



UNE-EN-ISO 9001





	TD @ ... (ft)	82	98	115	131	148	164	180	197	213	230
230	167	35300	35300	35300	35300	35300	35300	29500	23400	18100	13700
213	167	35300	35300	35300	35300	35300	35300	29500	23600	18500	-
197	168	35300	35300	35300	35300	35300	35300	29800	23800	-	-
180	168	35300	35300	35300	35300	35300	35300	29800	-	-	-
164	164	35300	35300	35300	35300	35300	35300	-	-	-	-
148	148	35300	35300	35300	35300	35300	-	-	-	-	-
131	131	35300	35300	35300	35300	-	-	-	-	-	-
115	115	35300	35300	35300	-	-	-	-	-	-	-
98	98	35300	35300	-	-	-	-	-	-	-	-



	2R max (lb)	@ ... (ft)	82	98	115	131	148	164	180	197	213	230
230	61700	119	61700	61700	61700	52000	41400	33100	26000	20300	15400	11200
213	70500	110	70500	70500	65500	52000	41700	33300	26500	20900	16100	-
197	70500	110	70500	70500	65500	52200	41900	33700	26900	21400	-	-
180	70500	110	70500	70500	65500	52500	42100	34000	27300	-	-	-
164	70500	110	70500	70500	66100	53100	43000	34800	-	-	-	-
148	70500	111	70500	70500	67200	54200	44100	-	-	-	-	-
131	70500	112	70500	70500	67500	54700	-	-	-	-	-	-
115	70500	112	70500	70500	67500	-	-	-	-	-	-	-
98	70500	98	70500	70500	-	-	-	-	-	-	-	-



	3R max (lb)	@ ... (ft)	66	82	98	115	131	148	164	180	197	213
213	92600	89	92600	92600	79400	62200	49200	39000	30900	24300	18700	14100
197	105800	81	105800	103400	79400	62400	49400	39500	31300	24900	19400	-
180	105800	81	105800	103400	79600	62600	49800	39900	32000	25400	-	-
164	105800	81	105800	104100	80200	63300	50700	40800	32800	-	-	-
148	105800	81	105800	104700	81100	64400	51800	42100	-	-	-	-
131	105800	81	105800	104700	81600	65000	52700	-	-	-	-	-
115	105800	81	105800	104700	81800	65500	-	-	-	-	-	-
98	105800	81	105800	104700	82000	-	-	-	-	-	-	-



	4R @ ... (ft)	49	66	82	98	115	131	148	164	180
180	64	141100	136700	101400	78000	61300	48700	38800	31100	24700
164	64	141100	136700	101900	78700	61900	49600	39900	32200	-
148	64	141100	137600	103000	79800	63500	51100	41400	-	-
131	64	141100	137600	103400	80500	64200	52000	-	-	-
115	64	141100	137600	103600	80900	64800	-	-	-	-
98	64	141100	137600	103800	81400	-	-	-	-	-

Datos válidos para / Valid data for



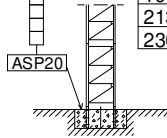
4R H ≤ 328 ft
3R H ≤ 344 ft
2R H ≤ 361 ft
TD H ≤ 377 ft

(H) ESTACIONARIA 1 / STATIONARY 1

TD

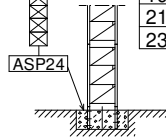
98
222

▽	H(ft)	D■(ft)	□	⊠
98	222	62	12	-
115	216	59	11	1
131	203	59	11	-
148	203	56	11	-
164	185	56	10	-
180	167	56	9	-
197	167	59	9	-
213	161	66	8	1
230	148	69	8	-



98
264

▽	H(ft)	D■(ft)	⊠	⊠	□	⊠
98	264	62	6	1	8	-
115	258	59	7	1	6	1
131	246	59	5	1	8	-
148	246	56	6	1	7	-
164	246	56	7	1	6	-
180	227	56	7	1	5	-
197	227	59	7	1	5	-
213	209	66	6	1	5	-
230	203	69	6	1	4	1

