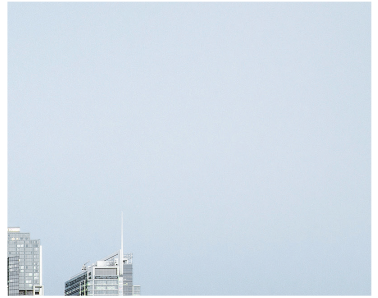
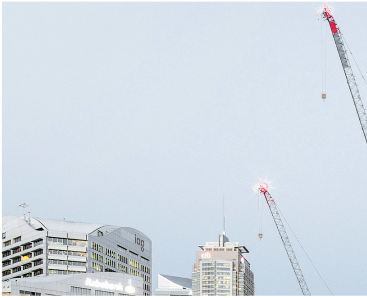
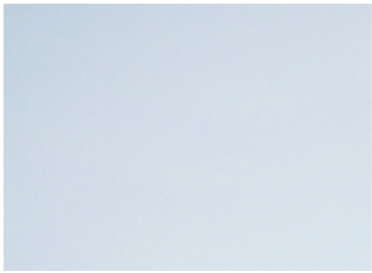


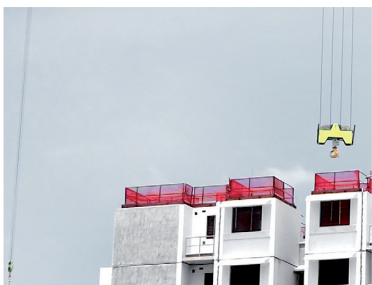
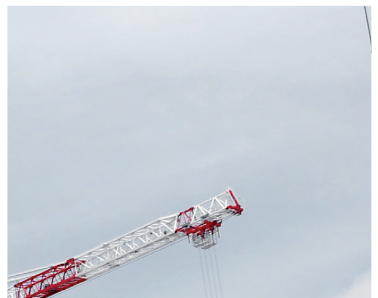
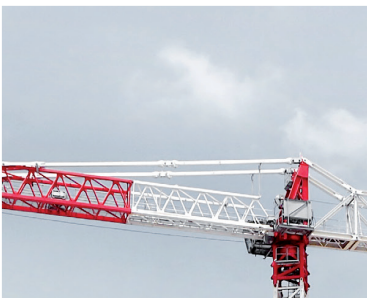


