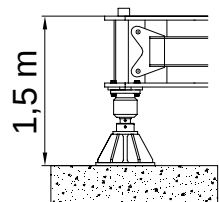
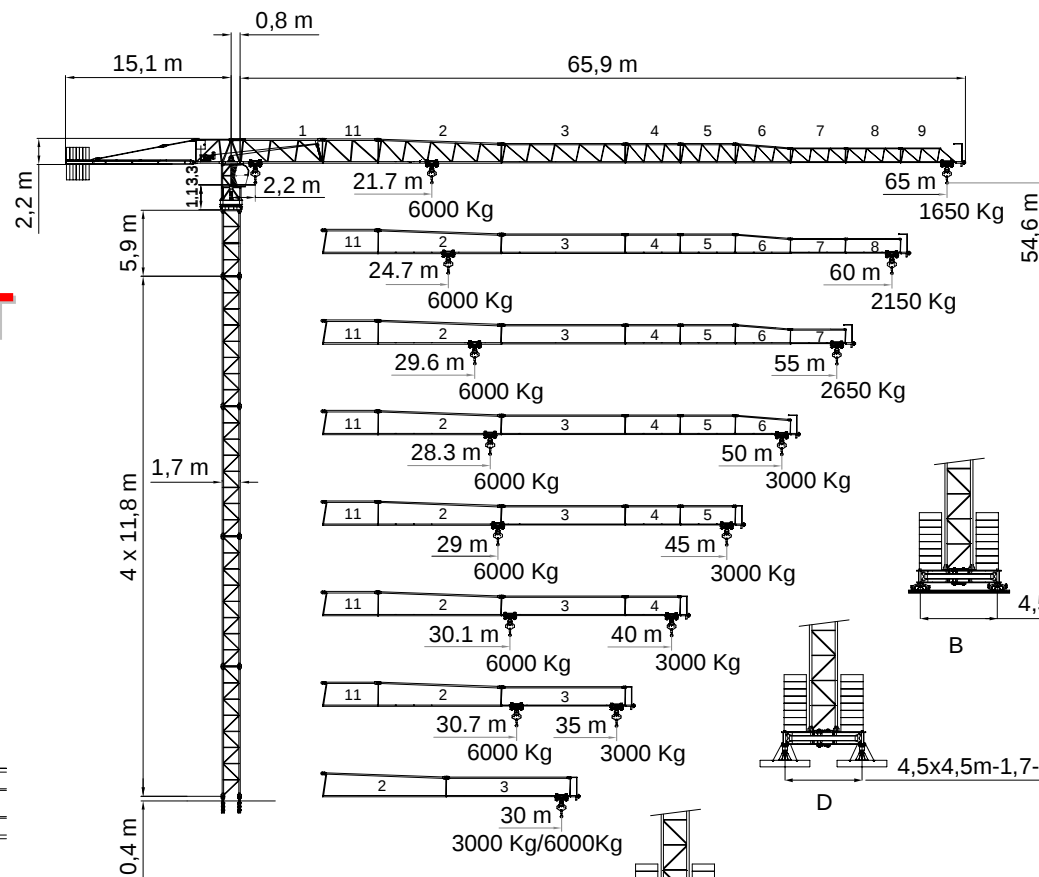
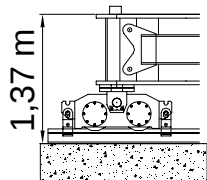




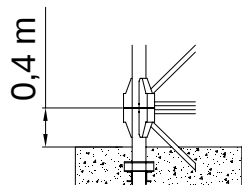
TLS 65 3-6T



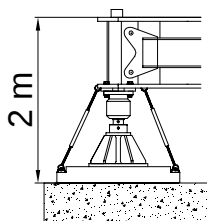
A



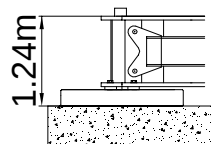
B



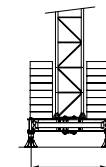
C



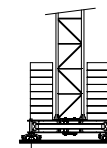
D



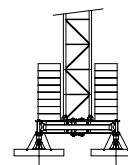
E(4.5x4.5)



A



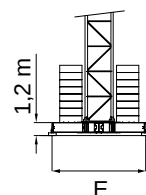
B



D



E



E

1,7- HB900 hasta H=50,3 m
6x6m-2,1- HB900 hasta H=55,6 m



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
3000	3000	3000	3000	3000	3000	3000	3000	2630	2310	2050	1830	1650

m
Kg



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

m
Kg



60 m


10	15	20	25	30	35	40	45	46,3	50	55	60
3000	3000	3000	3000	3000	3000	3000	3000	3000	2690	2400	2150

m
Kg



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

m
Kg



55 m


10	15	20	25	30	35	40	45	49,5	50	55
3000	3000	3000	3000	3000	3000	3000	3000	3000	2970	2650

m
Kg



10	15	20	25	26,9	30	35	40	45	50	55
6000	6000	6000	6000	6000	5210	4350	3710	3210	2820	2500

m
Kg



50 m


10	15	20	25	30	35	40	45	50
3000	3000	3000	3000	3000	3000	3000	3000	3000

m
Kg



10	15	20	25	28,3	30	35	40	45	50
6000	6000	6000	6000	6000	5510	4610	3930	3410	3000

