

1.1 Configuration of the Integrated Equipment

(1) Engine

Manufacturer	DEUTZ
Type	BF4M1013C
Max power	104KW/2300rpm
Air intake system	Dry air filter
Exhaust system	Silencer/exhaust gas catalyst

(2) Torque converter

Manufacturer	Dana
Type	C273
Design	single-stage industrial type with auxiliary drives for steering and dump/hoist hydraulic systems

(3) Power shift transmission

Manufacturer	Dana
Type	R28000
Design	power shift transmission with 4 forward and 4 reverse gears each

(4) Axles

Manufacturer	XUZHOU • CHINA
Type	SOMA C103
Design	rigid planetary axles with differential gear
Rear axle swing angle	$\pm 8^{\circ}$

(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

Pump delivery flow rate	(32+24) ml/r
Number of hoist cylinders	2
Boom raising	14 sec
Bucket raising, from dumping position	10 sec

Steering hydraulic system

Pump delivery flow rate	8ml/r
Number of steering cylinders	2

(7) Wheels and tires

Rim	14.00/2.5—24
Tires	14.00—24
Tire filling pressure	7.0 bar

1.2 Performance of the Integrated Equipment

(1) Main dimensions

Length	7760±50 mm
Width	1780±50 mm
Height	2284±50 mm
Bucket capacity (SAE, heaped)	5.5 m ³
Max hoist height	3910±100 mm
Unlading angle	70°±1°
Inner clearance circle	4820±250 mm
Outer clearance circle	7290±250 mm
Steering angle	40°±2°

(2) Weights

Operating weight	11000 kg
Payload	10000 kg

(3) Driving capacities

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

1st gear	0~3.5 km/h
2nd gear	0~7.0 km/h
3rd gear	0~13.0 km/h
4th gear	0~23.0 km/h
Maximum admissible gradient	25%
Maximum tractive force	197 kN

(4) Electrical equipment

Operating voltage	24 V
Alternator	28 V/35 A
Battery	2×12 V/165 Ah
Main/reversing headlights	50 W

(5) Filling volumes

Fuel tank	134 l
Hydraulic tank	275 l
Front axle differential gear	45 l
Rear axle differential gear	45 l