90 Z5

WHEEL LOADER

Direct-injection, turbocharged 192kW (257hp) engine
Operating weight 24ton, Bucket capacity 3.4-4.6m³
Strong and robust main structures
Tough and proven hydraulic components
Productive and dependable performance
The outstanding performance of Kawasaki wheel loaders has been proven all over the world. Continuous improvement in quality since its release, the Kawasaki wheel loaders offer long service life and outstanding productivity. Kawasaki, a major Japanese manufacturer of wheel loaders for over half of a century combines innovative technologies and real world experience to produce the finest wheel loader in the industry. Simple and straightforward, Kawasaki eliminates excessive functions to enhance productivity, durability, reliability, and lower operating costs. Overall simple design makes maintenance easier and reduces costs. Kawasaki focuses on simple design to offer the highest reliability and the easiest maintenance with minimum down time. "Kawasaki Made" major components such as the transmission, axle and hydraulic valve are developed and manufactured by experienced personnel that concentrate their knowledge and technologies to produce the best components for Kawasaki wheel loaders.

The machines in the pictures may include optional items. Please consult your local Kawasaki dealer for the available optional items.
The outstanding performance of Kawasaki wheel loaders has been proven all over the world.

Continuous improvement in quality since its release, the Kawasaki wheel loaders offer long service life and outstanding productivity.

Kawasaki, a major Japanese manufacturer of wheel loaders for over half of a century combines innovative technologies and real world experience to produce the finest wheel loader in the industry.

Simple and straight forward, Kawasaki eliminates excessive functions to enhance productivity, durability, reliability, and lower operating costs.

Overall simple design makes maintenance easier and reduces costs.

Kawasaki focuses on simple design to offer the highest reliability and the easiest maintenance with minimum down time.

"Kawasaki Made" major components such as the transmission, axle and hydraulic valve are developed and manufactured by experienced personnel that concentrate their knowledge and technologies to produce the best components for Kawasaki wheel loaders.
**SOPHISTICATED PERFORMANCE**

**COMPUTER CONTROLLED ENGINE**

The Engine Control Module (ECM) allows the engine performance to be modified to fit the application requirements. It also provides a wide range of operating data and fault codes to assist in diagnostic and troubleshooting. Cummins provides diagnostic tools to allow technicians to quickly recover engine information for fast, accurate analysis.

*For the range of fuel, please consult your local Kawasaki dealer.*

**TPD**
Standard Torque Proportioning Differentials (TPD) improve traction in slippery conditions.

**CENTER PIN**
Kawasaki center pin design is rugged and durable, providing thousands of hours of trouble free operation. The spherical bearing mounted on the lower center pin area absorbs heavy stresses caused by digging.

**LOAD SENSING HYDRAULIC SYSTEM FOR STEERING LINE**
An energy efficient design of the hydraulic system provides for steering flow to supplement the main circuit once steering demand is met. This allows for full utilization of the pump capacity for efficient operation in all conditions.

**LSD (OPT)**
For applications with extreme traction requirements, the optional Limited Slip Differential (LSD) provides additional traction capability.

**TRANSMISSION**
Fewer parts and the simple structure of the counter shaft transmission minimizes maintenance time and cost. Transmission control can be done by using simple, twist grip, single lever which helps an operator to focus on bucket operation.

**TPD (OPT)**
For applications with extreme traction requirements, the optional Limited Slip Differential (LSD) provides additional traction capability.
**WET DISC BRAKE**
Outboard mounted wet disc service brake can minimize maintenance time since the brakes are accessible without removing the axle.

**POWER/FUEL EFFICIENT MODE SELECTION**
The engine mode switch allows the operator to select either the power mode for maximum power in extreme applications or the fuel efficient mode, for most applications, which provides better fuel economy.

**PARKING BRAKE**
The parking brake is a spring-applied, oil pressure-released, drum type. Based on this proven design, parking brake maintenance and adjustment can be easily done.

**IDLE MANAGEMENT SYSTEM**
The idle management system allows for lower idle speed when idling for extended periods to conserve fuel. It also increases idle speed and reduces fan speed when the engine is cold to reduce warm up time, for better productivity.

