



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:

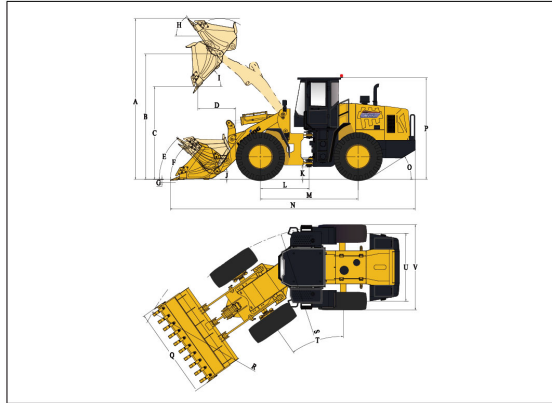
VVN WL 42	VVN WL2 42	VVN WL 43	VVN WL 55	VVN WL 56
VVN WL 65	VVN WL 100	VVN WL 111	VVN WL2 111	VVN WL3 111
VVN WL4 111	VVN WL 112	VVN WL 113	VVN WL 115	VVN WL 116
VVN WL 117	VVN WL2 117	VVN WL3 117	VVN WL4 117	VVN WL5 117
VVN WL6 117	VVN WL 118	VVN WL 200	VVN WL 201	VVN WL2 201

# VVN WL 115

## 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	5283
B	Bucket Pin Height at Max. Lift	mm	4136
C	Dump Clearance at Max. Lift (45°)	mm	3078
D	Reach at Max. Lift and 45° Dump	mm	1190
E	Rack Back Angle at Carry	°	48.3
F	Rack Back Angle at Ground	°	45
G	Digging Depth	mm	45
H	Rack Back Angle at Max. Lift	°	52.6
I	Dump Angle at Max. Lift	°	45
J	Carry Height	mm	400
K	Ground Clearance	mm	556
L	Center Line of Front Axle to Hitch	mm	1120
M	Wheel Base	mm	2930
N	Overall Length	mm	7760
O	Departure Angle	°	28.6
P	Height to Top of Cab	mm	3380
Q	Overall Width over Bucket	mm	3000
R	Min. Turning Radius over Bucket	mm	6805
S	Min. Turning Radius over Tires	mm	6182 (Front Tire) 5957 (Rear Tire)
T	Steering Angle – Left/Right	°	35
U	Width at Tread Center	mm	2240
V	Overall Width over Tires	mm	2835

### OVERALL DATA

Bucket Capacity	2.7m <sup>3</sup>
Rated Payload	5000kg
Operating Weight	15800±300kg
Traction Force	155±3kN
Breakout Force	155±3kN
L×W×H	7760×3000×3380mm

### 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)	5000W
Cooling Capacity (W)	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, 152L/min • 2200rpm		
System Pressure	15MPa		
Cylinder	Type	Double Acting	
	Bore x Stroke	2-90×324mm	
Steering Angle	±35°		

### HYDRAULIC SYSTEM

Type	Single-lever(Joystick) Control			
Pump	Gear Pump, 190L/min • 2200rpm			
Control Valve	2 Spool (Bucket&Boom)			
System Pressure	16MPa			
Cylinder	Lift Cylinder	2-160×836mm		
	Tilt Cylinder	1-180×559mm		
Joystick Control Pressure	2.5MPa			
Cycle Time (Sec)	Raise	Dump	Lower	Total
	6.0	1.2	4.3	11.5

### SERVICE REFILL CAPACITY

Fuel Tank (L)	280L
Hydraulic Tank (L)	245/250 (3 <sup>rd</sup> Spool for Auxiliary Function)L
Crankshaft (L)	20L
Transmission (L)	46L
Front Axle/Rear Axle (L)	28L/28L

### STANDARD EQUIPMENT

WEICHAI Engine	Single-lever(Joystick) Control
LONKING Transmission	Standard Lift&Bucket (2.7m <sup>3</sup> )
Mechanical Powershift Control	ROPS&FOPS Cabin&Beacon
LONKING Axles	Air Conditioner
Flexible Shaft Controlled Caliper Brake(Parking Brake)	Radio/MP3 LCD Display

### OPTIONAL EQUIPMENT

Cold Starting (-35℃)	High Lift &Additional Counterweight
Oil-bath Air Filter	Quick-change Coupler
Radial Tire	Quick-change Bucket(2.7m <sup>3</sup> )
3 <sup>rd</sup> Spool for Auxiliary Function	3 Piece Cutting Edge, Bolt-on Type Bucket
Sliding Cabin Window	Russian Bucket(3.0m <sup>3</sup> )
Electric Heating Rear Window	Enlarged Bucket
Lockable Oil Tank Cap	Coal Bucket(4.2m <sup>3</sup> )
Rear View Camera	Side Dump Bucket(2.5m <sup>3</sup> )
Pressure Testing Connector	Fan in Cabin
Warm-air Machine	



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