

GRUA TORRE TOWER CRANE

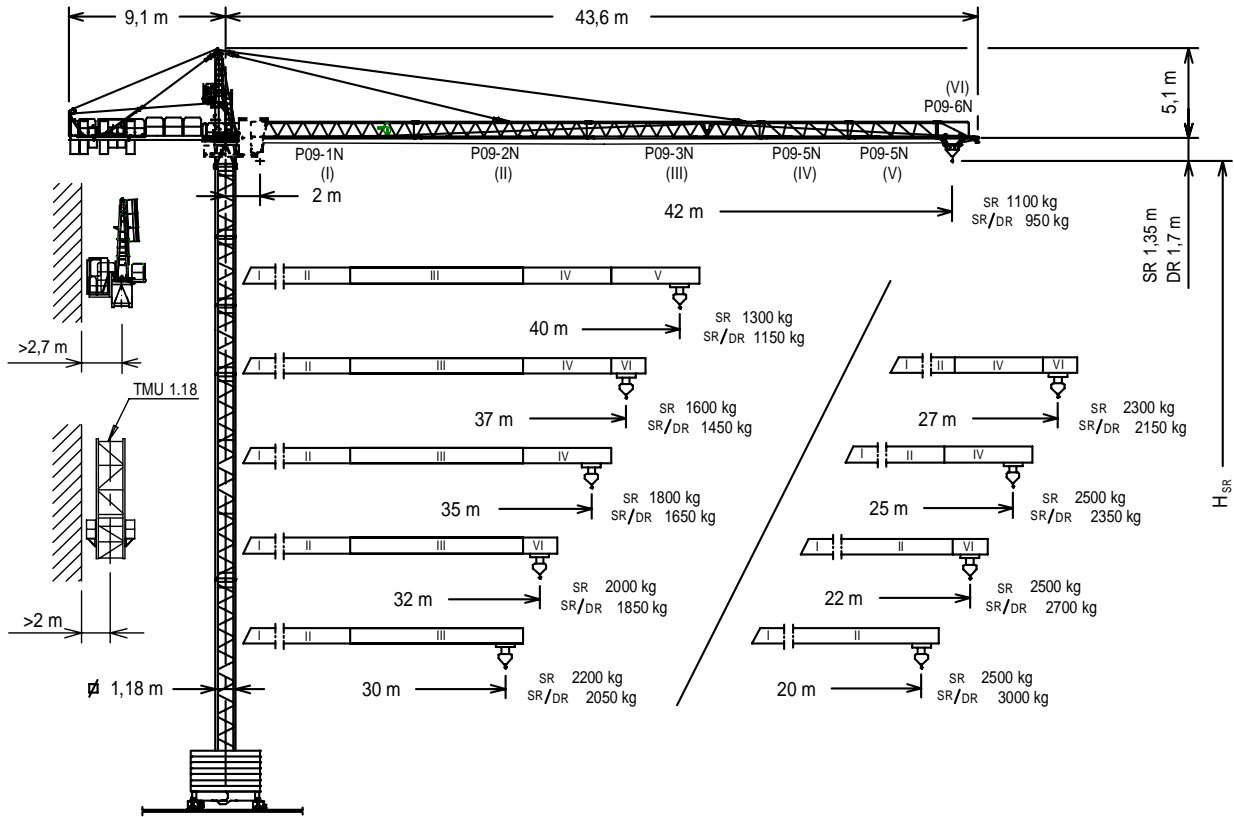
J42NS



UNE 58-101
FEM 1001

SISTEMA DE CALIDAD CERTIFICADO SEGUN
QUALITY ASSURANCE SYSTEM CERTIFIED ACCORDING TO

UNE-EN-ISO 9001

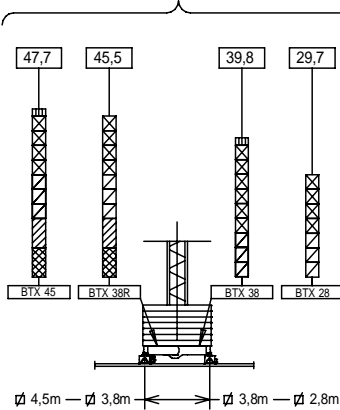


$$H_{DR} = H_{SR} - 0,35$$

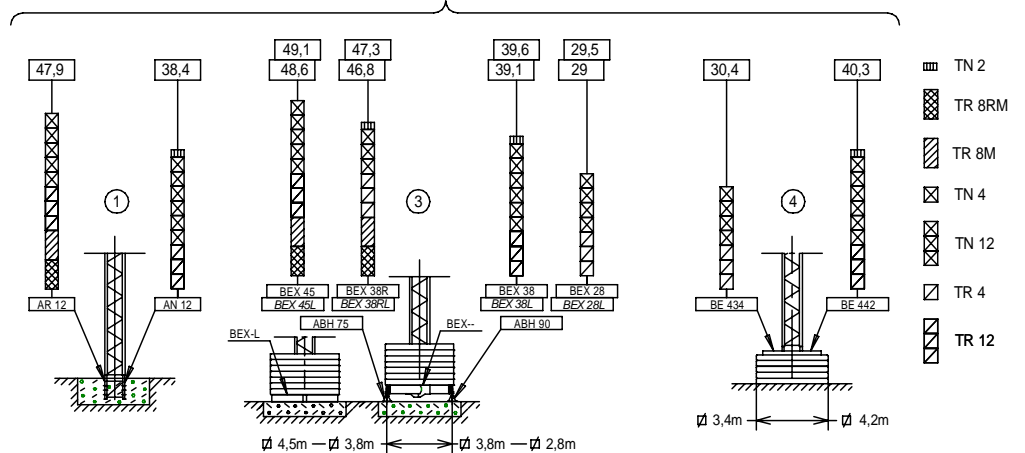
H_{SR} = Altura máxima bajo gancho sin arriostrar (m).
Maximum height under hook without fastening (m).
Con cabina bajar H_{SR} 2m.
Lower H_{SR} 2m with cabin.

| | | | |
|--------|------------|-----------------|------------|
| P09-1N | 149.40.500 | BTX 45/BEX 45 | 137.20.500 |
| P09-2N | 149.41.000 | BTX 38R/BEX 38R | 137.20.000 |
| P09-3N | 149.42.000 | BTX 38/BEX 38 | 149.20.000 |
| P09-5N | 149.44.000 | BTX 28/BEX 28 | 149.20.500 |
| P09-6N | 149.45.000 | ABH 90 | 146.23.000 |
| TR 12 | 146.30.000 | ABH 75 | 152.23.000 |
| TN 12 | 146.31.000 | AR 12 | 137.21.000 |
| TR 8RM | 202.30.000 | AN 12 | 146.21.000 |
| TR 8M | 146.30.800 | BE 442 | 146.24.850 |
| TN 4 | 146.32.000 | BE 434 | 146.24.950 |
| TR 4 | 800.32.300 | TMU 1.18 | 202.35.500 |
| TN 2 | 146.32.500 | | |

(H_{SR}) TRASLACION / TRAVELLING



(H_{SR}) ESTACIONARIA / STATIONARY



Viento fuera de servicio / Out of service wind: FEM 1001



JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L.

Fecha / Date: 15-06-2012 - Reservado el derecho a modificaciones sin previo aviso / Subject to modification, without previous warning
Declinamos toda responsabilidad derivada de la información proporcionada / This information is supplied without liability