**TRANSMISSION**
Fewer parts and the simple structure of the counter shaft transmission minimizes maintenance time and cost. Transmission control can be done by using simple, twist grip, single lever which helps an operator to focus on bucket operation.
BEST OF BOTH WORLDS, PRODUCTIVE AND DEPENDABLE

HOIST ARM & BUCKET
With strong and robust hoist arms and linkage, Kawasaki loaders perform well in a wide variety of applications. High breakout force and excellent bucket rollback mean bigger loads and better load retention. Buckets are designed for easy loading and are equipped with bolt-on cutting edges or teeth for easy changing. The bucket leveler and boom kickout are standard.

SEALED BUCKET HINGE PIN
The special seal in the bucket hinge pin provides excellent sealing and grease retention which extends pin life.

FULL BOX FRAME CHASSIS
Full box-section frame is the strongest in the industry and resists twisting loads better than plate frames.

KAWASAKI MADE HYDRAULIC VALVES
As a leading manufacturer of precision hydraulic components, Kawasaki offers high quality control valves for precise operation. Pilot assisted controls offer fingertip operation.

BUFFER RINGS IN HYDRAULIC CYLINDER
The hydraulic cylinders utilize a buffer ring to improve sealing capability to reduce leakage.

INCREASED GREASING INTERVALS FOR UNIVERSAL JOINTS
Sealed universal joints only require greasing every 12000 hours. This reduces maintenance costs significantly and provides greater durability.

RIDE CONTROL (OPT)
Ride Control provides stable load handling during load and carry operation. It reduces bouncing of the equipment while traveling, improves safety, productivity and operator comfort. The system comes with speed sensitive, automatic on/off feature.
EASY ACCESS SIMPLIFIES SERVICING

Maintenance is enhanced with the engine access panels that can be opened wide for better access.

Filters are conveniently located for easy change and the grease fittings are grouped to reduce maintenance time and insure proper lubrication.

HIGH QUALITY FINISH PAINT FOR SHEET METAL PARTS

Kawasaki’s sophisticated painting process utilizes ED (Electro-deposition) primer, a baked Melamine Alkyd finish coat as well as a fluoric super protection coat for a durable and attractive finish.

- FLUORIC SUPER PROTECTION COAT
- BAKED MELAMINE ALKYD FINISH COAT
- ELECTRO-DEPOSITION PRIMER
- SHEET METAL

HALOGEN HEAD LAMPS

Front and rear working lights are bright, halogen lamps for improved safety and visibility.

LED REAR LAMPS (OPT)

Long life, LED lamps are available as an option for the rear tail lights. These lights are very bright and durable.

DT CONNECTORS

Sealed Deutsch DT electrical connectors are used throughout the system to reduce corrosion and provide a positive connection.

The machines in the pictures may include optional items. Please consult your local Kawasaki dealer for the available optional items.
THE COMFORT ZONE
"NO OTHER PLACE LIKE THIS CAB"

CAB (OPT)
Excellent visibility in all directions is enhanced with both inside and outside mirrors. The front windshield is flat glass mounted in rubber gaskets that make windshield replacement fast and easy. Viscous mounting of the cab reduces vibration and noise.

ROPS/FOPS CAPABILITY (OPT)
The operator’s cab is fully certified to meet all ROPS (Rollover Protective Structure) and FOPS (Falling Object Protective Structure) regulations.

FULLY AUTOMATIC HEATER AND AIR CONDITIONER (OPT)
The thermostatically controlled air conditioner/heater provides automatic adjustment to keep the operator comfortable in any environment. The high capacity vents provide adequate airflow for efficient defrosting and an even temperature distribution. By pressurizing the cab, the climate control system keeps dust out of the cab.

MULTI ADJUSTABLE FUNCTION OPERATOR'S SEAT
The fully adjustable suspension seat offers excellent comfort to reduce operator fatigue and increase productivity.
THE COMFORT ZONE

“NO OTHER PLACE LIKE THIS CAB”

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Excellent visibility in all directions is enhanced with both inside and outside mirrors. The front windshield is flat glass mounted in rubber gaskets that make windshield replacement fast and easy.

MULTI ADJUSTABLE FUNCTION OPERATOR’S SEAT
The fully adjustable suspension seat offers excellent comfort to reduce operator fatigue and increase productivity.

SINGLE SHIFT CHANGE LEVER
Single, twist grip transmission shift lever is conveniently mounted on the steering column.

