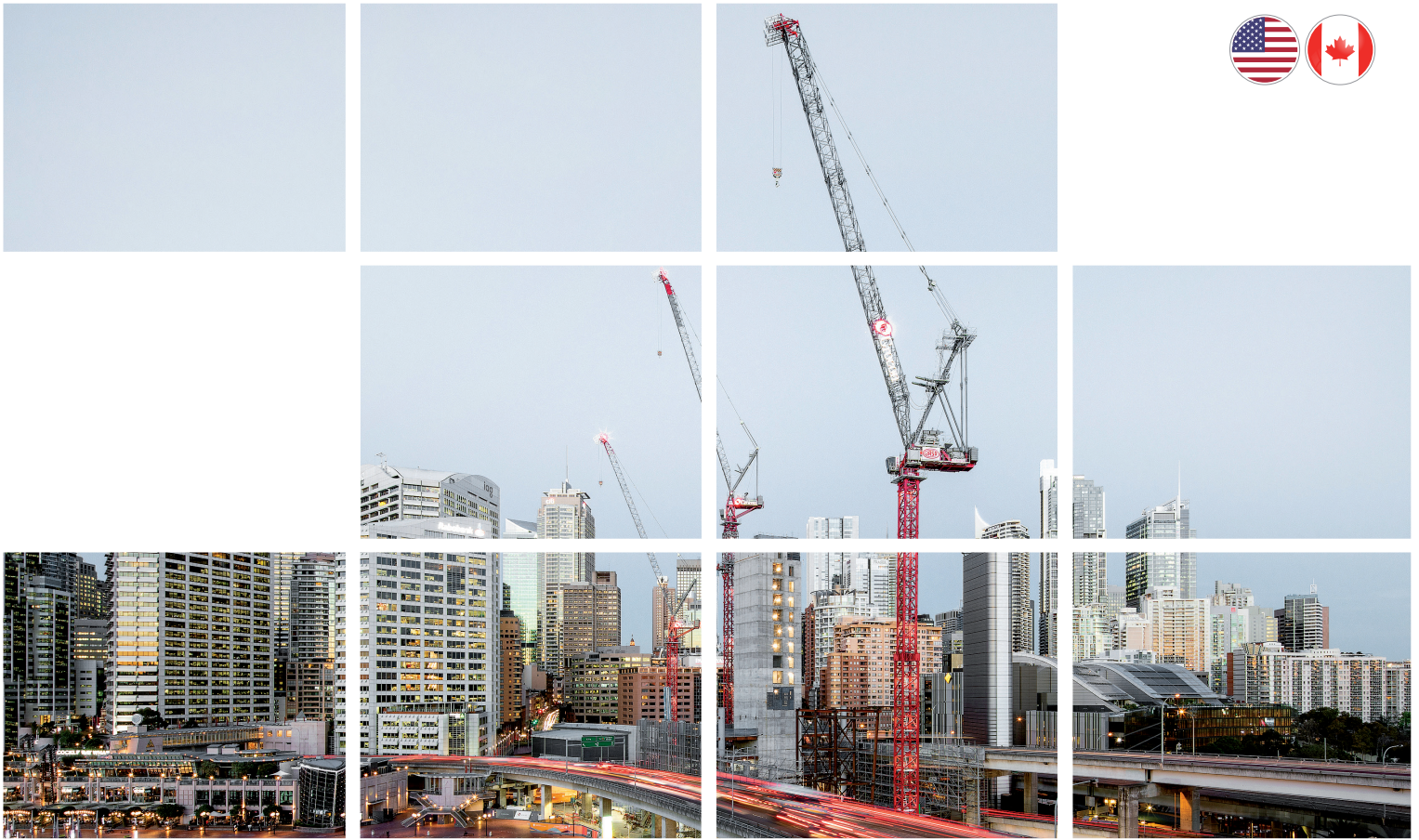




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