| لجبا SR (t) | | Cargas máximas SR1 — 2 t Maximum loads SR2 — 2,5 t | | | | | | | | | | 2-2,5 t a |
|--------------|------------------------|---|------|------|------|----------------|--------|--------|--------|-------|-------------|--------------|
| PLUMA JIB | Alcance del gancho (m) | | | | | Hook reach (m) | | | | | | |
| | 42 | 40 | 37 | 35 | 32 | 30 | 27 | 25 | 22 | 20 | | |
| 42 m | 1,1 | 1,17 | 1,28 | 1,37 | 1,52 | 1,65 | 1,84 | 2 | 2-2,32 | 2-2,5 | 25,1-20,5 m | |
| 40 m | — | 1,3 | 1,42 | 1,52 | 1,68 | 1,82 | 2-2,04 | 2-2,22 | 2-2,5 | 2-2,5 | 27,5-22,5 m | |
| 37 m | — | — | 1,6 | 1,7 | 1,89 | 2-2,02 | 2-2,28 | 2-2,48 | 2-2,5 | 2-2,5 | 30,4-24,8 m | |
| 35 m | — | — | — | 1,8 | 1,99 | 2-2,15 | 2-2,4 | 2-2,5 | 2-2,5 | 2-2,5 | 31,8-26 m | |
| 32 m | — | — | — | — | 2 | 2-2,15 | 2-2,41 | 2-2,5 | 2-2,5 | 2-2,5 | 32-26,1 m | |
| 30 m | — | — | — | — | — | 2-2,2 | 2-2,47 | 2-2,5 | 2-2,5 | 2-2,5 | 30-26,7 m | |
| 27 m | — | — | — | — | — | — | 2-2,3 | 2-2,5 | 2-2,5 | 2-2,5 | 27-25 m | |
| 25 m | — | — | — | — | — | — | — | 2-2,5 | 2-2,5 | 2-2,5 | 25 m | |
| 22 m | — | — | — | — | — | — | — | — | 2-2,5 | 2-2,5 | 22 m | |
| 20 m | — | — | — | — | — | — | — | — | — | 2-2,5 | 20 m | |

| لجبا/لجبا SR/DR (t) | | Cargas máximas SR1/DR — 2 t/4 t Maximum loads SR2/DR — 2,5 t/5 t | | | | | | | | | | | 2 t — 2,5 t 4 t — 5 t a |
|---------------------|------------------------|---|------|------|------|--------|----------------|---------------|---------------|---------------|-----------------|-----------------|-------------------------------|
| PLUMA JIB | Alcance del gancho (m) | | | | | | Hook reach (m) | | | | | | |
| | 42 | 40 | 37 | 35 | 32 | 30 | 27 | 25 | 22 | 20 | 15 | 12 | |
| 42 m | 0,95 | 1,02 | 1,13 | 1,22 | 1,37 | 1,47 | 1,69 | 1,85 | 2-2,17 | 2-2,42 | 2-2,5 3,37 | 2-2,5 4 4,3 | 23,5 — 19,4 12,8 10,4 m |
| 40 m | — | 1,15 | 1,27 | 1,37 | 1,53 | 1,67 | 1,89 | 2-2,07 | 2-2,41 | 2-2,5 2,7 | 2-2,5 3,72 | 2-2,5 4 4,74 | 25,8 — 21,3 14 11,4 m |
| 37 m | — | — | 1,45 | 1,55 | 1,74 | 1,9 | 2-2,13 | 2-2,35 | 2-2,5 2,7 | 2-2,5 3,02 | 2-2,5 4 4,15 | 2-2,5 4 5 | 28,5 — 23,5 15,5 12,6 m |
| 35 m | — | — | — | 1,65 | 1,84 | 1,99 | 2-2,25 | 2-2,47 | 2-2,5 2,85 | 2-2,5 3,18 | 2-2,5 4 4,37 | 2-2,5 4 5 | 29,9 — 24,7 16,2 13,2 m |
| 32 m | — | — | — | — | 1,85 | 2 | 2-2,26 | 2-2,47 | 2-2,5 3,16 | 2-2,5 3,2 | 2-2,5 4 4,4 | 2-2,5 4 5 | 30 — 24,8 16,3 13,3 m |
| 30 m | — | — | — | — | — | 2-2,05 | 2-2,32 | 2-2,5 2,55 | 2-2,5 2,93 | 2-2,5 3,27 | 2-2,5 4 4,5 | 2-2,5 4 5 | 30 — 25,3 16,7 13,6 m |
| 27 m | — | — | — | — | — | — | 2-2,15 | 2-2,35 | 2-2,5 2,83 | 2-2,5 3,05 | 2-2,5 4 4,17 | 2-2,5 4 5 | 27 — 23,7 15,6 12,7 m |
| 25 m | — | — | — | — | — | — | — | 2-2,35 | 2-2,5 2,72 | 2-2,5 3,05 | 2-2,5 4 4,17 | 2-2,5 4 5 | 25 — 23,7 15,6 12,7 m |
| 22 m | — | — | — | — | — | — | — | — | 2-2,5 2,7 | 2-2,5 3 | 2-2,5 4 4,15 | 2-2,5 4 5 | 22 — 22 15,5 12,6 m |
| 20 m | — | — | — | — | — | — | — | — | — | 2-2,5 3 | 2-2,5 4 4,15 | 2-2,5 4 5 | 20 — 20 15,4 12,6 m |