m
Kg



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

45 m

10	15	20	25	30	35	40	45
3000	3000	3000	3000	3000	3000	3000	3000

m

Kg



10	15	20	25	29	30	35	40	45
6000	6000	6000	6000	6000	5640	4720	4030	3500

m

Kg



40 m

10	15	20	25	30	35	40
3000	3000	3000	3000	3000	3000	3000

m

Kg



10	15	20	25	29,4	30	35	40
6000	6000	6000	6000	6000	5864	4910	4200

m

Kg



35 m

10	15	20	25	30	35
3000	3000	3000	3000	3000	3000

m

Kg



10	15	20	25	29,8	30	35
6000	6000	6000	6000	6000	5970	5000

m

Kg



30 m

10	15	20	25	30
3000	3000	3000	3000	3000

m

Kg



10	15	20	25	30
6000	6000	6000	6000	6000

m

Kg



Mecanismos
Mechanisms
Antriebe
Mécanismes
Meccanismi

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

								
		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

* Opcional / Optional / Opzionale /

 Elevación / Hoisting / Heben / Levage / Sollevamento

 Distribución / Trolleying / Katzfahren / Distribution / Distribuzione

 Orientación / Slewing / Schwenken / Orientation / Rotazione

 Traslacion / Travelling / Schienenfahren / Translation / Traslazione

 Cable / Rope / Seil / Câble / Fune

	400 V 50 Hz	100m 4x25mm ²
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GENERADOR
150 kVA

POTENCIA INSTALADA
46 KW

	380 V 60 Hz	100m 4x25mm ²
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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

