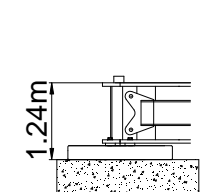
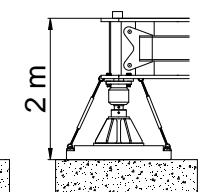
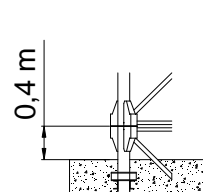
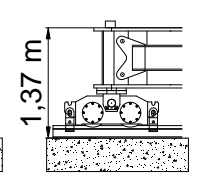
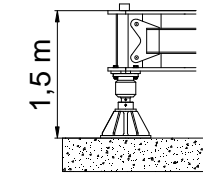
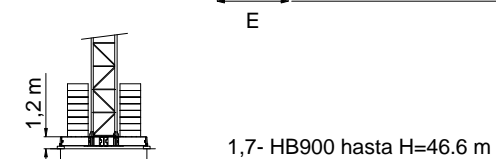
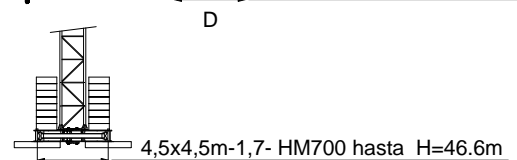
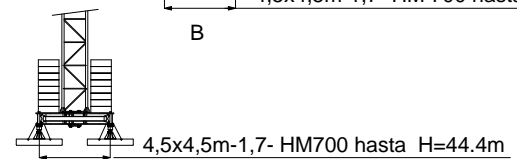
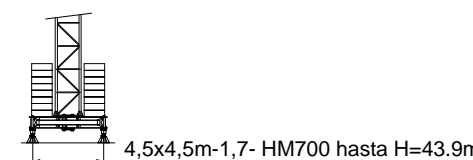
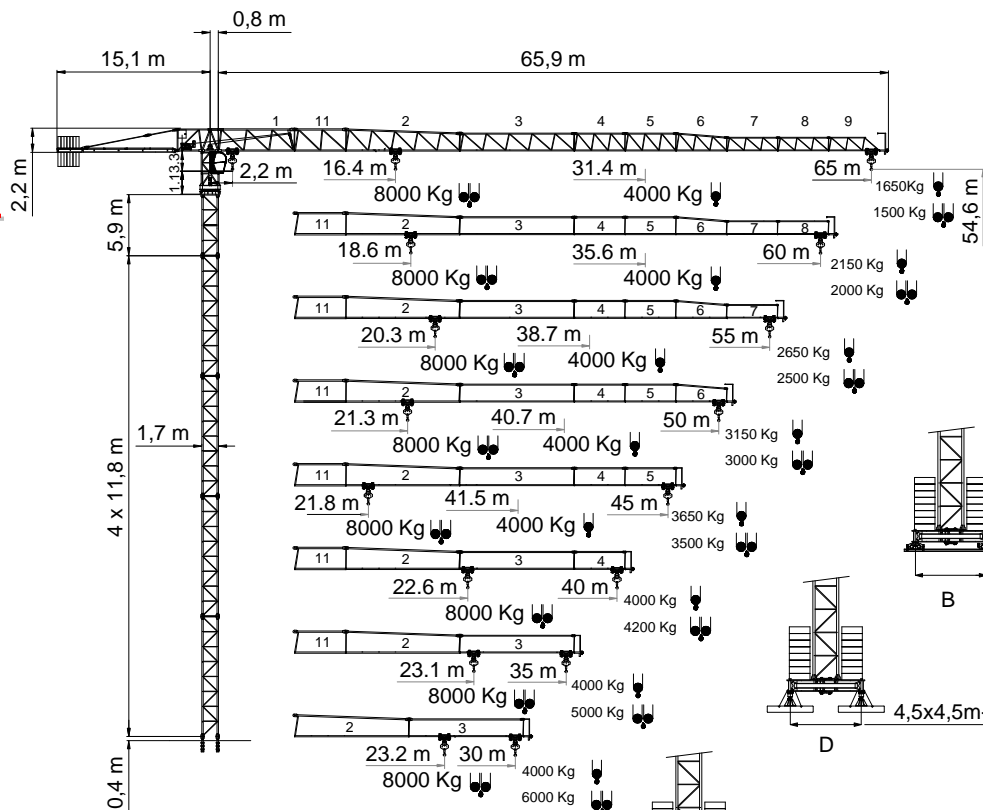




# TLS 65 4-8T



A

B(OPTIONAL)

C

D

E(4.5x4.5)