| CARACTERISTICAS DE MECANISMOS MECHANISMS FEATURES | | | | Mecanismos sin VF: Para 480V Potencias y velocidades: 20% más. Mechanisms without VF: For 60Hz Powers and speeds: 20% more | | | | | | | | | | | | | | | | | | | | | |
|---|------------|-------------------------|-----------|---|-----------|--------------|--------|-------------------------|-----------|-----------------|-----------|--|---------|-------------------------|---------------|---------------|---------------|-----------------|--|--------------------------------------|--|------------------------------|--|------------|--|
| *opcional *optional | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | EC1846 SR2 | | EC1856 SR1 | | * EC2566 SR2 | | * EC2580 SR1 | | * EC2566 VF SR2 | | * EC2580 VF SR1 | | Ø 2,8/3,8/4,5m TG825 VF | | OG608VF | | TC 360 *TC360VF | | TH 1010 | | | | | |
| | t m/min | 1,3 46 | 2,5 23 | 2,5 5 | 1,1 56 | 2 28 | 2 6 | 1,3 64 | 2,5 32 | 2,5 8 | 1,1 82 | 2 41 | 2 10 | 1,3 0...64 | 2,5 0...32 | 1,1 0...82 | 2 0...41 | 0...25 m/min | | 0...0,4 0,4...0,8 r/min | | 30/60 m/min | | 1 m/min | |
| | t m/min | 2,6 23 | 5 11,5 | 5 2,5 | 2,2 28 | 4 14 | 4 3 | 2,6 32 | 5 16 | 5 4 | 2,2 41 | 4 20,5 | 4 5 | 2,6 0...32 | 5 0...16 | 2,2 0...41 | 4 0...20,5 | 2x3 | | 4 | | * 0...30 30...60 m/min | | 9,2 | |
| kW | | 13,2 | | | | | | 18,4 | | | | | | 2x3 | | 4 | | 1,9 *1,8 | | 9,2 | | | | | |
| Máximo recorrido gancho Maximum hook course | | SR 193 m. DR 96,5 m. | | | | | | SR 189 m. DR 94,5 m. | | | | | | | | | | 400V 50Hz | | Potencia necesaria Required power | | 25,1 kW *30,2 kW | | | |
| IMPORTANTE: A medida que la altura bajo gancho de la grúa aumenta, disminuirá la capacidad de carga. Consultar el capítulo de capacidad de carga (04.015.00) del apartado del mecanismo de elevación del manual del fabricante. | | | | | | | | | | | | IMPORTANT: When the height under hook increases, the hoisting load will decrease. Consult the chapter of load capacity (04.015.00) of the hoisting mechanism of the manufacturer's handbook. | | | | | | | | | | | | | |



JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L.

Fecha / Date: 15-06-2012 - Reservado el derecho a modificaciones sin previo aviso / Subject to modification, without previous warning
Declinamos toda responsabilidad derivada de la información proporcionada / This information is supplied without liability

