

WJ-4.5 UNDERGROUND WHEEL LOADER



Main features:

➤ Structure

Quality structural steel;

Boom fast descend protection system;

Specially designed bucket blade with wear resistance material NM450;

Swinging locking device to assure transport safety;

➤ Operation

Central articulated frame

Side-view cab, to enlarge the view range of the operator;

Suspension seat with safety belt;

➤ PowerTrain

Engine: EU 3 emission standard water-cooled diesel engine with turbo charger;

DANA transmission, converter, drive axles;

➤ Hydraulic system

Electro-hydraulic proportional joystick, easy to operator;

Main hydraulic components from global famous brand;

Travelling brand+Parking brake: multiple wet discs brake, maintenance free;

Braking method: SAHR system; Spring brake, hydraulic release, with great mobility;

Main specifications

Size	
Length	9500 mm±150mm
Width	2,740 mm±150mm
Height	2372 mm±150mm

Weight	
Empty weight	25,300 kg
Complete weight	35,300 kg

Loading capacity	
Maximum loading capacity	10 Metric Ton
Standard bucket volume	4~5 m³

Traveling speed (Full load, Forward Reverse, on plat road with no inclination	
1 gear	3.9 km/h
2 gear	7.6 km/h
3 gear	12.9 km/h
4 gear	21.9 km/h

Mobility	
Grade ability at 3.3 km/h full load	25%
Maximum grade ability	15°
Maximum traction force	272 kN
Oscillate angle	±10°

PowerTrain	
Standard engine brand	SCANIA
Model	DC09 076A
Cooling method	Water-cooled

Control method	CAN BUS
Rated power	202 kW/2100 rpm
Maximum torque output	1380 Nm/1500 rpm
Emission standard	Euro III
Options: Volvo Penta, Cummins, MTU Benz, Weichai, etc.	

Torque converter	
Brand	DANA
Model	5500 series

Transmission	
Brand	DANA
Model	36000 series
Shifting method	Electric control

Drive method	
Rigid planetary drive axle with multi-discs wet brake, front axle with limited pin, rear axle with standard differential;	
Brand	DANA
Model	20D series
Rim size	13.00-25
Tire size	18.00-25
Inflation pressure	Front tires 6.0 ± 0.1 bar Rear tires 3.5 ± 0.1 bar

Control method
Engine with CAN BUS controller, electric throttle pedal, status display and failure auto-detecting;
Electro-hydraulic proportional joystick;

Steering hydraulics	
Central articulation structure, power steering with 2 dual drive hydraulic cylinder and 1 joystick	
Steering angle	$\pm 42^\circ$
Turning radius (inner)	$3,345 \pm 250$ mm
Turning radius (outer)	$6,650 \pm 250$ mm
System hydraulic pressure	210 bar
Main steering hydraulic components	
Multiple directional valve	HAWE

Hydraulic pump	Danfoss
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Working hydraulics	
Clockwise six-link structure with 2 lifting cylinder+1 tilting cylinder+1 electric joystick	
System pressure	230 bar
Main boom hydraulic components	
Multiple directional valve	HAWE
Hydraulic pump	Danfoss

Braking system	
Spring brake, hydraulic depressurized, external forced-cooling, travelling & parking integrated multi-discs wet brakes on each wheels, with brake unlocking device.	
System pressure	158 bar
Main braking hydraulic components	
Hydraulic pump	Tianjin Permco
Charing valve	MICO
Footage brake valve	MICO

Electric system	
Generator	28 V,100 A
Battery	2x12 V, 195 Ah
Starter motor	6.0 kW, 24 V
Front Rear work light	6x40 W, LED

Liquid fill-in	
Diesel	300 L
Hydraulic oil	350 L
Tank volume may be adjusted to clients request	

Options	
LoS remote control (Line of Sight)	
Tele remote control	
Automatic-weighing system	
Auto-shift system	
Automatic fire suppression system	
Automatic central lubrication system	
Travel aid system + reverse warning	

Recording system with 64GB hard discs storage for the management to check the working status

Main components brands listing:



**VOLVO
PENTA**



KESSLER+CO

—Parker

Danfoss





