

# DISD

## SD 200N

Main Performance Parameters (Standard Configuration)

|                             |  |
|-----------------------------|--|
| Overall Working Weight:     | 10,300 kg  |
| Rated Bucket Capacity:      | 1.7 m <sup>3</sup> (Optional Light Material Bucket 2.2m <sup>3</sup> ) |
| Rated Power:                | 92 kw / 2,200 RPM  |
| Overall Dimensions (LxWxH): | 6,990 x 2,496 x 3,250 mm   |
| Dumping Distance:           | 1,240 mm (Dump Angle 45°)  |
| Dumping Height:             | 2,840 mm (Dump Angle 45°)  |

**DISD**  
A Doosan Company

No. 1088, Xincheng Street. Muping Economic Developing Zone  
Yantai Shandong 264100 China  
Tel : +86-535-638-2000 Fax : +86-535-638-2004



Materials and Specifications in the catalogue are subject to change without notice.







# New generation of wheel loaders with even more power

Outstanding DISD Loaders have 3-highs and 3-lows : high reliability, high comfort, and high effectiveness, coupled with low noise, low oil temperature, and low oil consumption.



## SD 200N Key Features

- **Low noise :** DISD place great emphasis on your safety. A combination of our patented safe cabin design, top-grade rubber shock absorbers, specialized cushion pads, and drive system with a patented anti-vibration technology adopted in gearbox ensures the lowest noise level in the industry.
- **Low oil temperature :** DISD is a solution for the problem of high temperature. Our new radiators enable a high heat dissipation rate of hydraulic oil and are able to work 24 hours straight under an atmospheric temperature of 45°C.
- **Low oil consumption :** The powerful WD-Deutz engine combined with a high-quality oil pump enables rational and effective power matching as well as reduced oil consumption.
- **High reliability :** The 3-D design of the frame features stress analysis technology from our Korean headquarters and has passed strict quality testing, ensuring that its components are safe and reliable. All quick-wearing parts are equipped with wear-resistant sheaths. We provide a good warranty policy and offer a one-stop service. The center of gravity of the entire machine has been moved towards the back. As the core of the hydraulic valve is solid and processed with high-precision machinery, it delivers good micro-motion performance, reduces internal leakage, and has a longer lifespan.
- **High comfort :** The cab features Korean technology, including an integral-type frame structure for greater security and high-performance damping materials for highly effective dust prevention and noise reduction. In addition, it has acquired a patent for its safety design and multi-functional integral retractile system. The patented bumper block eliminates the noise caused by the impulsion of steering. The steering wheel aid reduces driver's steering force and fatigue.
- **High effectiveness :** DISD boasts higher level of operation efficiency, maintainability of brake without removing tires, and fast fuel preheating.



# WORKING PERFORMANCE

# SD 200N

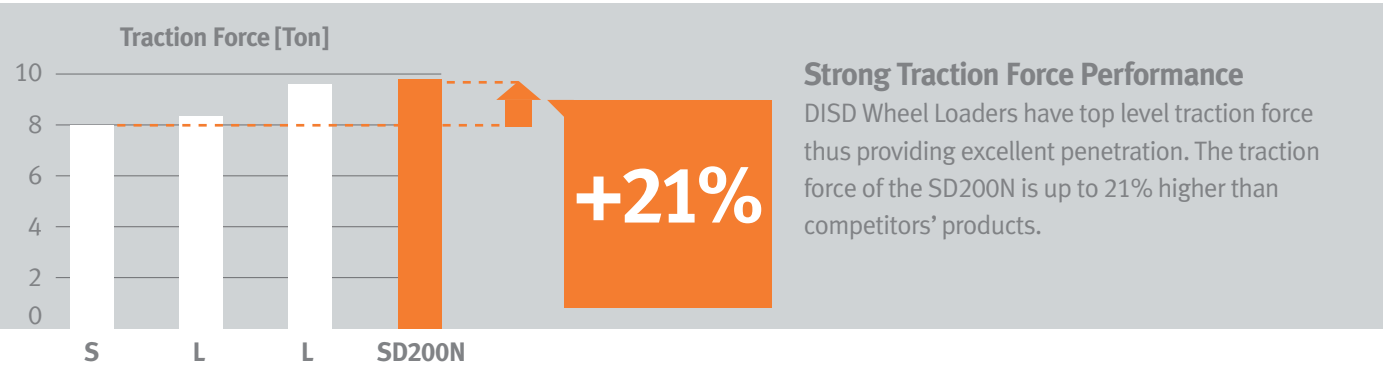


### Engine

The WD-Deutz engine (WP6G125E22) has undergone specific adjustments under different working conditions, which resulted in less fuel consumption under general working conditions. It now consumes less oil, accelerates faster, and delivers more power than our competitors' engines, saving the user around USD 1,600 / year in average.