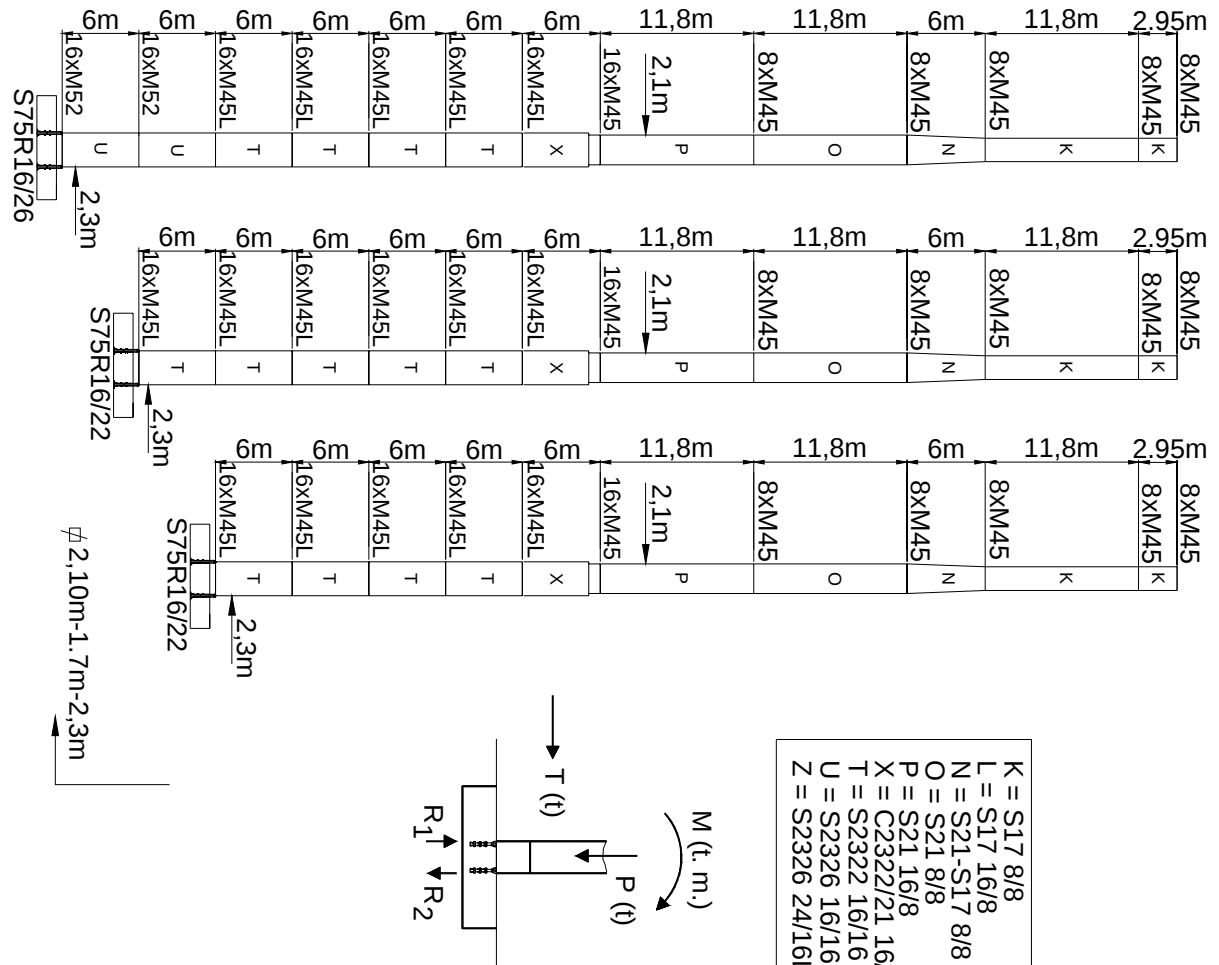
Masts / Reactions

Maste / Eckdrücke

Mat / Réactions

Torre / Reazioni

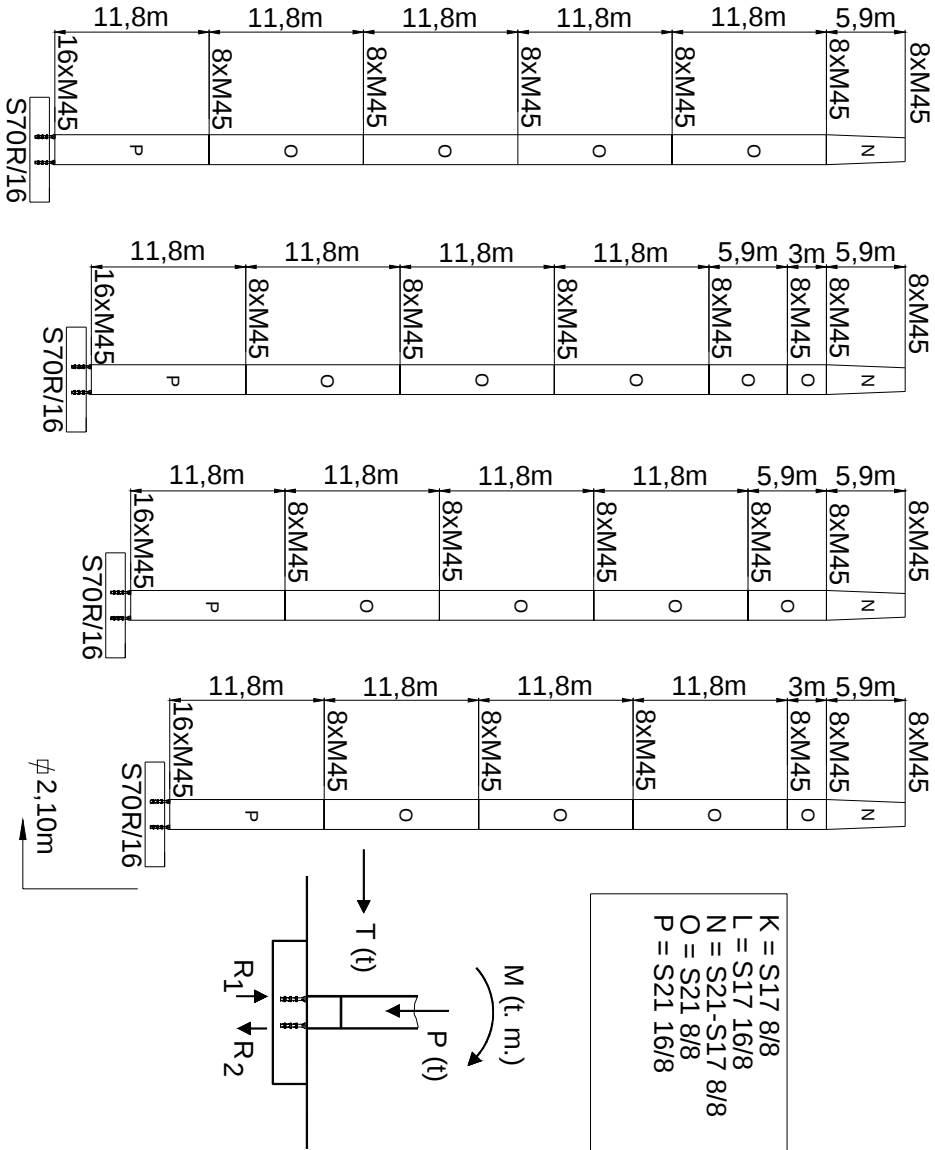
H (m)	86.5	80.5	74.5
M (T·m)	1387.6	1180	970.2
T (t)	27.6	24.6	22
P (t)	102.7	94	89.4
R ₁ (t)	453	383.6	312.3
R ₂ (t)	-504.3	-430.7	-350



