TECHNICAL SPECIFICATION

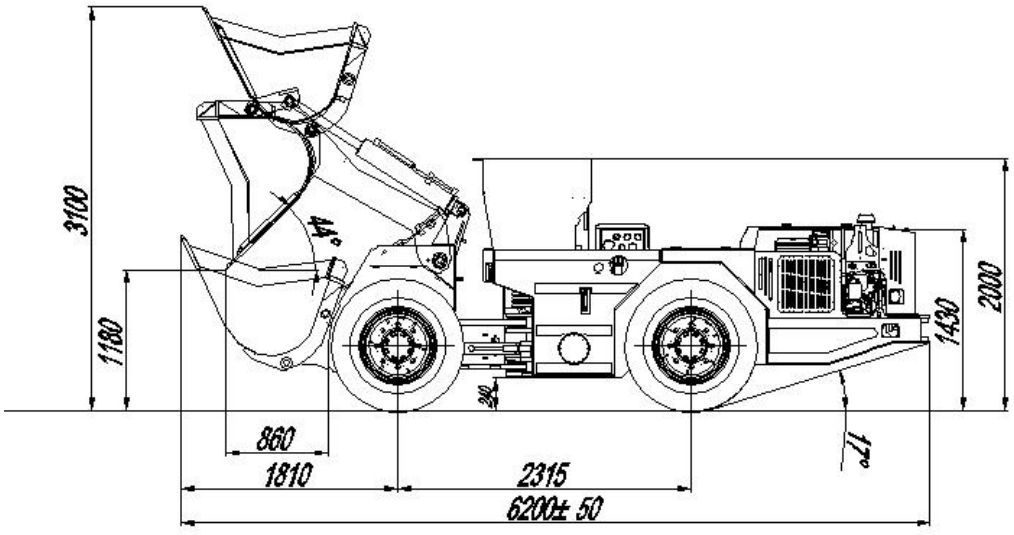
DRWJ-1 UNDERGROUND Load Haul Dump(LHD) Loaders

DRWJ-1 Underground Diesel LHD Loader is a diesel-powered load-haul-dump machine with a payload capacity of up to 2 tons, making it especially suitable for small-scale underground mining operations. Its compact design overcomes the spatial constraints of narrow mine tunnels.

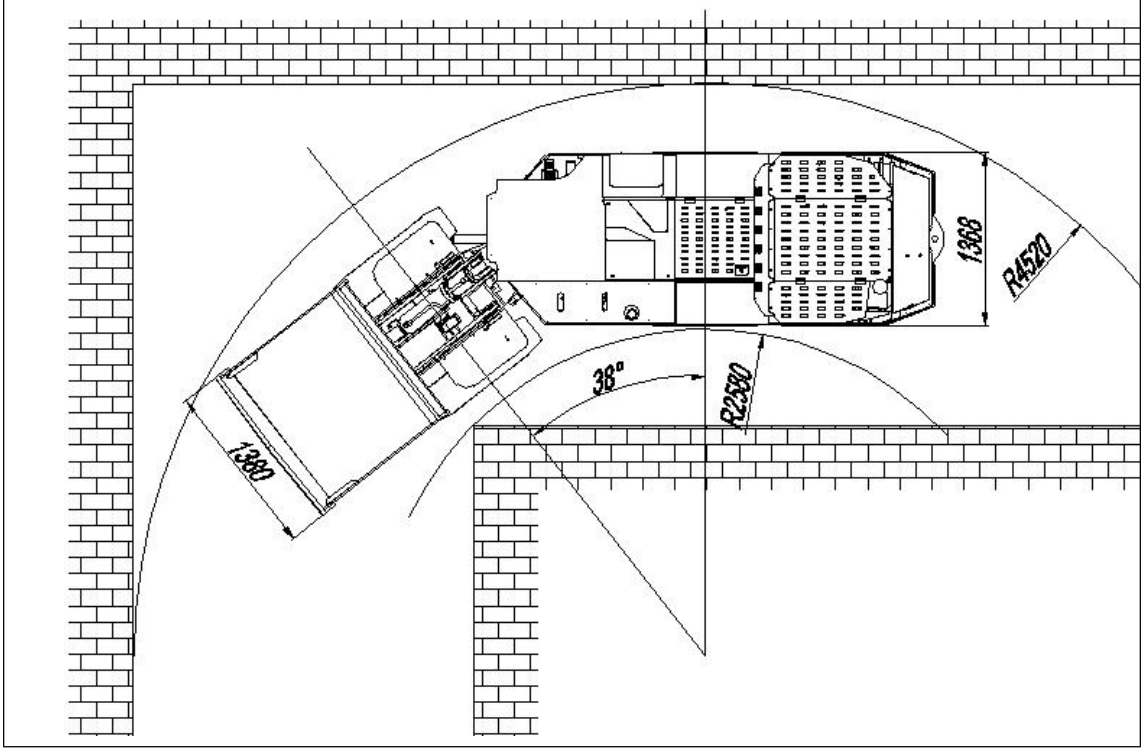
Main Technical Parameters of the Complete Machine		
No.	Parameter Description	Value
1	Bucket Capacity (m^3)	1
2	Rated Payload (kg)	2,000
3	Operating Weight, Empty (kg)	7,250