MODM
The MODM, Machine Operation Diagnostic Module, offers information to make the operation, maintenance and troubleshooting more efficient. With this information operators, maintenance and technical personnel can quickly determine key operating data.

RADIO (OPT) AND UTILITY BOXES (OPT)
Operators appreciate the convenience of the radio, glove box, cup holder and climate controlled storage box.

CUP HOLDERS
Cup holders are available on the console box.

TILT AND TELESCOPIC STEERING
The tilt and telescopic steering column adjusts to fit a variety of operator needs and offers greater comfort and efficiency.

ADJUSTABLE DECLUTCH PRESET SWITCH
The adjustable declutch system allows the operator to select the location of the left brake pedal where the declutch engages. This allows the operator to adjust for varying operating conditions easily.

SHIFT HOLD SWITCH (OPT)
The shift hold switch allows the operator to hold the transmission in the current range with a convenient button located on the hydraulic control lever when the transmission is in the automatic mode.

ADDITIONAL DIRECTIONAL SWITCH (OPT)
The directional switch located near the hydraulic control levers allows the operator to easily make directional shifts without removing his left hand from the steering wheel.

DOWNSHIFT BUTTON
The downshift button located on the boom control lever provides for quick, convenient downshifting from 2nd gear to 1st gear.

FULLY AUTOMATIC HEATER AND AIR CONDITIONER (OPT)
The thermostatically controlled air conditioner/heater provides automatic adjustment to keep the operator comfortable in any environment. The high capacity vents provide adequate airflow for efficient defrosting and an even temperature distribution. By pressurizing the cab, the climate control system keeps dust out of the cab.

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## OPERATING SPECIFICATIONS

### Engine

- **Make & model**: CUMMINS "QSM11" diesel engine
- **Type**: 4-cycle, water-cooled, direct injection, with turbocharged and air cooled intercooler
- **Rated power**: Gross: SAE J1995 216 kW (290 hp)/2,100 rpm
  - Net: ISO 9024 SAE J1349 192 kW (257 hp)/2,100 rpm
- **Maximum torque**: Gross 1,478 N·m (151 kgf·m)/1,400 rpm
  - Net 1,417 N·m (144 kgf·m)/1,000 rpm
- **Number of cylinders (bore × stroke)**: 6, 125 mm × 147 mm
- **Total displacement**: 10,823 cc
- **Cooling type**: Hydraulic drive pusher type fan
- **Fuel injection pump**: Cummins high pressure injection
- **Governor**: All-speed electrical type
- **Air cleaner**: Dry type (Double element)
- **Generator**: AC 24V 1.8 kW (75 ampere)
- **Starter motor**: DC 24V 7.2 kW (9.6 hp)
- **Batteries**: DC 12V 108 Ah × 2

### Torque converter & Transmission

<table>
<thead>
<tr>
<th>Make &amp; model</th>
<th>Kawasaki</th>
<th>3-element, 1-stage, 1-phase Stall torque ratio 3.16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque converter</td>
<td>Kawasaki, Full power shift</td>
<td>Countershaft type Wet hydraulic, multi disc</td>
</tr>
<tr>
<td>Transmission</td>
<td>Kawasaki, Full power shift</td>
<td>Countershaft type Wet hydraulic, multi disc</td>
</tr>
<tr>
<td>Clutch type</td>
<td>Kawasaki, Full power shift</td>
<td>Countershaft type Wet hydraulic, multi disc</td>
</tr>
<tr>
<td>Traveling speed</td>
<td>6.9 km/h</td>
<td>12.1 km/h</td>
</tr>
<tr>
<td>2nd</td>
<td>21.5 km/h</td>
<td>23.3 km/h</td>
</tr>
<tr>
<td>3rd</td>
<td>35.3 km/h</td>
<td>37.4 km/h</td>
</tr>
</tbody>
</table>

### Axles & Final drives

- **Type**: 4-wheel drive
- **Axle make & type**: Kawasaki, Full floating type
- **Differential gear**: Spiral bevel gear, torque proportioning, single stage reduction gear ratio 4.333
- **Final reduction gear**: Outboard mounted, Internal planetary gear ratio 5.333
- **Rear axle oscillation angle**: ±12°
- **Tire (standard)**: 26.5 (L3) Tubeless
- **Wheel rim**: 22.00 × 25