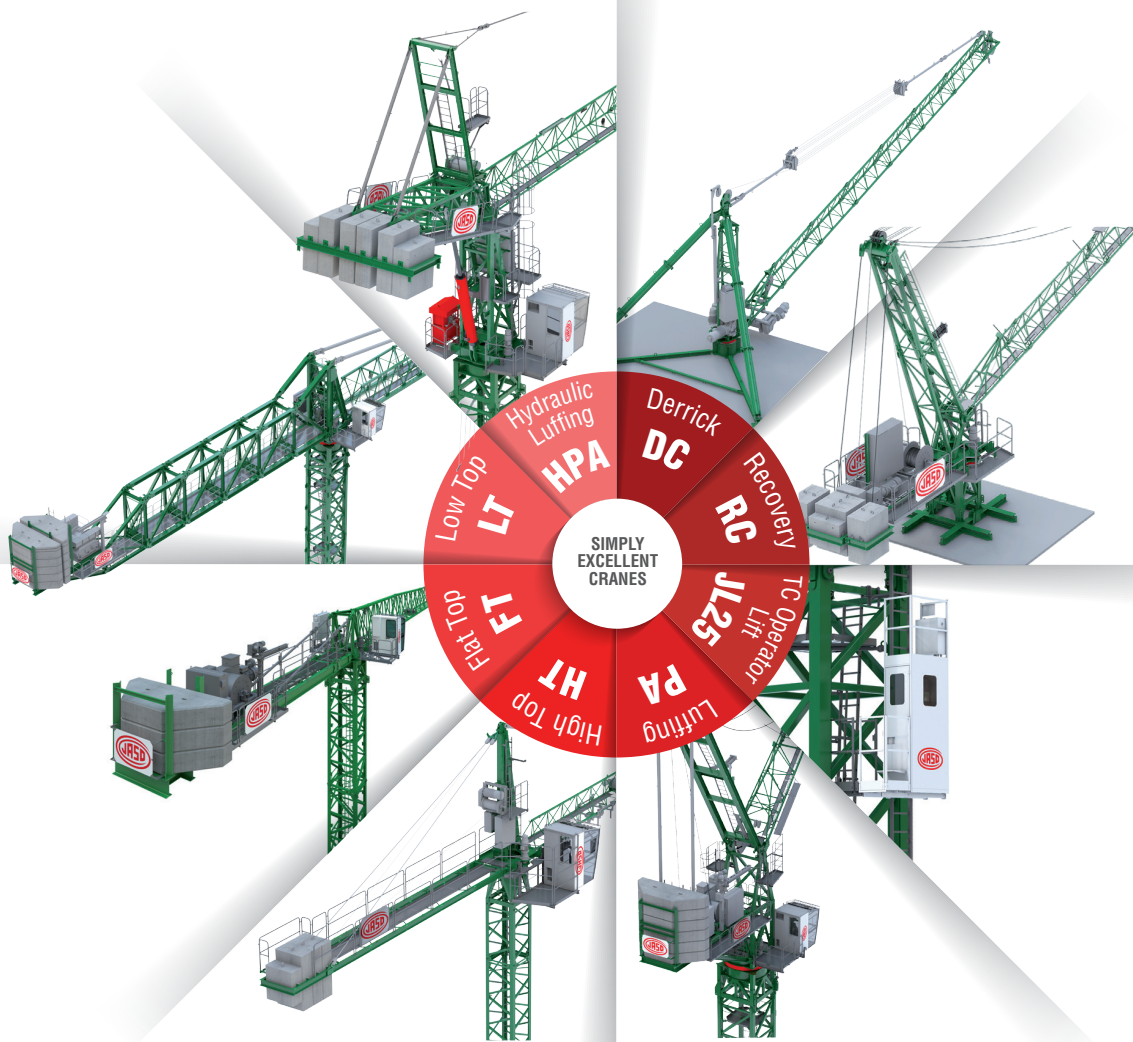
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