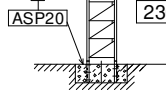


- ⊠ TSP20
- TSP20-5,6
- ⊠ TSP24/TSP20
- ⊠ TSP24-5,6

2R

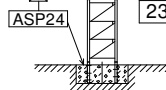
98
216

▽	H(ft)	D■(ft)	□	⊠
98	216	62	11	1
115	185	59	10	-
131	179	56	9	1
148	167	56	9	-
164	167	52	9	-
180	167	52	9	-
197	161	56	8	1
213	148	62	8	-
230	148	66	8	-



98
277

▽	H(ft)	D■(ft)	⊠	⊠	□	⊠
98	277	62	7	1	7	1
115	258	59	6	1	7	1
131	246	56	6	1	7	-
148	246	56	6	1	7	-
164	240	52	6	1	6	1
180	227	52	5	1	7	-
197	227	56	5	1	7	-
213	221	62	5	1	6	1
230	209	66	6	1	5	-

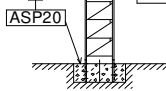


- ⊠ TSP20
- TSP20-5,6
- ⊠ TSP24/TSP20
- ⊠ TSP24-5,6

3R

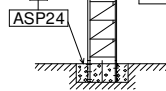
98
185

▽	H(ft)	D■(ft)	□	⊠
98	185	62	10	-
115	179	59	9	1
131	167	56	9	-
148	167	56	9	-
164	167	52	9	-
180	161	52	8	1
197	148	56	8	-
213	148	62	8	-



98
258

▽	H(ft)	D■(ft)	⊠	⊠	□	⊠
98	258	62	6	1	7	1
115	246	59	6	1	7	-
131	246	56	6	1	7	-
148	240	56	5	1	7	1
164	240	52	6	1	6	1
180	227	52	5	1	7	-
197	221	56	5	1	6	1
213	209	62	6	1	5	-

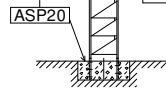


- ⊠ TSP20
- TSP20-5,6
- ⊠ TSP24/TSP20
- ⊠ TSP24-5,6

4R

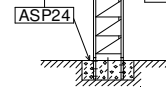
98
179

▽	H(ft)	D■(ft)	□	⊠
98	179	62	9	1
115	167	59	9	-
131	167	56	9	-
148	161	56	8	1
164	148	52	8	-
180	148	52	8	-



98
246

▽	H(ft)	D■(ft)	⊠	⊠	□	⊠
98	246	62	7	1	6	-
115	246	59	8	1	5	-
131	240	56	8	1	4	1
148	240	56	9	1	3	1
164	227	52	6	1	6	-
180	227	52	6	1	6	-



