



TECHNICAL SPECIFICATION

DRWJ-6 UNDERGROUND Load Haul Dump(LHD) Loaders

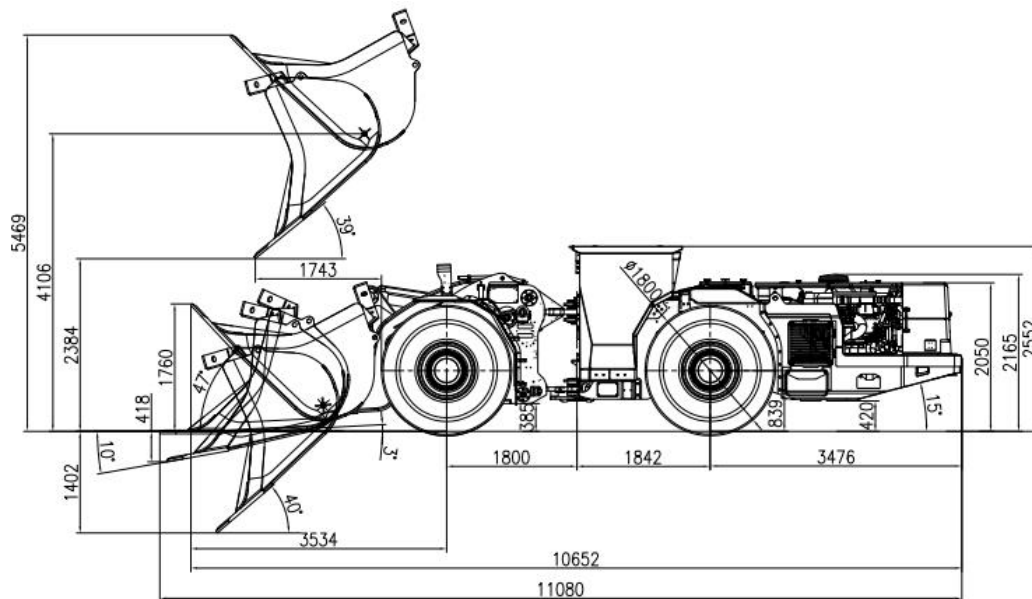


The DRWJ-6 Underground Diesel LHD Loader is a diesel-powered load-haul-dump machine with a payload capacity of up to 12 tons. Its compact design allows it to operate efficiently in confined spaces, making it particularly suitable for medium to large-scale underground mining operations.

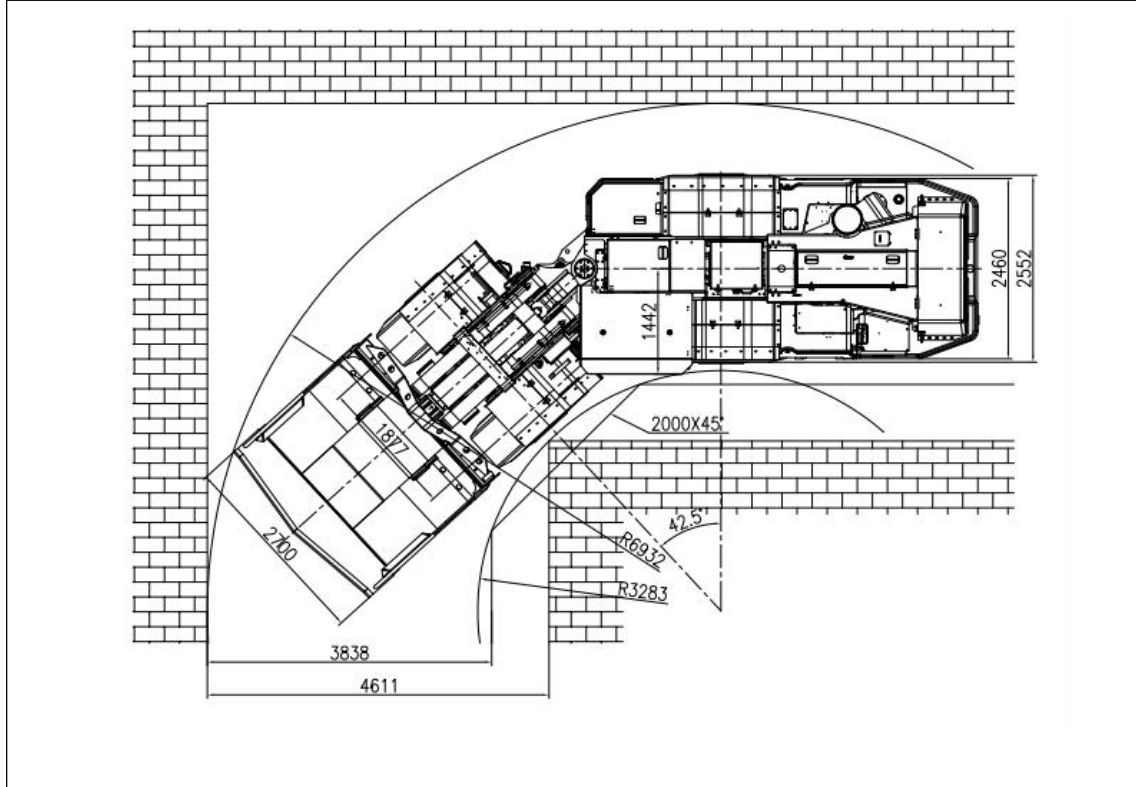
Main Technical Parameters of the Complete Machine		
No.	Parameter Description	Value
1	Bucket Capacity (m ³)	6
2	Rated Payload (kg)	14,000
3	Operating Weight, Empty (kg)	40,400
4	Max. Digging Force (kN)	≥220
5	Max. Dump Height (mm)	≥320