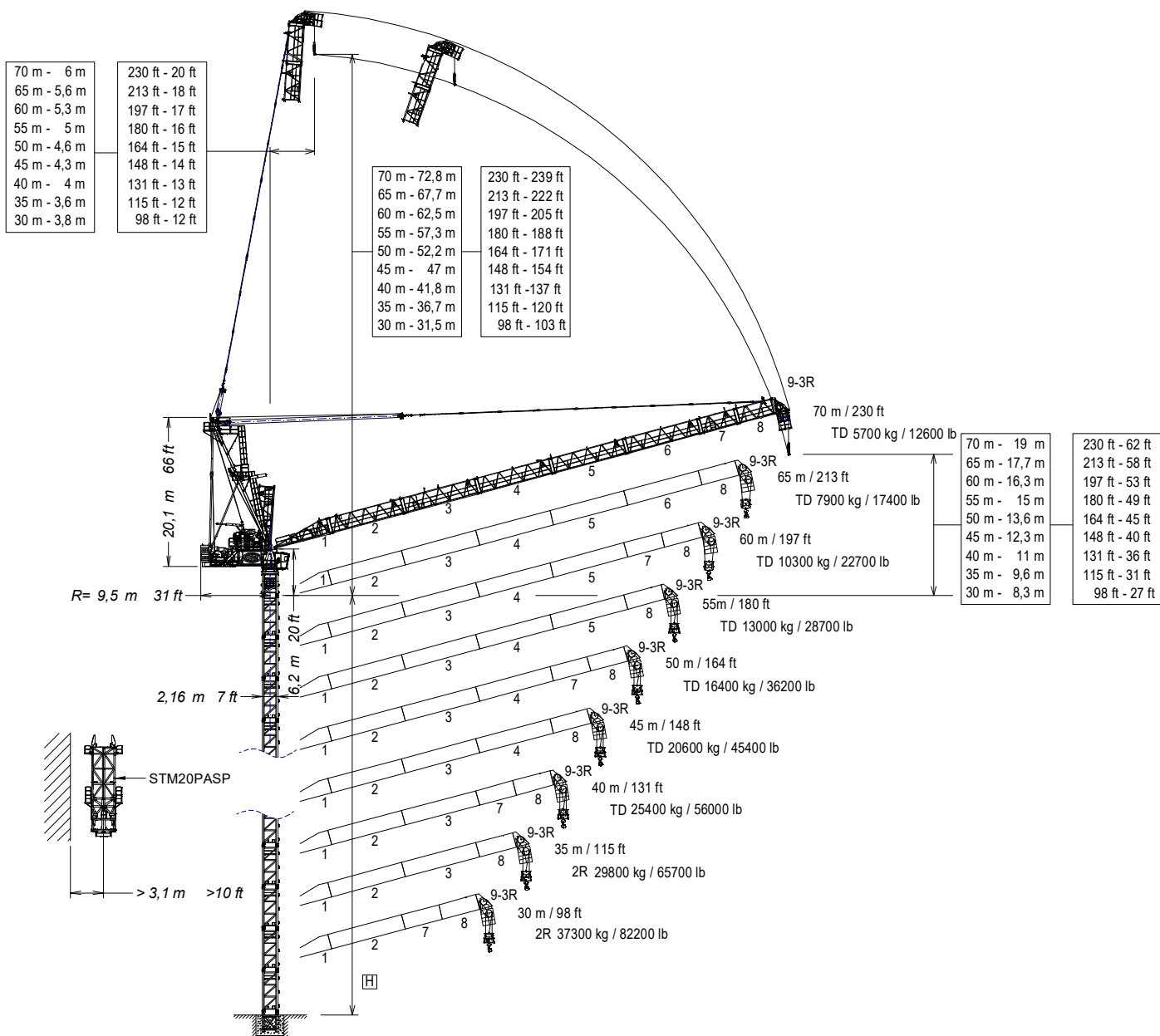
## GRUA TORRE TOWER CRANE

