



ZL50E- II WHEEL LOADER

Durable and high efficient system function

“Power” originates from the inner system and acts itself out. ZL50E - II benefits from scientific design and perfect assemblage of its inner systems. The powerful engine is perfectly combined with CG's featured and unique torque converter and transmission. The adoption of a series of advanced components and technologies such as imported bearing, high-pressure resisting ruble hose, all these greatly raise your work efficiency and make “high-efficient operation” so easy!

Strong power system

Super turbo diesel (Weifang STYRE diesel engine WD615.67G3; Shanghai diesel engine D61142GB, C6121ZG-CAT 3306B licensed)with large a large torque backup and Chenggong's featured torque converter and transmission provide the machine with super strong power which enables easy adaptation for various working condition.

Prominent transmission system

Imported bearings are efficient and durable.

The advanced double turbo hydraulic torque converter and durable and highly-efficient power-shift transmission specially designed for CG machines enables the power allocation for material peeling and bucket advancing to be more scientific and efficient.

Equipped strong loose-resisting drive shaft, new type of front and rear drive axles, double-arrayed planetary wheel reducer, large gear modulus , traction force reaches 154KN.

Flexible hydraulic System

New type of multi-way valve leads to a higher pressure grade (loading capacity is enhanced by 12%), operation hand force is reduced by 50%

In this system, high pressure areas are equipped with imported flexible high pressure-resistance rubber hose, especially the part which is frequently moved, bended and pressed can keeps no-leaking, reliable and pressure-resistant as well as a long life.

Hydraulic system is optimized. "Three-phase time" is cut down to 12.2s. Loading times are increased. Workload of unit time is increased.

reliable brakes system

Dust-resistant mask in the front axle, double brake clamps, abrasion-resistant braking plates are adopted to prevent sand and stone, lessen wearing and keep efficient and keen braking.

Equipped with 8 brakes, the brake force is more powerful; maintenance and replacement is very convenient.

Reliable electric system

Fully upgraded circuit design and waterproof components guarantee the reliability of electrical system.

In-built adjustable power generator can reduce malfunction in battery system.

P3:

Firm and reliable structure design for the entire machine

"Efficiency" comes not only with the increase of unit workload but still also with the elevation of lasting operational capacity of the whole working period. The rigorous and firm design of ZL50E-II wheel loader guarantees the efficiency. Heavy machine weight and the wider and longer external dimensions demonstrate high reliability. Strong framework and durable implements bring you powerful long-lasting performance. "Bring you immediate profits and create you long-lasting value as well" is our persistent pursuit!

Super high stability

The total machine weight increases to 16.6 ton, and the distance between wheels increases to 2270mm, the length of long wheel bases reaches 3280mm. The distribution of gravity is more reasonable. It can prevent front axle and front drive shaft bears traction force individually, avoid over-loading and extend work life. It can also enhance the adhesion force of front and rear tires and cutting force of bucket, and the raise efficiency.

Increased tilting load capacity enables more reliable operation.

Highly Reinforced Machine Body

Tower-shaped front frame consisted of four plates and CG's unique trunk-shaped rear frame provides solid basis which is particularly firm.

Articulation structure with long separation distance

Two pairs of tapered column bearings are adopted. The separation distance between upper and lower hinge is increased. When the bucket is shoveling, the hinge point bears less force which makes steering more easy, loading more stronger and maintenance more convenient.

Powerful working device

Optimized design of z-shaped link mechanism could supply a powerful shoveling force of 180KN; it is the first choice for highly intensive work.

Lifting arm beam reinforcing technique and rocking arm steel-plate welding technique brings about the property of good rigidity, tearing and distorting resistance.

Higher lifting, more far away loading and unloading and larger bucket volume meets the demand of working in a larger range.

Wearable plate is added to the bucket edge extends the life of bucket and improves the efficiency of material shoveling.

Mechanic horizontal indicator is adopted, thus it is easy to observe the horizontal state of bucket and accelerate the loading speed.

Pin shaft has a long working life due to the adoption of dust-proof sealing structure.

Hinge point adopts ear-shaped adjusting gasket which can be easily installed and adjusted.