6	Transport Dimensions (L×W×H) (mm)	10794×2737×2555	
7	Min. Ground Clearance (mm)	380	
8	Max. Dump Height (mm)	2,384	
9	Min. Dump Reach (mm)	1,743	
10	Steering Angle (°)	42.5	
11	Dump Angle (°)	39	
12	Departure Angle (°)	≥15	
13	Frame Oscillation Angle (°)	±8~±10	
14	Max. Gradability (Loaded) (°)	≥12	
15	Min. Turning Radius (Outside) (mm)	6,932	
16	Min. Turning Radius (Inside) (mm)	3,283	
17	Travel Speed(km/h)	1gear	4.5
		2gear	7.9
		3gear	13.0
		4gear	21.5

Front View



Steering View



Main Benefits

High efficiency

- Effective Payload Capacity: 12 Tons. Equipped with an extra-large capacity bucket, operational efficiency is significantly enhanced, enabling maximized production output.
- The equipment features a **reverse six-linkage working mechanism** and **fully hydraulic center-articulated steering**. An integrated lever control system has been developed based on ergonomic principles, and through scientific design, the product significantly enhances operational efficiency.
- The equipment is equipped with a **DANA torque converter** and **power-shift transmission** from the United States, achieving optimal integration with the Volvo engine. This configuration maximizes engine efficiency while improving equipment availability and ore-handling productivity.

Durability

- The equipment adopts an **FEA- optimized front frame and box- section boom**, specifically designed to withstand extreme impact forces during loading and hauling operations. The entire frame features deep- penetration, uniform welding throughout, ensuring robust structural fusion and delivering over **12% higher load- bearing capacity** compared to similar- class products. This results in a more durable and rugged overall structure, enabling greater ore loading and hauling capacity while significantly extending the product lifecycle.
- The hydraulic oil tank undergoes **acid pickling, phosphating, and high- pressure cleaning treatment**, providing reliable protection for the service life of the vehicle's core components, including the transmission, torque converter, and hydraulic pump.



Engine	
Brand/Model	Volvo TAD1150VE
Rated Power	285kW
Standard	Water cooling

Hydraulic System	Brand	
Working Pump(Plunger Pump)	Rexroth	√
Steering Pump(Plunger Pump)	Rexroth	√
Multi - way Control Valve	Parker	√
Steering Control Valve	Parker	√
Replenishing Valve	Parker	√
Pedal - operated Valve	Mico	√

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

Fuel	Litres
Working Hydraulic Oil Tank	420
Travel Hydraulic Oil Tank	305

Transmission		
Torque Converter	DANA C9000	√
Gearbox / Transmission	DANA 6000	√
Drive Axle	DANA 53R	√
Tyre / Tire	26.5-25	√

Main frame	
KA requirement	√
Center hinge and boom up lock device	√
Knockdown construction	√
Handheld fire extinguisher	√
Dump cylinder rod protector	√
Tool box	√
Automatic Centralized Lubrication System	
Fire Extinguisher	
Smoothing Function	
Boom Floating Function	
Front & Rear Camera Monitoring	

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

Operator's Compartment	
FOPS/ROPS Certification	√
Dual - Lever Operation	√
LED Front and Rear Lighting	√
Two - Point Seat Belt	√
Three - Point Contact Quick Access to Cab	√

Optional Configurations
Automatic Fire Suppression System
Line-of-Sight Remote Control Device

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