80Z5 WHEEL LOADER

Direct-injection, turbocharged 149kW(200hp) engine
Operating weight 20ton, Bucket capacity 2.6-3.6m³
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.
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SOPHISTICATED PERFORMANCE

JAPANESE ENGINE WITH MECHANICAL GOVERNOR

Japanese engines provide a high quality source of power. Time-proven, high quality mechanical engine governor minimizes maintenance requirements. Compared with electronic controlled high pressure fuel injection system, a wide range of fuel and engine oil can be used. The engine does not require any special diagnostic equipment or computer for service.

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

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.

TPD

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

LSD (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.

**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.

**DOUBLE-ELEMENT AIR CLEANER**
The double-element air cleaner filters the outside air to supply clean air for the engine. Accumulated dust is automatically discharged through valves when the engine stops.

**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.

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**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.

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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.

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

**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.

**HYDRAULIC GEAR PUMP**
A proven gear pump is the heart of the hydraulic system. The durable and dependable design of this gear pump provides excellent performance. Gear pumps are dirt-tolerant and heat resistant even under extremely tough job conditions. Its simple structure makes maintenance cost low.

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

**FULLY ENCLOSED ELECTRICAL SYSTEM**
Kawasaki's sophisticated electrical system is fully enclosed to prevent water and dust contamination ensuring long life and reduced maintenance costs.

**SPECIAL SEALS IN BUCKET HINGE PIN**
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**HYDRAULIC GEAR PUMP**
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**INCREASED GREASING INTERVALS FOR UNIVERSAL JOINTS**
Sealed universal joints only require greasing every 12000 hours. This reduces maintenance costs significantly and provides greater durability.

**FLUORIC SUPER PROTECTION COAT**
A baked Melamine Alkyd finish coat, Electro-deposition primer, and a fluoric super protection coat provide a durable and attractive finish.

**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.

**HALOGEN HEAD LAMPS**
Front and rear working lights are bright, halogen lamps for improved safety and visibility.

**MAINTENANCE**
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.
EASY ACCESS SIMPLIFIES SERVICING

SIMPLE & EFFICIENT, ONE-TOUCH OPEN-TOP RADIATOR GRILLE
To facilitate cleaning the radiator, the radiator grille swings open with pneumatic support gas springs.

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.

HALOGEN HEAD LAMPS
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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.

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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.
AT-A-GLANCE METERS AND GAUGES
The exact conditions of the machine can be instantly checked from the gauges and indicator lights on the instrument panel; speedometer, engine water temp. gauge, transmission oil temp. gauge, fuel indicator, air pressure gauge, engine hour meter, and various other warning and indicator lights.

BOOM AND BUCKET CONTROL LEVERS
The pilot operated hydraulic control levers with wrist rest give the operator better control. Downtime can be minimized, thanks to the simplified mechanical structure.

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

CUP HOLDERS
Cup holders are available on the console box.

VISCOUS MOUNT
Viscous mounting of the cab effectively reduces noise and vibration that provides greater comfort for an operator.

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

The machines in the pictures may include optional items. Please consult your local Kawasaki dealer for the available optional items.
### OPERATING SPECIFICATIONS

#### Engine
- **Make & model**: HINO "J08C-TI" diesel engine
- **Type**: 4-cycle, water-cooled, direct injection, with turbocharged and air cooled intercooler
- **Rated power**: Gross - SAE J1995 165 kW (221 hp)/2,200 rpm
  Net - ISO 9049 SAE J1349 80/1269/EEC 149 kW (200 hp)/2,200 rpm
- **Maximum torque**: Gross 860 N·m (88 kgf·m)/1,400 rpm
  Net 821 N·m (84 kgf·m)/1,400 rpm
- **Number of cylinders**: 6
- **Total displacement**: 7961 cm³
- **Cooling type**: Hydraulic drive pusher type fan
- **Fuel injection pump**: Bosch type
- **Governor**: All-speed mechanical type
- **Air cleaner**: Dry type (Double element)
- **Generator**: AC 24V 1.2 kW (50 ampere)
- **Starter motor**: DC 24V 4.5 kW (6.0 hp)
- **Batteries**: DC 12V 88 Ah × 2

#### Torque & Transmission
- **Torque converter**: Kawasaki, 3-element, 1-stage, 1-phase
  Stall torque ratio 2.99
- **Transmission**: Kawasaki, Full power shift
  Clutch type Countershaft type
  Wet hydraulic, multi disc
- **Traveling speed**: Forward Reverse
  1st 7.2 km/h 7.3 km/h
  2nd 12.0 km/h 12.2 km/h
  3rd 21.3 km/h 21.6 km/h
  4th 36.2 km/h 36.7 km/h
- **Reduction gear ratio**: Forward Reverse
  1st 4.344 4.262
  2nd 2.511 2.464
  3rd 1.341 1.315
  4th 0.691 0.678

#### 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 3.90
- **Final reduction gear**: Outboard mounted, Internal planetary gear gear ratio 5.333
- **Rear axle oscillation angle**: ± 12°
- **Tire (standard)**: 23.5 (L3) Tubeless
- **Wheel rim**: 19.50 × 25

#### Brake system
- **Service brake**: 4-wheel wet-disc
  Controlled by fully hydraulic system Dual circuits
- **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 spur type
  Full articulation angle 37° to each side

#### Loading system
- **Type**: Front end loading, Z bar linkage system
  Bucket dumping angle at fully raised 45°
- **Hydraulic cycle time**: Lifting (at full load) 6.2 sec
  Lowering (empty) 3.4 sec
  Dumping 1.4 sec
  Total cycle time 11.0 sec

