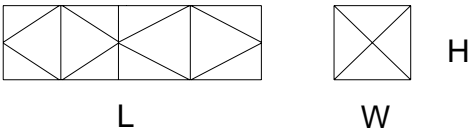
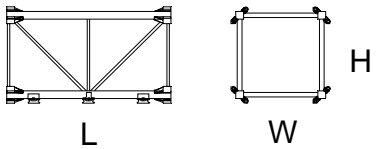
	L(m)	W(m)	H(m)	Peso(Kg)
<p>Base Cruciforme 4,5 X4,5 / Crossbase 4,5 X 4,5 / Fundamentkreuz 4,5 X 4,5 / Châsis 4,5 X 4,5 / Carro base 4,5 X 4,5</p> 	6,70	1,10	1,20	5750
<p>Vigas auxili. de base / Half base beams / Halbträger für fundamentkreuz / Semipoutre de châsis de base / Travi di congiunzi di congiunzione</p> 	4,40	0,30	0,55	220

		L(m)	W(m)	H(m)	Peso(Kg)	
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	
Elemento de empotre / Foundation anchor / Fundamentanker / Élément de scellement El anegare 		S60/8	1,85	1,85	1,6	956
		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
		S75R16/20	0.35	0.35	1.6	1200
		S75R16/22	0.5	0.5	2	2840
		S75R16/26	0.5	0.5	2.4	3160
		S75R24/26	0.5	0.5	2.4	3400
Dima 		Dima	2.31	2.34	0.8	1650

	L(m)	W(m)	H(m)	Peso(Kg)
<p>Niveladores / Levellers / Spindel pyramide / Niveleurs / Piedi regolabile</p> <p>n.º 4</p> 	1,20	1,20	0,90	250
<p>Traslacion / Travelling bogies / Kranfahren / Traslacion / Traslazione</p> 	1,15	1,25	0,45	505
	1,15	0,25	0,45	450

	L(m)	W(m)	H(m)	Peso(Kg)
Elemento de torre TL16 / Tower section TL16 / Turmstück TL16 / Element de mât TL16 / Elemento di torre TL16	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
	O 11,8	2,27	2,27	5044
	O 5,9	2,27	2,27	2640
	O 3	2,27	2,27	1545
	P 11,8	2,27	2,27	5700
	N 5,9			3500
	X 6	2,27	2,29	4000
	T 6	2,27	2,29	4300
	U 6	2,31	2,34	5910
	Z 6	2,61	2,34	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



	L(m)	W(m)	H(m)	Peso(Kg)
<p>Viga principal base 6x6 / Main base beam / Hauptträger für fundamentkreuz Poutre de châssis de base / Trave principale della base</p> 	8,65	0,78	0,92	4300
<p>Semiviga secundaria base 6x6 / Half base beam / Halbträger für fundamentkreuz Semipoutre de châssis de base / Semitrave secundaria della base</p> 	4,27	0,68	0,97	2025
<p>Caja de trepado-S17 / Climbing cage / Hydraulikbühne Cage de montage / Gabbia di montaggio</p> 	7,35	2,1	2,1	6400
<p>Tramo trepador / Tower element / Turmstück Element de mature / Elemento di torre monolitico</p> 	3	1,85	1,85	1425

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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Ces renseignements sont sans garantie.

Le indicazioni contenute si intendono salvo errori ed omissioni.