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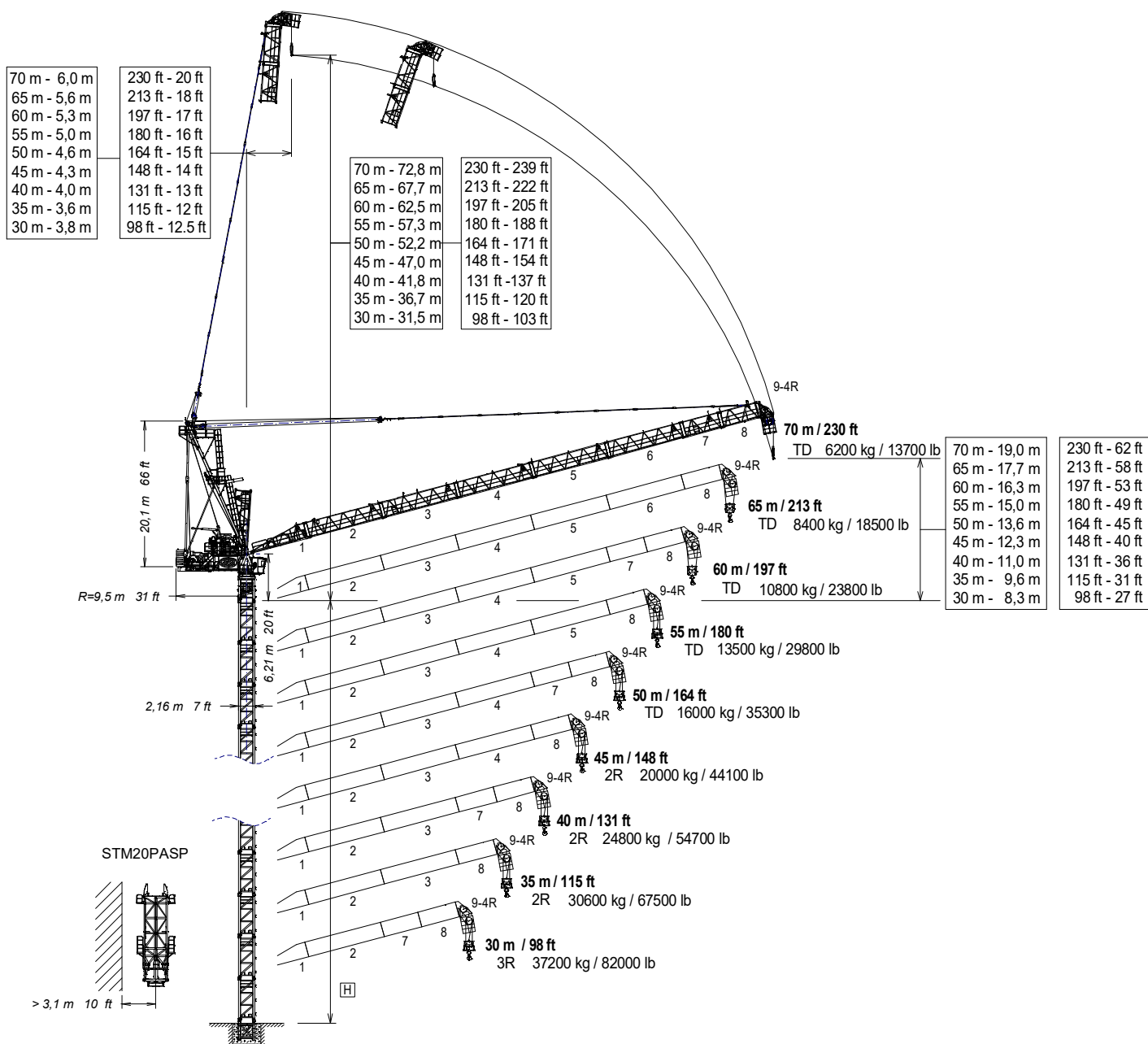
## GRUA TORRE TOWER CRANE

# J780PA.64



UNE 58-101  
FEM 1001

UNE-EN-ISO 9001



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

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FEM 1001



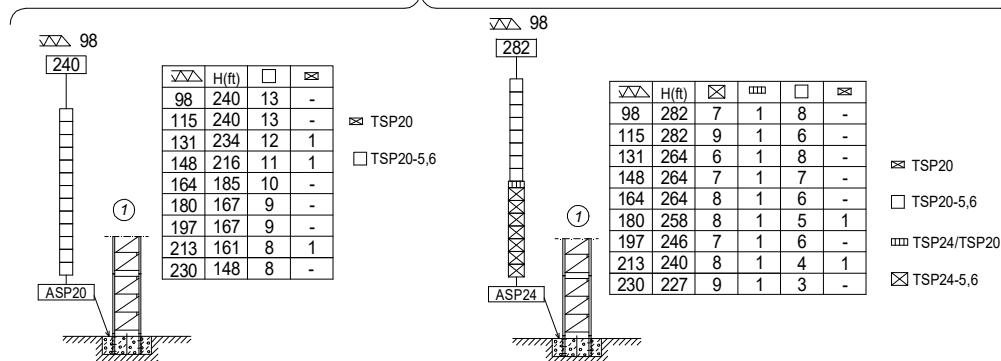
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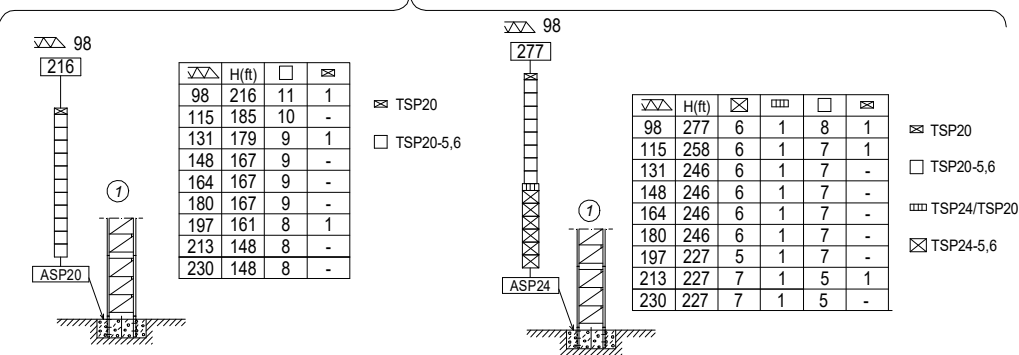
### TD