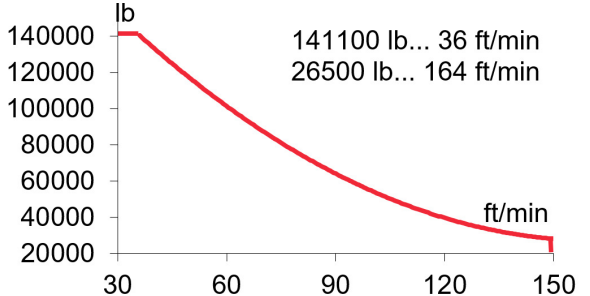
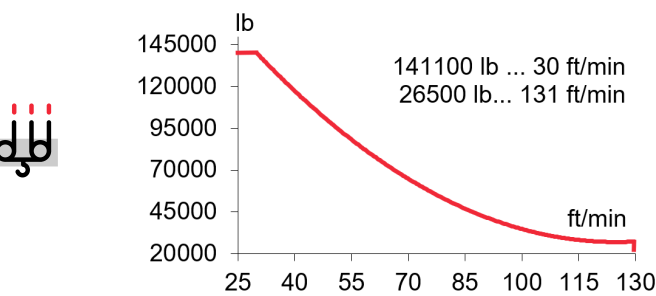
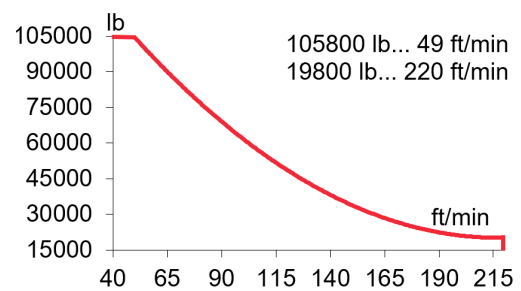
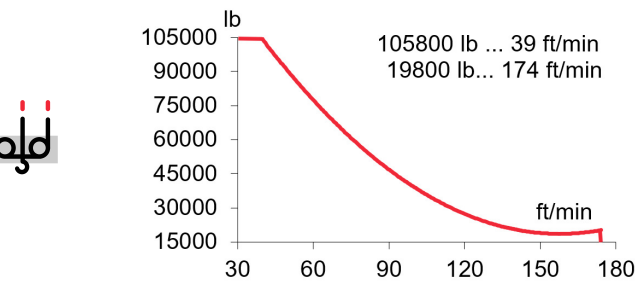
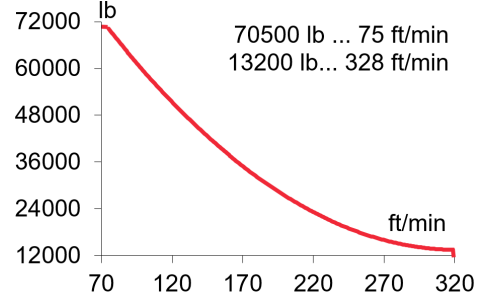
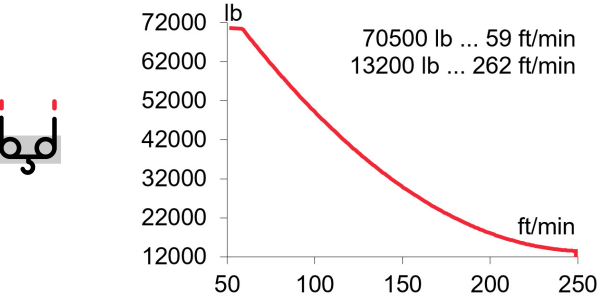
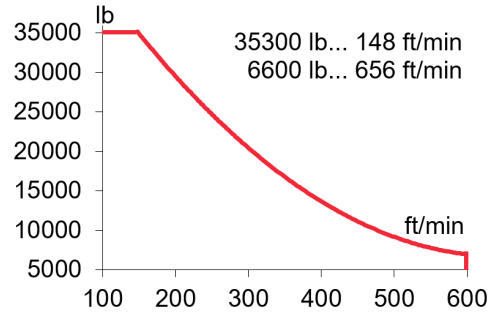
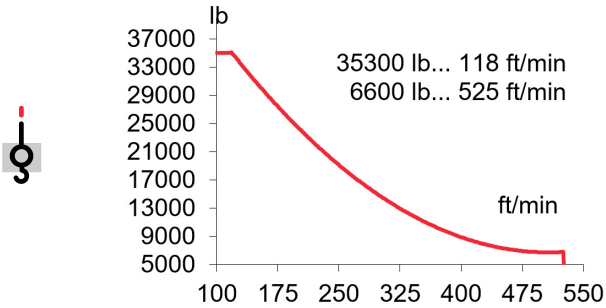
- ⊠ TSP20
- TSP20-5,6
- ⊠ TSP24/TSP20
- ⊠ TSP24-5,6

ASP20 212.21.200

ASP24..... 212.21.500

H= Máxima altura de torre sin arriostrar (ft) / Maximum tower height without fastening (ft)