### Turbo

The adoption of exhaust gas turbo charging, with a large torque reserve, high fuel economy and low tail-gas emission; plus 2200 RPM rotation speed + perfect power match + torque converter confluence technology, enable the DISD loader to consume significantly less oil than competitors' products under the same working conditions.



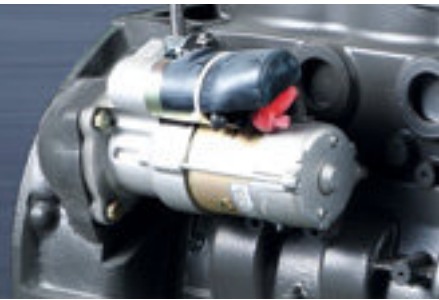
### Strong Traction Force Performance

DISD Wheel Loaders have top level traction force thus providing excellent penetration. The traction force of the SD200N is up to 21% higher than competitors' products.



### Preheat

The SD200N is equipped with a low temperature startup device (diesel electric heating + air flame preheating), effectively improving the difficulty of low temperature startup in winter.



### Start Motor

The newly-changed start-up mode of the motor and the enlarged CCA (Cold Cranking Amperes) capacity make it easy to start the motor in low-temperature environments.



### Torque Converter

The torque converter with a simple structure, reliable working, convenient operation, and high transmission efficiency has been adopted.



### Drive Axle

The drive axle consists of a 2-stage reduction mechanism; the main drive is a spiral bevel gear, with a large bearing capacity and high efficiency; the wheel reductor features a planetary reduction structure; the final drive reductor is equipped with ordinary bevel gear differential, with a simple structure and flexible differential; the axle-shell is made of cast steel, offering good rigidity; and the brake is a caliper disc brake with high braking torque.



### Transmission Shaft

A reinforced propeller shaft with a connecting bolt comprising a self-locking nut has been adopted to improve the durability of the drive line system.

### MCV

The Main Control Valve is a well-known brand of pilot control valve from Italy with high processing precision, and good micro-motion/metering performance, reducing internal leakage and extending service life. The valve has been combined with a remote control valve to offer excellent operability while reducing operational force and increasing efficiency.



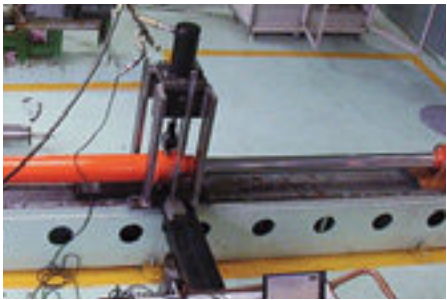
### Hydraulic Steering Unit

The hydraulic steering unit of the internationally recognized brand Zhenjiang has been adopted, guaranteeing high performance.



### Steering Priority Valve

The BZZ5 steering gear has been adopted to create a load sensing hydraulic system that ensures the prior flow required for steering during changes in the system load or turning speed of the steering wheel.



### Durability Test

DISD Wheel Loaders apply strict standard for selection of components and parts. All principle components must pass extensive and stringent standard durability test in Korea, thus guaranteeing the high reliability of the DISD Wheel Loader.



**Cab Vision** The interior of the cabin features an ergonomic design comprising a large operational space, a wide field of vision in front and behind, and a user-friendly control unit, thereby offering industry-leading comfort for operators.



**Cab**  
The cab features Korean technology, including an integral-type frame structure for greater security, high-performance damping materials with better tightness, sound-insulation and damping effects, thus reducing the noise level of the DISD loader to 82db which is the lowest noise level in the industry.



**Adjustable Steering Wheel**  
The adjustable steering wheel complies with ergonomic principles.  
Adjusting angle:  
- Forward : 5°  
- Backward : 20°