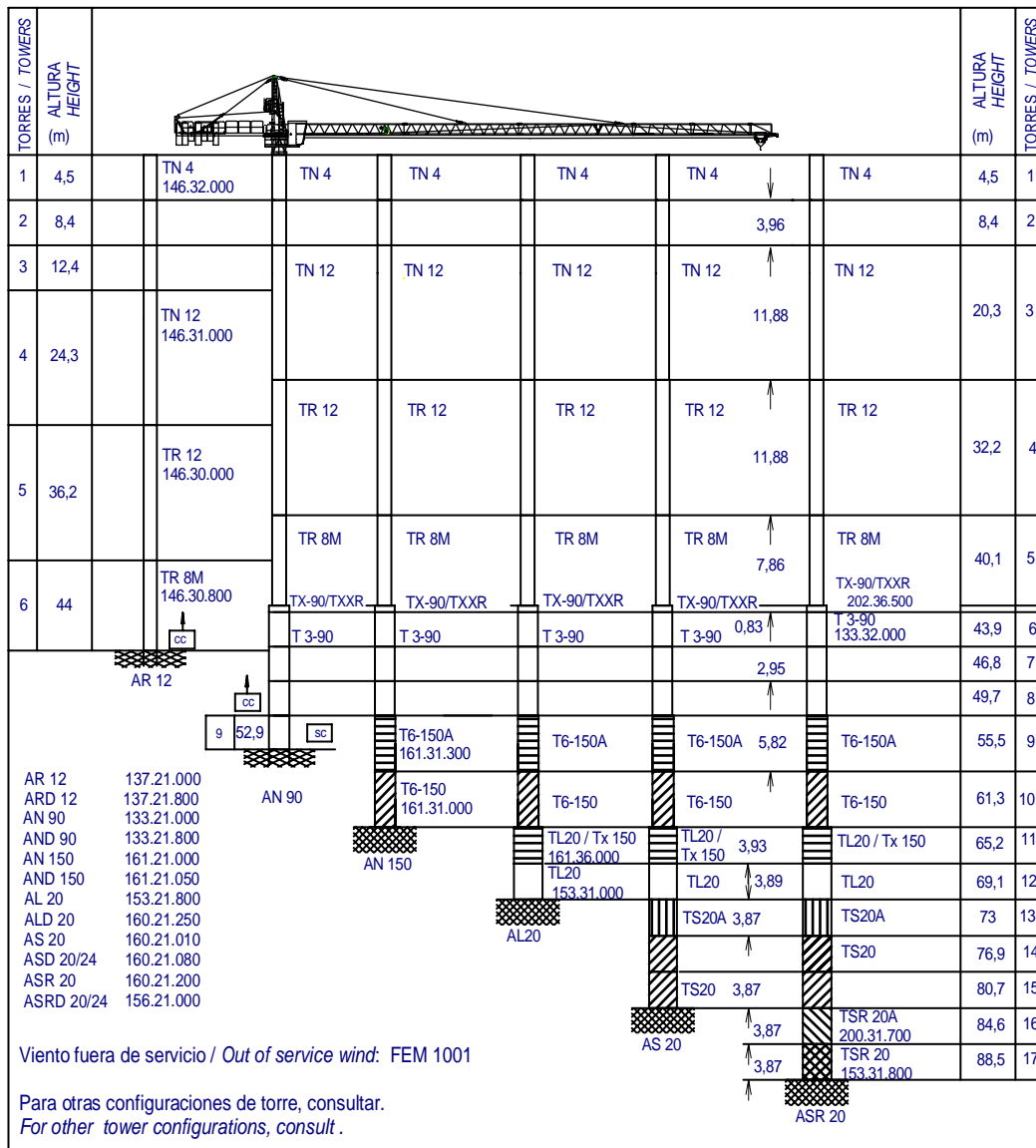
| DENOMINACION DENOMINATION | | L (m) | A (m) | H (m) | Peso (kg) Weight (kg) | |
|---|-----------------------------------|-----------|-------|-------|--------------------------|------|
| Torre Tower section | TR 8RM - TR 8M | 8,07 | 1,19 | 1,19 | 2575-2515 | |
| | TR 12 - TN 12 | 12,01 | 1,19 | 1,19 | 2840-2780 | |
| | TN 4RA - TN 4 | 4,06-4,09 | 1,19 | 1,19 | 1100-1055 | |
| | TR 4 | 3,96 | 1,18 | 1,18 | 1070 | |
| | TN 2 | 2,29 | 1,19 | 1,19 | 785 | |
| Torre asiento de pista+Base punta torre+Orientación. Slewing table+Tower head base+Slewing mechanism | | 2,91 | 1,65 | 2,15 | 2080 | |
| Estructura punta de torre+elevación Tower head structure+hoisting | | 5,46 | 1,19 | 2,31 | 1990 | |
| Torre asiento pista+punta torre+orientación+elevación Slewing table+Tower head+slewing+hoisting | | 6,97 | 1,65 | 2,42 | 4070 | |
| Tramo de pluma Jib section | P09-1N(I) | 10,13 | 1,00 | 1,13 | 1020 | |
| | P09-2N(II) | 10,16 | 0,87 | 1,14 | 940 | |
| | P09-3N(III) | 10,15 | 0,87 | 1,12 | 880 | |
| | P09-5N(IV-V) | 5,26 | 0,87 | 1,02 | 295 | |
| | P09-6N(VI) | 2,13 | 0,86 | 1,02 | 110 | |
| | Polipasto Hook assembly | | 0,76 | 0,16 | 0,96 | 135 |
| Carro Crab | SR | 0,10 | 1,33 | 0,73 | 110 | |