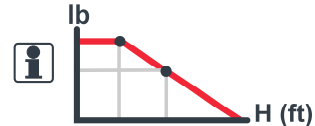

EC150160VF
110 kW

*** EC180200VF**
132 kW


$H \leq$
 TD 2992 ft
 2R 1496 ft
 3R 997 ft
 4R 748 ft



3809 ft


OG4007VF
2 x 15 kW

0...0,7
 r/min
 sl/min


EP15020VF
110 kW

2
 min

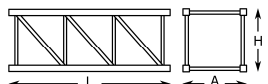
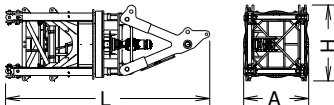
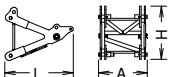
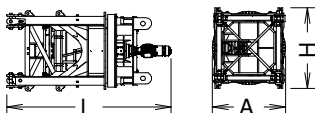
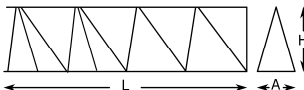
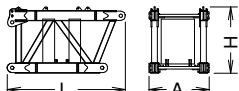
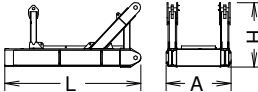
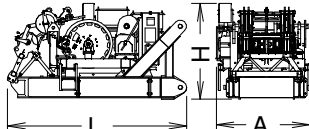
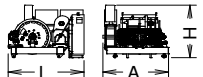
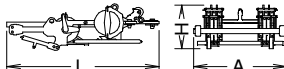
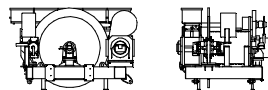
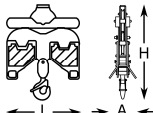
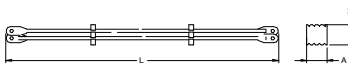
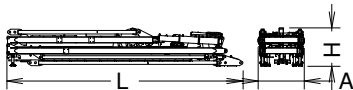


$3 \sim$ 400V 50Hz
 480V 60Hz

KVA			
EC150160VF	142	195	248
EC180200VF	152	211	269



FEM 1005 – C25

			L (ft)	A (dt)	H (ft)	P/W(lb)			
Torre / Tower	TSP20 TSP20-5,6		14.4 20.2	7.5 7.5	7.8 7.8	12380 16900			
Torre asiento pista + Torre superior + Orientación Slewing table + Top tower + Slewing mechanism				23.8	7.6	8.6	56310		
Punta de torre / Top tower				10.5	7.5	8.0	13000		
Torre asiento pista + Base punta de torre + Orientación Slewing table + Tower head base + Slewing				17.1	7.6	8.3	43310		
Tramo de pluma Jib section	1		29.1	7.5	7.4	8690			
	2		34.7	7.1	7.8	9510			
	3		34.7	6.5	7.5	8180			
	4		34.7	6.5	7.9	7320			
	5		34.7	6.5	7.5	7255			
	6		34.7	6.5	7.4	6350			
	7		17.7	6.5	7.4	4000			
	8		17.7	6.5	7.5	5080			
	9-4R		6.6	6.7	11.8	6680			
Contrapluma 1 / Counterjib 1				14.7	7.5	8.3	21860		
Contrapluma 2 / Counterjib 2				15.7	7.5	7.4	17780		
Contrapluma 2 + Elevación pluma + Pasteca Counterjib 2 + Luffing mech + Reeving block				16.7	8.7	8.9	42440		
Elevación pluma / Luffing mech				9.4	8.1	6.8	16470		
Pasteca / Reeving Block				11.0	3.5	6.7	4130		
Mecanismo elevacion carga sin cable / Hoisting mechanism without rope				10.5	7.7	6.5	16530		
Polipasto / Hook assembly	4R 2R/3R TD		4.5 5.0 0.6	1.7 3.1 1.1	8.5 8.3 6.9	3730 3680 840			
	Tirante sostén pluma / Jib support tie				17.8 17.8	1.2 1.2	1.3 1.3	3060 3030	
	Parte superior + Mecanismo auxiliar Top part + Auxiliary winch				38.8	7.5	6.5	39240	