# J780PA



UNE 58-101  
FEM 1001

UNE-EN-ISO 9001



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

Fecha / Date: 16/01/2023



FEM 1001



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### TD

(H) ESTACIONARIA / STATIONARY

98

222

| ▽   | H(ft) | □  | ⊠ |
|-----|-------|----|---|
| 98  | 222   | 12 | - |
| 115 | 198   | 10 | 1 |
| 131 | 167   | 9  | - |
| 148 | 167   | 9  | - |
| 164 | 161   | 8  | 1 |
| 180 | 148   | 8  | - |
| 197 | 148   | 8  | - |
| 213 | 130   | 7  | - |
| 230 | 124   | 6  | 1 |

⊠ TSP20

□ TSP20-5,6

ASP20

①

98

264

| ▽   | H(ft) | ⊠ | ⊠ | □  | ⊠ |
|-----|-------|---|---|----|---|
| 98  | 264   | 3 | 1 | 11 | - |
| 115 | 264   | 6 | 1 | 8  | - |
| 131 | 227   | 4 | 1 | 8  | - |
| 148 | 227   | 5 | 1 | 7  | - |
| 164 | 227   | 6 | 1 | 6  | - |
| 180 | 227   | 6 | 1 | 6  | - |
| 197 | 209   | 6 | 1 | 5  | - |
| 213 | 209   | 6 | 1 | 5  | - |
| 230 | 209   | 7 | 1 | 4  | - |

⊠ TSP20

□ TSP20-5,6

⊠ TSP24/TSP20

⊠ TSP24-5,6

ASP24

①

### 2R

(H) ESTACIONARIA / STATIONARY

98

167

| ▽   | H(ft) | □ | ⊠ |
|-----|-------|---|---|
| 98  | 167   | 9 | - |
| 115 | 167   | 9 | - |
| 131 | 161   | 8 | 1 |
| 148 | 148   | 8 | - |
| 164 | 148   | 8 | - |
| 180 | 142   | 7 | 1 |
| 197 | 130   | 7 | - |
| 213 | 130   | 7 | - |

⊠ TSP20

□ TSP20-5,6

ASP20

①

98

227

| ▽   | H(ft) | ⊠ | ⊠ | □ | ⊠ |
|-----|-------|---|---|---|---|
| 98  | 227   | 4 | 1 | 8 | - |
| 115 | 227   | 4 | 1 | 8 | - |
| 131 | 227   | 5 | 1 | 7 | - |
| 148 | 227   | 6 | 1 | 6 | - |
| 164 | 209   | 5 | 1 | 6 | - |
| 180 | 209   | 5 | 1 | 6 | - |
| 197 | 191   | 4 | 1 | 6 | - |
| 213 | 191   | 4 | 1 | 6 | - |

⊠ TSP20

□ TSP20-5,6

⊠ TSP24/TSP20

⊠ TSP24-5,6

ASP24

①

### 3R

(H) ESTACIONARIA / STATIONARY

98

167

| ▽   | H(ft) | □ | ⊠ |
|-----|-------|---|---|
| 98  | 167   | 9 | - |
| 115 | 161   | 8 | 1 |
| 131 | 148   | 8 | - |
| 148 | 148   | 8 | - |
| 164 | 142   | 7 | 1 |
| 180 | 142   | 7 | 1 |

⊠ TSP20

□ TSP20-5,6

ASP20

①

98

227

| ▽   | H(ft) | ⊠ | ⊠ | □ | ⊠ |
|-----|-------|---|---|---|---|
| 98  | 227   | 5 | 1 | 7 | - |
| 115 | 209   | 4 | 1 | 7 | - |
| 131 | 209   | 4 | 1 | 7 | - |
| 148 | 209   | 4 | 1 | 7 | - |
| 164 | 209   | 5 | 1 | 6 | - |
| 180 | 209   | 5 | 1 | 6 | - |