F































**DIN/FEM CE**

EN 14439-FEM 1005- C25  
REV. FEBRERO 002- 2011

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

65 m 	10	15	20	25	30	31,45	35	40	45	50	55	60	65	m	
	4000	4000	4000	4000	4000	4000	3530	3020	2620	2300	2040	1830	1650	Kg	
	10	15	18	20	25	30	35	40	45	50	55	60	65	m	
	4000	4000	4000	4000	4000	4000	3330	2830	2440	2130	1880	1680	1500	Kg	
60 m 	10	15	20	25	30	35	35,6	40	45	50	55	60	m		
	4000	4000	4000	4000	4000	4000	4000	3500	3050	2690	2390	2150	Kg		
	10	15	20	25	30	34,2	35	40	45	50	55	60	m		
	4000	4000	4000	4000	4000	4000	3890	3320	2880	2520	2240	2000	Kg		
55 m 	10	15	20	25	30	35	38,7	40	45	50	55	m			
	4000	4000	4000	4000	4000	4000	4000	3860	3360	2970	2650	Kg			
	10	15	20	25	30	35	37,3	40	45	50	55	m			
	4000	4000	4000	4000	4000	4000	4000	3680	3200	2810	2500	Kg			
50 m 	10	15	20	25	30	35	40	40,7	45	50	m				
	4000	4000	4000	4000	4000	4000	4000	4000	3560	3150	Kg				
	10	15	20	25	30	35	39,3	40	45	50	m				
	4000	4000	4000	4000	4000	4000	4000	3920	3410	3000	Kg				
50 m 	10	15	20	25	30	35	40	45	50	m					
	4000	4000	4000	4000	4000	4000	4000	4000	3560	3150	Kg				
	10	15	20	21,3	25	30	35	40	45	50	m				
	8000	8000	8000	8000	6710	5450	4570	3920	3410	3000	Kg				

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

45 m 	10	15	20	25	30	35	41.5	45		m	
	4000	4000	4000	4000	4000	4000	4000	3650		Kg	
	10	15	20	25	30	35	40	40.1	45	m	
	4000	4000	4000	4000	4000	4000	4000	4000	3500	Kg	
	10	15	20	21.8	25	30	35	40	45	m	
	8000	8000	8000	8000	6880	5600	4690	4020	3500	Kg	
40 m 	10	15	20	25	30	35	40			m	
	4000	4000	4000	4000	4000	4000	4000			Kg	
	10	15	20	22	25	30	35	40		m	
	4000	4000	4000	4000	4000	4000	4000	4000		Kg	
	10	15	20	22,6	25	30	35	40		m	
	8000	8000	8000	8000	7170	5840	4900	4200		Kg	
35 m 	10	15	20	25	30	35				m	
	4000	4000	4000	4000	4000	4000				Kg	
	10	15	20	22	25	30	35			m	
	4000	4000	4000	4000	4000	4000	4000			Kg	
	10	15	20	23,1	25	30	35			m	
	8000	8000	8000	8000	7320	5960	5000			Kg	
30 m 	10	15	20	25	30					m	
	4000	4000	4000	4000	4000					Kg	
	10	15	20	22	25	30				m	
	4000	4000	4000	4000	4000	4000				Kg	
	10	15	20	23,2	25	30				m	
	8000	8000	8000	8000	7370	6000				Kg	

**Mecanismos  
Mechanisms  
Antriebe  
Mécanismes  
Meccanismi**

45 Hp (33Kw) - CC-5V  
H.B.G 126Mts S/R Ø12  
H.B.G LEBUS 320Mts S/R Ø12

▲ ● ▼	 350 m LEBUS 734 m	m/min	0--45.7	0--52	0--81	0--117	0--23,7	0--26	0--40	0--58
		Kg	4000	3000	2000	1250	8000	6000	4000	2500
		Kw	33	33	33	33	33	33	33	33

45 Hp (33Kw) - INV-5V  
H.B.G 126Mts S/R Ø12  
H.B.G LEBUS 320Mts S/R Ø12

▲ ● ▼	 350 m LEBUS 734 m	m/min	0--6.3	0--42	0--56	0--76.4	0--104	0--15	0--21	0--28	0--38	0--52
		Kg	4000	4000	3000	2000	1250	8000	8000	6000	4000	2500
		Kw	33	33	33	33	33	33	33	33	33	33

◀■▶	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		

- \* Opcional / Optional / Opzionale /
- Elevación / Hoisting / Heben / Levage / Sollevamento
- ◀■▶ Distribución / Trolleying / Katzfahren / Distribution / Diritubione
- Orientación / Slewing / Schwenken / Orientation / Rotazione
- ◀●▶ Traslacion / Travelling / Schienenfahren / Translation / Traslazione
- ▬ Cable / Rope / Seil / Câble / Fune

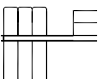
 2000/14/CEE 2005/88/CEE	 2006/95 /CEE	400 V 50 Hz	100m 4x35mm <sup>2</sup>
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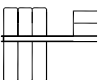
GENERADOR	POTENCIA INSTALADA
300 kVA	60 KW

 2000/14/CEE 2005/88/CEE	 2006/95 /CEE	380 V 60 Hz	100m 4x35mm <sup>2</sup>
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OPCIONAL