#### Hydraulic system
- **Oil pump**: Gear pump
  Gear type, 179 lit/min
  Main 6.9 Mpa (70 kgf/cm²) @2,200 rpm
  Pilot 6.9 Mpa (70 kgf/cm²) @2,200 rpm
- **Control valve**: Loading Multiple control valve
  Steering Kawasaki, Orbitroll and spool type
- **Lift cylinder**: Type Double acting piston
  Funtion + option 2 × 150 mm bore × 788 mm stroke
- **Tilt cylinder**: Type Double acting piston
  Funtion + option 1 × 180mm bore × 533 mm stroke
- **Steering cylinder**: Type Double acting piston
  Funtion + option 2 × 80mm bore × 405 mm stroke
- **Relief set pressure**: Control valve 20.6 Mpa (210 kgf/cm²)
  Steering valve 20.6 Mpa (210 kgf/cm²)

#### Service refill
- **Fuel tank**: 290 lit
- **Engine lubricant (including oil pan)**: 20 lit
- **Engine cooling water**: 33 lit
- **T/M & T/C**: 45 lit
- **Axle front/rear**: 110 lit
- **Hydraulic oil tank**: 85 lit
- **Hydraulic system (including oil tank)**: 160 lit

#### Weight change

<table>
<thead>
<tr>
<th>Option item</th>
<th>Operating weight(kg)</th>
<th>Tipping load(kg)</th>
<th>Overall width(mm) (outside tire)</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>-435</td>
<td>-380</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Soft cab (instead of ROPS cab)</td>
<td>-230</td>
<td>-220</td>
<td>-190</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Removal ROPS cab</td>
<td>-520</td>
<td>-505</td>
<td>-435</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Tires</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.5R25(L3)</td>
<td>-340</td>
<td>-240</td>
<td>-215</td>
<td>-50</td>
<td>-65</td>
</tr>
<tr>
<td>23.5R25(L3)</td>
<td>2 × 0</td>
<td>-0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>23.5R25(L4)</td>
<td>+340</td>
<td>-310</td>
<td>+270</td>
<td>+30</td>
<td>+30</td>
</tr>
<tr>
<td>23.5-25-16PR(L3)</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>23.5-25-20PR(L3)</td>
<td>+20</td>
<td>±15</td>
<td>±15</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Belly guard</td>
<td>+195</td>
<td>+285</td>
<td>+245</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

* This specification sheet may contain attachments and optional equipment which those items which your require.
* Color for model shown in this brochure is a standard Kawasaki yellow.
* Dumping clearance and reach are measured from bucket edge in accordance warranty for which we assume legal responsibility.

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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></td>
<td>Bolt-on edges</td>
<td>Teeth</td>
<td>Bolt-on edges</td>
<td>Teeth</td>
</tr>
<tr>
<td></td>
<td>GSC</td>
<td>GST</td>
<td>GSC</td>
<td>GST</td>
</tr>
</tbody>
</table>

- **Bucket capacity**
  - Heaped: m³
  - Struck: m³
- **Max. dumping clearance**
  - a: mm
  - b: mm
- **Max. dumping reach**
  - a: mm
  - b: mm
- **Max. hinge pin height**
  - mm
- **Digging depth (with bucket level)**
  - c: mm
- **Breakout force**
  - kN
- **Bucket tilt-back angle**
  - at carry position: deg
- **Overall length**
  - d: mm
  - up to cab top: mm
  - bucket full raise: mm
  - overall width: mm
  - outside tire: mm
  - outside bucket: mm
- **Tread**
  - mm
- **Wheel base**
  - mm
- **Min. turning radius**
  - at outside bucket: mm
  - at center of outside tire: mm
- **Min. ground clearance**
  - mm
- **Full articulation angle**
  - deg
- **Operating weight**
  - kg
  - with ROPS CAb: kg
  - Straight: kg
  - Full turn: kg
- **Static tipping load**
  - kg
  - Straight: kg
  - Full turn: kg

The weight and load figure includes 23.5 (L3) tubeless tire, ROPS cab, lubricant, coolant, full fuel tank and operator (75kg).

### Bucket selection charts

<table>
<thead>
<tr>
<th>material density</th>
<th>mass density [kg/m³]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>1200</td>
</tr>
<tr>
<td>1400</td>
<td>1600</td>
</tr>
<tr>
<td>1800</td>
<td>2000</td>
</tr>
<tr>
<td>2200</td>
<td></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.
STANDARD EQUIPMENT

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

**Electrical**
- 50 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
- High beam indicator lamp
- Hour meter
- Neutral indicator lamp
- Parking brake indicator lamp
- Speedometer
- Torque converter 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
- Boombucket control dual levers
- Electric dual horns
- Down shift button
- Telescopic and tilt steering wheel

**Power train**
- Air cleaner, double elements dry type
- HINO J08C-TI diesel engine
- Full hydraulic enclosed wet multi-disc brakes
- Hydraulic engine radiator cooling fan
- Kawasaki auto shift transmission
- Kawasaki axles, torque proportioning differentials (front/rear)
- Kawasaki torque converter
- Low maintenance drive shafts
- Tires, 23.5 (L3) tubeless

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

**OPTIONAL ITEMS**

**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 converter, antenna and wiring, stereo speakers)
**Ride control (speed sensitive automatic)**
**Seat belt**
**Several bucket and tire options are available**
**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)