



## TECHNICAL SPECIFICATION

### DRWJ-2 UNDERGROUND Load Haul Dump(LHD) Loaders



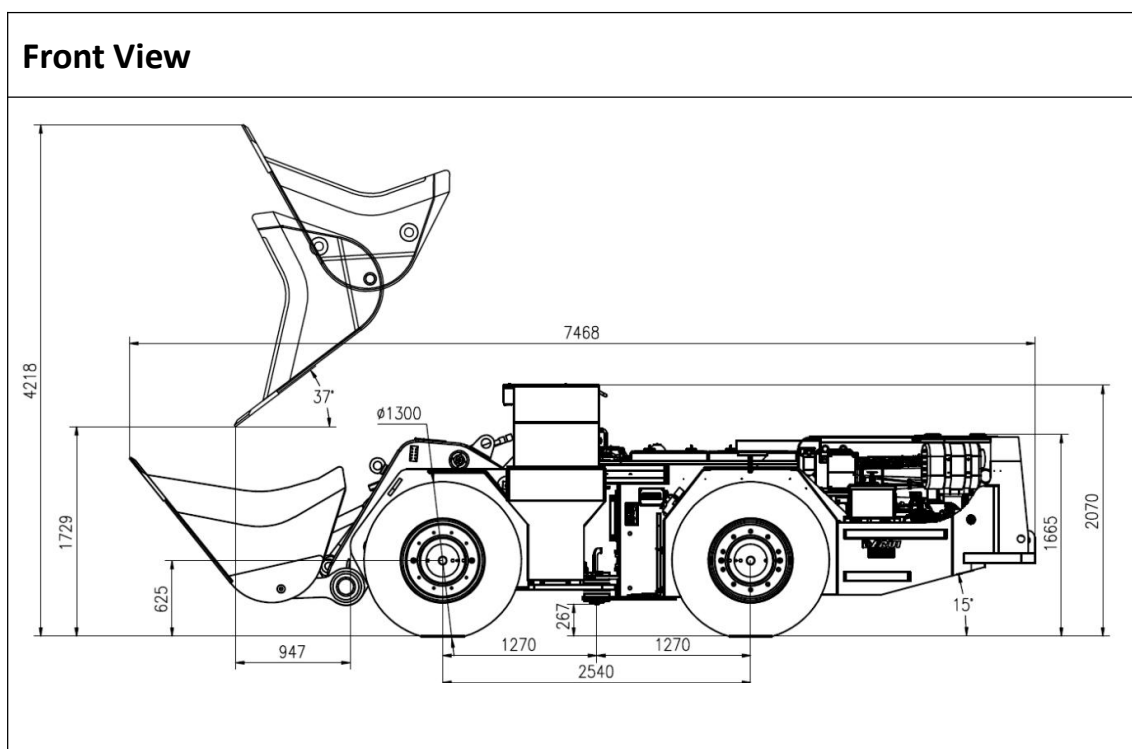
DRWJ-2 Underground Diesel LHD Loader is a diesel-powered load-haul-dump machine with a payload capacity of up to 4 tons, making it especially suitable for small-scale underground mining operations. Its compact design overcomes the spatial constraints of narrow mine tunnels.

#### Main Technical Parameters of the Complete Machine

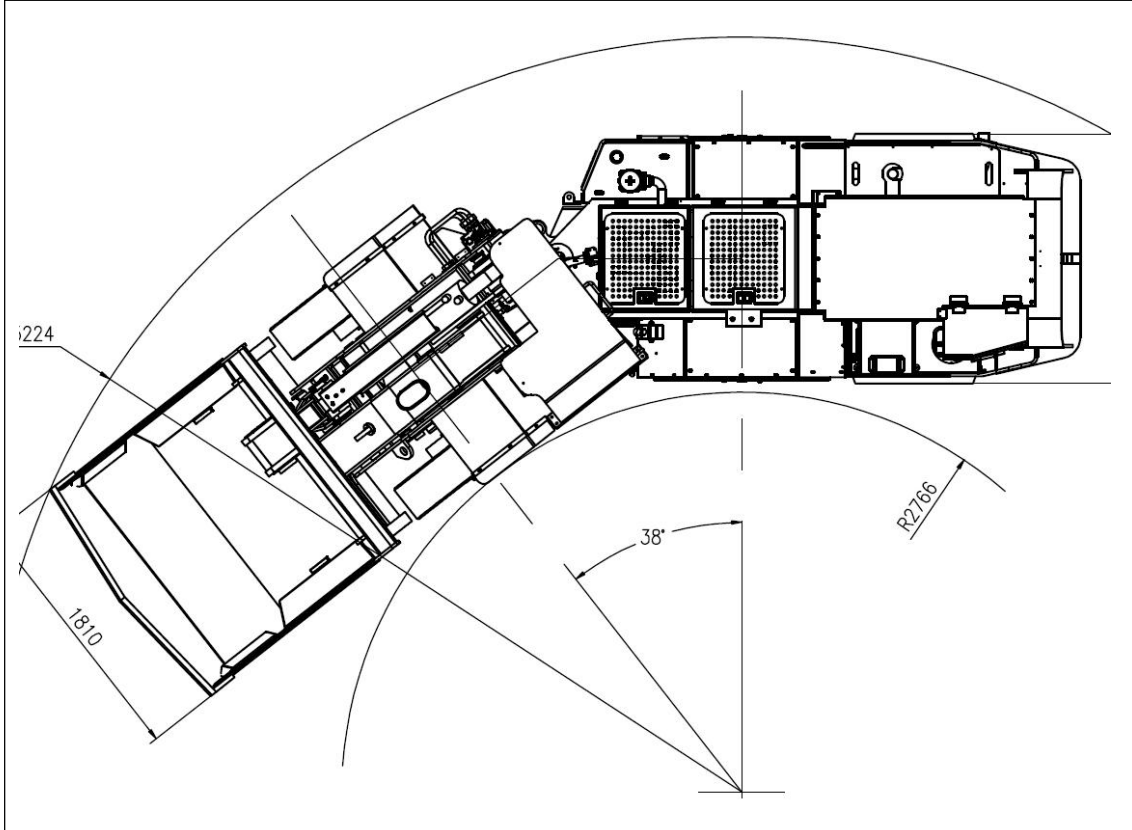
No.	Parameter Description	Value
1	Bucket Capacity (m <sup>3</sup> )	2
2	Rated Payload (kg)	4,000
3	Operating Weight, Empty (kg)	14,500
4	Max. Digging Force (kN)	≥80
5	Max. Dump Height (mm)	≥112
6	Transport Dimensions (L×W×H) (mm)	7468×1810×2070