| | DR | 1,04 | 1,37 | 0,88 | 175 | |
| Contrapluma con plataformas Counterjib with platforms | | 8,15 | 1,41 | 0,43 | 1335 | |
| Plataforma y cabina Platform and cabin | | 3,69 | 1,63 | 2,25 | 820 | |
| Base grúa Crane base | Estacionaria III / Stationary III | BEX 28 | 4,96 | 0,84 | 1,53 | 2870 |
| | | BEX 38 | 6,38 | 0,84 | 1,53 | 3400 |
| | | BEX 38R | 6,38 | 0,84 | 1,47 | 3800 |
| | | BEX 45 | 7,37 | 0,84 | 1,47 | 4380 |
| | Traslación / Travelling | BTX 28 | 4,60 | 1,62 | 1,63 | 4005 |
| | | BTX 38 | 6,02 | 1,62 | 1,63 | 4760 |
| | | BTX 38R | 6,02 | 1,73 | 1,73 | 5230 |
| | | BTX 45 | 7,01 | 1,62 | 1,73 | 5995 |
| Contrapeso Counterweight | Grande / Big | 1,08 | 0,50 | 2,02 | 2360 | |
| | Pequeño / small | 1,08 | 0,50 | 1,30 | 1500 | |
| Lastre Ballast | Est. III - Stationary III | Ø2,8 | 3,00 | 0,44 | 1,30 | 3700 |
| | | Ø3,8-Ø4,5 | 4,00 | 0,34 | 1,30 | 4100 |
| | Trasl. - Travelling | BE 442 | 2,09 | 0,34 | 2,10 | 3450 |
| | | BE 434 | 3,40 | 0,34 | 1,69 | 4300 |
| Torre de montaje Jacking cage | | 7,14 | 1,76 | 1,71 | 3200 | |
| Estructura torre de montaje sin puerta, carro, plataforma carro y viga de apoyo Jacking cage structure without door, trolley, trolley platform and beam assembly | | 7,14 | 1,76 | 1,71 | 2450 | |

