

## 1.5 Technical Data

### Main dimensions

Length	9 450 mm
Width, at the driver's cab	2 625 mm
Width, at the bucket	2 300 mm
Height, at the drive unit	1 790 mm
(above driver's canopy)	2 350 mm
Bucket capacity (SAE, heaped)	4,5 m <sup>3</sup>

### Weights

Deadweight	24 500 kg
Payload	9 500 kg
Front-axle load, unladen	11 300 kg
Rear-axle load, unladen	13 200 kg
Front-axle load, laden	26 100 kg
Rear-axle load, laden	7 900 kg

### Tramming capacities

Maximum tramming speed	
laden forward / reverse, on a level roadway	
1st gear	4.5 km/h
2nd gear	9.0 km/h
3rd gear	15.4 km/h
4th gear	25.0 km/h
Mximum admissible gradient	25.0 %
Maximum tractive force	227 kN

### Engine

Manufacturer	DEUTZ
Type	F10L413FW
Design	air-cooled diesel engine two-stage combustion
Max. power	170 kW/2300 min <sup>-1</sup>
Air intake system	Dry air filter
Exhaust system	Diesel particle filter
Starter power/voltage	6.6 kW/24 V
Three-phase alternator/voltage	28 V/55 A

## Travel drive unit

Torque converter

Manufacturer

Clark

Type

series C8000

Design

single-stage industrial type with auxiliary drives for steering and dump/hoist hydraulic systems

Power shift transmission

Manufacturer

Clark

Type

series 32 000

Design

power shift transmission with 4 forward and 4 reverse gears each

Axles

Front axle

Manufacturer

Clark

Type

19 D 2748

Design

rigid planetary axles with differential gear

Rear axle

Manufacturer

Clark

Type

19 D 2748

Design

rigid planetary axles with differential gear

Swing angle

$\pm 10^\circ$

## Wheels and tires

Front wheels

Rim

Size

13.00 - 25/2,5

Tires

Size

18.00-25

Tire filling pressure

$6.0 \pm 0.1$  bar

Rear wheels

Rim

Size

13.00 - 25/2,5

Tires

Size

18.00-25

Tire filling pressure

$3.5 \pm 0.1$  bar

## Brakes

Design of brake system	hydraulic power brake system
Service brake	
Design	multi-disk brake, externally cooled
Parking brake	
Design	spring brake operated multi-disk brake, hydraulically released

## Steering

Design	swivel-joint hydraulic power steering
Steering angle	$\pm 40^\circ$
Outer clearance circle	$6500 \pm 250$ mm
Inner clearance circle	$3450 \pm 250$ mm

## Hydraulic system

Dump/hoist hydraulic system	
Pump delivery flowrate	$83,6+20,9$ cm <sup>3</sup> /U
System pressure	230 bar
Number of hoist cylinder	2
Number of dump cylinder	1
Boom raising	5.9 sec.
Bucket raising, from dumping position	5.5 sec.

## Steering hydraulic system

Pump delivery flowrate	$83,6+20,9$ cm <sup>3</sup> /U
System pressure	175 bar
Number of steering cylinder	2

## Electrical equipment

Operating voltage	24V
Battery	2 x 12 V/135 Ah

## Lighting system

Main/reversing headlights	75/70W
Additional headlights	70W

## Filling volumes

Hydraulic tank	350 l
Fuel tank	300 l
Engine with oil filter	appr. 31.5 l
Torque converter/power shift transmission circuit	appr. 36.0 l
Front axle differential gear	29.8 l
Front axle planetary gear	2 x 4.7 l
Rear axle differential gear	29.8 l
Rear axle planetary gear	2 x 4.7 l

Dimensions of vehicle