4	Max. Digging Force (kN)		≥48
5	Max. Dump Height (mm)		≥58
6	Transport Dimensions (L×W×H) (mm)		6200×1380×2000
7	Min. Ground Clearance (mm)		240
8	Max. Dump Clearance Height (mm)		3,100
9	Max. Dump Height (mm)		1,180
10	Min. Dump Reach (mm)		860
11	Steering Angle (°)		38
12	Dump Angle (°)		44
13	Departure Angle (°)		≥17
14	Frame Oscillation Angle (°)		±6~±8
15	Max. Gradability (Loaded) (°)		≥14
16	Min. Turning Radius (Outside) (mm)		4,520
17	Min. Turning Radius (Inside) (mm)		2,580
18	Travel Speed(km/h)	1 gear	7.1
		2 gear	19.1

Front View



Steering View



Main Benefits

Low Failure Rate

- Incorporates a Sauer (USA) hydraulic system characterized by low failure rates and optimal engine compatibility, maximizing overall engine efficiency.

- Technological innovation enables the direct series connection of gear pumps and variable displacement pumps, reducing the incidence of faults and extending the service life of gear pumps.

- Key components, including the

axle housing, differential, planetary gears, and half-shafts, are designed with enhanced structural optimization and material reinforcement for robustness, durability, high impact resistance, and reduced failure rates.

Durability

- Specially treated hydraulic tanks provide reliable protection for the service life of the vehicle's core components, including pumps and motors. The use of high-quality related parts extends the overall product lifespan.
- All copper bushings of the machine are made of high-strength brass, radially embedded with orderly arranged cylindrical graphite fillers as friction material. This offers advantages such as high precision, strong load-bearing capacity, and excellent wear resistance

Engine	
Brand/Model	DEUTZ BF4L914
Rated Power	68.5kW
Cooling Method	Wind cooling

Hydraulic System	Brand	
Triple- Section Pump	AnhuiWanye	√
Multi - way Control Valve	VaiVoil	√
Steering Control Valve	VaiVoil	√
Make - up Valve	Mico	√
Pedal - operated Valve	Mico	√

Transmission		
Torque Converter	WoKe	√
Gearbox / Transmission	WoKe	√
Drive Axle	Derui	√
Tyre / Tire	10.00-20	√

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

Fuel	Litres
Working Hydraulic Oil Tank	80
Travel Hydraulic Oil Tank	150

Main frame	
KA requirement	√
Center hinge and boom up lock device	√
Knockdown construction	√
Central manual lubrication	√
Handheld fire extinguisher	√
Dump cylinder rod protector	√
Checkfire automatically activated fire suppression system	√
Scooptram Radio Remote Control	√
Tool box	√
Dry-Type Three-Way Catalytic Converter	√

Control system	
Engine date display	√
Audio-visual reverse alarm	√
Yellow strobe light-power on	√
Dual-Lever Control	√
Single level dump and hoist control	√

Optional Configurations
Automatic Fire Suppression System
Radio remote control

Operator’s compartment	
Canopy(ISO ROPS and FOPS approved)	√
Side seated operator for bi-directional operation and maximum visibility	√
Two-Point Seat Belt	√

Documentation	
Parts manual	√
Operational manual	√
Maintenance and service manual	√