

The WL50G(WL60G) is a single-bucket,fornt-end,articulation, wheel loader. Wheel loader. It is adaptive to shovel or transfer such loose material as earth/clay,sand/gravel,aggrgate and rock,and carrying out such tasks as towing,ground leveling,stacking and piling in building site,port,quay,station,yard and so on. So it is a multi-purpose and efficient earth-moving machine.



WHEEL LOADER WL50G (CE) WL



ENGINE

CUMMINS QSB6.7 for WL50G(CE) diesel engine and QSC8.3 for WL60G(CE) are in-line, vertical, water cooled, electronic injection, turbocharged and air-to-air after cooled. The four-stroke-cycle design for long, effective power strokes, and more efficient fuel combustion. The high-torque engine provides excellent fuel economy and durability. Adding pushing power heightens operating efficiency. Lower exhaust displacement, electric starting and stopping, have excellent performance and reliability.

Manufactured according to the Caterpillar 3306 Industrial Engine technical license, SDEC C6121 diesel engine features compact configuration, high performance, low emission, and electrical starting and stopping.

TRANSMISSION

ZF-reversing transmission 4WG-200 provides four forward and three reverse speeds. Hydraulic-electricity shift makes operation easy. 3-element, single-stage torque converter has reliable performance and wonderful traction. KD is helpful to a step-up in productivity by decreasing the frequency of shifting, which can increase economy and engine lift. With excellent carrying ability, ZF is match-able with 200 kW-output engines. Low pressure and starting protection ensure operator's safety.

FORTGE

CAB & CONTROL SYSTEM

Integral FOPS & ROPS cab of wheel loader has many advantages such as spaciousness, assemble convenience, safety and reliability, noise reducing, and excellent visibility. Owing to ergonomic design, the environment of the cab and control system is excellent, so as to make operation convenient and reduce driver's working intensity.

- Excellent all-around visibility, the larger windshield class without non-metal frame, adopts adhesion structure that forward view is excellent; the tilt engine hood improves reverse view.
- ◆A dopted protect-ultraviolet radiation class and silkscreen press sunshade film that prevents damage of driver's eyes and skin from sunlight.
- ◆Equipped with luxury seat that designed for maximum comfort and fully adjustable support.
- ◆Excellent sealed ability of cab in which heating and cooling air-conditioner provide driver a good operation environment.
- Instrument panel and operation component arranged Rational make operation convenience.
- ◆ Equipped with front-wiper, rear mirror, lamp, cup-seat and optional radio, back-wiper alert lamp.





AVIE

MERITOR axle is introduced from well-known technology of MERITOR in U.S.A. Large, heavy-duty axles protect internal components from the harsh environment and offer excellent serviceability and maintenance.

Axle made by Volvo heavy equipment (KOREA) is equipped with glide-restraining differential, and wet multi disc brakes, and having the maintenance-free advantage. It is featured with huge carrying ability, reliable performance, and long life..ZF axles are also optional for WL60G(CE).



BRAKE SYSTEM

New type brake system in wheel loader adopts double pedal. The left pedal doesn't cut off power while the right cuts off power. The merging of parking brake and emergency brake has some functions such as: cutting off power, automatic starting-up and working, and protection of low air pressure.









MONITORING SYSTEM

All gauges and warning lights enable the operator to know the whole system state of the running machine. Neat layout of controls and instruments enables the operator to concentrate on the work at hand with less distraction. Warnings are visible and audible.



FRAMES

The structure of front and rear frames is simple, reducing stamping and irregularity weld line, optimum the important position, for bearing force can bearing various job conditions torque and striking load. The increased span of the pin decreases stress. Dustproof articulated points to prolong the center pin's life. The double thrust bearings are placed on the articulated parts to increase the driving stability. Front frame rigid, supporting for boom and cylinder, can absorb vibration and impact force.





CLAMP

It is suitable for loading, transporting piling the various logs, other longer material and elements. Optional equipment log





MAINTENANCE & SERVICEABILITY

The design of wheel loader makes daily maintenance easy. Oil levels checking, new oil and grease be refilled for easy accessorily, and filter element, electric system remove and replace. The unitary-folding hood cover easy for engine repair is controlled by the electric switch and pushed up by the cylinder. The side door open easily for engine oil level checking and replace element.



HYDRAULIC SYSTEM

Working and steering hydraulic system adopts the doublepump flow technology, reducing energy loss, and increasing reliability. Pilot operating hydraulic system makes operation easy and flexible. Steering system adopts flow-amplified with hydraulic limited position. Being able to improve sucking oil of pump and prevent oil from pollution, hydraulic oil tank is completely sealed.



