

RB876

Wheel Loader

- 7 000 kg rated load
- 4.2 m³ standard bucket
- Weichai 199 kW engine

Heavy-duty wheel loader built for high-volume mining and quarry loading.

Available from Maaksheshwe – supplying yellow machinery and tipper trucks to the mining and construction sectors.

SPECIFICATIONS

Rated load	7 000 kg
Bucket capacity (std)	4.2 m ³
Breakout force (std bucket)	220 kN
Total cycle time	10.5 s
Operating weight	23 700 ± 300 kg
Aircon	Yes
Tyre size	750/65R/L3 Tubeless

MAIN DATA

■ Weichai engine (National III)	■ Joystick working control (single-lever)
■ ZF automatic electric control transmission	■ Hydraulic brake
■ Mechanical powershift control	■ ROPS & FOPS cabin
■ Yunyu axles (dry type)	■ Combination instrument
	■ Air conditioner

Technical Specifications

TRANSMISSION SYSTEM

Transmission type	Planetary powershift
Shift type	Automatic electric proportional shift
Transmission pressure	1.2–1.5 MPa
Torque converter type	Single-stage, duo-turbine, 4-element
Axles	Rigid (front) & oscillating (rear)
Rear axle oscillation	±10°
Differential	Conventional
Main reducer	Spiral bevel, 1-stage reduction
Final reducer	Planetary reduction
Tyre	750/65R25 L-3TL
Travel speed – forward	6 / 12.2 / 22.8 / 36 km/h
Travel speed – reverse	7.5 / 12.7 / 22.8 km/h

BRAKE SYSTEM

Service brake	Single circuit caliper, dry brake
Setting pressure	0.70–0.78 MPa
Parking & emergency brake	Hydraulic brake

STEERING SYSTEM

Type	Hydraulic load sensing system
Steering pump	220 L/min · 2 200 rpm
System pressure	16 MPa
Cylinder type	Double acting
Steering angle	±36°

ENGINE

Manufacturer / model	Weichai WP10G270E341
Rated power	199 kW / 2 000 rpm
Maximum torque	1 100 N·m / 1 400–1 600 rpm
Bore × stroke	126 × 130 mm
Cylinders / displacement	6 / 9.726 L
Air cleaner	Three-stage air cleaner
Alternator	55 A
Battery	2 – 24 V / 120 Ah
Starting motor	24 V / 7.5 kW

HYDRAULIC SYSTEM

Type	Joystick control (single-lever)
Working pump	176 L/min · 2 200 rpm
Control valve	2 spool
System pressure	23 MPa
Cycle time	10.8 s

REFUELLING CAPACITY

Fuel tank	350 L
Hydraulic tank	280 L
Crankshaft	20 L
Transmission	48 L
Front axle / rear axle	46 / 46 L

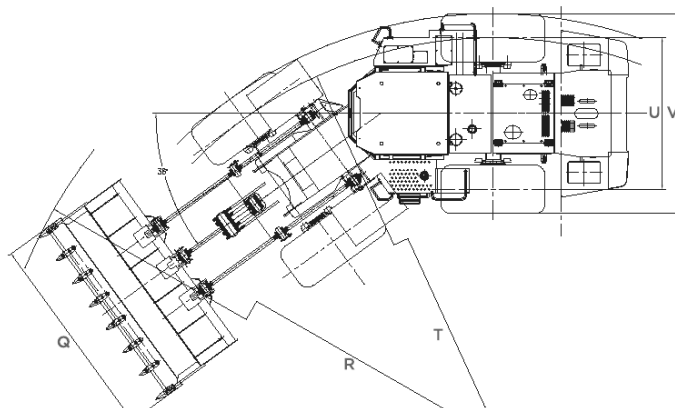
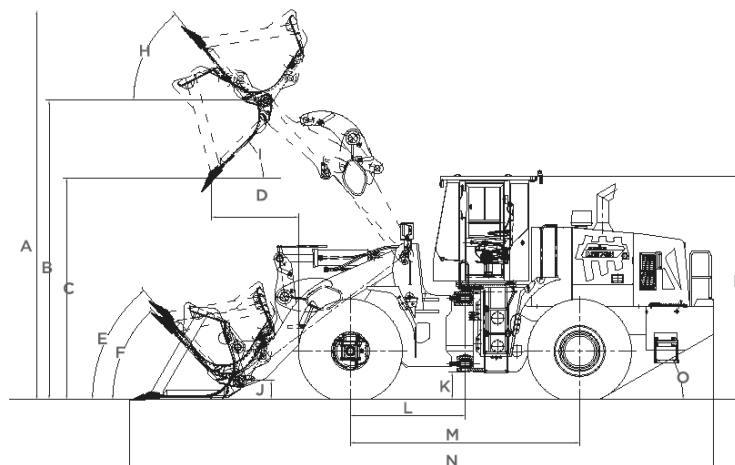
Overall Dimensions

DIMENSIONS A - K

A. Overall height – bucket raised	6 220 mm
B. Bucket pin height at max. lift	4 639 mm
C. Dump clearance at max. lift (45°)	3 419 mm
D. Reach at max. lift and 45° dump	1 493 mm
E. Rack back angle at carry	50.4°
F. Rack back angle at ground	47.6°
G. Digging depth	157 mm
H. Rack back angle at max. lift	51.6°
I. Dump angle at max. lift	40°
J. Carry height	400 mm
K. Ground clearance	421 mm

DIMENSIONS L - V

L. Centre line of front axle to hitch	1 775 mm
M. Wheel base	3 550 mm
N. Overall length	8 886 mm
O. Departure angle	30°
P. Height to top of cab	3 460 mm
Q. Overall width over bucket	3 300 mm
R. Min. turning radius over bucket	7 636 mm
S. Min. turning radius over tyres	6 935 mm
T. Steering angle – left/right	36°
U. Width at tread centre	2 350 mm
V. Overall width over tyres	3 100 mm



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