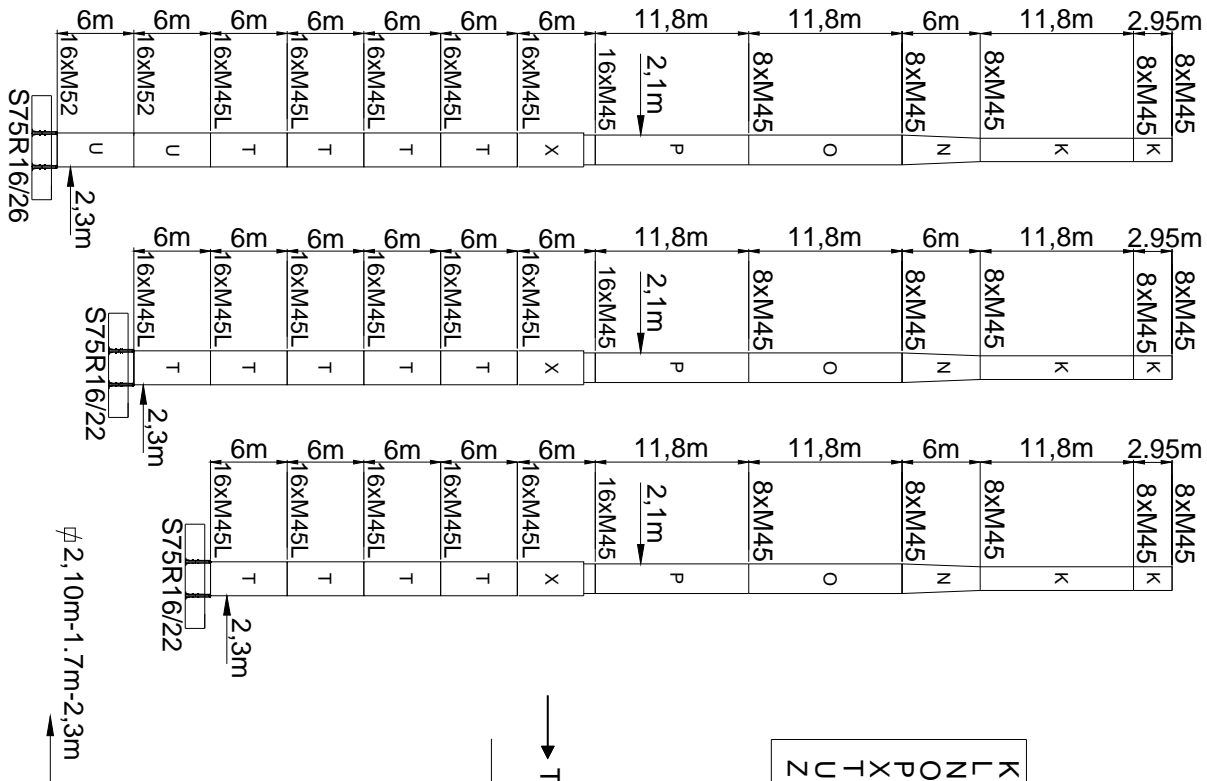
**Bloque de contrapeso**  
**Counterweight blocks**  
**Gegengewichtsblöcke**  
**Bloc de contrepoid**  
**Blocco di contrappeso**

	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		

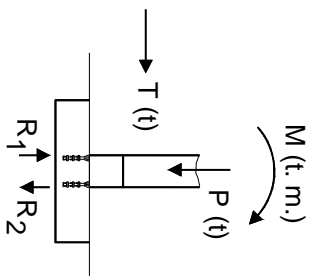
	45 m			40 m			35 m			30 m		
	A	B	C	A	B	C	A	B	C	A	B	C
	6	1	-	6	-	-	4	2	-	3	2	-
	16500 Kg			15000 Kg			13000 Kg			10500 Kg		

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



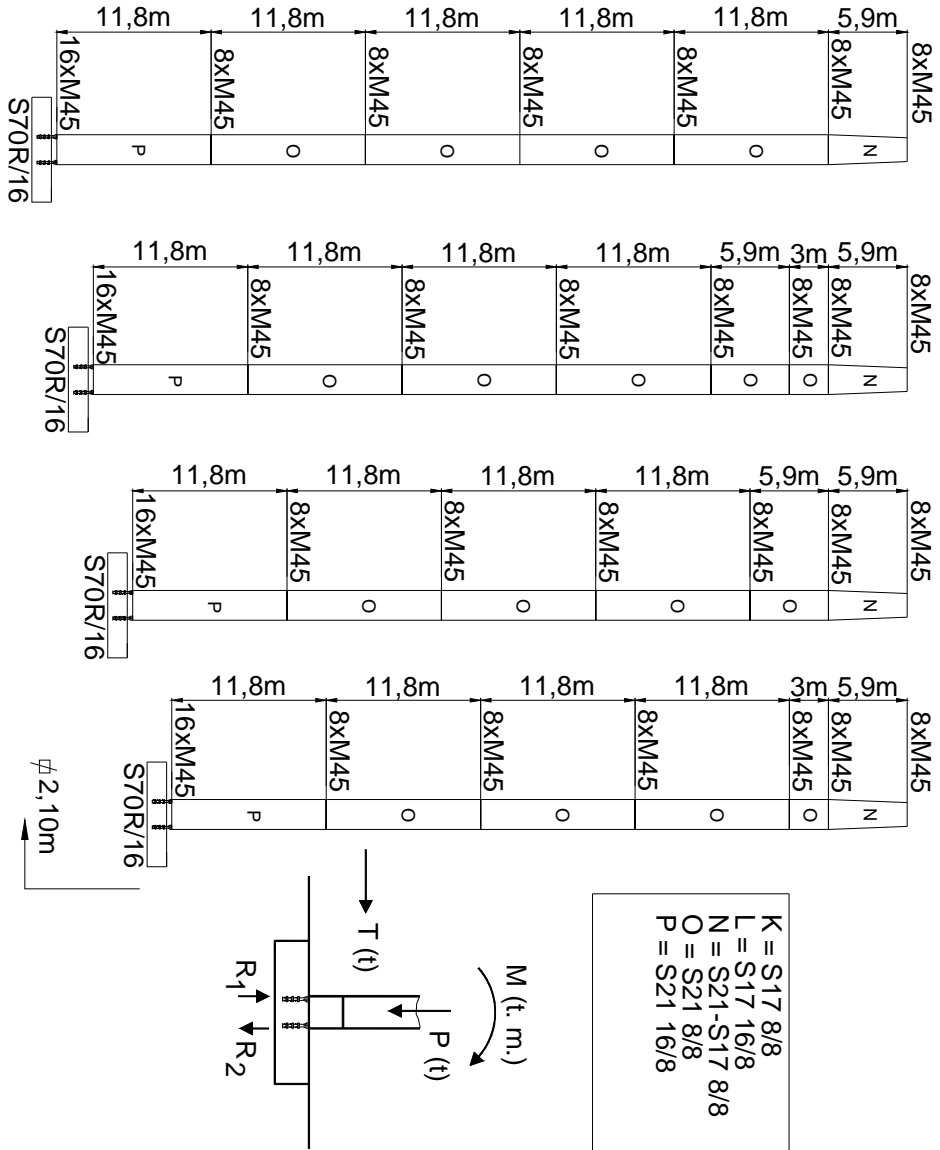
- K = S17 8/8
- L = S17 16/8
- N = S21-S17 8/8
- O = S21 8/8
- P = S21 16/8
- X = C2322/21 16/16 M45/M45L
- T = S2322 16/16 M45L
- U = S2326 16/16 M52/M45L
- Z = S2326 24/16L M52