#### (H) ESTACIONARIA / STATIONARY



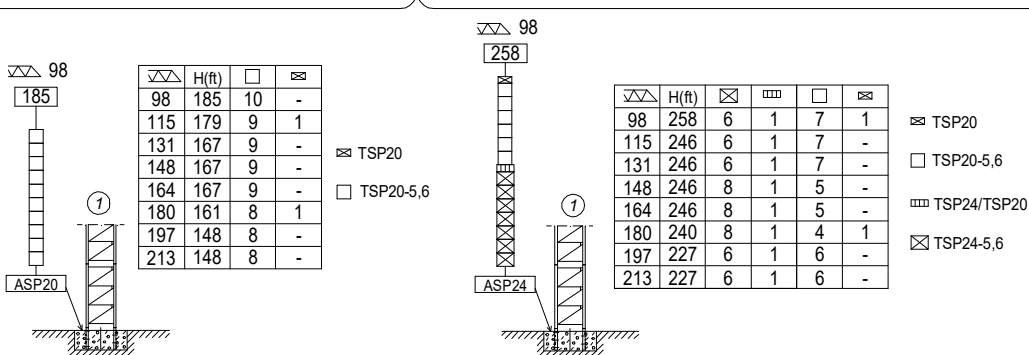
### 2R

#### (H) ESTACIONARIA / STATIONARY



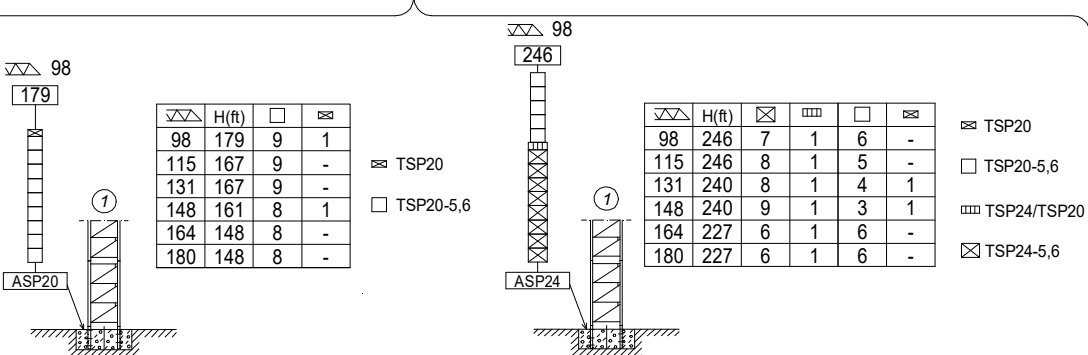
### 3R

#### (H) ESTACIONARIA / STATIONARY



### 4R

#### (H) ESTACIONARIA / STATIONARY



Fecha / Date: 16/01/2023

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## CARGAS / LOADS

**J780PA.64**

|  TD (lb) |                          | Cargas máximas / Maximum loads<br>TD-35300 lb |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  [ft]    | TD<br>35300 lb<br>@ (ft) | Alcance del gancho [ft] / Hook reach [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 (lb) |                   |        | Cargas máximas / Maximum loads<br>2R (lb) |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------|-------------------|--------|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  [ft]     | 2R<br>max<br>(lb) | @ (ft) | Alcance del gancho [ft] / Hook reach [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 (lb) |                   |        | Cargas máximas / Maximum loads<br>3R (lb) |        |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------|-------------------|--------|-------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|  [ft]     | 3R<br>max<br>(lb) | @ (ft) | Alcance del gancho [ft] / Hook reach [ft] |        |       |       |       |       |       |       |       |       |
|                                                                                             |                   |        | 66                                        | 82     | 98    | 115   | 131   | 148   | 164   | 180   | 197   | 213   |
| 230                                                                                         | 92600             | 89     | 92600                                     | 92600  | 79400 | 62200 | 49200 | 39000 | 30900 | 24300 | 18700 | 14100 |
| 213                                                                                         | 105800            | 81     | 105800                                    | 103400 | 79400 | 62400 | 49400 | 39500 | 31300 | 24900 | 19400 |       |
| 197                                                                                         | 105800            | 81     | 105800                                    | 103400 | 79600 | 62600 | 49800 | 39900 | 32000 | 25400 | -     |       |
| 180                                                                                         | 105800            | 81     | 105800                                    | 104100 | 80200 | 63300 | 50700 | 40800 | 32800 | -     | -     |       |
| 164                                                                                         | 105800            | 81     | 105800                                    | 104700 | 81100 | 64400 | 51800 | 42100 | -     | -     | -     |       |
| 148                                                                                         | 105800            | 81     | 105800                                    | 104700 | 81600 | 65000 | 52700 | -     | -     | -     | -     |       |