| LASTRES INFERIORES / LOWER BALLASTS | | Para alturas intermedias tomar el lastre correspondiente a la altura superior. For intermediate heights take the ballast corresponding to the higher height. | | | | | | |
|---|--|---|---|----|---|----|---|----|
| Viento fuera de servicio / Out of service wind: FEM 1001. | | | | | | | | |
| Altura bajo gancho (m) / Height under hook (m) | | 14 | 18 | 22 | 30 | 40 | 46 | 49 |
| Numero de piedras de lastre Number of ballast blocks | Est. III Stationary III Trasl. Travelling | BEX 45 / BTX 45 | 6 | | 8 | 10 | 12 | 14 |
| | | BEX 45L | 8 | | | 10 | 12 | 14 |
| | | BEX 38R / BTX 38R BEX 38 / BTX 38 | 6 | 8 | 10 | 12 | 14 | — |
| | | BEX 38RL / BEX 38L | 8 | | 10 | 12 | 14 | — |
| | Piedras: 4100kg Blocks: 4100 kg | BEX 28 / BTX 28 BEX 28L | 8 | 10 | 12 | | | |
| Est. IV Stationary IV | Piedras: 3700kg Blocks: 3700 kg | hasta 18,3 m 8 piedras until 18,3 m 8 blocks | | | hasta 30,4 m 10 piedras until 30,4 m 10 blocks | | | |
| | Piedras: 4300kg Blocks: 4300 kg | BE 434 | hasta 26,1 m 12 piedras until 26,1 m 12 blocks | | hasta 30 m 16 piedras until 30 m 16 blocks | | hasta 40,3 m 20 piedras until 40,3 m 20 blocks | |
| | Piedras: 3450kg Blocks: 3450 kg | BE 442 | | | | | | |



JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L.