⊠ TSP20

□ TSP20-5,6

⊠ TSP24/TSP20

⊠ TSP24-5,6

ASP24

①



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## CARGAS / LOADS

**J780PA**

|  TD (lb) |                          | Cargas máximas / Maximum loads<br>TD-61700 lb |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  [ft]    | TD<br>61700 lb<br>@ (ft) | Alcance del gancho [ft] / Hook reach [ft]     |       |       |       |       |       |       |       |       |       |
|                                                                                           |                          | 82                                            | 98    | 115   | 131   | 148   | 164   | 180   | 197   | 213   | 230   |
| 230                                                                                       | 121                      | 61700                                         | 61700 | 61700 | 54000 | 43200 | 34600 | 27600 | 21800 | 16800 | 12600 |
| 213                                                                                       | 121                      | 61700                                         | 61700 | 61700 | 54000 | 43400 | 35100 | 28000 | 22300 | 17400 | -     |
| 197                                                                                       | 121                      | 61700                                         | 61700 | 61700 | 54000 | 43700 | 35300 | 28400 | 22700 | -     | -     |
| 180                                                                                       | 121                      | 61700                                         | 61700 | 61700 | 54200 | 43900 | 35500 | 28700 | -     | -     | -     |
| 164                                                                                       | 122                      | 61700                                         | 61700 | 61700 | 54700 | 44300 | 36200 | -     | -     | -     | -     |
| 148                                                                                       | 123                      | 61700                                         | 61700 | 61700 | 55800 | 45400 | -     | -     | -     | -     | -     |
| 131                                                                                       | 124                      | 61700                                         | 61700 | 61700 | 56000 | -     | -     | -     | -     | -     | -     |
| 115                                                                                       | 115                      | 61700                                         | 61700 | 61700 | -     | -     | -     | -     | -     | -     | -     |
| 98                                                                                        | 98                       | 61700                                         | 61700 | -     | -     | -     | -     | -     | -     | -     | -     |

|  2R (lb) |                   |        | Cargas máximas / Maximum loads<br>2R (lb) |        |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------|-------------------|--------|-------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|  [ft]     | 2R<br>max<br>(lb) | @ (ft) | Alcance del gancho [ft] / Hook reach [ft] |        |       |       |       |       |       |       |       |       |
|                                                                                           |                   |        | 66                                        | 82     | 98    | 115   | 131   | 148   | 164   | 180   | 197   | 213   |
| 213                                                                                       | 92600             | 89     | 92600                                     | 92600  | 79100 | 62000 | 49200 | 39000 | 31100 | 24500 | 19000 | 14300 |
| 197                                                                                       | 123500            | 72     | 123500                                    | 103200 | 79400 | 62200 | 49400 | 39500 | 31500 | 25100 | 19600 | -     |
| 180                                                                                       | 123500            | 72     | 123500                                    | 103400 | 79600 | 62600 | 49800 | 39900 | 32000 | 25600 | -     | -     |
| 164                                                                                       | 123500            | 72     | 123500                                    | 103600 | 80000 | 63300 | 50700 | 41000 | 33100 | -     | -     | -     |
| 148                                                                                       | 123500            | 72     | 123500                                    | 104500 | 81100 | 64600 | 52000 | 42300 | -     | -     | -     | -     |
| 131                                                                                       | 123500            | 72     | 123500                                    | 104700 | 81600 | 65300 | 52900 | -     | -     | -     | -     | -     |
| 115                                                                                       | 123500            | 72     | 123500                                    | 104700 | 82000 | 65700 | -     | -     | -     | -     | -     | -     |
| 98                                                                                        | 123500            | 72     | 123500                                    | 104900 | 82200 | -     | -     | -     | -     | -     | -     | -     |