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

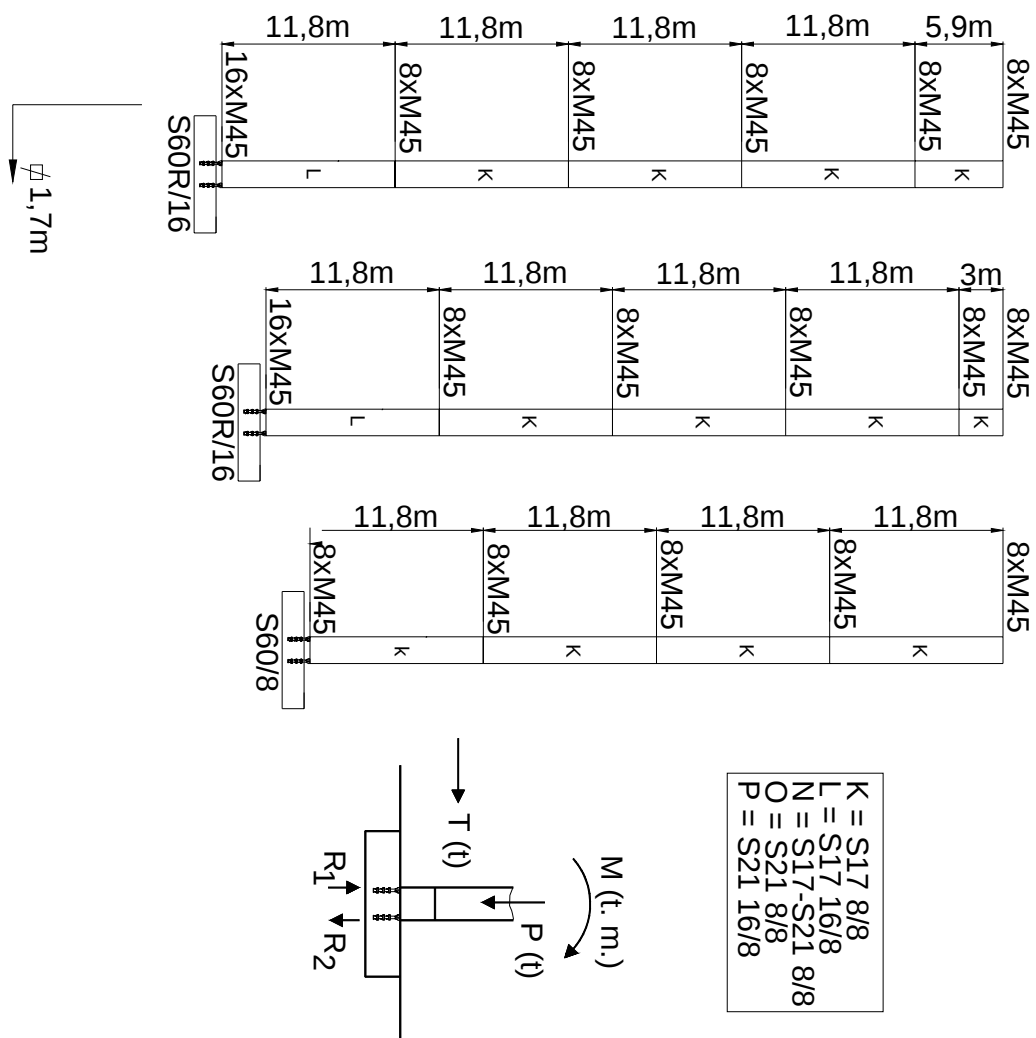
Mástil / Reacciones
Masts / Reactions
Maste / Eckdrücke
Mat / Réactions
Torre / Reazioni

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



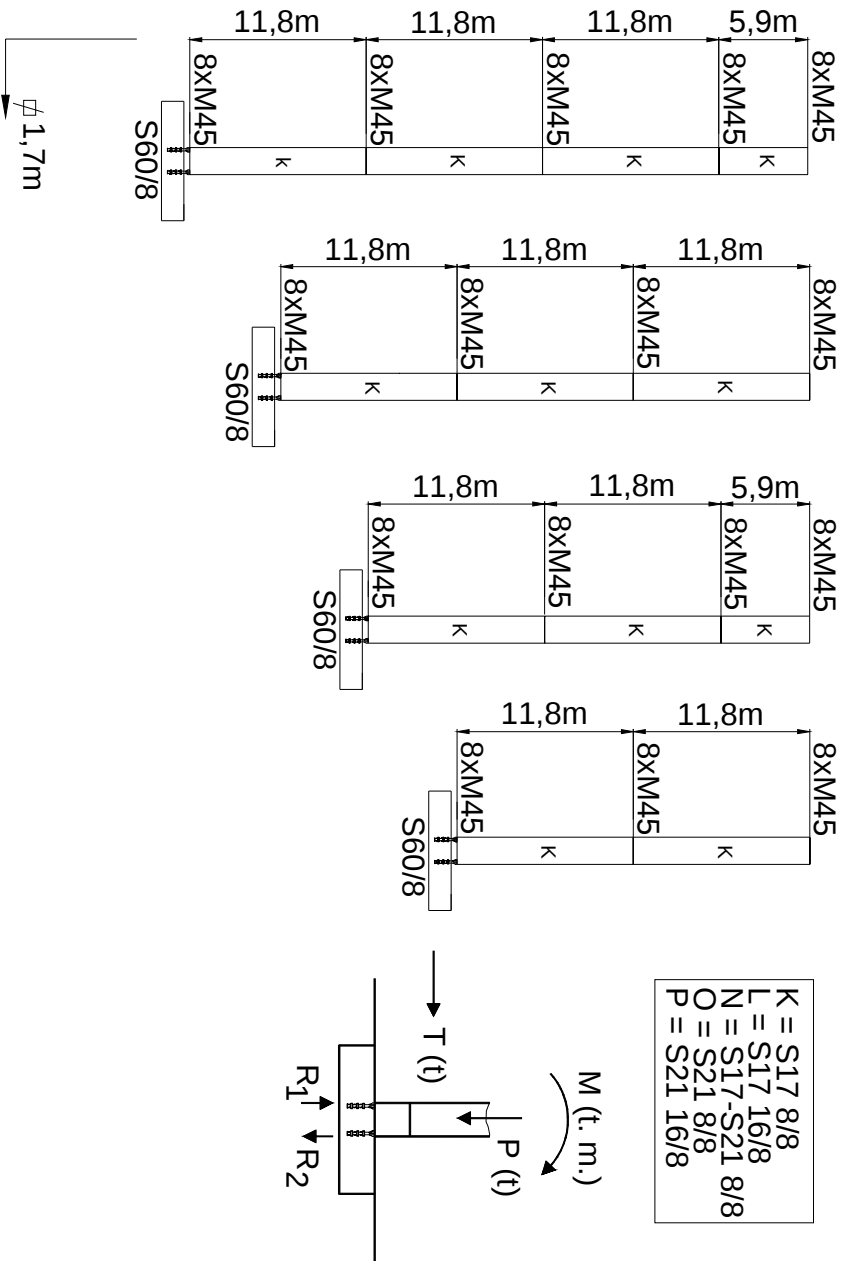
Mástil / Reacciones
Masts / Reactions
Maste / Eckdrücke
Mat / Réactions
Torre / Reazioni