### Brake system

- **Service brake**: 4-wheel wet-disc
- **Parking brake**: Spring applied oil pressure released type located on front driveline
- **Emergency brake**: Same as parking, applied on failure in brake line

### Steering system

- **Type**: Articulated frame steering, hydraulic power steering unit, pilot operated type
- **Steering valve**: Kawasaki, Orbitroll and spool type
- **Full articulation angle**: 37° to each side

### Loading system

- **Type**: Front end loading, 2 bar linkage system
- **Bucket dumping angle at fully raised**: 45°
- **Hydraulic cycle time**: Lifting (at full load) 6.1 sec, Lowering (empty) 3.0 sec, Dumping 1.3 sec
- **Total cycle time**: 10.4 sec

### Hydraulic system

- **Oil pump**: Gear type, 227 lit/min
  - Steering oil pump: 6.9 MPa (70 kgf/cm²) @2,100 rpm
  - Main oil pump: 6.9 MPa (70 kgf/cm²) @2,100 rpm
  - Pilot oil pump: 6.9 MPa (70 kgf/cm²) @2,100 rpm
  - Control valve: Multiple control valve
    - Steering: Kawasaki, Orbitroll and spool type
    - Lift cylinder: Type Double acting piston
    - Tilt cylinder: Type Double acting piston
  - Steering cylinder: Type Double acting piston
    - Tilt cylinder: Type Double acting piston
    - Relief set pressure: 20.6 MPa (210 kgf/cm²)
    - Control valve: 20.6 MPa (210 kgf/cm²)

### Service refill

- **Fuel tank**: 370 lit
- **Engine lubricant (including oil pan)**: 37 lit
- **Engine cooling water**: 40 lit
- **T/M & T/C**: 60 lit
- **Axle front/rear**: 154 lit
- **Hydraulic oil tank**: 155 lit
- **Hydraulic system (including oil tank)**: 260 lit

### Torque converter & Transmission

<table>
<thead>
<tr>
<th>Make &amp; model</th>
<th>Kawasaki, Full power shift</th>
<th>Countershaft type Wet hydraulic, multi disc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stall torque ratio</td>
<td>3.16</td>
<td></td>
</tr>
<tr>
<td>Transmission</td>
<td>Kawasaki, Full power shift</td>
<td>Countershaft type Wet hydraulic, multi disc</td>
</tr>
<tr>
<td>Clutch type</td>
<td>Kawasaki, Full power shift</td>
<td>Countershaft type Wet hydraulic, multi disc</td>
</tr>
<tr>
<td>Traveling speed</td>
<td>6.9 km/h</td>
<td>12.1 km/h</td>
</tr>
<tr>
<td>2nd</td>
<td>21.5 km/h</td>
<td>23.3 km/h</td>
</tr>
<tr>
<td>3rd</td>
<td>35.3 km/h</td>
<td>37.4 km/h</td>
</tr>
</tbody>
</table>

### Weight change

<table>
<thead>
<tr>
<th>Option item</th>
<th>Operating weight(kg)</th>
<th>Tipping load(kg) (outside tire)</th>
<th>Overall width(mm)</th>
<th>Vertical dimensions (mm)</th>
<th>Overall length(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopy (instead of ROPS cab)</td>
<td>-450</td>
<td>-440</td>
<td>-380</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soft cab (instead of ROPS cab)</td>
<td>-370</td>
<td>-320</td>
<td>-190</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Removal ROPS cab</td>
<td>-520</td>
<td>-510</td>
<td>-440</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Tires</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26.5R25(L3)</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>26.5R25(L4)</td>
<td>+400</td>
<td>+300</td>
<td>+260</td>
<td>+15</td>
<td>+30</td>
</tr>
<tr>
<td>26.5R25(L5)</td>
<td>+740</td>
<td>+555</td>
<td>+485</td>
<td>+15</td>
<td>+30</td>
</tr>
<tr>
<td>26.5-25-20PR(L3)</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>26.5-25-20PR(L4)</td>
<td>+480</td>
<td>+360</td>
<td>+310</td>
<td>+0</td>
<td>±0</td>
</tr>
<tr>
<td>26.5-25-20PR(L5)</td>
<td>+840</td>
<td>+625</td>
<td>+545</td>
<td>+0</td>
<td>±0</td>
</tr>
<tr>
<td>Belly guard</td>
<td>+115</td>
<td>+175</td>
<td>+150</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* This specification sheet may contain attachments and optional equipment which those items which you require. Equipped with GST bucket, 26.5 (L3) tubeless tire and ROPS cab.