|  3R (lb) |             |        | Cargas máximas / <i>Maximum loads</i><br>3R (lb) |        |        |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------|-------------|--------|--------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|
|  [ft]     | 3R max (lb) | @ (ft) | Alcance del gancho [ft] / <i>Hook reach [ft]</i> |        |        |       |       |       |       |       |       |
|                                                                                             |             |        | 49                                               | 66     | 82     | 98    | 115   | 131   | 148   | 164   | 180   |
| 180                                                                                         | 143300      | 62     | 143300                                           | 133200 | 98500  | 75400 | 58900 | 46300 | 36800 | 29100 | 22700 |
| 164                                                                                         | 154300      | 58     | 154300                                           | 133200 | 98800  | 75800 | 59500 | 47400 | 37900 | 30200 | -     |
| 148                                                                                         | 165300      | 55     | 165300                                           | 133200 | 99400  | 76900 | 60800 | 48900 | 39500 | -     | -     |
| 131                                                                                         | 165300      | 55     | 165300                                           | 133600 | 100100 | 77800 | 61950 | 50000 | -     | -     | -     |
| 115                                                                                         | 165300      | 55     | 165300                                           | 133800 | 100800 | 78700 | 62800 | -     | -     | -     | -     |
| 98                                                                                          | 165300      | 55     | 165300                                           | 134000 | 101200 | 79400 | -     | -     | -     | -     | -     |



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## CARACTERISTICAS DE MECANISMOS / MECHANISMS FEATURES

**J780PA**

|  | <b>EC300310VF</b> |               | <b>OG4007VF</b><br>2x15 kW                                                               | <b>EP15020VF</b><br>110 kW                 | <b>TH6006</b><br>45 kW |
|--|-------------------|---------------|------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|
|  | <b>110 kW</b>     | <b>220 kW</b> |                                                                                          |                                            |                        |
|  |                   |               | 0... 0.7<br>r/min<br>sl/min                                                              |                                            | 2<br>ft/min            |
|  |                   |               | <br><b>EC300310VF(110): AMPERAGE = 400 A</b><br><b>EC300310VF(220): AMPERAGE = 560 A</b> |                                            |                        |
|  |                   |               |                                                                                          |                                            |                        |
|  |                   |               |                                                                                          | TD 3303 ft<br>H ≤ 2R 1654 ft<br>3R 1102 ft | 4380 ft                |



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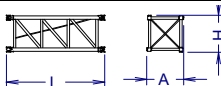
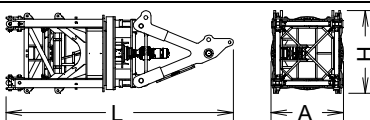
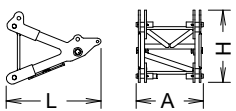
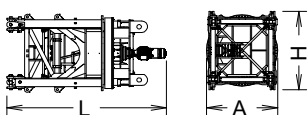
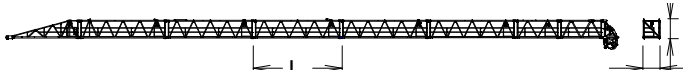
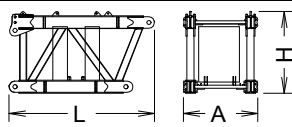
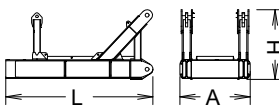
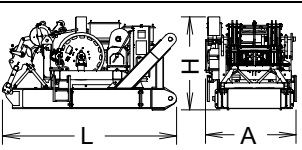
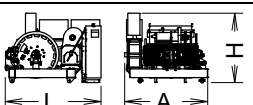
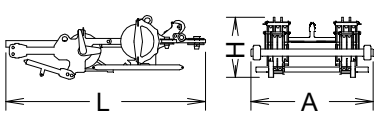
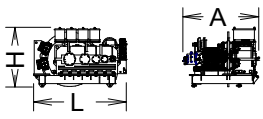
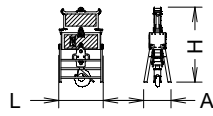
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## LISTA DE EMBARQUE / PACKING LIST