BUCKET & WORKING DEVICE

Optimized working device, articulated points disposed rationally, single rocking arm, short pull rod, particular Z-bar roll-back linkage reduce shock, operation intensity and improve working efficiency. The bucket automatic leveling on any position, don't need adjust it when working again. Effecting working devices with optimized design automatic leveling and siding block, carrying ensure limited position and boom compact prevent the materials off, and working device from strike. Dual layer is dust-preventing. Each articulated point of wheel loader working. It's available to prevent dust and to assure the viscosity of the lubricating oil. Offer buckets, available to different conditions.



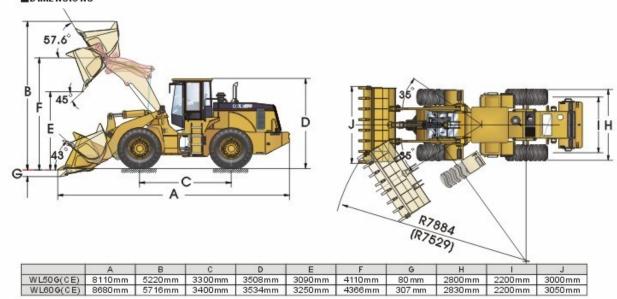
SAFETY BLOCK

CE required safety block.





■D IMENSIONS



■OPTIONAL BUCKET PARAMETER

		WL50G(CE)			WL60G(CE)	
Bucket type		Rock bucket General bucket With teeth With teeth		Light bucket With cutting edge		General bucket With teeth
Rated capacity	(m²)	2.5	3.0	3.5	4.0	3.5
Struck capacity	(m²)	2.1	2.5	3.0	3.4	2.9
Width	(mm)	3000	3000	3000	3210	3050
Max.dump clearance	(mm)	3090	3090	2950	2950	3250
Dump height,teeth	(mm)	2980	2980	3		3053
Dumpreach	(mm)	1130	1130	1260	1260	1268
Overall length	(mm)	8110	8110	8160	8160	8680
Dump clearance	(mm)	5220	5220	5415	5415	5716
Horizontal passing radius	(mm)	7300	7300	7315	7415	7525
Break out force	(KN)	170	170	144	144	198

■STANDARD EQUIPMENT MAIN SPECIFICATIONS

Bucket type	WL50G(CE)	WL60G(CE)		
Bucket capacity	et capacity 3.0m ²			
Rated load	5000 kg	6000 kg		
Raising time 6 secretary		6.5 secretary		
Total cycling time	11 secretary	12 se cretary		
Max.drawing force	145 KN	165 KN		
Max.breakout force	170 KN	198KN		
Articulation angle	35"	35°		
Min.turn radius	6400 mm	6492 mm		
Climb ability	28°	28°		
Wheelbase	3300 mm	3400 mm		
Tread	2200 mm	2200 mm		
Dumping clearance	3090 mm	3250 mm		
Dumping reach	1130mm	1268 mm		
L×W×H	8110×3000×3508 mm	8680×3050×3534 mm		
Operating weight	18t	20.5t		
Clamp type		15000000		
Min.clamping diameter	Ø450 / Ø800 mm	Ø600 mm		
Dumping clearance	3230 mm	2934mm		
Dumping reach	1845mm	1741 mm		
L×W×H	8414×2800×3460 mm 8930×2830			
Operating weight	18t	21t		

■OPTIONAL SYSTEMAND EQUIPMENT

		WL50G(CE)	
Engin	e			
Axle	Shanghai C6121ZG091 Engine	Weifang WD61		
ANE	ZF AP-411/HK front axle	ZF AP-409/DK rear axle		
Tire	23.5-25-20 PR tire, tube 23.5-25-16 PR tire, tubeless			
Workin	ng device			
	Bucket 2.7 3.5 4.0 m ³ 3.5 4.56 5.2 vd ³			
Cab	High dumping working device Side dumping bucket(3-way valve)	Snow plough (3-way valve) High liftworking device	Clamp (3-way valve) Slide forklift	Rock bucket (2.5m3) Quick coupler
	FOPS&ROPS cab Anti-freezing facility and cleaning	Reversesiren watersprayer	Boom lift limited position	AM /FM radio
Others	Central lubricating system Autor	maticweightingsystem Morito	oring Camera	