FEM 1005-C25 / EN 14439

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

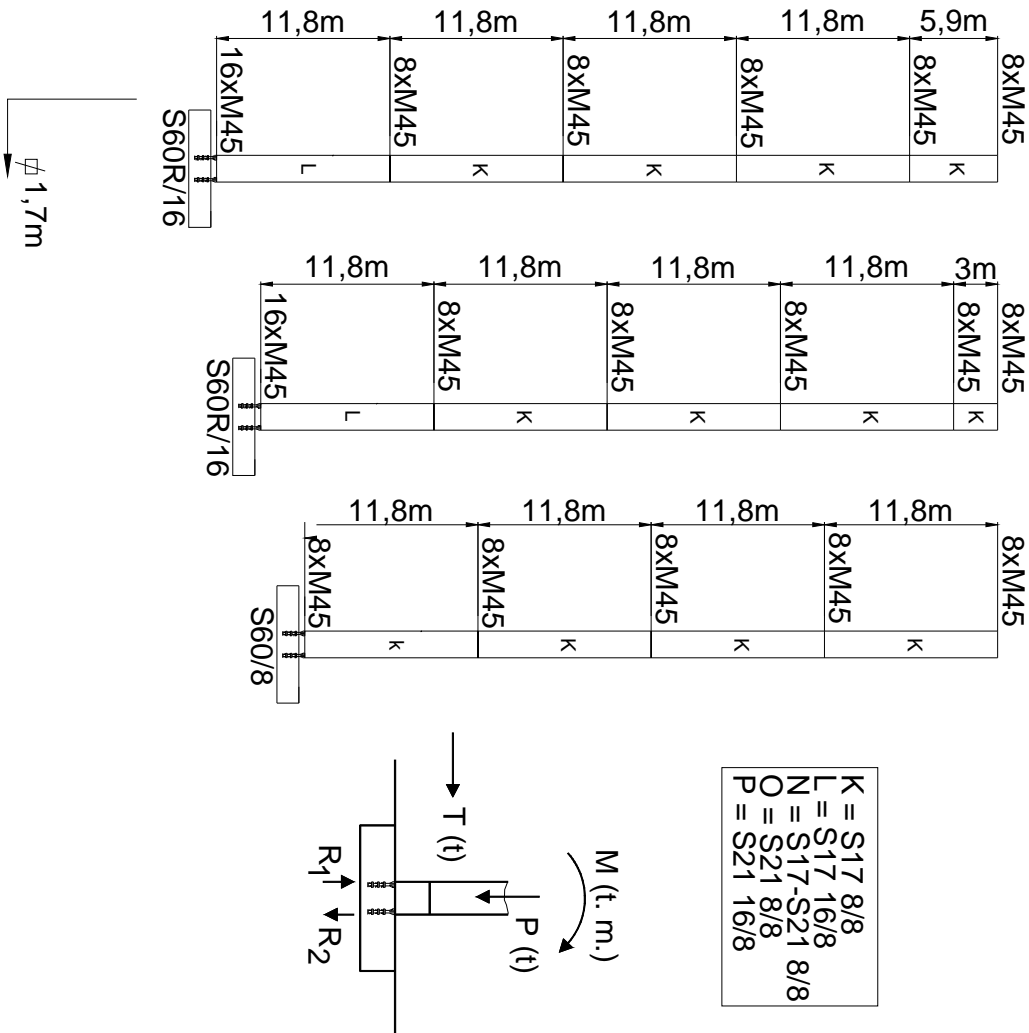
H (m)	66,4	63,5	60,5	57,6
M (T.m)	764,2	708,9	657,6	611,2
T (t)	17,5	17	16,4	15,8
P (t)	85,5	83,9	82,6	81,4
R1(t)	258,2	238,6	221,3	204,5
R2(t)	-296	-275,5	-256,5	-238,7



FEM 1005-C25 / EN 14439

Mástil / Reacciones  
 Masts / Reactions  
 Maste / 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
R1 (t)	274.2	251.3	223
R2 (t)	-305.7	-280.8	-258.7