| 131                                                                                         | 105800            | 81     | 105800                                    | 104700 | 81800 | 65500 | -     | -     | -     | -     | -     |       |
| 115                                                                                         | 105800            | 81     | 105800                                    | 104700 | 82000 | -     | -     | -     | -     | -     | -     |       |

|  4R (lb) |                           |  | Cargas máximas / Maximum loads<br>4R – 141100 lb |        |        |       |       |       |       |       |       |  |
|---------------------------------------------------------------------------------------------|---------------------------|--|--------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--|
|  [ft]     | 4R<br>141100 lb<br>@ (ft) |  | Alcance del gancho [ft] / Hook reach [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 | -     | -     | -     | -     |  |
| 180                                                                                         | 64                        |  | 141100                                           | 137600 | 103800 | 81400 | -     | -     | -     | -     | -     |  |



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## CARACTERISTICAS DE MECANISMOS / MECHANISMS FEATURES

**J780PA.64**

| *opcional<br>*optional |                      |                        |                                                                               |                     |
|------------------------|----------------------|------------------------|-------------------------------------------------------------------------------|---------------------|
|                        | EC150160VF<br>110 kW | * EC180200VF<br>132 kW | OG4007VF<br>2x15 kW                                                           | EP15020VF<br>110 kW |
|                        |                      |                        | 0... 0,7<br>r/min<br>sl/min                                                   | 2<br>min            |
|                        |                      |                        | 480V 60Hz<br><br>EC150160VF: AMPERAGE = 400 A<br>EC180200VF: AMPERAGE = 435 A |                     |
|                        |                      |                        | <br><br>ecoMode                                                               |                     |
|                        |                      |                        | H<br>H ≤<br>TD 2992 ft<br>2R 1496 ft<br>3R 997 ft<br>4R 748 ft<br><br>3809 ft |                     |



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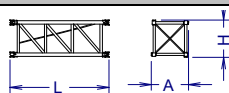
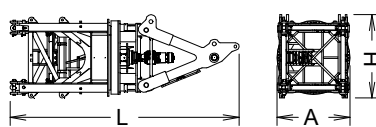
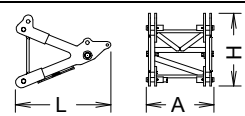
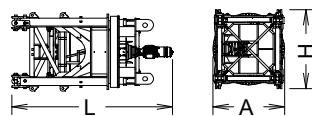
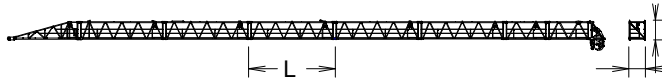
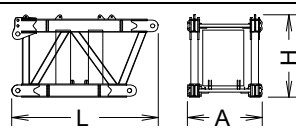
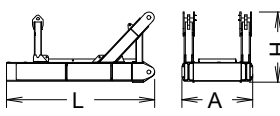
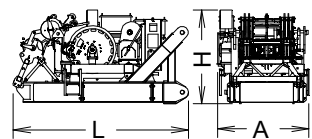
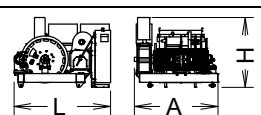
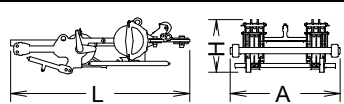
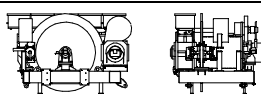
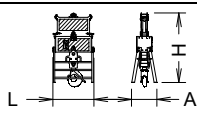
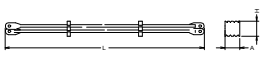
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## LISTA DE EMBARQUE / PACKING LIST