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



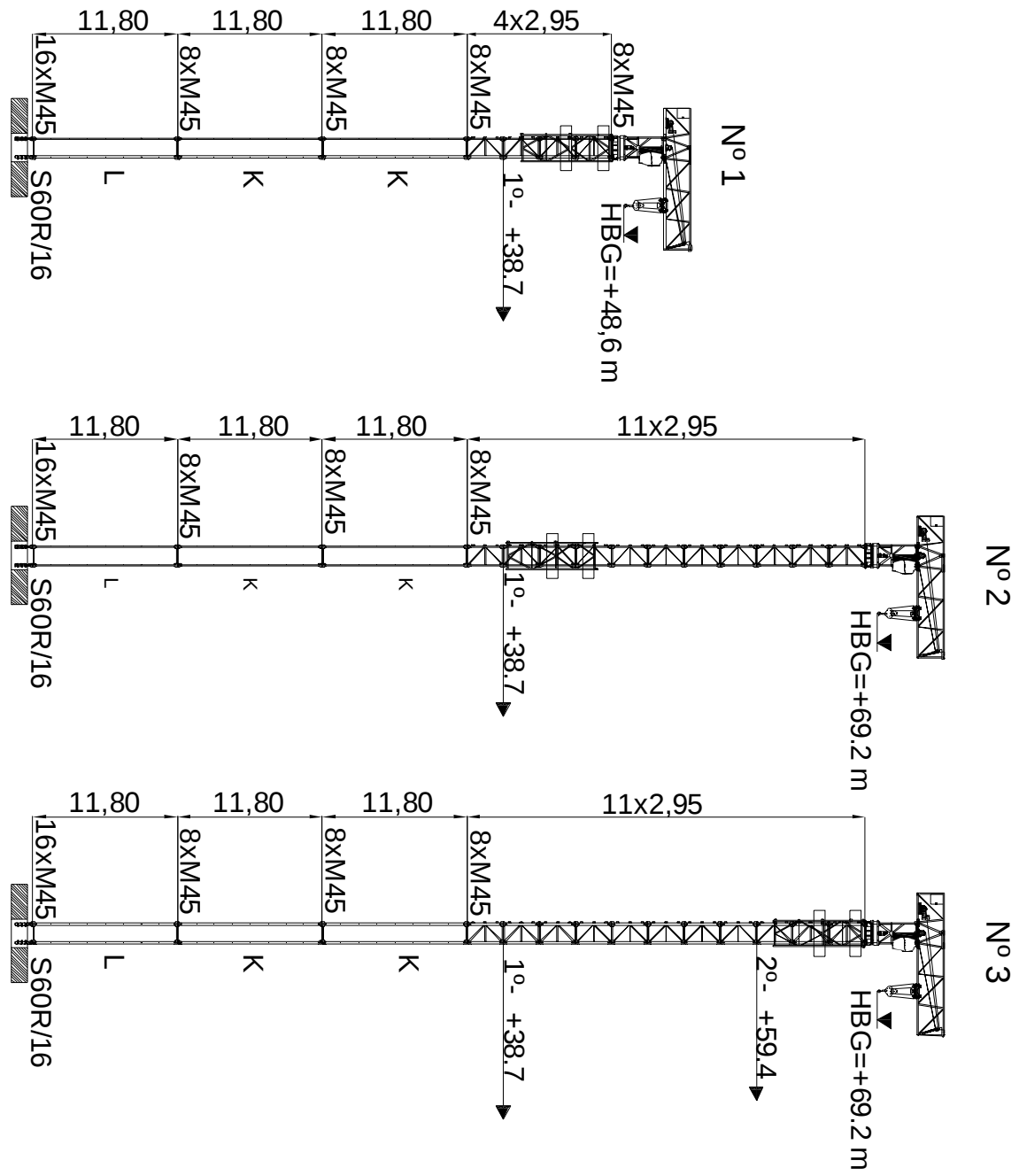
Mástil / Reacciones
Masts / Reactions
Maste / Eckdrücke
Mat / Réactions
Torre / Reazioni

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
R1(t)	184	152,5	119,7	98,2
R2(t)	-211,7	-179,2	-145,4	-120,8