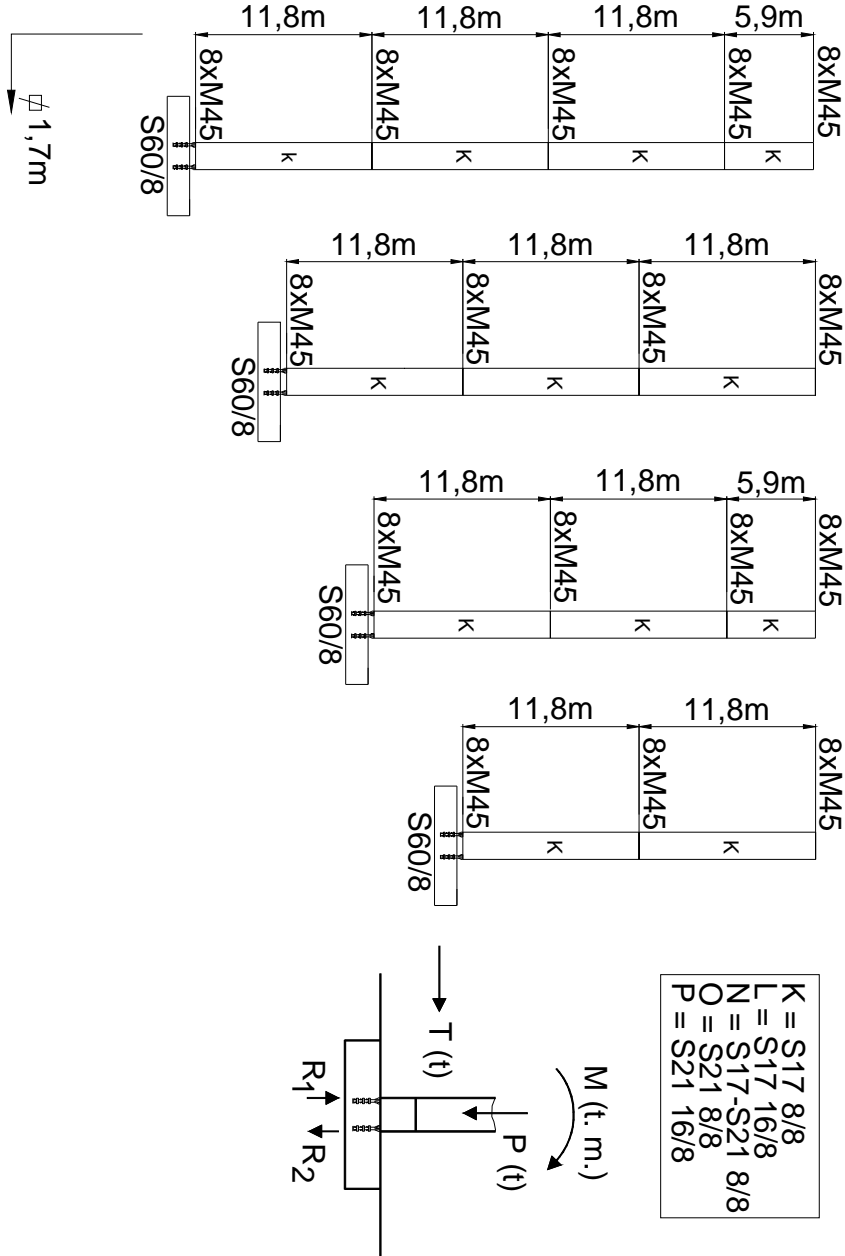




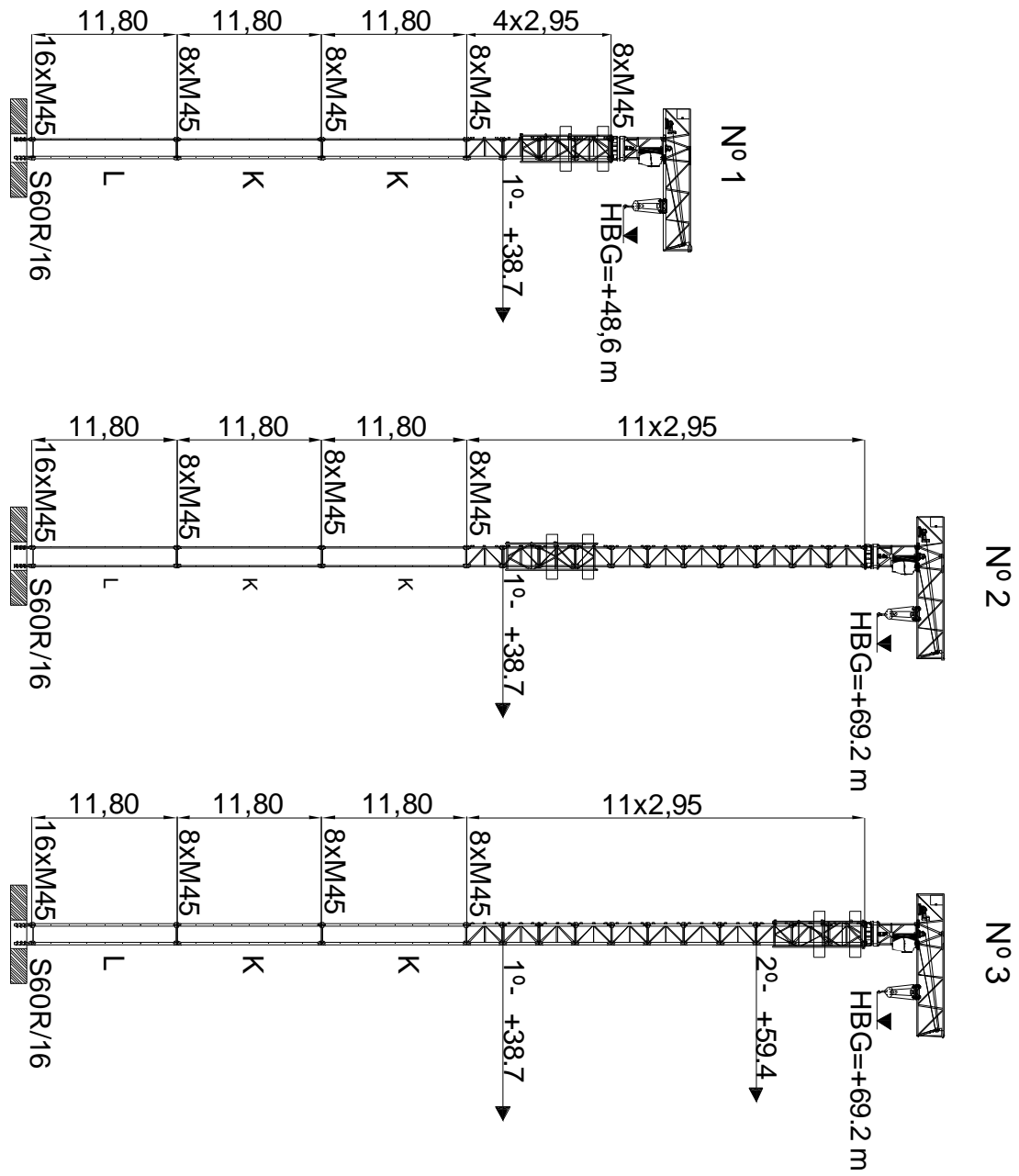
FEM 1005-C25 / EN 14439

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

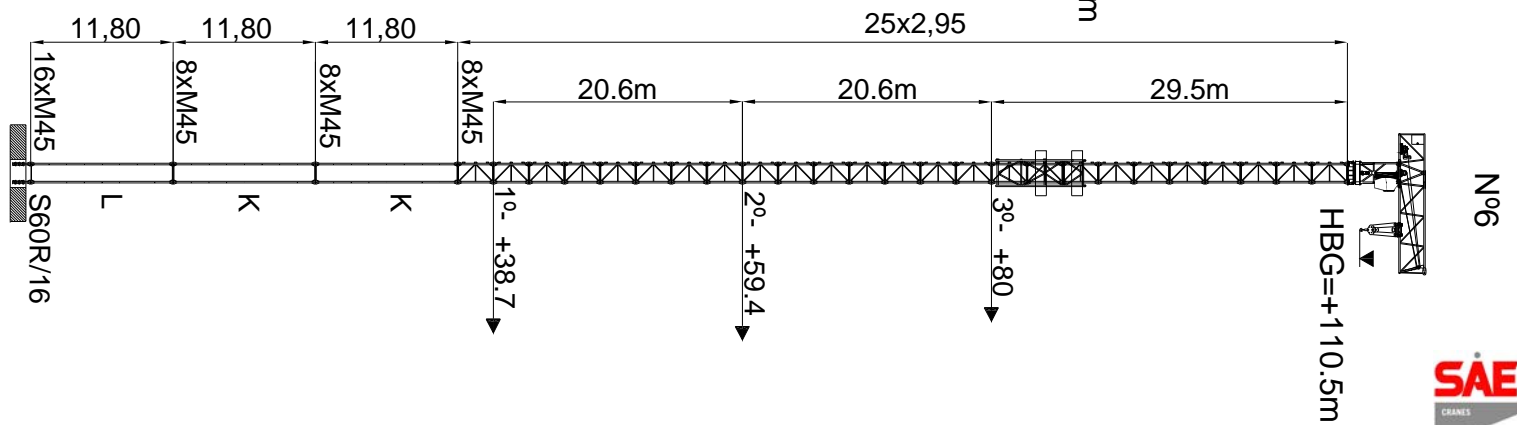
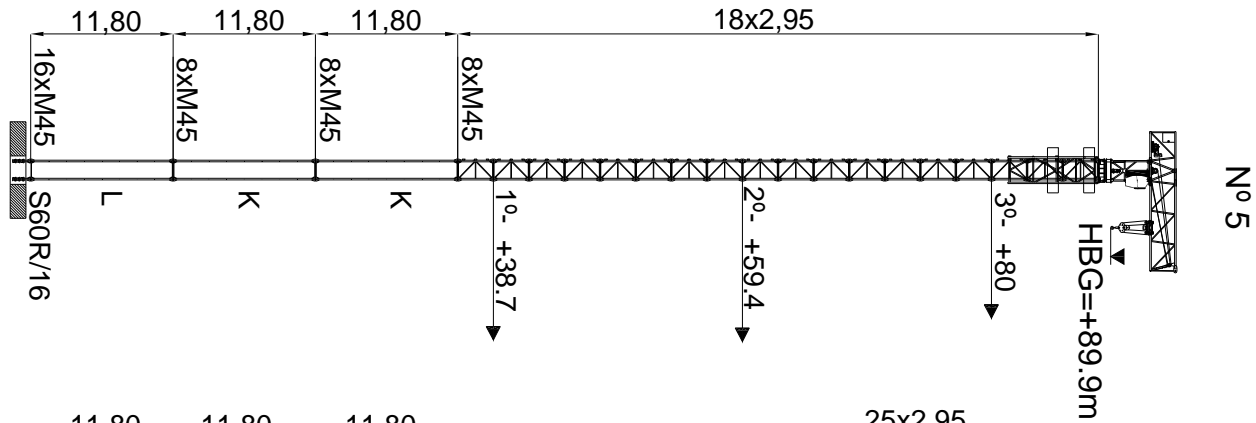