**J780PA.64**

| DENOMINACIÓN / DENOMINATION                                                                                    |                    | L [ft]                                                                                               | A [ft]     | H [ft]     | P / W [lb]     |
|----------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------|------------|------------|----------------|
| Torre<br>Tower                                                                                                 | TSP20<br>TSP20-5,6 | <br>14.4<br>20.2    | 7.5<br>7.5 | 7.8<br>7.8 | 12380<br>16900 |
| Torre asiento pista, torre superior y orientación<br>Slewing table, top tower and slewing mechanism            |                    | <br>23.8           | 7.6        | 8.6        | 56310          |
| Punta de torre<br>Top tower                                                                                    |                    | <br>10.5            | 7.5        | 8.0        | 13000          |
| Torre asiento pista + base punta de torre + orientación<br>Slewing table + tower head base + slewing mechanism |                    | <br>17.1           | 7.6        | 8.3        | 43310          |
| Tramo de pluma<br>Jib section                                                                                  | [1]                | <br>29.1           | 7.5        | 7.4        | 8690           |
|                                                                                                                | [2]                |                                                                                                      | 7.1        | 7.8        | 9510           |
|                                                                                                                | [3]                |                                                                                                      | 6.5        | 7.5        | 8180           |
|                                                                                                                | [4]                |                                                                                                      | 6.5        | 7.9        | 7320           |
|                                                                                                                | [5]                |                                                                                                      | 6.5        | 7.5        | 7255           |
|                                                                                                                | [6]                |                                                                                                      | 6.5        | 7.4        | 6350           |
|                                                                                                                | [7]                |                                                                                                      | 6.5        | 7.4        | 4000           |
|                                                                                                                | [8]                |                                                                                                      | 6.5        | 7.5        | 5080           |
|                                                                                                                | [9-4R]             |                                                                                                      | 6.7        | 11.8       | 6680           |
| Contrapluma 1<br>Counterjib 1                                                                                  |                    | <br>14.7         | 7.5        | 8.3        | 21860          |
| Contrapluma 2<br>Counterjib 2                                                                                  |                    | <br>15.7         | 7.5        | 7.4        | 17780          |
| Contrapluma 2 + Elevación pluma + pasteca<br>Counterjib 2 + Luffing mech + Reeving block                       |                    | <br>16.7         | 8.7        | 8.9        | 42440          |
| Elevación pluma<br>Luffing mech                                                                                |                    | <br>9.4          | 8.1        | 6.8        | 16470          |
| Pasteca<br>Reeving Block                                                                                       |                    | <br>11.0         | 3.5        | 6.7        | 4135           |
| Mecanismo elevacion carga sin cable<br>Hoisting mechanism without rope                                         |                    | <br>10.5         | 7.7        | 6.5        | 16535          |
| Polipasto<br>Hook assembly                                                                                     | 4R                 | <br>4.5           | 1.7        | 8.5        | 3730           |
|                                                                                                                | 2R/3R              |                                                                                                      | 3.1        | 8.3        | 3685           |
|                                                                                                                | TD                 |                                                                                                      | 1.1        | 6.9        | 840            |
| Tirante sostén pluma<br>Jib support tie                                                                        |                    | <br>17.8<br>17.8 | 1.2<br>1.2 | 1.3<br>1.3 | 3060<br>3030   |