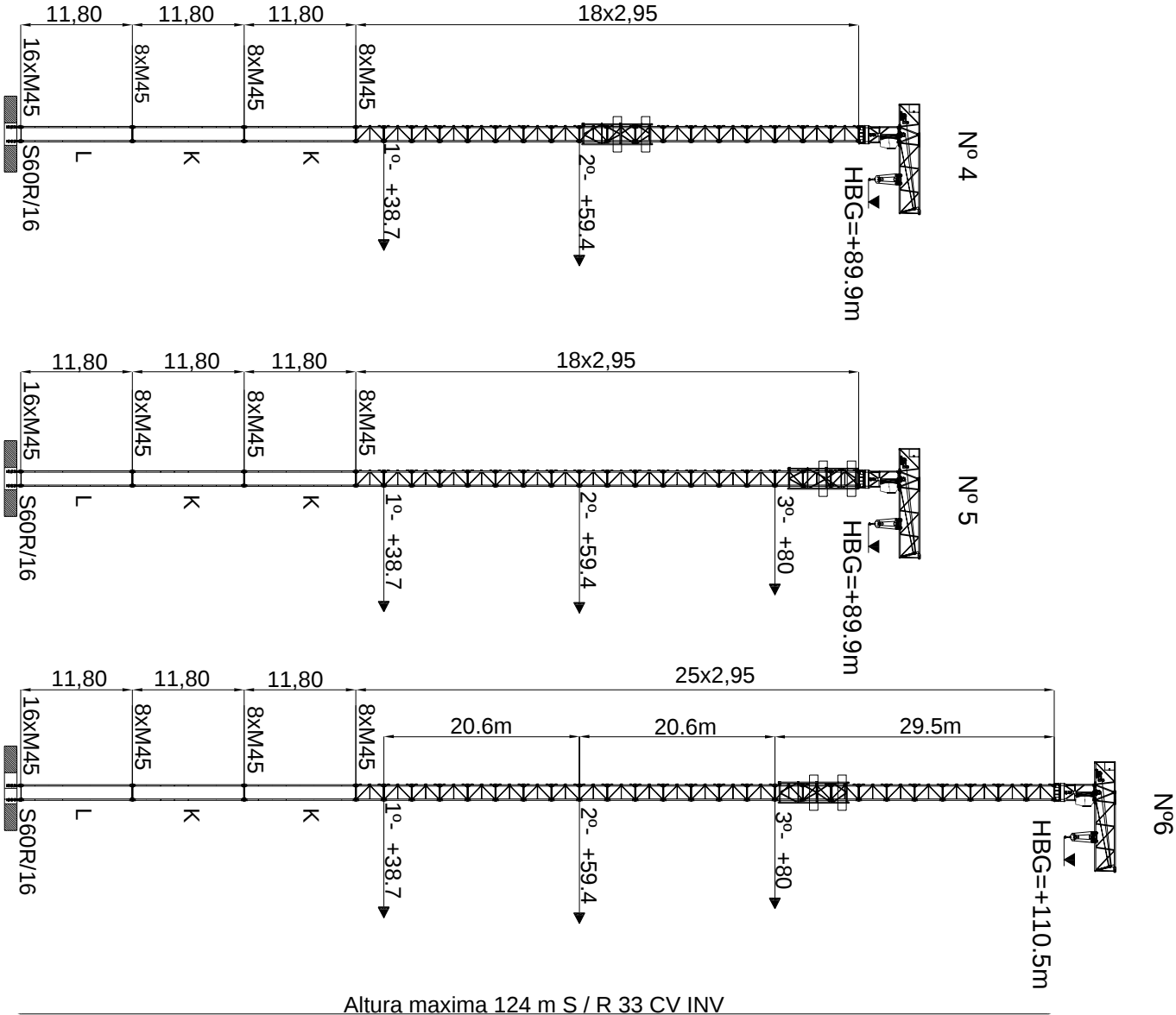


TLS 65 3-6 T

Proceso de trepado
External climbing
Kletterkrane
Telescopable
Sopralzo idraulico

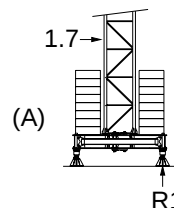


Proceso de trepado
External climbing
Kletterkrane
Telescopable
Sopralzo idraulico



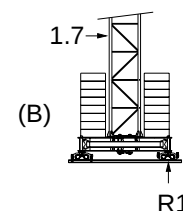
FEM 1005-C25 / EN 14439

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



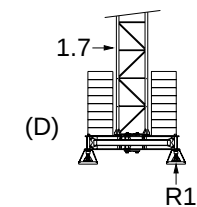
4,5 x 4,5 m-1,7-HM 700	R1 (t)	73,6 t	74,4 t	75,6 t	78,8 t	80 t	81,3 t
	H (m)	20,3 m	23,3 m	26,2 m	29,2 m	32,1 m	35,1 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

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



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



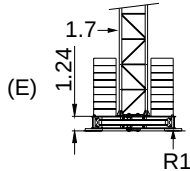
4,5 x 4,5 m-1,7-HM 700	R1 (t)	73,6 t	74,4 t	75,6 t	78,8 t	80 t	81,3 t
	H (m)	20,8 m	23,8 m	26,7 m	29,7 m	32,6 m	35,6 m
	Z (t)	83,6 t	83,6 t	83,6 t	91,2 t	91,2 t	91,2 t

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

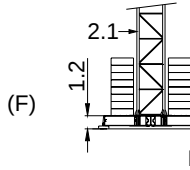
(E)



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

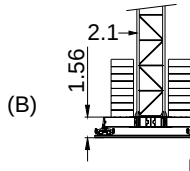
(F)



	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
6 x 6 m-2,1/1,7- HB 900	Z (t)	45.6 t	45.6 t	45.6 t	60.5 t	68.4 t

