



ALL FOR SHOPS AND WAREHOUSES

VVN

Wheel loaders

Easy maintenance & outstanding after-sales services
Complete line of applications and accessories
Pilot control system, automatic leveling



Models described in the catalog:

VVN WL 42

VVN WL2 42

VVN WL 43

VVN WL 55

VVN WL 56

VVN WL 65

VVN WL 100

VVN WL 111

VVN WL2 111

VVN WL3 111

VVN WL4 111

VVN WL 112

VVN WL 113

VVN WL 115

VVN WL 116

VVN WL 117

VVN WL2 117

VVN WL3 117

VVN WL4 117

VVN WL5 117

VVN WL6 117

VVN WL 118

VVN WL 200

VVN WL 201

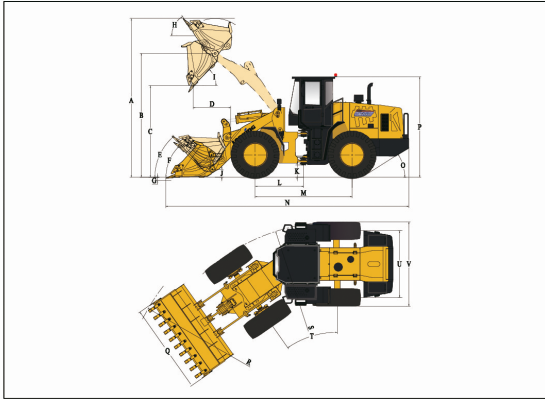
VVN WL2 201

VVN WL 116

overall specifications

DIMENSIONS

All dimensions are approximate. Dimensions may vary with bucket and tire choice. Refer to operating specifications.



NO.	DESCRIPTION	UNIT	DIMENSIONS
A	Overall Height – Bucket Raised	mm	5275
B	Bucket Pin Height at Max. Lift	mm	4119
C	Dump Clearance at Max. Lift (45°)	mm	3062
D	Reach at Max. Lift and 45° Dump	mm	1276
E	Rack Back Angle at Carry	°	48
F	Rack Back Angle at Ground	°	45
G	Digging Depth	mm	50
H	Rack Back Angle at Max. Lift	°	53
I	Dump Angle at Max. Lift	°	45
J	Carry Height	mm	400
K	Ground Clearance	mm	409
L	Center Line of Front Axle to Hitch	mm	1615
M	Wheel Base	mm	3230
N	Overall Length	mm	8015
O	Departure Angle	°	32
P	Height to Top of Cab	mm	3380
Q	Overall Width over Bucket	mm	3000
R	Min. Turning Radius over Bucket	mm	7170
S	Min. Turning Radius over Tires	mm	6537.5
T	Steering Angle – Left/Right	°	35
U	Width at Tread Center	mm	2240
V	Overall Width over Tires	mm	2835

OVERALL DATA

Bucket Capacity	3.0m ³
Rated Payload	5000kg
Operating Weight	16800±300kg
Traction Force	155±3kN
Breakout Force	170±3kN
L×W×H	8015×3000×3380mm

ENGINE&ELECTRICAL SYSTEM

Maker/Model	WEICHAI/WD10G220E21
Emission Standard	EPA (Tier II)/National II
Engine Type	4 Stroke, Turbocharged, Water-cooled, Direct Injection, Diesel Engine
Rated Power	162kW(220hp)/2200rpm
Maximum Torque	860N·m/1400-1600rpm
Bore x Stroke (mm)	126×130
No. of Cylinders/Displacement	6/9.726L
Compression Ratio	17.0
Air Cleaner	Three Stage Air Cleaner with Cyclone Pre-cleaner
Alternator	55Amp
Battery	2-24V/120Ah
Starting Motor	24V/7.5kW
Heating Capacity (W)-OPTIONAL	5000W
Cooling Capacity (W)-OPTIONAL	4700W

DRIVE TRAIN

Transmission Type	Planetary Powershift Transmission				
Shift Type	Mechanical Powershift Control				
Pressure of Transmission	1.2-1.5MPa				
Torque Converter Type	Single-stage, Duo-turbine, 4-element				
Torque Ratio	4.0				
Axles	Rigid Front Axle&Oscillating Rear Axle				
Rear Axle Oscillation (°)	±10°				
Differential	Conventional				
Main Reducer	Spiral Bevel, 1-stage Reduction				
Final Reducer	Planetary Reduction				
Tire	23.5-25 L-3 16PR TT				
Travel Speeds	km/h	1st	2nd	3rd	4th
	Forward	11.5	36		
	Reverse	16			

BRAKE SYSTEM

Service Brake	Single Circuit Caliper, Dry Brake
Setting Pressure	0.70-0.78MPa
Parking Brake	Flexible Shaft Controlled Caliper Brake
Emergency Brake	Flexible Shaft Controlled Caliper Brake

STEERING SYSTEM

Type	Hydraulic Load Sensing System		
Pump	Gear Pump, 176L/min • 2200rpm		
System Pressure	15MPa		
Cylinder	Type	Double Acting	
	Bore x Stroke	2-100×324mm	
Steering Angle	±35°		

HYDRAULIC SYSTEM

Type	Mechanical Shift Control			
Pump	Gear Pump, 220L/min • 2200rpm			
Control Valve	2 Spool (Bucket&Boom)			
System Pressure	16MPa			
Cylinder	Lift Cylinder	2-180×721mm		
	Tilt Cylinder	1-200×563mm		
Joystick Control Pressure	-			
Cycle Time (Sec)	Raise	Dump	Lower	Total
	6.0	1.0	4.0	11.0

SERVICE REFILL CAPACITY

Fuel Tank (L)	285L
Hydraulic Tank (L)	265/270 (3 rd Spool for Auxiliary Function)L
Crankshaft (L)	20L
Transmission (L)	46L
Front Axle/Rear Axle (L)	28L/28L

STANDARD EQUIPMENT

WEICHAI Engine	Flexible Shaft Controlled Caliper Brake
LONKING Transmission	Standard Lift&Bucket (3.0m ³)
Mechanical Powershift Control	ROPS&FOPS Cabin
LONKING Axles	Mechanical Instrument Panel
Mechanical Shift Control(2 Spool)	Warm-air Machine

OPTIONAL EQUIPMENT

Cold Starting (-35℃)	Quick-change Coupler
Oil-bath Air Filter	Quick-change Bucket
23.5R25 ★★ L-3 TL	3 Piece Cutting Edge, Bolt-on Type Bucket
23.5R25 ★★ L-5 TL	Rock Bucket(3.0m ³)
3 rd Spool for Auxiliary Function	Enlarged Bucket(3.5m ³)
Sliding Cabin Window	Coal Bucket(4.2m ³)
Electric Heating Rear Window	Log Fork
Lockable Oil Tank Cap	Grasping Pitchfork
Rear View Camera	Side Dump Bucket(2.5m ³)
Pressure Testing Connector	Marble Fork
Air Conditioner	Fork(Quick-change Only)
Radio/MP3	4in1 Bucket(Quick-change Only)
High Lift &Additional Counterweight	Snow Blade(Quick-change Only)



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