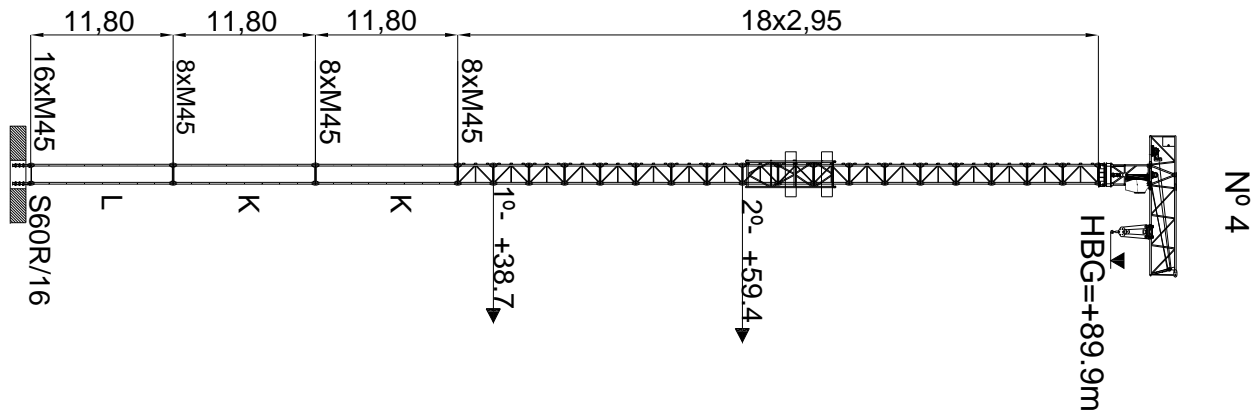
H (m)	42,8	36,9	31	25,1
M (T·m)	419,6	352	281,3	232,4
T (t)	9,7	8,8	7,4	6,2
P (t)	55,6	53,5	51,4	45,3
R <sub>1</sub> (t)	184	152,5	119,7	98,2
R <sub>2</sub> (t)	-211,7	-179,2	-145,4	-120,8