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

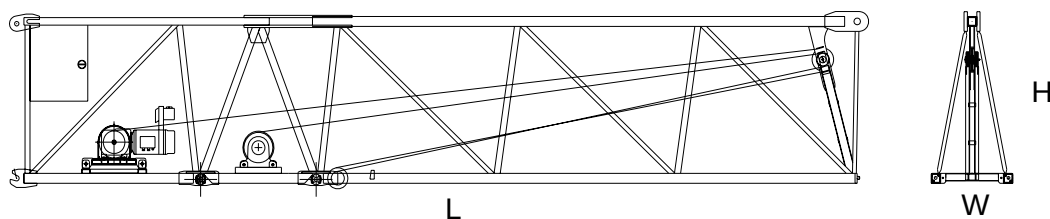
(B)



	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
6 x 6 m-2,1/1,7- HB 900	Z (t)	45.6 t	45.6 t	45.6 t	60.5 t	68.4 t

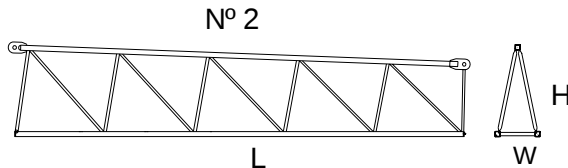
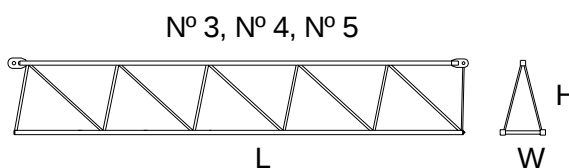
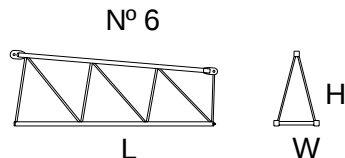
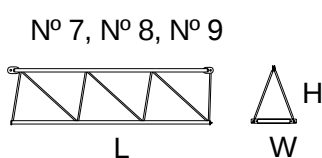
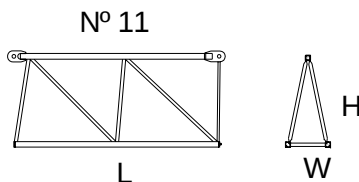
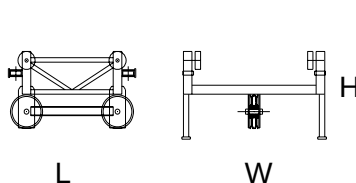
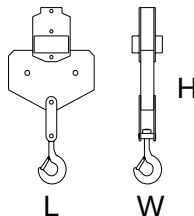
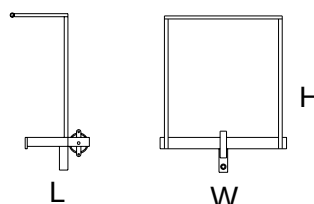
	R1 (t)	104 t
	H (m)	48.3 m
6 x 6 m-2,1/1,7- HB 900	Z (t)	91.2 t

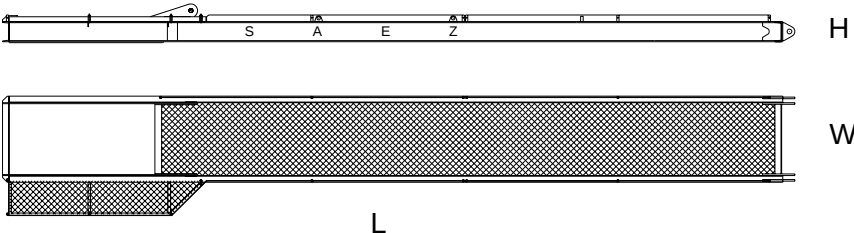
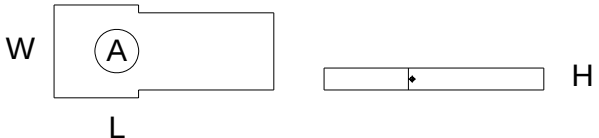
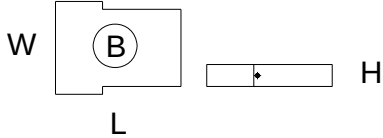
Pluma tramo primero / Jib heel section / Ausleger-Anlenkstück / Pied de fleche /
Settore articolato di braccio

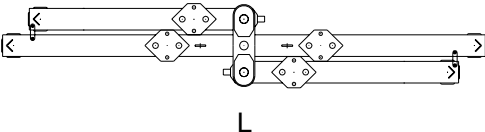
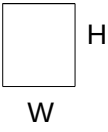
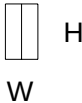


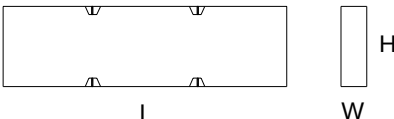
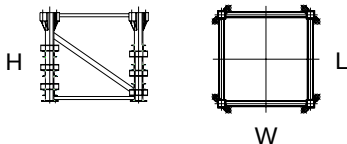
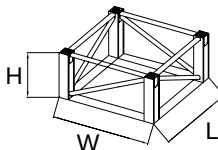
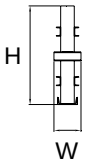
L(m)	W(m)	H(m)	Peso(Kg)
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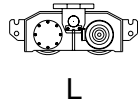
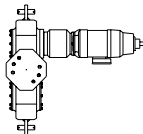
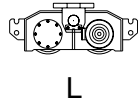
11,90	1,25	2,30	5800
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		L(m)	W(m)	H(m)	Peso(Kg)	
Elemento intermedio de pluma / Intermediate jib section / Ausleger-Zwischenstück Elément interm. de fleche / Spezzone di braccio						
		2	11,60	1,13	2,25	2194
		3	11,60	1,13	1,80	1720
		4	5,30	1,13	1,80	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						
		1,20	1,35	0,80	290	
		0,80	0,15	1,50	330	
		0,80	1,20	1,40	108	

