

115ZV-2

WHEEL LOADER

Direct-injection, turbocharged 345kW(463hp) engine

Operating weight 48ton, Bucket capacity 6.0-6.8m³

Strong and robust main structures

Tough and proven hydraulic components

Productive and dependable performance



115ZV-2 OPERATING SPECIFICATIONS

Engine

Make & model	CUMMINS "QSK19" diesel engine
Type	4-cycle, water-cooled, direct injection, with turbocharger and air cooled intercooler
Rated power	Gross 377 kW(506 hp)/1,800 rpm Net 345 kW(463 hp)/1,800 rpm
Maximum torque	Gross 2,755 N·m(281 kgf·m)/1,300 rpm
Number of cylinders (bore X stroke)	6 159 mm X 159 mm
Total displacement	18.87 lit
Cooling type	Hydraulic drive pusher type fan Pressurized radiator
Fuel injection pump	Cummins Modular Common Rail System
Governor	All-speed electrical type
Air cleaner	Dry type(Double element)
Generator	AC 24V 1.8 kW(75 ampere)
Starter motor	DC 24V 8.3 kW(11.1 hp)
Batteries	DC 12V 176 Ah X 2

Transmission & Torque converter

Transmission make & type	KCM, Full power shift		
Torque converter make & type	KCM 3-element, one-stage, one-phase		
Traveling speed		Forward	Reverse
	1st	7.4 km/h	8.2 km/h
	2nd	13.5 km/h	14.8 km/h
	3rd	21.6 km/h	23.6 km/h
	4th	36.0 km/h	—
Note	With 35/65(L4)		

Axles & Final Drives

Type	4-wheel drive
Axle make & type	KCM Full-floating type
Differential gear	Spiral bevel gear, single stage reduction conventional type
Final reduction gear	Outboard mounted, Internal planetary gear
Rear axle oscillation angle	± 13°
Tire(standard)	35/65(L4)

Weight change

Option item	Operating weight(kg)	Tipping load(kg)			Overall width(mm) (outside tire)	Overall height(mm)	Overall length(mm)	
		Straight	at 37°	Full turn				
Tires	29.5R29(L5)	-1120	-780	-660	-650	-120	-40	+30
	35/65R33(L4)	± 0	± 0	± 0	± 0	± 0	± 0	± 0
	35/65R33(L5)	+550	+380	+310	+310	± 0	± 0	± 0
	29.5-29-28PR(L4)	-1590	-1100	-930	-920	-120	-40	+30
	29.5-29-28PR(L5)	-1120	-780	-660	-650	-120	-20	+10
	35/65-33-24PR(L4)	± 0	± 0	± 0	± 0	± 0	± 0	± 0
	35/65-33-24PR(L5)	+680	+490	+410	+410	± 0	+25	-35
Counter weight	+650	+1560	+1330	+1310	—	—	—	
Removal ROPS canopy	-950	-910	-770	-750	—	-150	—	
Belly guard	+140	+200	+170	+170	—	—	—	

Brake system

Service brake	4-wheel wet-disc Controlled by fully hydraulic system Dual circuits
Parking brake	Spring applied oil pressure released type located on front driveline

Steering system

Type	Articulated frame steering, hydraulic power steering unit, pilot operated type
Steering valve	Orbitrol and spool type
Full articulation angle	40° to each side

Loading system

Type	Front end loading, Z bar linkage system	
Hydraulic cycle time	Lifting(at full load)	8.4 sec
	Lowering(empty)	5.0 sec
	Dumping	1.7 sec
	Total cycle time	15.1 sec






Hydraulic system

Oil pump	Steering oil pump	Gear type, 418 lit/min 6.9 MPa(70 kg/cm ²) @ 1,800 rpm
	Main oil pump	Gear type, 231 lit/min, 6.9 MPa(70 kg/cm ²) @ 1,800 rpm
	Pilot oil pump	Gear type, 164 lit/min, 6.9 MPa(70 kg/cm ²) @ 1,800 rpm
Lift cylinder	type	Double acting piston
	number,bore x stroke	2 X 225 mm bore X 1,132 mm stroke
Tilt cylinder	type	Double acting piston
	number,bore x stroke	2 X 190 mm bore X 767 mm stroke
Steering cylinder	type	Double acting piston
	number,bore x stroke	2 X 110 mm bore X 720 mm stroke
Relief set pressure	Control valve	20.6 MPa(210 kg/cm ²)
	Steering valve	20.6 MPa(210 kg/cm ²)

