



ZL50E-5 WHEEL LOADER SPECIFICATIONS

- 3 forward & 3 reverse power shift transmission
- Bucket automatic leveling ability
- Combined seal cylinder obtains high seal performance and more reliability

Overall Dimension		
1	Length(with bucket on ground)	8200(mm)
2	Width(to outside of wheels)	2800(mm)
3	Bucket width	2946(mm)
4	Height(To the top of the cab)	3450(mm)
5	Wheel base	3100(mm)
6	Tread	2200(mm)
7	Min. ground clearance	450(mm)
Main Technical Specification		
1	Rated load	5000(Kg)
2	Operating weight	16300KG

3	Rated bucket capacity	3.0(m ³)
4	Max. breakout force	160kN
5	Max. dump clearance	3050(mm)
6	Dump reach	1190(mm)
7	Dump angle at any position	≥ 45 ⁰
8	Digging depth(with bucket bottom horizontal)	165(mm)
9	Min. turning radius	
	(1) Outside of bucket	6575(mm)
	(2) Outside of rear wheel	5970(mm)
10	Pivot angle frame	38 ⁰
11	Oscillating angle of rear axle	±12 ⁰
12	Lifting time of bucket	≤6.2(sec.)
13	Lowering time of bucket	≤3.8(sec.)
14	Dumping time	≤1.2(sec.)
15	Traveling speed(Km/h), 3 forward and 3 reverse	
	(1) 1st gear	7.05/9.0
	(2) 2nd gear	11.7/16.0
	(3) 3rd gear	34.6/38.2
Diesel engine		
1	Model	Chinese Engine G128
2	Type	Direct injection. Turbocharged. Water cooling
3	Rated output	162(Kw)
4	Inter-bore of cylinder/stroke	135/150(mm)
5	Total exhaust of cylinder	12.88(L)

6	Model of starting motor	KB-24V
7	Power of start motor	7.5(KW)
8	Voltage of starting motor	24(V)
9	Rated speed	2200(r/min.)
10	Max. Torque	≥810(N.m)
11	Starting type	Electric
12	Min. specific fuel consumption	≤235(g/Kw.h)
13	Engine specific oil consumption	0.95-1.77(g/Kw.h)
14	Net weight	1150(Kg)
Transmission System		
Torque Converter		
1	Model	YB355-2
2	Type	3-elements.single stage
3	Torque ratio	2.55
4	Cooling type	Pressure oil circulating
(二)、Transmission case		
1	Model	Z50E.4A
2	Type	power shift, spur gear constantly in mesh
3	Gear shift position	3 Forward and 3 reverse gears
(三)、Axle and Tire		
1	Type of main reducer	spiral bevel gear, single stage
2	Gear ratio of main reducer	4.625
3	Type of final reducer	Single stage planetary
4	Gear of ratio of final reducer	4.4

5	Gear ratio	20.35
6	Max. drawing force	137kN
7	Size of tire	23.5-25-16PR
Working Device Hydraulic System		
1	Model of oil pump	CBGj 3100
2	System pressure	200(kgf/cm ²)
3	Model of distribution valve	Chinese LINGHAI
4	Pilot valve	Chinese LINGHAI
5	(D*L)Dimension of lifting cylinder	Φ160*90*740(mm)
6	(D*L)Dimension of tilting cylinder	Φ180*90*500(mm)
Steering System		
1	Type	Middle articulated frame. Co-axis flow amp. Steering
2	Model of steering pump	CBGj 2063/ Gb 1016
3	Model of steering gear	BZZ-1000
4	System pressure	14MPa
5	Dimension of steering cylinder	Φ90*45*400(mm)
Brake System		
1	Type of traveling brake	Assisted oil.4 wheel brake
2	Air pressure	7-8(kgf/cm ²)
3	Type of emergency brake	Automatic cutting air brake
4	Type of parking brake	inner expand hoof Automatic boosting. inner expand hoof
Oil Capacity		
1	Fuel(diesel)	250(L)
2	Engine lubricating oil	20(L)

3	Oil for converter and gear box	42(L)
4	Oil for hydraulic system	180(L)
5	Oil for driving axles (F/R)	36(L)