WHEEL LOADER

M100HD
LIGHT



ENGINE

Manufacturer	WEICHAI
Model	WP10G210E343
Net power	206 hp (154 kW) @ 2.000 rpm
Maximum net torque	844 Nm @ 1.400 rpm
Aspiration	Turbocharged
Cylinders	6
Displacement	9,7 ℓ
Injection system	Eletronic
Fuel economy selection	
Emissions certification	MAR 1 / Tier III

Air filter with primary and secondary elements and restriction indicator

TRANSMISSION

Powershift transmission with 2 forward speeds and 1 reverse speed.

Single-stage torque converter.

Maximum speeds	I	II
Forward	11,5 km/h	36,0 km/h
Reverse	16,0 km/h	-

HYDRAULIC SYSTEM

Hydraulic system powered by a gear pump.
Hydraulic control valve with 2 spools operated by a single joystick-type lever.
Hydrostatic steering with priority valve.
Specification:

System relief pressure	160 bar
Steering relief pressure	140 bar

AXLES AND BRAKES

Heavy-duty front and rear axles designed for demanding applications. 4-wheel drive.

Tires (front and rear):	23,5 x 25 - VJT L3
	20,5 x 25 - 16 PR (optional)

Service brake with dry discs, air-over-hydraulic actuation, and independent circuits for each axle (front and rear). Dry-disc parking brake located at the transmission output, air-operated via a mechanical button in the operator's compartment. Conventional differential.

COOLING SYSTEM

Radiator assembly positioned at the rear of the machine. Cooled by a high-capacity, belt-driven blower fan. Engine hood with gull-wing type panels, providing easy access for cleaning and maintenance of all components.

ELETRIC SYSTEM

Voltage	24 V
Batteries	2
Battery Capacity	120 Ah
Alternator	55 Ah
Front work lights on front equipment	2
Front work lights on cab roof	2
Rear work lights on cab roof	2
Rear brake and turn signal lights	2

PERFORMANCE

Standard bucket	3,0 m³ (3,92 j³)
Operating load	5.000 kg
Articulated tipping load	10.000 kg
Breakout force	15.800 kgf
Articulation angle	35°

OPERATOR COMPARTMENT

- Analog gauges for: transmission oil temperature; engine coolant temperature; hour meter; transmission oil pressure; engine oil pressure; service brake air system pressure.
- Indicator lights for: air filter, transmission filter, and hydraulic filter restriction; engine coolant and transmission temperatures; economy mode; parking brake; low service brake air system pressure; battery charging; pre-heat; selected gear; turn signals.
- Control switches for: engine pre-heat; fan; windshield wiper; work lights.
- Master disconnect switch
- AM/FM radio
- Sun visor
- Ignition switch
- Cab interior light
- Operator's seat with headrest and adjustable armrests
- Air conditioning with HVAC system
- R.O.P.S. / F.O.P.S. cab

SERVICE CAPACITIES

Fuel tank	200 ℓ
Engine oil	17,0 ℓ
Transmission	37,0 ℓ
Axles - Front	18,5 ℓ
Rear	18,5 ℓ
Hydraulic system	173 ℓ

GLOBAL STRENGHTH AND TRADITION

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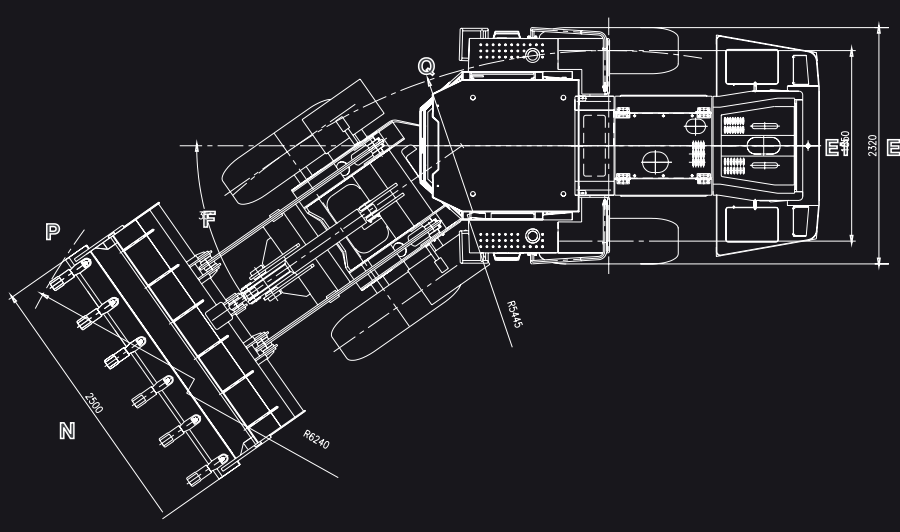


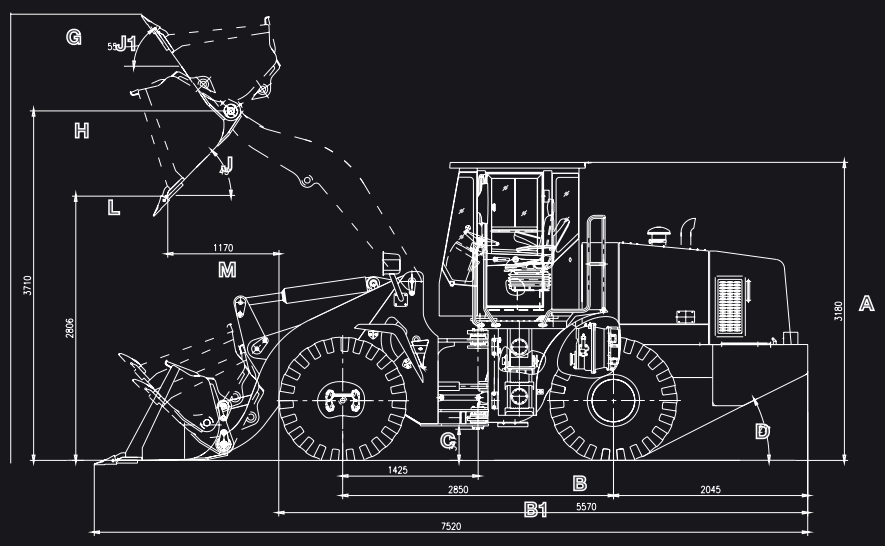
DIMENSIONS

Bucket type	Bucket with teeth
Bucket capacity	3,0 m³
A. Height to top of cab	3.380 mm
B. Wheelbase	3.070 mm
C. Ground clearance	530 mm
D. Departure angle	28.6°
E. Overall width without bucket	2.835 mm
E1. Track width	2.230 mm
F. Chassis articulation angle	35°
G. Operating height	5.383 mm
H. Height to hinge pin	8.200 mm
I. Overall length	7.760 mm
J. Dump angle - fully raised	45°
J1. Rollback angle	52.6°
L. Dump height - bucket at 45°	3.078 mm
M. Dump reach - bucket at 45°	1.190 mm
N. Bucket width - external	2.290 mm
P. Turning radius - over bucket	6.805 mm
Q. Turning radius - over tires	6.182 mm



FRONT ATTACHMENTS:
Z-bar linkage
3.0 m³ bucket with teeth
OTHER:
Engine hood with gull-wing doors
Standard counterweight
HVAC system
Engine pre-heater
OPTIONAL:
GPS system with telemetry





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