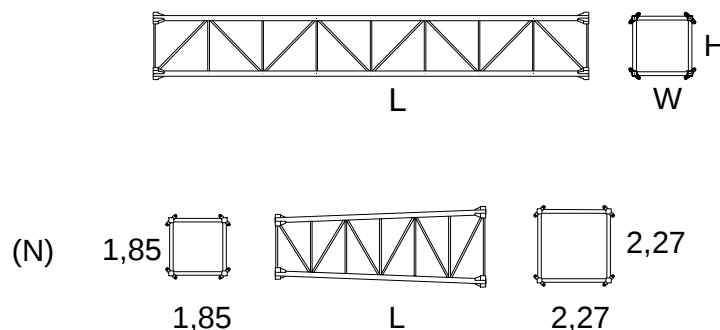
	L(m)	W(m)	H(m)	Peso(Kg)
Contrapluma / Counter-jib / Gegenausleger / Contre-fleche / Controbraccio 	11,94	1,80	0,60	2575
Bloque de contrapeso / Counterweight blocks / Gegengewichtsblöcke / Bloc de contrepoids / Blocco di contrappeso  A  B	3,20 1,83	1,25	0,29	2500 1500

	L(m)	W(m)	H(m)	Peso(Kg)
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  L  W	6,70	1,10	1,20	5750
Vigas auxil. de base / Half base beams / Halbträger für fundamentkreuz / Semipoutre de châsis de base / Travi di congiunzi di congiunzione  L  W (x2)	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     Dima		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			

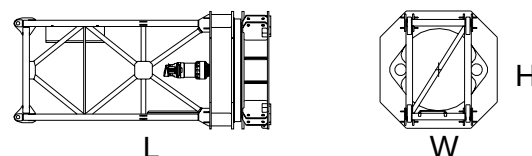
	L(m)	W(m)	H(m)	Peso(Kg)
Niveladores / Levellers / Spindel pyramide / Niveleurs / Piedi regolabile n.º 4   L (x4) W				
Traslacion / Travelling bogies / Kranfahren / Traslation / Traslazione   (x2) W				
  (x2) W				
	1,20	1,20	0,90	250
	1,15	1,25	0,45	505
	1,15	0,25	0,45	450

Elemento de torre TL16 / Tower section TL16 / Turmstück TL16 / Element de mât TL16 /
Elemento di torre TL16



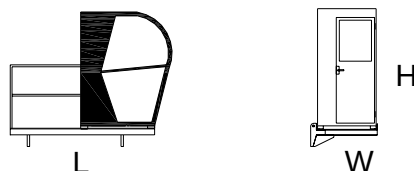
	L(m)	W(m)	H(m)	Peso(Kg)
K	11,8	1,85	1,85	4600
K	5,9	1,85	1,85	2472
K	3	1,85	1,85	1425
L	11,8	1,85	1,85	5520
O	11,8	2,27	2,27	5044
O	5,9	2,27	2,27	2640
O	3	2,27	2,27	1545
P	11,8	2,27	2,27	5700
N	5,9			3500
X	6	2,27	2,29	4000
T	6	2,27	2,29	4300
U	6	2,31	2,34	5910
Z	6	2,61	2,34	5980

Unidad de rotacion / Complete slewing unit / Drehbühne / Orientation / Rotazione

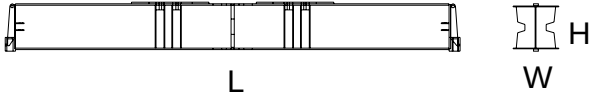
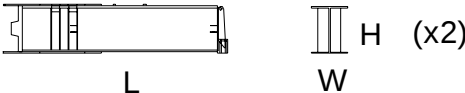
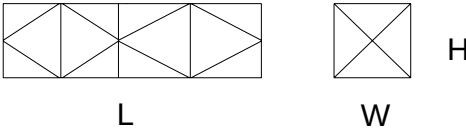
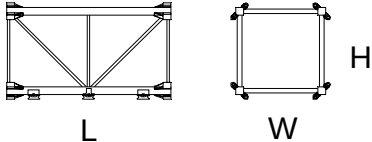


4,40	2,00	2,00	6600
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Cabina y soporte / Cabin and support / Kabine und wartungs / Cabine et support /
Cabina e supporto



3,00	1,15	2,35	558
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	L(m)	W(m)	H(m)	Peso(Kg)
Viga principal base 6x6 / Main base beam / Hauptträger für fundamentkreuz Poutre de châssis de base / Trave principale della base 	8,65	0,78	0,92	4300
Semiviga secundaria base 6x6 / Half base beam / Halbträger für fundamentkreuz Semipoutre de châssis de base / Semitrave secondaria della base 	4,27	0,68	0,97	2025
Caja de trepado-S17 / Climbing cage / Hydraulikbühne Cage de montage / Gabbia di montaggio 	7,35	2,1	2,1	6400
Tramo trepador / Tower element / Turmstück Element de mature / Elemento di torre monolitico 	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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