Proceso de trepado  
 External climbing  
 Kletterkrane  
 Telescopable  
 Sopralzo idraulico



Proceso de trepado  
 External climbing  
 Kletterkrane  
 Telescopable  
 Sopralzo idraulico



**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

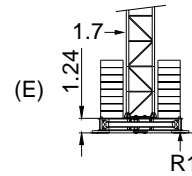
(D)

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

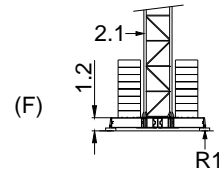
## FEM 1005-C25 / EN 14439

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



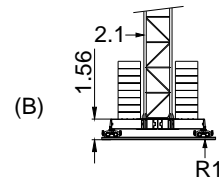
4,5 x 4,5 m-1,7- HM 700	R1 (t)	73,6 t	74,4 t	75,6 t	78,8 t	80 t	81,3 t
	H (m)	20 m	23 m	25,9 m	28,9 m	31,8 m	34,8 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

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	106,4t	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

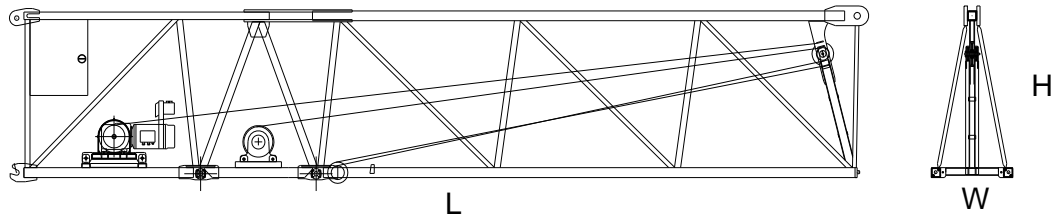
6 x 6 m-2,1/1,7- HB 900	R1 (t)	104 t	115.8 t
	H (m)	48.3 m	51.2 m
	Z (t)	91.2 t	98.8 t



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

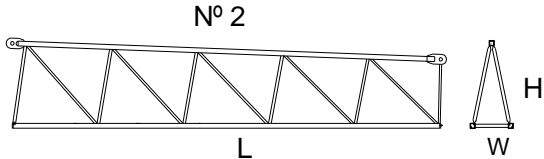
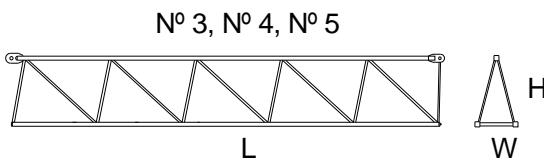
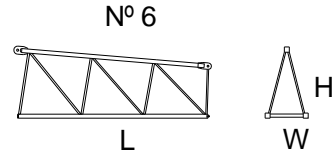
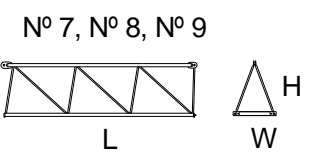
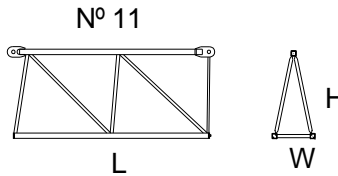
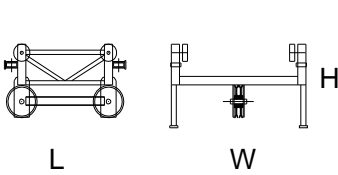
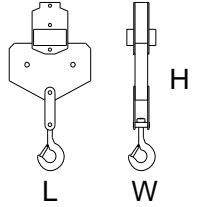
6 x 6 m-2,1/1,7- HB 900	R1 (t)	104 t
	H (m)	48.3 m
	Z (t)	91.2 t

