1.1 Configuration of the Integrated Equipment

⑴ Engine

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

⑵ Torque converter

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

⑶ Power shift transmission

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

⑷ Axles

Manufacturer	XUZHOU・CHINA
Type	SOMA C103
Design	rigid planetary axles with differential gear
Rear axle swing angle	$\pm 8^0$

⑸ Design of brake system

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

⑹ 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

⑺ **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

⑴ **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	$40^0 \pm 2^0$

⑵ **Weights**

Operating weight	11000 kg
Payload	10000 kg

⑶ **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