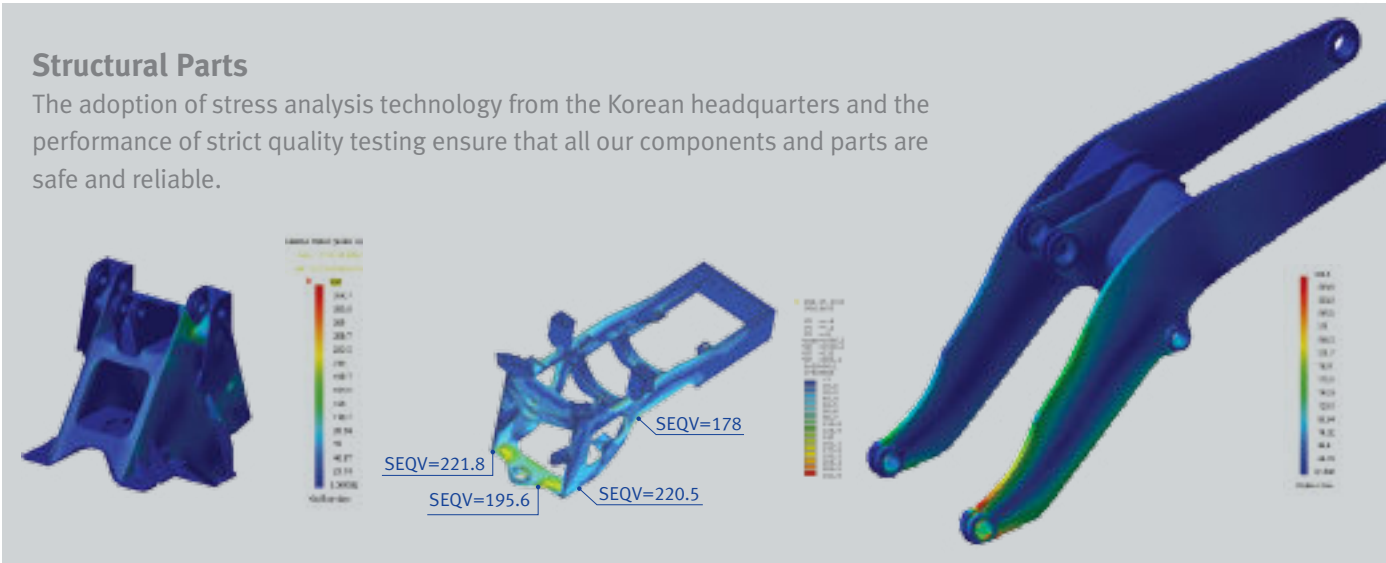
**Heater & Fan**  
Heater and Fan have been installed under the driver's seat for efficient delivery to the driver, thus the rate and direction of air flow can be controlled easily.

**Air-Con Unit**  
The high-performance air conditioning system supplies a flow of air which can be adjusted and electronically controlled according to the environmental conditions.



**Joystick Lever**  
The hydraulic working lever features a high-quality lever imported from Italy. The joystick lever can increase productivity by up to 30%, while enabling the operator to work easily and comfortably.





**Cooling System**

DISD has adopted a unique patent technology that greatly reduces the temperature of the hydraulic oil and the water tank when the equipment is in operation by improving the layout and materials (Aluminum plate fin-type structure) of the heat-dissipation system, thus solving the problem of high temperature. The equipment will not overheat even when operating in 45°C free air temperature for 24 hours straight.



**Durability Test**

Durability tests were carried out to ensure that the radiators work properly under strong pressure fluctuation.



**Bucket**

The bucket is made of high anti-abrasion materials, the bucket's thickness has been increased and a specially designed reinforcing rib has been adopted for the upper part, effectively preventing bucket deformation caused by falling objects such as rocks.



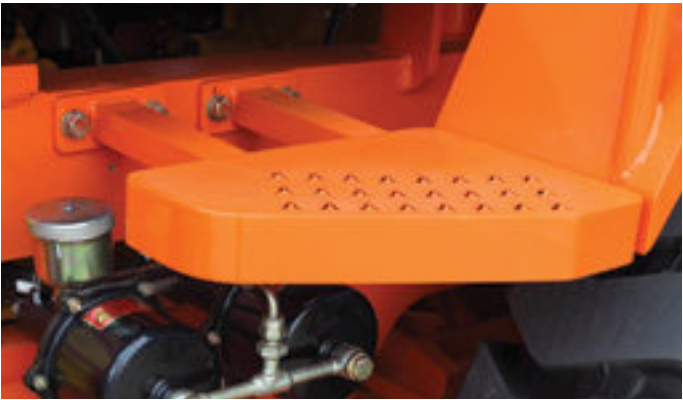
**Pin Bushing**

Pin Bushing is made of high anti-abrasion materials, thus improving resistance to wear and abrasion in the bucket linking positions and prolonging the product's service life.



**Easy Maintenance**

Maintenance windows have been added to each side of the engine hood, thus making daily oil inspection and maintenance works quicker and more convenient.



