New!

424B2
Backhoe Loader

MADE FOR YOU
Lower fuel,
Higher savings.

BUILT FOR IT."
Hydraulics
- Load Sensing Closed center system.
- At any engine rpm, Flow is varied based on system demand – high demand (hoe loading) – high flow, low demand (load & carry/digging) – low flow, minimal demand (road marching) – minimal flow.
- Flow is varied by varying swash plate angle of axial piston pump.
- Optimal load on engine and lower fuel consumption

Power Train
- Kirloskar engine gives better fuel efficiency, lower maintenance.
- New front axle with improved steering geometry, equal steering and increased wheel tread. This gives lower steering effort, good steering performance and higher stability

Reliability and Durability
- HD boom with internal reinforcement and strengthened with increased plate thickness on all sides
- HD rear axle with increased torque capacity results in lower load on axle even in aggressive application
- Steel casted pins and bushes gives longer life
- Tested and proved loader structures, hydraulics, engine and drive train
- All these gives very high reliability and durability
Performance
- Excavator style boom has better reach over obstacles and assist in easy and smooth loading of high body trucks.
- Boom-stick-bucket is designed with perfect geometry which aids well for digging
- 205 degree hoe bucket rotation gives better heap capacity
- Superior rimpull delivers excellent dozing performance

Servicing
- Optimal refill capacities result in lower maintenance cost.
- All servicing points are kept at convenient locations.
- Battery is kept at safe location.
- Flip open hood gives full access to the engine.

Operator Station
- Cabin is reinforced with strengthened doors and windows with additional metal layer.
- Suspension seat as standard with better lumbar support.
- Spacious cabin with excellent all around visibility.
- Ergonomically designed hoe levers which are interchangeable from ‘x’ to ‘+’.
- Changing levers from one to another is simple, easy and quick.
- New rotatable ball joint in the hoe lever linkage, lowers operating effort and gives better comfort.
**Engine**

**KOEL 4R 1047** – Turbo Charged, Direct Injection, Four Cylinder Engine

- **Ratings at 2200 rpm**
  - **kW**
  - **hp**
  - **Gross Power**: 96/76

**Dimensions**

- **Bore**: 105 mm
- **Stroke**: 120 mm
- **Displacement**: 4.16 liters

**Weights**

- **Operating Weight (Estimated)**: 7700 kg
- **Operating Weight (Maximum)**: 7911 kg

**Standard single tilt loader with 1.1 m³ general purpose loader bucket, 0.24 m³ backhoe bucket, 86 kg operator and a full fuel tank.**

**Service Refill Capacities**

- **Cooling System**: 11.3L
- **Fuel Tank**: 128L
- **Engine with oil filter**: 12L
- **Transmission**: 78L
- **Rear axle including planetary**: 17.2L
- **Hydraulic Tank**: 58L

**Hydraulic System**

**Axial Piston Variable flow**

- **Pump Capacity @ 2200 rpm**: 115 lpm
- **System Pressure**: 235 bar Loader, 245 bar Backhoe

**Transmission**

**Cat® Power Shuttle transmission.**

The gear ratios are engineered to deliver higher Torque at 1st and 2nd gear. This ensures better loading and dozing performance.

**Torque Converter**

- **Single Stage, 2.5:1 – Stall ratio**
- **Travel Speed (when equipped with 16.9 x 28 Rear Tires)**
  - **Forward**: 6.2 km/h, 6.2 km/h
  - **Reverse**: 10.2 km/h, 10.2 km/h
  - **3rd**: 23.8 km/h, 23.8 km/h
  - **4th**: 38.3 km/h, 38.3 km/h

**Steering**

- **Fully hydrostatic equal steering, with double acting double and rod cylinder.**
- **Turning Circle**: 9.93 m
- **Outside end loader bucket**: 11.96 m

**Brakes**

- **Fully enclosed, hydraulics, multiple discs.**

**Axles**

- **Standard two-wheel drive**

**Tires**

- **Standard**: 9.16 x 16 – 16 PR
- **Tubed**: 14 x 25 - 20 PR
- **Optional Rear (Heavy Duty)**: 16.9 x 28 – 12 PR

**Machine Dimensions**

**Single Tilt Loader**

**Loader Bucket Dimensions**

<table>
<thead>
<tr>
<th>Single Tilt Loader General Purpose (Basic)</th>
<th>Capacity (SAT rated)</th>
<th>1.1 m³</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Overall transport length</td>
<td>5699 mm</td>
<td>5926 mm</td>
</tr>
<tr>
<td><strong>B</strong> Overall transport length (standard stick)</td>
<td>3726 mm</td>
<td>3872 mm</td>
</tr>
<tr>
<td><strong>C</strong> Overall width</td>
<td>2168 mm</td>
<td>2244 mm</td>
</tr>
<tr>
<td><strong>D</strong> Height to top of cab</td>
<td>2377 mm</td>
<td>2407 mm</td>
</tr>
<tr>
<td><strong>E</strong> Height to top of exhaust stack</td>
<td>2718 mm</td>
<td>2869 mm</td>
</tr>
<tr>
<td><strong>F</strong> Ground Clearance</td>
<td>396 mm</td>
<td>417 mm</td>
</tr>
<tr>
<td><strong>G</strong> Rear axle centerline to loader bucket on the ground</td>
<td>4043 mm</td>
<td>4102 mm</td>
</tr>
<tr>
<td><strong>H</strong> Front wheel tread gage</td>
<td>1905 mm</td>
<td>1950 mm</td>
</tr>
<tr>
<td><strong>I</strong> Rear wheel tread gage</td>
<td>1608 mm</td>
<td>1668 mm</td>
</tr>
<tr>
<td><strong>J</strong> Wheel base</td>
<td>2081 mm</td>
<td>2131 mm</td>
</tr>
</tbody>
</table>

**Backhoe Dimensions**

| **W** Stabilizer width                     | 2423 mm              | 2447 mm |
| **X** Bucket dig force                     | 56.5 mm              | 58.2 mm |
| **Y** Stick dig force                      | 34.3 mm              | 35.1 mm |
| **Z** Total side shift travel              | 1218 mm              | 1238 mm |

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