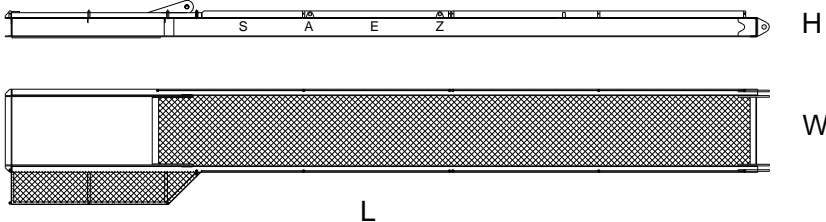
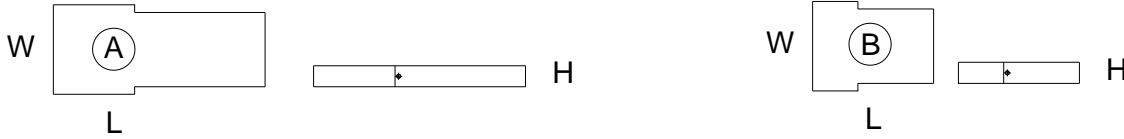
Pluma tramo primero / Jib heel section / Ausleger-Anlenkstück / Pied de fleche /  
Settore articolato di braccio



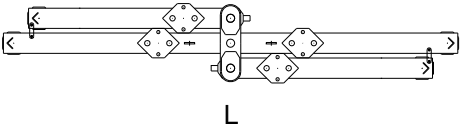


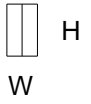
L(m)	W(m)	H(m)	Peso(Kg)
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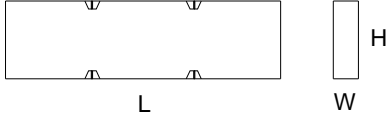
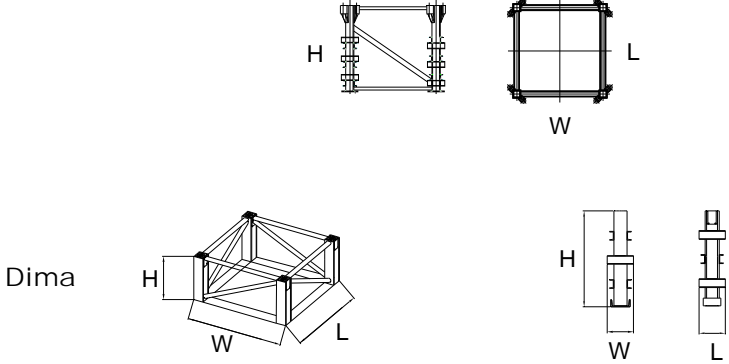
11,90	1,25	2,30	5800
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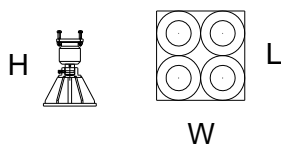

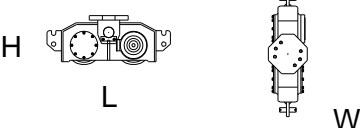
		L(m)	W(m)	H(m)	Peso(Kg)
Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück Elément interm. de fleche / Spezzone di braccio					
				2	2194
		3	1720		
		4	620		
		5	530		
		6	470		
		7	376		
		8	326		
					
		9	248		
		11	1280		
Gancho, Carro y Puntera / Hook, Trolley and jib head / Lasthaken - Laufkatze-Cabeça de Lança Crochet - Chariot-Pointe de fleche / Gancio - Carrello e Punta freccia					
				1,20	290
		0,80	330		
		0,80	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	1,25	0,29	2500
	1,83	1,25	0,29	1500

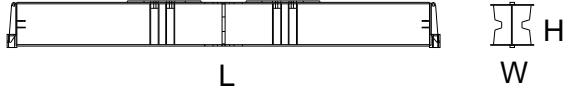
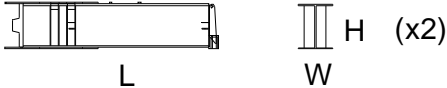
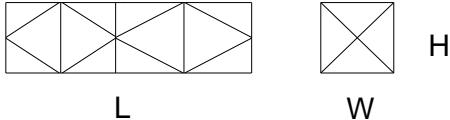
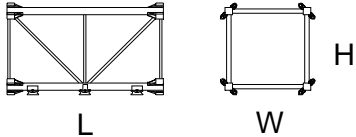


	L(m)	W(m)	H(m)	Peso(Kg)
<p>Base Cruciforme 4,5 X4,5 / Crossbase 4,5 X 4,5 / Fundamentkreuz 4,5 X 4,5 / Châsis 4,5 X 4,5 / Carro base 4,5 X 4,5</p>  <p style="text-align: center;">L</p> 	6,70	1,10	1,20	5750
<p>Vigas auxili. de base / Half base beams / Halbträger für fundamentkreuz / Semipoutre de châsis de base / Travi di congiunzi di congiunzione</p>  <p style="text-align: center;">L</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 annegare 		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	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.° 4</p>  <p>(x4)</p>	1,20	1,20	0,90	250
<p>Traslacion / Travelling bogies / Kranfahren / Traslation / Traslazione</p>  <p>(x2)</p>	1,15	1,25	0,45	505
 <p>(x2)</p>	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  					
Cabina y soporte / Cabin and support / Kabine und wartungs / Cabine et support / Cabina e supporto  					

	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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