

1.1 Configuration of the Integrated Equipment

Engine

Manufacturer	DEUTZ
Type	D914L06
Design	air-cooled diesel engine two-stage combustion
Max power	84 kW/2300 rpm
Max torque	375 Nm/1500 rpm
Air intake system	Oil air filter
Exhaust system	Silencer/exhaust gas catalyst
Emission	COM III (EU Stage IIIA/US EPA Tire 3)

Converter

Manufacturer	Dana
Type	C272
Design	Single-stage industrial type with auxiliary drives

Transmission

Manufacturer	Dana
Type	R32421
Design	Power shift transmission with 4 forward and 4 reverse gears each

Axles

Manufacturer	Xuzhou • China
Type	KT2020
Design	Rigid planetary axles with differential gear
Rear axle swing angle	$\pm 8^{\circ}$

Brakes

Brake system	Fully enclosed multiple wet discs at each wheel end. Combinated service and parking brake. Spring applied, hydraulically released.
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Hydraulic system

Dump/hoist hydraulic system

Number of hoist cylinders	1
Number of dump cylinders	1
Boom raising	7.5 sec
Bucket raising, from dumping position	5.8 sec

Steering hydraulic system

Number of steering cylinders	1
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Wheels and tires

Rim	10.00-24
Tires	12.00/2.5-24
Tire filling pressure	6.5 bar

1.2 Performance of the Integrated Equipment

Main dimensions

Length	7060±100 mm
Width	1770±50 mm
Height (above driver's canopy)	1880±50 mm
Bucket capacity (SAE, heaped)	2 m ³
Max hoist height	3970±50 mm
Max unloading height	1830±50 mm
Unloading angle	42°±2°
Inner clearance circle	2800±150 mm
Outer clearance circle	5100±250 mm
Steering angle	40°±2°

Weights

Operating weight	12500 kg
Payload	4000 kg
Front-axle load, unladen	5625 kg
Rear-axle load, unladen	6875 kg

Driving capacities

Maximum driving speed, laden forward/reverse, on a level roadway

1st gear	0~3.6 km/h
2nd gear	0~7.6 km/h
3rd gear	0~12.5 km/h
4th gear	0~20 km/h
Maximum admissible gradient	25%, 1st gear 3.0 km/h
Maximum tractive force	139 kN

Electrical equipment

Operating voltage	DC 24 V
Alternator	28 V/35 A
Starter	4.0kW/24V

Battery 2×12 V/135 Ah

Lights 4*50 W

Filling volumes

Fuel tank 100 l

Hydraulic tank 120 l

Front axle differential gear 35 l

Rear axle differential gear 35 l