Fecha / Date: 15-06-2012 - Reservado el derecho a modificaciones sin previo aviso / Subject to modification, without previous warning
Declinamos toda responsabilidad derivada de la información proporcionada / This information is supplied without liability



Transporte grúa de 38,4 m bajo gancho con estacionaria I
38.4 m under hook crane transport with stationary I

En camiones / In trucks

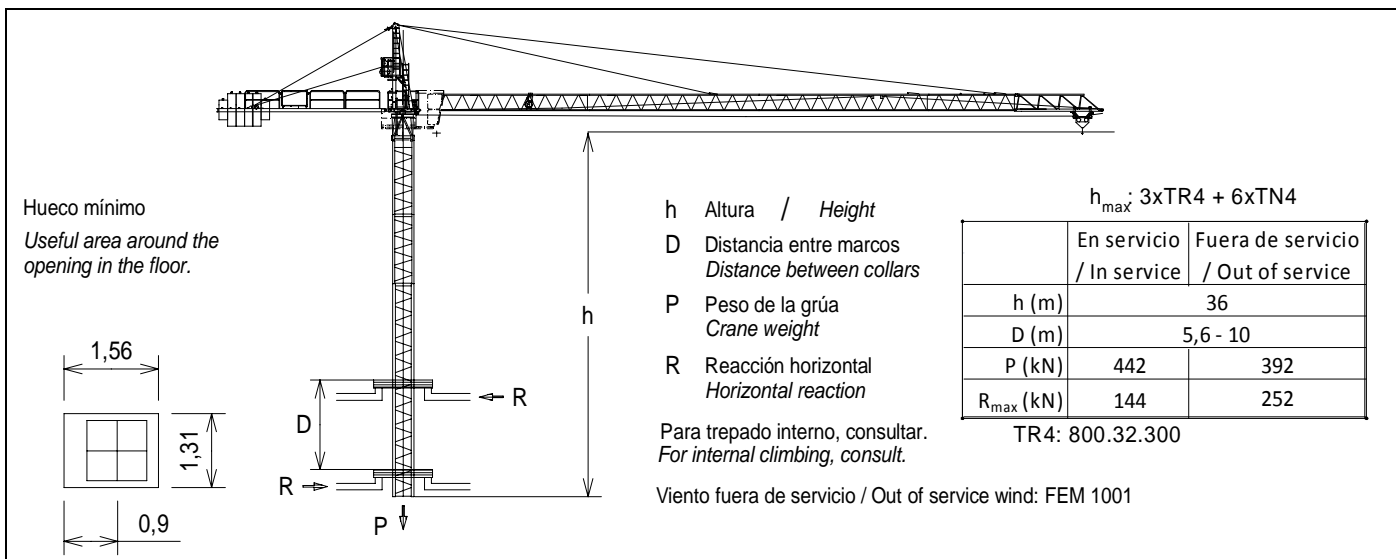
2 unidades / 2 units

En contenedores / In containers

HIGH CUBE 40'

3 unidades / 3 units

Máximo número de torres TN 4 a colocar por encima del último arriostamiento: 6
Maximun TN 4 mast sections above the last tie-back: 6



JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L.

Ctra./Rd. Madrid - Irún Km. 415
20.213 IDIAZABAL [Gipuzkoa]
ESPAÑA / SPAIN
P.O. Box, 23 - 20.200 BEASAIN

Tel. +34 943 - 18 70 00
Fax. +34 943 - 18 70 20
E-mail: jaso@jaso.com
http://www.jaso.com

Fecha / Date: 15-06-2012

Reservado el derecho a modificaciones sin previo aviso / Subject to modification, without previous warning
Declinamos toda responsabilidad derivada de la información proporcionada / This information is supplied without liability

DELEGACION / DELEGATION