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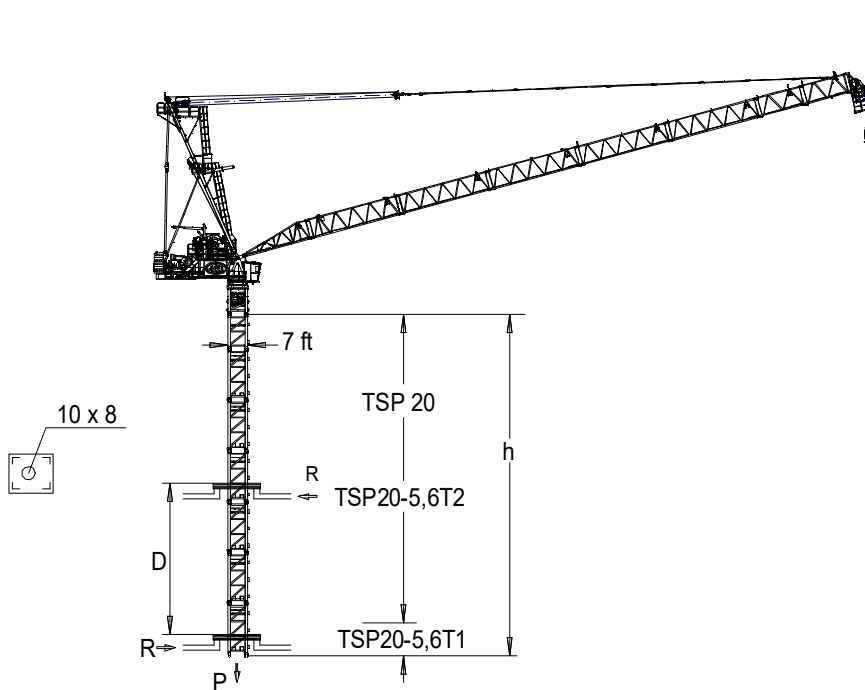


## LISTA DE EMBARQUE / PACKING LIST

**J780PA.64**

| DENOMINACIÓN / DENOMINATION                                       |            | L [ft]      | A [ft]     | H [ft]     | P / W [lb]    |
|-------------------------------------------------------------------|------------|-------------|------------|------------|---------------|
| Parte superior + mecanismo auxiliar<br>Top part + auxiliary winch |            | 38.8        | 7.5        | 6.5        | 39240         |
| Plataforma y cabina (2 x 1,5)<br>Platform and cabin               |            | 12.0        | 7.5        | 8.1        | 2760          |
| Contrapeso<br>Counterweight                                       |            | 14.8<br>7.6 | 0.8<br>0.8 | 3.3<br>3.3 | 17640<br>8820 |
| <b>TM20PASP-5,6</b>                                               |            |             |            |            |               |
| Package 1.                                                        |            |             |            |            |               |
| Transporte torre de montaje<br>Jacking cage transport             |            | 38.1        | 7.3        | 8.2        | 26270         |
|                                                                   | Package 2. |             |            |            |               |
|                                                                   |            | 38.3        | 6.6        | 8.2        | 31815         |

## TREPADO / CLIMBING

**J780PA.64**


TSP20-5,6T1: 214.31.000  
TSR20-5,6T2: 214.31.500



Trepado interno / Internal climbing

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

|            |         |        |  |
|------------|---------|--------|--|
|            | TD      |        |  |
| h (ft)     | 147     |        |  |
| D (ft)     | 43 - 69 |        |  |
| P (lbf)    | 674400  | 611500 |  |
| Rmax (lbf) | 204600  | 296700 |  |

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

|            |         |        |  |
|------------|---------|--------|--|
|            | 2R      |        |  |
| h (ft)     | 147     |        |  |
| D (ft)     | 43 - 69 |        |  |
| P (lbf)    | 698000  | 626100 |  |
| Rmax (lbf) | 203500  | 300100 |  |

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

|            |         |        |  |
|------------|---------|--------|--|
|            | 3R      |        |  |
| h (ft)     | 147     |        |  |
| D (ft)     | 44 - 69 |        |  |
| P (lbf)    | 731800  | 623800 |  |
| Rmax (lbf) | 201200  | 291100 |  |

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

|           |         |        |  |
|-----------|---------|--------|--|
|           | 4R      |        |  |
| h (m)     | 147     |        |  |
| D (m)     | 46 - 69 |        |  |
| P (kN)    | 754200  | 610400 |  |
| Rmax (kN) | 196700  | 275400 |  |



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