



## ZL60H WHEEL LOADER SPECIFICATIONS

- Equipped with reliable original Cummins engine
- Kick-down switch allows better efficiency & easy operation
- Famous original GRAZIANO or VOLVO wet type axle with DL multi-disc limited-slip differentials deliver maximum traction in changing traction conditions
- Reliable ZF transmission case and torque converter
- Bucket automatic leveling ability
- Combined seal cylinder obtains high seal performance and more reliability

Overall Dimension		
1	Length(with bucket on ground)	8280(mm)
2	Width(to outside of wheels)	2897(mm)
3	Bucket width	3064(mm)
4	Height(To the top of the cab)	3565(mm)
5	Wheel base	3300(mm)
6	Tread	2300(mm)
7	Min. ground clearance	460(mm)

Main Technical Specification		
1	Rated load	6000(Kg)
2	Operating weight	18600kg
3	Rated bucket capacity	3.5(m <sup>3</sup> )
4	Max. breakout force	186KN
5	Max. Driving force	180 KN
6	Max. dump clearance	3028(mm)
7	Dump reach	1229(mm)
8	Dump angle at any position	≥ 45 <sup>0</sup>
9	Digging depth(with bucket bottom horizontal)	212(mm)
10	Min. turning radius	
	(1)Outside of bucket	6870(mm)
	(2)Outside of rear wheel	6400(mm)
11	Pivot angle frame	38±1 <sup>0</sup>
12	Oscillating angle of rear axle	±12 <sup>0</sup>
13	Lifting time of bucket	6.0(sec.)
14	Lowering time of bucket	3.9(sec.)
15	Dumping time	1.9(sec.)
16	Traveling speed(Km/h)	
	(1)1st gear (Forward & reverse)	6.6
	(2)2nd gear (Forward & reverse)	11.7
	(3)3rd gear (Forward & reverse)	23.1
	(4)4th gear (Forward)	36
Diesel engine		

1	Model	Cummins 6CTAA8.3-C240 (TIER2)
2	Type	Direct injection. Turbocharged. Water cooling
3	Rated output	179(Kw) (240HP)
4	Inter-bore of cylinder/stroke	114/135(mm)
5	Total exhaust of cylinder	8.3(L)
6	Model of starting motor	Delco-Remy 42MT
7	Power of start motor	8.2(KW)
8	Voltage of starting motor	24(V)
9	Rated speed	2200(r/min.)
10	Max. Torque	1146(N.m)
11	Starting type	Electric
12	Min. specific fuel consumption	205(g/Kw.h)
13	Engine specific oil consumption	1.07(g/Kw.h)
14	Net weight	617(Kg)
<b>Transmission System</b>		
1. Torque Converter		
1	Type	3-element.single stage
2	Torque ratio	2.55
3	Max. Dia. of flow path	340(mm)
4	Cooling type	Pressure oil circulating
<b>2. Gear Box</b>		
1	Model	ZF4WG200
2	Type	Fixed shaft. Power shift
3	Gear shift position	4 Forward and 3 reverse gears

3. Axle and Tire		
1	Type of main reducer	single stage
2	Gear ratio of main reducer	4.444
3	Type of final reducer	single stage planetary
4	Gear of ratio of final reducer	5.167
5	Total gear ratio	22.963
6	Size of tyre	23.5-25 -16PR (L-3)
Working Device Hydraulic System		
1	Model of oil pump	P5100-F80/16cly
2	System pressure	20(MPa)
3	Model of distribution valve	HUSCO 7130-B97
4	Model of pilot pressure controller valve	HUSCO 7480-75
5	(d*I)Dimension of lifting cylinder	Φ160*90*801(mm)
6	(D*I)Dimension of tilting cylinder	Φ210*110*494(mm)
Steering System		
1	Type	Middle articulated frame. full hydraulic power
2	Model of steering pump	P5100-F80clx
3	Model of steering gear	BZZ <sub>3</sub> -100
5	System pressure	16MPa
6	Dimension of steering cylinder	Φ100*50*425(mm)
Brake System		
1	Type of traveling brake	Air assisted oil.4 wheel brake
2	Air pressure	0.7-0.8 (MPa)
2	Type of emergency brake	Automatic air-cut brake

3	Type of parking brake	Air released, inner expand hoof type
Oil Capacity		
1	Fuel(diesel)	350(L)
2	Engine lubricating oil	19(L)
3	Brake System	2 x 1.5(L)
4	Oil for converter and gear box	45(L)
5	Oil for hydraulic system	250(L)
6	Oil for driving axles ( F/R )	70(L)+57(L)