7	Min. Ground Clearance (mm)	267	
8	Max. Dump Height (mm)	1,729	
9	Min. Dump Reach (mm)	947	
10	Steering Angle ( ° )	38	
11	Dump Angle ( ° )	37	
12	Departure Angle ( ° )	≥15	
13	Frame Oscillation Angle ( ° )	±6~±8	
14	Max. Gradability (Loaded) ( ° )	≥12	
15	Min. Turning Radius (Outside) (mm)	5,224	
16	Min. Turning Radius (Inside) (mm)	2,766	
17	Travel Speed(km/h)	1gear	4.3
		2gear	8.5
		3gear	14.0
		4gear	22.0

Note: Dimensions in transport configuration vary depending on the engine model selected.



## Steering View



## Main Benefits

### Adaptability Design

- Designed specifically for underground metal ore mining and transportation, the equipment features a compact size and a small turning radius, making it suitable for operation in narrow tunnels.
- The drive axle adopts a normally closed wet-type design, featuring spring-applied braking and hydraulic release, which enhances both reliability and safety. This configuration is well-suited for the complex road conditions and loading operations encountered underground.
- The rear axle is designed with a swing frame, providing a more rational structure and improved handling comfort and safety.

## Durability

- It utilizes a reinforced drive axle, which is more robust, durable, and impact-resistant compared to the lighter axles used by other manufacturers, resulting in reduced failure rates.
- The machine's copper bushings are made of high-strength brass with radially embedded, orderly-arranged cylindrical graphite fillers as friction material. The embedded solid lubricant facilitates the formation of a lubrication film, offering advantages such as high precision, strong load-bearing capacity, and excellent wear resistance.
- The hydraulic oil tank undergoes acid pickling, phosphating, and high-pressure treatment technologies, ensuring the cleanliness of the hydraulic system and extending the service life of pumps and motors.
- It comes standard with a positive-rotation six-linkage mechanism. The bucket structure is designed to avoid multiple digging passes, and both the main cutting edge and side edges are made of premium high-strength wear-resistant material, effectively boosting production efficiency while enhancing the bucket's durability and service life.
- The cutting edge is made of special wear-resistant steel plate, offering superior wear and shear resistance, with a service life 1.5-2 times longer than that of ordinary wear-resistant steel plates.



Engine				
Brand/Model	DEUTZ F6L914	DEUTZ BF4L914	DEUTZ BF4M1013	Cummins F4.5
Rated Power	84kW	112kW	119kW	125kW
Standard	Wind cooling	Wind cooling	Water cooling	Water cooling

<b>Hydraulic System</b>	<b>Brand</b>	
Working Pump(Gear Pump)	Permco	√
Steering Pump(Gear Pump)	Permco	√
Multi - way Control Valve	Youli	√
Steering Control Valve	Walvoil	√
Make - up Valve / Replenishing Valve	NAVIX	√
Pedal - operated Valve	NAVIX	√

<b>Electric system</b>	
Working Voltage,24V	√
7-inch Color Display Screen	√
Real-time Monitoring of Operating Status of Main System Components	√
CAN Bus Communication	√

<b>Fuel</b>	Litres
Working Hydraulic Oil Tank	176
Travel Hydraulic Oil Tank	165

<b>Transmission</b>		
Torque Converter	DANA C270	√
Gearbox / Transmission	DANA R32000	√
Drive Axle	Derui	√
Tyre / Tire	12.00-24	√

<b>Main frame</b>	
KA requirement	√
Center hinge and boom up lock device	√
Knockdown construction	√
Handheld fire extinguisher	√
Dump cylinder rod protector	√
Tool box	√

<b>Control system</b>	
Engine date display	√
Audio-visual reverse alarm	√
Yellow strobe light-power on	√
Steering Wheel Control	√
Single level dump and hoist control	√

<b>Optional Configurations</b>
Automatic Fire Suppression System
Radio remote control
Harmful Gas Monitoring
360° Surround View
Weighing System
Central manual lubrication

<b>Operator's Compartment</b>	
Canopy(ISO ROPS and FOPS approved)	√
Dual - Lever Operation	√
LED Front and Rear Lighting	√
Two - Point Seat Belt	√
Three - Point Contact Quick Access to Cab	√
Side seated operator for bi-directional operation and maximum visibility	√

<b>Documentation</b>	
Parts manual	√
Operational manual	√
Maintenance and service manual	√