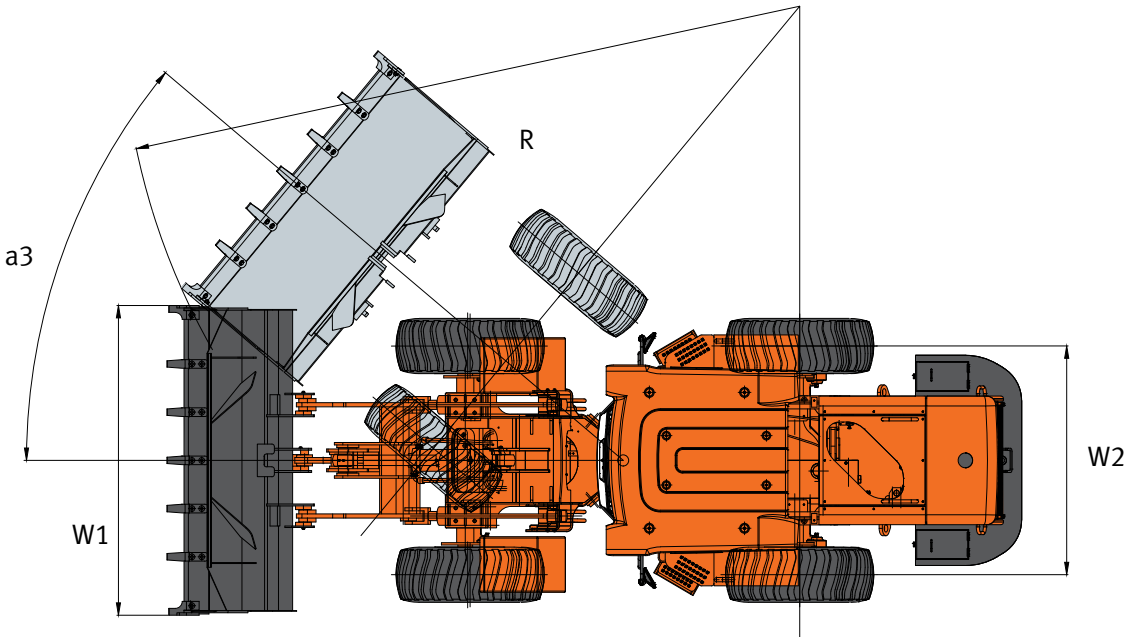
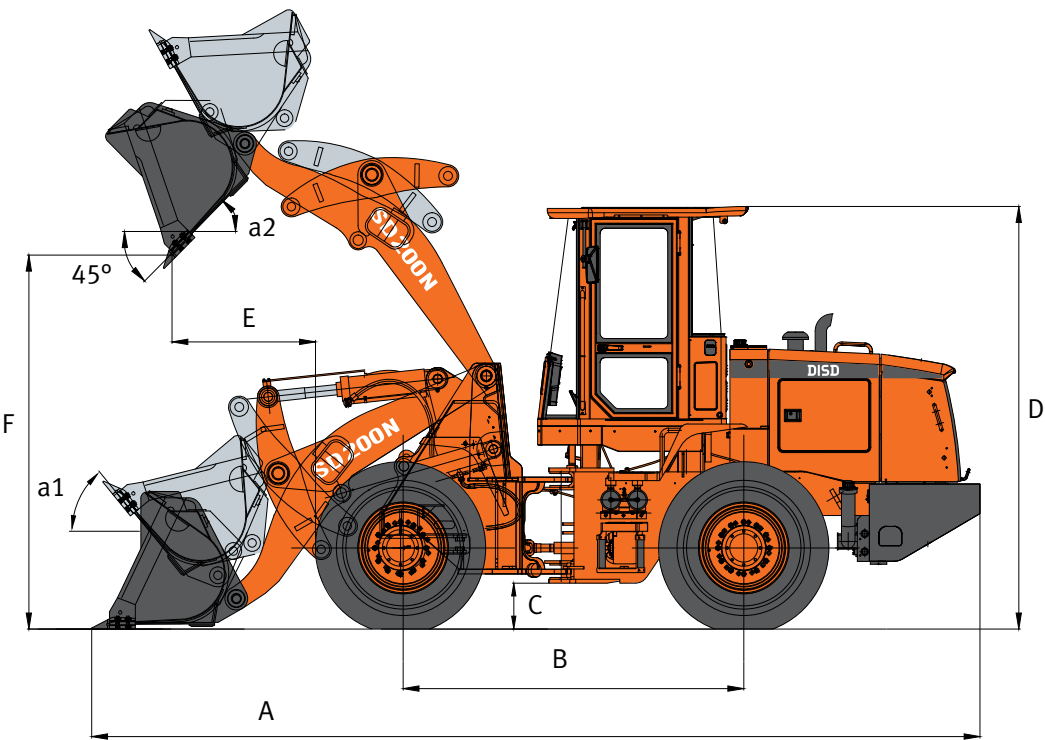
**Brake System Check**

The brake pump is fixed on the side, simplifying routine maintenance work.