	WL50G(CE)	WL60G(CE)		
ENGINE				
Model	Electronic QSB6.7	Electronic QSC8.3		
Туре	4-stroke, direct-injection, water cooled, exhaust turbo charger, air-to-air after cooled	4- stroke, direct-injection, water cooled, exhaust turbo charger, air-to- air after coole		
Rated power	152.7kW/205HP	179kW /240HP		
Rated power Rated speed	2200r/min	2200r/min		
Max.torque	991N • m/1400r/min	1116N · m/1500rpm		
Number of cylinders		6		
Bore × stroke	114×135mm/4.5"×5.3"	114×135mm/4.5"×5.3"		
Displacement	8.27L/505.3 in ³	8,3L/506 in		
Compression ratio	18:1	18:1		
Batteries	2×12V / 195 A • h	2×12V/120 A • h		
Starter	24V 7.5kW	24V 7.5kW		
Alternator	24V 50 A	24V 7.5kW 24V 50 A		
TRANSMISSION	***************************************			
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Mak e and model	ZF 4W G200 or HAN GZHOU 4W G 180			
Type	Power-shift (electric hydraulic) countershaft design with four forward and three reverse speeds Single lever control			
Control				
	k m/h (MPH)			
Forward speeds	6.5 (3.99)	60 (37)		
1st	11.0 (8.75)	11.0 (8.0)		
2nd 3rd	240 (44.74)	22.0 (42.6)		
	11.0 (8.75) 24.0 (14.74) 38.0 (23.33)	11.0 (6.8) 22.0 (13.6) 35.0 (21.7)		
4th	30.U (23.33)	(MPH) 35.0 (21.7)		
Reverse speeds 1st	6.5 (3.99)			
151	11.0 (6.75)	6.0 (3.7) 11.0 (6.8)		
2nd		22.0 (13.6)		
3rd	24.0 (14.74)	22.0 (13.0)		
AXLE				
Model	Meritor 20/18 MRF-C216NZE/NZF	ZF MG-L3105/309, VOLVO HEAVY EQUIPM (KOREA)14541596/14541597		
D riving system	Four-wheel driving	Four-wheel driving		
Rear avia oscillation	Center oscillation	Center os cillation		
Rear axle oscillation Carrier assembly-Reduction ratio	4.625	5.167		
Wheel end reduction assembly-Reduction ratio	4.94	4.777		
Brake				
	A is a see built-oil oil of a see four sub-ook book on	Hydraulic wet multi disc brakes		
Type Driving brake system pressure	Air-over-hydraulic disc on four wheels brakes 0.686 ~ 0.784 Mpa			
Emergent and stopping system pressure	0.45 Mpa	8 Mpa >8.8 Mpa		
Emergent and stopping system pressure	U.40 Mpa			
Parking brake	Inner-expanding shoe brake, air cylinder and spring energy reserve applied via a switch on the control stand panel.	Electric control, clamp disc type, Spring applied via a switch		
TIRES	·			
Type	Tube			
Specification	23.5-25-16PR (L3)			
Specifications for working hydraulic system	ly-			
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Working pump (ge ar)	1001/-	1001/-		
Max. flow rate Max. working pressure	100 ml/r 17.5 MP a	100ml/r 18.5MPa		
Control	Pilot	Pilot, double lever		
Double-acting hydraulic cylinders	Bore X stroke			
Loader arm	Bore × stroke 160mm(6.3") ×859mm(33.5")	Bore × stroke 160mm(6.3") × 869mm(34.2")		
Bucket	180mm(7.1") × 567mm(22.3")	200mm(7.87") × 593mm(23.35")		
Operating time	100mm(7.1) ~ 007mm(22.3)	200mm(7.07) \ 000mm(20.00)		
Lift	6.5sec	6.5sec		
Lower	3.5sec	4.0sec		
Dump	1.5sec	1.5sec		
	1.0366	1.0366		
Specifications for steering hydraulic system				
Type	Articulation, fully hydraulic power steering	g with flow- amplified system		
Steering pump (gear)				
Max. flow rate	63ml/r	80ml/r		
Max. working pressure	16MP a	16MPa		
Cylinder				
Bore X stroke Max. steering angl	90 × 340mm	90 × 420mm		
Max. steering angl	±35°	±35°		
SERVICE REFILL CAPACITIES	B **	2		
Fueltank	230 liters	250 liters		
Facility and	22 liters	27.5 liters		
Engine oil	III-12			
Engine oil Coolingsystem	50 liters	45 liters		
Cooling system	50 liters	45 liters 34 liters		
Cooling system Transmission	50 liters 28 liters	34 liters		
Cooling system	50 liters			

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