Service refill

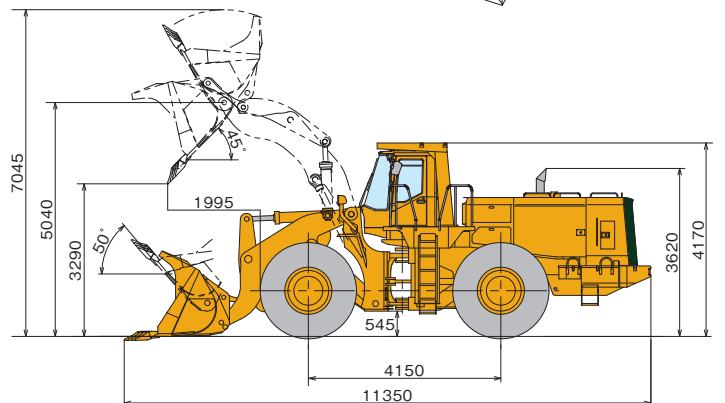
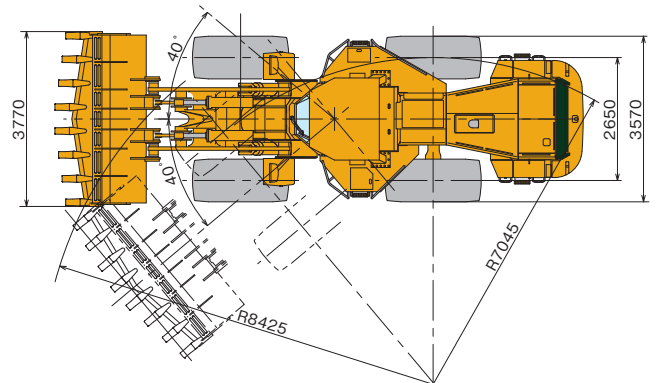
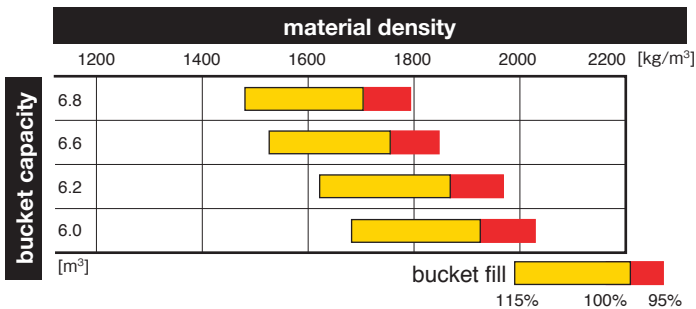
Fuel tank	660 lit
Engine lubricant(including oil pan)	61 lit
Engine cooling water	155 lit
T/M & T/C	90 lit
Axle front/rear	360 lit
Hydraulic oil tank	225 lit
Hydraulic system(including oil tank)	475 lit

Bucket

			Standard boom				
			Rock V-edge	Rock straight	General purpose(stock pile)		
			Teeth & Segments	Teeth & Segments	Teeth	Bolt-on edges	Bolt-on edges
			RVT	RST	GST	GSC	
							
Bucket capacity	heaped	m ³	6.2	6.0	6.6	6.8	10.0
	struck	m ³	5.5	5.3	5.7	5.9	8.9
Max. dumping clearance		mm	3,290	3,450	3,330	3,565	3,335
Max. dumping reach		mm	1,995	1,830	1,930	1,760	2,015
Max. hinge pin height		mm	5,040				
Digging depth (with bucket level)		mm	180	180	190	150	130
Breakout force		kN	377	449	401	376	311
Bucket tilt-back angle		deg	50°				
Overall length		mm	11,350	11,120	11,300	11,010	11,335
Overall height	up to canopy top	mm	4,170				
	bucket full raise	mm	7,045	7,045	6,910	6,910	7,185
Overall width	outside tire	mm	3,570				
	outside bucket	mm	3,770	3,770	3,770	3,770	4,100
Tread		mm	2,650				
Wheel base		mm	4,150				
Min. turning radius (bucket carry position)	at outside bucket	mm	8,425	8,425	8,480	8,400	8,635
	at center of outside tire	mm	7,045				
Min. ground clearance		mm	545				
Full articulation angle		deg	40°				
Operating weight		kg	45,960	45,750	45,130	45,160	45,790
Static tipping load	straight	kg	29,530	29,920	30,310	30,130	29,010
	at 37°	kg	25,210	25,540	25,870	25,720	24,770
	full turn	kg	24,740	25,060	25,380	25,230	24,300

The weight and load figure includes 35/65(L4) tubeless tire, ROPS/FOPS canopy, cab, lubricant, coolant, full fuel tank and operator.

Bucket selection charts



Remarks

This specification sheet may contain attachments and optional equipment which are not available in your area.

Please contact your local KCM distributor for those items which you require.

Materials and specifications are subject to change without notice and without obligation on the part of the manufacturer.

The specifications supplied, while believed to be completely reliable, are not to be taken as warranty for which we assume legal responsibility.

Equipped with RVT bucket, 35/65 (L4) tubeless tire, ROPS/FOPS canopy and cab.