## Technical Data

### 1.1 Configuration of the Integrated Equipment

#### (1) Engine

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>DEUTZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>F6L912W or BF4m1013C</td>
</tr>
<tr>
<td>Design</td>
<td>air/water-cooled diesel engine two-stage combustion</td>
</tr>
<tr>
<td>Air intake system</td>
<td>oil-bath-air filter for F6L912W OR Dry air filter for BF4m1013C</td>
</tr>
<tr>
<td>Exhaust system</td>
<td>Silencer/exhaust gas catalyst</td>
</tr>
</tbody>
</table>

#### (2) Torque converter

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>DANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>C272</td>
</tr>
<tr>
<td>Design</td>
<td>single-stage industrial type with auxiliary drives for steering and dump/hoist hydraulic systems</td>
</tr>
</tbody>
</table>

#### (3) Power shift transmission

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>DANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>R20000</td>
</tr>
<tr>
<td>Design</td>
<td>power shift transmission with 3 forward and 3 reverse gears each</td>
</tr>
</tbody>
</table>

#### (4) Axles

<table>
<thead>
<tr>
<th>Type</th>
<th>made by our factory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>rigid planetary axles with differential gear</td>
</tr>
</tbody>
</table>

#### (5) Design of brake system

| Design of service brake   | multi-disk brake, externally cooled |
| Design of parking brake   | spring brake operated disk brake, hydraulically released |
(6) **Hydraulic system**

**Dump/hoist hydraulic system**

Number of hoist cylinders 2
Number of dump cylinders 1

**Working time:**

Boom raising + Bucket raising, from dumping position \( \ll 18 \text{ seconds} \)
Capacity of hydraulic working system: 119L/Min
Max. operating pressure: 13.8MPa

**Steering hydraulic system**

Number of steering cylinders 2 (articulated, hydraulic, bidirectional)
Steering Pump Capacity: 24 Gal/Min
Steering system pressure: 13.8MPa

(7) **Wheels and tires**

Tires 12.00-24

---

**1.2 Performance of the Integrated Equipment**

(1) **Main dimensions**

- Length 6375±100 mm
- Width 1524±50 mm
- Height (above driver’s canopy) 2032±50 mm
- Bucket capacity (SAE, heaped) 1.73 m³
- Width of the bucket 1524±50mm (standard)
- Max hoist height 3708±50 mm
- Max unloading height 1240±50 mm
- Unloading angle 45°
- Inner clearance circle 2991±150 mm
- Outer clearance circle 4291±250 mm
- Steering angle 36° ± 2°

(2) **Weights**
Operating weight: 10500 kg
Payload: 3600 kg

(3) Driving capacities

Maximum driving speed, laden forward/reverse, on a level roadway
1st gear: 0 ~ 4.8 km/h
2nd gear: 0 ~ 8.9 km/h
3rd gear: 0 ~ 11.9 km/h

Maximum admissible gradient: 14%
Maximum tractive force: 105 kN
Maximum shoveling force: 98 kN

(4) Electrical equipment

Operating voltage: 24 V
Alternator: 28 V/35 A
Battery: 2 × 12 V/165 Ah
Starting motor: 3.6 kw/24V

(5) Filling volumes

Fuel tank: 150 L
Hydraulic tank: 107 L

Remarks:

Fambition will keep right to improve the specifications without advanced notification.
FAML - 1.5 Diesel LHD