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**Transport Dimension**

JUNTTAN PM 16 with HHK 3A hammer transport dimensions with the standard leader.

JUNTTAN PM 16 with HHK 3A hammer transport dimensions, leader equipped with hinge.
**Junttan PM 16** is the most compact Junttan piling rig designed for pile driving where piles are lighter and shorter. The rig can be used for driving timber, concrete and different types of steel piles. The recommended hammer ram weight is from 3 000 to 4 000 kg and the maximum pile length is 18 meters (59 ft). The rig has proven productivity due to excellent mobility, easy and fast handling of piles and top pile driving performance with Junttan hydraulic hammers. An optional side drill or vibrator hammer makes pile driving even more efficient in some soil conditions. With optional Junttan equipment, optimised working set-up of the rig can be easily achieved.

This compact and agile Junttan piling rig has the same proven features as the heavier Junttan machines. Its rugged design makes it a safe and reliable rig even in the most demanding working conditions. The self-erecting leader and many advanced technical features ensure that the rig is ready to work in just a few minutes. The ergonomic and safety tested cabin allows the driver to concentrate completely on his work. The expandable tracks and low centre of gravity make the rig exceptionally stable in different working situations. The horizontal movement of the leader ensures fast spotting of the pile. Because of the lightweight construction and compact size, the rig can be easily transported to a new working site.

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### General Information

**Junttan PM 16**

- **Leader Type**: KE 160405
- **Length Leader sections**: 15+4 (49 1/4+13 1/8)
- **Total Length**: 19.2 (63)
- **Maximum capacity (pile+hammer)**: 12 000 (26 400)
- **Movements**
  - Vertical movement up/down: 1200/300 (47/12)
  - Horizontal movement max.: 1200 (47)
- **Inclinations**: According to a separate capacity table
- **Others**
  - Hydraulic pile arms on leader
  - Electronic leader inclinometer

### Upper carriage

- **Winches** (single line pull, 1. layer)
  - Main winch (hammer): kg (lb) 8 000 (17 600)
  - Aux. winch (pile): kg (lb) 5 000 (11 000)
- **Engine**
  - Make and Model: Cummins QSB6.7
  - Max. power: kW (hp) 179 (240)
- **Hydraulics**
  - Hydraulic oil tank volume: l (gal) 450 (119)
  - Max. oil flow: l/min (gpm) 2x 160 + 86 at 2000 rpm (2x 42 + 23 at 2000 rpm)
  - Max. pressure: bar (psi) 320 (4640)

### Undercarriage

- **Type**: AV 160402
- **Crawler length**: mm (ft) 4460 (14 5/8)
- **Min. width**: mm (ft) 3000 (9 13/16)
- **Max. width**: mm (ft) 4000 (13 1/8)
- **Triple grouser type track shoes**: mm (ft) 900 (2 15/16)
- **Transport dimensions**
  - Length: m (ft) 19.2 (63)
  - Width: mm (ft) 3000 (9 13/16)
  - Height without hammer: mm (ft) 3200 (10 1/2)
  - Height with hammer: mm (ft) 3600 (11 13/16)
  - Total weight: kg (lb) 30 000 (66 150)
    - (excluding hammer and any additional equipment)

### Optional equipment

- Leader hinge
- Air conditioning for cabin
- Leader extension piece 2 m (6 ½ ft)
- Energy measuring device
- Top cathead
- Flat track shoes
- Side drill (JD 1.5)
- Narrow track shoes 800 mm (2 5/8 ft)
- Stabilizers (rear legs)
- Other accessories available on request

### Approvals

Manufactured according to EN 996 standard

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### Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>HHK 3AL</th>
<th>HHK 3A</th>
<th>HHK 3S</th>
<th>HHK 4A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. energy</strong> kN·m (ft-lbs)</td>
<td>35 (7 7/8)</td>
<td>35 (7 7/8)</td>
<td>44 (32 1/2)</td>
<td>47 (34 7/8)</td>
</tr>
<tr>
<td><strong>Stroke</strong> m (ft)</td>
<td>0.05-0.8 (7/8)</td>
<td>0.05-1.2 (3 3/8)</td>
<td>0.05-1.5 (3 3/8)</td>
<td>0.05-1.2 (3 3/8)</td>
</tr>
<tr>
<td><strong>Blows (adjustable) per min</strong></td>
<td>40-100</td>
<td>40-100</td>
<td>40-100</td>
<td>40-100</td>
</tr>
<tr>
<td><strong>Ram weight</strong> kg (lb)</td>
<td>3 000 (6 600)</td>
<td>3 000 (6 600)</td>
<td>3 000 (6 600)</td>
<td>4 000 (8 820)</td>
</tr>
<tr>
<td><strong>Total weight including drive cap</strong> kg (lb)</td>
<td>5 000 (11 000)</td>
<td>6 300 (13 900)</td>
<td>6 500 (14 300)</td>
<td>7 500 (16 530)</td>
</tr>
</tbody>
</table>

*Pile length depends on the hammer. See the table of hydraulic hammers beside.*