**Material density**
- Stone or gravel: 3/4" size, 260 lit
- Granite, broken: 3/4" size, 155 lit
- Basalt, granite, piled: 3/4" size, 154 lit

**Remarks**
- Stone or gravel: 3/4" size, 3.4 m³
- Granite, broken: 3/4" size, 3.8 m³
- Basalt, granite, piled: 3/4" size, 4.0 m³

---

https://tractormanualz.com
### Bucket

<table>
<thead>
<tr>
<th>Standard boom</th>
<th>General purpose</th>
<th>Rock Straight-edge</th>
<th>Rock V-edge</th>
<th>Coal Straight-edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt-on edges</td>
<td>Teeth</td>
<td>Bolt-on edges</td>
<td>Teeth</td>
<td>Teeth</td>
</tr>
<tr>
<td>GSC</td>
<td>GST</td>
<td>GSC</td>
<td>GST</td>
<td>RVT</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>heaped</td>
<td>m³</td>
<td>4.6</td>
<td>4.4</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>struck</td>
<td>m³</td>
<td>3.9</td>
<td>3.7</td>
</tr>
<tr>
<td>Max. dumping clearance</td>
<td>a</td>
<td>mm</td>
<td>3,045</td>
<td>2,920</td>
</tr>
<tr>
<td>Max. dumping reach</td>
<td>b</td>
<td>mm</td>
<td>1,260</td>
<td>1,340</td>
</tr>
<tr>
<td>Max. hinge pin height</td>
<td></td>
<td>mm</td>
<td>4,360</td>
<td></td>
</tr>
<tr>
<td>Digging depth (with bucket level)</td>
<td>c</td>
<td>mm</td>
<td>65</td>
<td>95</td>
</tr>
<tr>
<td>Breakout force</td>
<td></td>
<td>kN</td>
<td>190</td>
<td>204</td>
</tr>
<tr>
<td>Bucket tilt-back angle</td>
<td>at carry position</td>
<td>deg</td>
<td>50°</td>
<td></td>
</tr>
<tr>
<td>Overall length</td>
<td>up to cab top</td>
<td>mm</td>
<td>8,815</td>
<td>8,960</td>
</tr>
<tr>
<td>Overall width</td>
<td>outside tire</td>
<td>mm</td>
<td>6,055</td>
<td>6,055</td>
</tr>
<tr>
<td>Overall width</td>
<td>outside bucket</td>
<td>mm</td>
<td>3,100</td>
<td>3,120</td>
</tr>
<tr>
<td>Tread</td>
<td></td>
<td>mm</td>
<td>2,230</td>
<td></td>
</tr>
<tr>
<td>Wheel base</td>
<td></td>
<td>mm</td>
<td>3,400</td>
<td></td>
</tr>
<tr>
<td>Min. turning radius</td>
<td>at outside bucket</td>
<td>mm</td>
<td>7,245</td>
<td>7,290</td>
</tr>
<tr>
<td>Min. ground clearance</td>
<td></td>
<td>mm</td>
<td>6,195</td>
<td></td>
</tr>
<tr>
<td>Full articulation angle</td>
<td></td>
<td>deg</td>
<td>37°</td>
<td></td>
</tr>
<tr>
<td>Static tipping load</td>
<td>straight</td>
<td>kg</td>
<td>17,740</td>
<td>17,920</td>
</tr>
<tr>
<td>Static tipping load</td>
<td>full turn</td>
<td>kg</td>
<td>15,470</td>
<td>15,620</td>
</tr>
</tbody>
</table>

The weight and load figure includes 26.5 (L3) tubeless tire, ROPS cab, lubricant, coolant, full fuel tank and operator (75kg).

