

1.1 Configuration of the Integrated Equipment

(1) Engine

Manufacturer	DEUTZ
Type	F10L413FWB
Design	air-cooled diesel engine two-stage combustion
Max power	170 kW/2300 rpm
Max torque	840 Nm/1500 rpm
Air intake system	Dry air filter
Exhaust system	Silencer/exhaust gas catalyst

(2) Torque converter

Manufacturer	CLARK
Type	C5472
Design	single-stage industrial type with auxiliary drives for steering and dump/hoist hydraulic systems

(3) Power shift transmission

Manufacturer	CLARK
Type	R36420
Design	power shift transmission with 4 forward and 4 reverse gears each

(4) Axles

Manufacturer	CLARK
Type	19D2748
Design	rigid planetary axles with differential gear
Rear axle swing angle	$\pm 15^{\circ}$

(5) Design of brake system

Design of service brake	multi-disk brake, externally cooled
Design of parking brake	spring brake operated disk brake,

Hydraulically released

(6) Hydraulic system

Dump/hoist hydraulic system

Number of hoist cylinders	2
Boom raising	19 sec
Bucket raising, from dumping position	20 sec

Steering hydraulic system

Number of steering cylinders	2
------------------------------	---

(7) Wheels and tires

Rim	18.00-25
Tire filling pressure	7.0 bar

1.2 Performance of the Integrated Equipment

(1) Main dimensions

Length	9200±50 mm
Width	2950±50 mm
Height	2420±50 mm
Bucket capacity (SAE, heaped)	15 m ³
Max hoist height	4850±100 mm
Unlading angle	70°±1°
Inner clearance circle	5300±250 mm
Outer clearance circle	9200±250 mm
Steering angle	42°±2°

(2) Weights

Operating weight	25500 kg
Payload	25000 kg

(3) Driving capacities

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

1st gear	0~5.3 km/h
2nd gear	0~11.7 km/h

3rd gear	0~18.5 km/h
4th gear	0~26.0 km/h
Maximum admissible gradient	22%

(4) Electrical equipment

Operating voltage	24 V
Battery	2×12 V/165 Ah
Main/reversing headlights	50 W

(5) Filling volumes

Fuel tank	300 l
Hydraulic tank	275 l
Front axle differential gear	45 l
Rear axle differential gear	45 l