Small transverse collision force strengthens high stability.

P4

Enjoy excellent Ergonomic driving environment

Machines are endowed with spirit by its commander and they understand your feeling just like friends. Driving in the circumstances of suffering noise, sand dirt and being rocked under great pressure of loading, CG understands the feeling of a driver of wheel loader. So while we help you create more profit with our improved reliability and security of the wheel loader, we also improve the environment of driving to raise your work efficiency and give you a wonderful performance. It is your 'friend' and it enables you to enjoy the most perfect ergonomic driving environment!

Spacious and comfortable cab

Luxury indoor decoration, spacious and comfortable environment with easy view of the cab exerts a good effect to relieve the driver's fatigue. Besides, warm and cool conditioners can be set according to your choice.

fully adjustable seat

The high back and fully adjustable seat is in line with the curve of the spine. You can also adjust the gesture of your seating in accordance with the condition. It is very natural and comfortable. Besides, there is also a safe belt to ensure your security when working at complex sites.

New Steering Wheel and Panel

The steering wheel can be adjusted according to your will, lowering hand force for operation. The stream-lined panels can be adjusted with the steering of the wheel. They are arranged very well, no light reflection occurs so that it offers you a convenient look.

Doors and Windows of Excellent Sealing

Entirely-molded doors and windows with double-locked layers have excellent rigidity and sealing property. It is not only firm and reliable, but also can proof hotness and noise efficiently.

Bi-directional shock-absorption Seat

The bi-direction shock-absorption seat can accommodate the rocking operation environment which ensure the comfort of driving and can release the fatigue of the driver.

Super Bright lights

The special H3 halogen lights and crystal-sealing lights are super bright. They can not only save electricity but also can resist strong rocking. It can enable you operate even in the rooms, caves and coal mines at night without any danger.

P5

Easy and convenient maintenance with low cost

All the parts are of perfect accessibility, easy maintaining, less stand-down time, more profits

Every part can be universally used, convenient purchased, easy maintained with low cost.

Time, money, power, worry-saving maintenance

For engineering machines worked long in hard environment, what does convenient maintenance mean? It means not only saving power and worry, but also reducing stand-down time, thus raise efficiency of the whole unit working period and create more profits! "Let all the worries about repair and maintenance disappear" is the goal which CG and its ZL50E-II are striving for!

CHENGGONG ZL50E-II MAIN TECHNICAL SPECIFICATIONS

Main Data and Index:

Engine Model WD615.67G3/D6114ZGB./C6121ZG

Rated Revolution(r/min) 2200

Power (kn) 162/160

Rated Load Weight (lb.) 11022.93

Total machine Weight (lb.) 36596.12

Breakout Force (Kn) 180

Max Traction Force(kn) 154

Rated Bucket Capacity (yd3) 3.92

Min.Turning Radius (in) 260.04

Max.Driving Speed (mph) 22.37

Overall Length (in) 316.93

Overall Width (in) 118.11

Overall Height (in) 136.61

Max.Dump Reach (in) (Bucket Tip) 48.03

Max.Dump Clearance (in) (Bucket Tip/Bucket Edge) 117.72/122.20

Action Time of Working Device (Total 3 Phases) (s) 12.2

OPTIONAL DEVICE DATA:

Name	Dump Clearance (in)	Dump Reach (in)	Min. Clamping Diameter (in)	Max Opening Diameter (in)	Length (in)
Wood fork	105.67(45 °)	65.39 (45 °)	∅ 32.68	∅ 62.13	76.26
Steel Fork	109.13 (45 °)	61.93 (45 °)	∅ 24.21	∅ 61.02	71.34
Extra long arm and bucket	134.84/131.85 (edge/tip)	54.92/58.66 (edge/tip)			
Extra long arm(standard bucket)	140.75/135.39 (edge/tip)	51.97/55.55 (edge/tip)			

Extra long bucket(4m 3)	115.75/111.42 (edge/tip)	50.16/53.15 (edge/tip)			
Name	Oil Flow	Frequency	Tool Diameter	Hydraulic pressure	
Hydraulic Hammer	45-110L/min	400-700Hz	3.35-3.94 in	130-170bar	