**Easy Replacement**

Brake pads can be replaced without having to remove the tires, and front and rear caliper brake pads can be replaced more easily.



\* General Parameters

|                                 |  |
|---------------------------------|--|
| Operating Weight                | 10.3ton  |
| Machine Dimensions (A x W1 x D) | 6,990 x 2,496 x 3,250mm                          |
| Ground Clearance (C)            | 330mm  |
| Wheel Base (B)                  | 2,700mm  |
| Tread (W2)                      | 1,850mm  |
| Turning Radius (R)              | Tyre Outside: 5,280mm<br>Bucket Outside: 5,950mm |
| Steering Angle (a3)             | 36deg  |
| Max. Gradeability               | 30deg  |
| Oscillation Angle               | ± 11deg  |

\* Noise

|                        |         |
|------------------------|---------|
| Noise at Driver's Seat | 82dB(A) |
|------------------------|---------|

\* Working Efficiency

|                                 |         |
|---------------------------------|---------|
| Rated Bucket Capacity           | 1.7m³   |
| Max. Rated Load Capacity        | 3ton    |
| Static Tipping Load (straight)  | 7.3ton  |
| Static Tipping Load (full turn) | 6.4ton  |
| Breakout Force                  | 10.1ton |
| Lifting Speed                   | 5.0sec  |
| Dumping Speed                   | 0.8sec  |
| Lowering Speed                  | 3.6sec  |
| Loading Cycle Time              | 9.4sec  |

\* Option System

|  |         |
|--|---------|
| Long Boom Dump Height                        | 3,100mm |
| Triple Valve Boom Log Fork Dump Height (15°) | 3,631mm |
| Triple Valve Boom Log Fork Dump Height (35°) | 3,262mm |

\* Engine

|             |            |
|-------------|------------|
| Model       | WP6G125E22 |
| Rated Power | 92KW       |
| Rated Speed | 2,200rpm   |
| Max. Torque | 500N.m     |

\* Control

|                  |  |
|------------------|--|
| Control Rod Type |  |
|------------------|--|

\* Capacity

|                             |            |
|-----------------------------|------------|
| Fuel Tank Capacity          | 155liter   |
| Fuel Injection Cycle        | 12hr       |
| Fuel Residual @ Indicator   | 13.5liter  |
| Hydraulic Oil Tank Capacity | 123liter   |
| Cooler                      | 28liter    |
| Transmission Oil            | 42liter    |
| Engine Oil                  | 14liter    |
| Drive Axle Oil              | 19/19liter |

\* Power System

|                     |         |
|---------------------|---------|
| Max. Travel Speed   | 37km/hr |
| Max. Tractive Force | 9.8ton  |

\* Working Scope

|                                |         |
|--------------------------------|---------|
| Dumping Height (F)             | 2,840mm |
| Max. Dump Angle (a2)           | 48°     |
| Max. Tilt Angle on Ground (a1) | 45°     |

\* Option Table

| STD ■ OPT ○ NON × |              |                      |                 |              |                             |
|-------------------|--------------|----------------------|-----------------|--------------|-----------------------------|
| DESCRIPTION       | STD LETTER   | VALUE DESCRIPTION    | DESCRIPTION     | STD LETTER   | VALUE DESCRIPTION           |
| Loader Boom       | Unchangeable | Standard Boom        | Tire            | Changeable   | Mono Lever-Pilot            |
|                   |              | High Lift Boom       |                 |              | Mono Lever 3rd Button-Pilot |
| Loader Bucket     | Changeable   | 1.7m³ Mono Tooth     | Transmission    | Unchangeable | 17.5x25-12PR, L3, Tube      |
|                   |              | 1.9m³ Mono Tooth     |                 |              | Mechanical T/M              |
|                   |              | 2.2m³ Light Material |                 |              | Standard                    |
| Fork              | Changeable   | Log Fork             | Pre Heater      | Changeable   | Engine Pre Heater           |
|                   |              | Pallet Fork          |                 |              | Rotating Beacon             |
| Control Valve     | Unchangeable | 2 Spool-Mechanical   | Air Conditioner | Unchangeable | Heater & Fan                |
|                   |              | 2 Spool-Pilot        |                 |              | Air-Con Unit                |
|                   |              | 3 Spool-Pilot        |                 |              | General Glass               |
| Joystick Type     | Unchangeable | Two Lever-Mechanical | Cabin Glass     | Unchangeable | Tinted Glass                |
|                   |              |                      |                 |              |                             |