LISTA DE EMBARQUE / PACKING LIST
J780PA.64

		L (ft)	A (dt)	H (ft)	P/W(lb)
Plataforma + Cabina / Platform + Cabin		12.0	7.5	8.1	2760
Contrapeso / Counterweight		14.8 7.6	0.8 0.8	3.3 3.3	17640 8820
Transporte torre de montaje Jacking cage transport	TM20PASP-5,6 - Package 1. 	38.1	7.3	8.2	26270
	TM20PASP-5,6 - Package 2 	38.3	6.6	8.2	31810

TREPADO / CLIMBING
J780PA.64
 $h_{max}: TSP20-5,6T1 + 6 \times TSP20-5,6 + TSP20-5,6T2$

	▶	■
h (ft)	147	
D (ft)	48 - 69	
P (lbf)	674430	611480
Rmax (lbf)	186590	327100

 $h_{max}: TSP20-5,6T1 + 6 \times TSP20-5,6 + TSP20-5,6T2$

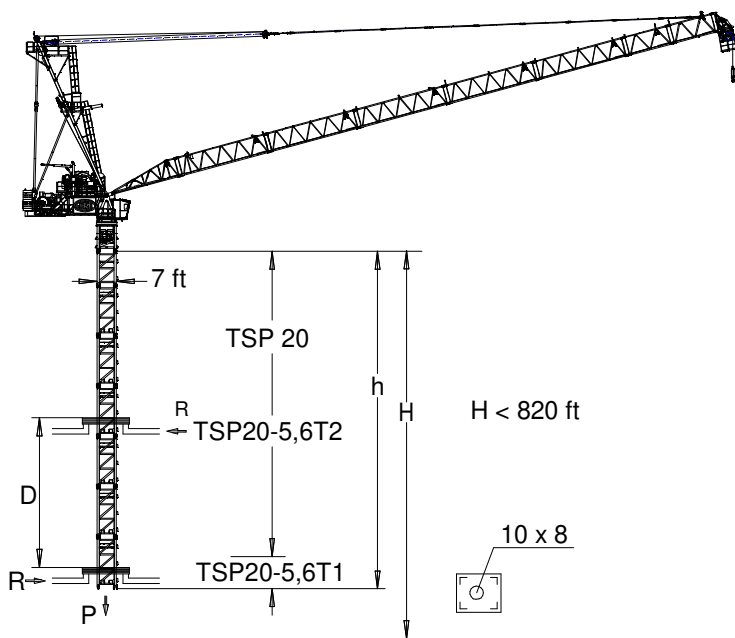
	▶	■
h (ft)	147	
D (ft)	48 - 69	
P (lbf)	698030	626090
Rmax (lbf)	183220	328220

 $h_{max}: TSP20-5,6T1 + 6 \times TSP20-5,6 + TSP20-5,6T2$

	▶	■
h (ft)	147	
D (ft)	48 - 69	
P (lbf)	731750	623840
Rmax (lbf)	185470	325970

 $h_{max}: TSP20-5,6T1 + 6 \times TSP20-5,6 + TSP20-5,6T2$

	▶	■
h (ft)	147	
D (ft)	46 - 69	
P (lbf)	754230	610360
Rmax (lbf)	196710	332720



TSP20-5,6T1: 214.31.400

TSP20-5,6T2: 214.31.600

Trepado interno / Internal climbing

Viento fuera de servicio / Out of service wind

Consultar / Consult

En servicio / In service

Fuera de servicio / Out of service

Opcional / Optional



Ctra./ Rd. Madrid – Irún - Km. 415 - 20213 IDIAZABAL (Gipuzkoa) - ESPAÑA / SPAIN
P.O. Box, 23 - 20.200 - BEASAIN - E-mail: jaso@jaso.com
Tel. +34 943 - 18 70 00 • Fax. +34 943 - 18 70 20
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