**J780PA**

| DENOMINACIÓN / DENOMINATION                                                                                    |           |                                                                                      | L [ft] | A [ft] | H [ft] | P / W [lb] |
|----------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--------|--------|--------|------------|
| Torre / Tower                                                                                                  | TSP20     |     | 14.4   | 7.5    | 7.8    | 12380      |
|                                                                                                                | TSP20-5,6 |                                                                                      | 20.2   | 7.5    | 7.8    | 16900      |
|                                                                                                                | TSP24-5,6 |                                                                                      | 20.2   | 9.0    | 9.4    | 18290      |
| Torre asiento pista. torre superior y orientación<br>Slewing table. top tower and 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<br>Slewing table + tower head base + slewing mechanism |           |    | 17.1   | 7.6    | 8.3    | 43310      |
| Tramo de pluma<br>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    | 7100       |
|                                                                                                                | [5]       |                                                                                      | 34.7   | 6.5    | 7.5    | 7250       |
|                                                                                                                | [6]       |                                                                                      | 34.7   | 6.5    | 7.4    | 6350       |
|                                                                                                                | [7]       |                                                                                      | 17.7   | 6.5    | 7.4    | 4000       |
|                                                                                                                | [8]       |                                                                                      | 17.7   | 6.5    | 7.5    | 5080       |
|                                                                                                                | [9-3R]    |                                                                                      | 6.6    | 6.7    | 11.8   | 6680       |
| Contrapluma 1<br>Counterjib 1                                                                                  |           |   | 14.7   | 7.5    | 8.3    | 21860      |
| Contrapluma 2<br>Counterjib 2                                                                                  |           |  | 15.7   | 7.5    | 7.4    | 17780      |
| Contrapluma 2 + Elevación pluma + pasteca<br>Counterjib 2 + Luffing mech + Reeving block                       |           |  | 16.7   | 8.7    | 8.9    | 42440      |
| Elevación pluma / Luffing mech                                                                                 |           |  | 9.4    | 8.1    | 6.8    | 18760      |
| Pasteca / Reeving Block                                                                                        |           |  | 11.0   | 3.5    | 6.7    | 4130       |
| Mecanismo elevacion carga sin cable<br>Hoisting mechanism without rope                                         |           |  | 12.5   | 10.2   | 8.3    | 44770      |
| Polipasto / Hook assembly                                                                                      | TD/2R/3R  |  | 5.0    | 3.1    | 8.3    | 4480       |
|                                                                                                                | TD        |                                                                                      | 1.9    | 1.3    | 5.7    | 1490       |
| Tirante sostén pluma / Jib support tie                                                                         |           |  | 17.8   | 1.2    | 1.3    | 3060       |
|                                                                                                                |           |                                                                                      | 17.8   | 1.2    | 1.3    | 3030       |



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## LISTA DE EMBARQUE / PACKING LIST

**J780PA**

| 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       |
| <b>TM20PASP-5,6</b>                                               |            |        |        |        |            |
| Transporte torre de montaje<br>Jacking cage transport             | Package 1. |        |        |        |            |
|                                                                   |            | 38.1   | 7.2    | 8.2    | 26270      |
|                                                                   | Package 2  |        |        |        |            |
|                                                                   |            | 38.3   | 6.6    | 8.2    | 31810      |
| Contrapeso / Counterweight                                        |            | 14.8   | 0.8    | 3.3    | 17640      |

## TREPADO / CLIMBING

**J780PA**

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

Trepado interno / Internal climbing

$h_{max} = \text{TSP20-5,6T1} + 4 \times \text{TSP20-5,6} + \text{TSP20-5,6T2} + \text{TSP20}$

|            |         |        |
|------------|---------|--------|
|            | TD      |        |
| h (ft)     | 123     |        |
| D (ft)     | 44 – 56 |        |
| P (lbf)    | 695800  | 632800 |
| Rmax (lbf) | 199000  | 255200 |

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

|            |         |        |
|------------|---------|--------|
|            | 2R      |        |
| h (ft)     | 129     |        |
| D (ft)     | 44 – 59 |        |
| P (lbf)    | 748600  | 621600 |
| Rmax (lbf) | 201200  | 266400 |

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

|            |         |        |
|------------|---------|--------|
|            | 3R      |        |
| h (ft)     | 147     |        |
| D (ft)     | 41 – 69 |        |
| P (lbf)    | 786800  | 618200 |
| Rmax (lbf) | 211300  | 292300 |

Viento fuera de servicio / Out of service wind

Consultar / Consult

En servicio / In service

Fuera de servicio / Out of service



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