### Bucket selection charts

<table>
<thead>
<tr>
<th>material density</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
</tr>
<tr>
<td>6.0 Coal</td>
</tr>
<tr>
<td>4.6 GSC</td>
</tr>
<tr>
<td>4.4 GST</td>
</tr>
<tr>
<td>4.0 GSC</td>
</tr>
<tr>
<td>3.8 GST</td>
</tr>
<tr>
<td>3.6 RVT</td>
</tr>
<tr>
<td>3.4 RST</td>
</tr>
</tbody>
</table>

### Material density

Approx. material weights per cubic meter

- Basalt, granite, piled: 1537 kg/m³
- Clay and gravel, dry: 1601 kg/m³
- Earth, mud, wet: 1729 kg/m³
- Granite, broken: 1537 kg/m³
- Gravel: 1761 kg/m³
- Gypsum: 2268 kg/m³
- Limestone, coarse, sized: 1569 kg/m³
- Sand, dry: 1681 kg/m³
- Sandstone, quarried: 1313 kg/m³
- Stone or gravel, 3/4" size: 1569 kg/m³

### Remarks

* Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
* This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
* Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
* Color for model shown in this brochure is a standard Kawasaki yellow.
* Counterweight option should not be used with tire ballast.
* This specification sheet may contain attachments and optional equipment which are not available in your area. Please contact your local Kawasaki dealer for those items which your require.

Equipped with GST bucket, 26.5 (L3) tubeless tire and ROPS cab.
STANDARD EQUIPMENT

*Standard specifications may vary. Please consult your Kawasaki dealer for more information.

**Electrical**
- 75 ampere generator
- Back up alarm
- Brake and tail lights
- Electric starter
- Halogen headlights with high and low beams (2 front)
- Halogen working lights (2 front and 2 rear)
- Turn signals with four-way flasher

**Gauges and indicators**
- Air cleaner warning lamp
- Auto shift indicator lamp
- Battery charge lamp
- Brake pressure warning lamp
- Engine coolant temperature gauge and warning lamp
- Engine oil pressure warning lamp
- Fuel level gauge
- High beam indicator lamp
- Hour meter
- Neutral indicator lamp
- Parking brake indicator lamp
- Speedometer
- Torque convertor oil temperature gauge and warning lamp
- Transmission control warning lamp
- Transmission declutch lamp
- Transmission status monitor
- Working light indicator lamp

**Operator environment**
- Adjustable operator seat with suspension
- Ashtray
- Cup holder
- Boom/bucket control dual levers
- Electric dual horns
- Down shift button
- Machine Operation Diagnostic Module (MODM)
- Telescopic and tilt steering wheel
- Transmission declutch adjust switch

**Power train**
- Air cleaner, double elements dry type
- Cummins QSM11 diesel engine
- Hydraulic engine radiator cooling fan
- Kawasaki auto shift transmission
- Kawasaki axles, torque proportioning differentials (front/rear)
- Kawasaki torque converter
- Low maintenance drive shafts
- Tires, 26.5 (L3) tubeless

**Others**
- Bucket leveler
- Drawbar hitch with pin
- Handrails
- Kickout device
- Ladders, left and right
- Loading linkage, sealed Z-bar type dual cylinders
- Secondary brake

**OPTIONAL ITEMS**

**Additional F-R directional switch**
- Automatic reversible cooling fan
- Cab (non ROPS/FOPS) (left and right doors open, walk-through design)
- Cab (ROPS/FOPS) (left and right doors open, walk-through design)
- Canopy (two pillar with plastic roof)
- Canopy (with ROPS/FOPS)
- CD player with radio (AM/FM stereo)
- Emergency steering
- Front and rear wide fenders
- Full automatic air conditioner
- High lift boom arm
- Hydraulic circuit for quick coupler pins
- Hydraulic three spool valve system
- LED rear lamps
- Limited slip differential
- Mudflaps
- Pre cleaner
- Quick coupler
- Radio-ready kit (12V convertor, antenna and wiring, stereo speakers)
- Ride control (speed sensitive automatic)
- Seat belt
- Several bucket and tire options are available
- Shift hold switch
- Transmission belly guard
- Vandalism protection kit

**Cab specifications**
- Cigarette lighter
- Coat hook
- Floor mat
- Front wiper and washers
- Lockable doors with sliding windows by regulator handles (left and right)
- Rearview mirrors (interior and exterior)
- Rear wiper and washers (option)
- Storage compartment
- Sun visor
- Tinted safety glass (tempered glass)

http://www.khi.co.jp/kenki/english/