**General information**

Junttan DR 27 is a pure drilling rig without compromise. It can complete demanding drilling tasks with Kelly, CFA and Displacement working methods. The maximum torque is 250 kNm.

Junttan rigs are famous for their fast and easy set up, and this rig is no exception. The rig can be transported as one compact piece from one worksite to another. The leader can be raised and lowered effortlessly, and the counterweight can be loaded and unloaded, when needed, without any additional equipment. Changing of the working method from one to another is easy, because no demanding installations are needed.

One of the key points in the design of this new product is the easiness of operation. A new fully electronic control unit ensures reliable and accurate control of the rig in all situations with only two control leavers. The driver cabin has a new practical design. The driving force of the rig is one of the best in its class, and its turning ability is excellent. Accurate information about drilling tasks is given by a new drilling measurement device.

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**Technical Data**

### Leader

<table>
<thead>
<tr>
<th>Type</th>
<th>KE_DR270501</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Length m (ft)</td>
<td>25 (82)</td>
</tr>
<tr>
<td>Maximum extration force kN (lb)</td>
<td>250 (56000)</td>
</tr>
<tr>
<td>Inclinations Backward/forward/sideward</td>
<td>15°/5°/5° (electronic leader inclinometer)</td>
</tr>
</tbody>
</table>

### Rotary head

<table>
<thead>
<tr>
<th>Type</th>
<th>JD 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque kNm (ft-lb)</td>
<td>250 (184 500)</td>
</tr>
<tr>
<td>Rotation speed rpm</td>
<td>750</td>
</tr>
<tr>
<td>Spin off speed rpm</td>
<td>120</td>
</tr>
</tbody>
</table>

### Winches

<table>
<thead>
<tr>
<th>Type</th>
<th>(single line pull, 1. layer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main winch kg (lb)</td>
<td>20 000 (44 000)</td>
</tr>
<tr>
<td>Aux. winch kg (lb)</td>
<td>8 000 (17 600)</td>
</tr>
<tr>
<td>Crowd winch Crowd force kN (lb)</td>
<td>330 (74 200)</td>
</tr>
<tr>
<td>Stroke CFA-mode m (ft)</td>
<td>18 (59)</td>
</tr>
<tr>
<td>Stroke Kelly-mode m (ft)</td>
<td>10 (33)</td>
</tr>
</tbody>
</table>

### Uppercarriage

- **Engine**
  - Make and Model: Cummins QSM11
  - Power kW (hp): 298 (400)
  - Fuel tank volume l (gal): 500 (132)

- **Hydraulics**
  - Hydraulic oil tank volume l (gal): 900 (290)
  - Max. oil flow l/min (gpm): 880 at 2000 rpm (160 at 2000 rpm)
  - Max. pressure bar (psi): 180 (2640)

- **Counterweight**
  - Weight kg (lb): 13 000 (28 600)

### Undercarriage

- **Type**
  - Crawler length mm (ft): 5650 (18 ½)
  - Min. width mm (ft): 3000 (9 ¾)
  - Max. width mm (ft): 4300 (14 ¼)
  - Triple grouser type track shoes mm (ft): 800 (2 ½)

### Transport dimensions

- **Length with rotary head m (ft)**: 18.7 (61)
- **Width mm (ft)**: 3600 (11 ¾)
- **Height mm (ft)**: 3500 (11 ¾)
- **Total weight kg (lb)**: 65 000 (143 300)
- **including rotary head (7 000 kg / 15 400 lb) and counterweight (10 000 kg / 22 000 lb)**

### Optional equipment / Working method

- **CFA and Displacement-work**
  - DR 27+ JD 25 rotary head for CFA and bored displacement piles.
  - Drilling depth without auger cleaner: 18 m (59 ft)
  - Drilling diameter (CFA): 1200 mm (47")
  - Drilling diameter (Displacement): 500 mm (20")
  - Counterweight: 13 000 kg (28 600 lb)
  - Working weight: 65 000 kg (143 300 lb) without tools

- **Kelly-work**
  - DR 27 + JD 25 rotary head for large diameter bored piles.
  - Drilling depth: Max. 60 m (197 ft)
  - Drilling diameter: 1500 mm (59") cased
  - 2500 mm (98") uncased
  - Counterweight: 13 000 kg (28 600 lb)
  - Working weight: 65 000 kg (143 300 lb) without tools

### Approvals

- Manufactured according to EN 791 standard