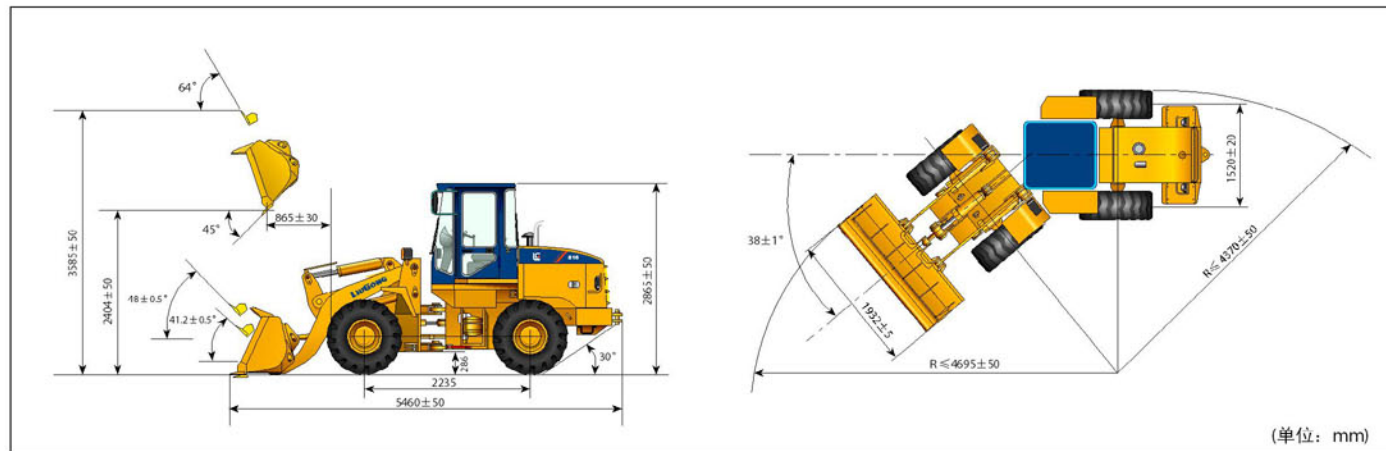


Dimension



- Material density form (please choose the right loading quantity according to the data)

Category		Density kg/m ³	Category		Density kg/m ³	Category		Density kg/m ³	
Gallet		1600	Soil	Dry	1550	Sandstone	Fractured	1500	
Mine slag		650		Wet	1725		Sand	Solid	2300
Clay	Dry	1485		Fine	1250	Sand and gravel		Loose and dry	1440
	Wet	1725		Intense	1840		Sand	A little wet	1680
	Natural	1650		Soft and running	1730			Sand and gravel	Wet
Clay and gravel	Dry	1185	Dry and fine	1520	Sand and gravel	Pressed and wet	1850		
	Wet	1650	Granite	Broken		1650	Sand and gravel	Dry	1730
Coal	Smokeless raw coal	1190		Solid	2800	Sand and gravel		Wet	2000
	Soft coal raw coal	950	Gypsum	Fractured	1810		Coal slag	Broken	1760
Landwaste	75%Rock, 25%Soil	1955		Broken	1600	Coal slag		Solid	2100
	50%Rock, 50%Soil	1725	Solid	2780	Melanocrate		Broken	1740	
	25%Rock, 75%Soil	1585	Limestone	Broken		1550	Melanocrate	Solid	2880
Gravel	Mine pit ravel	1900		Solid	2600	Hematite			2460
	Dry	1485	Peat	Dry	415	Magnetite		2780	
	Dry (1/4 "-2")	1650		Wet	1125	Pyrite		2580	
	Wet (1/4 "-2")	2015	bauxite/alumina		1425	Taconite		2800	

- Products of Guangxi Liugong Machinery Co., Ltd are constantly updated and improved, we reserve the right to change parameters and design without notification of customers in advance, and illustrations in the text must not the standard type of the machine.
- Appearances and colors of this product in the photo may have some differences with the real machine, subject to the real machine.

GUANGXI LIUGONG MACHINERY CO.,LTD.
 No.1, Liutai Road, Liuzhou, Guangxi, China
 Postcode: 545007
 T+86 772 3886129 3886125
 F+86 772 3886122
www.liugong.com
overseas@liugong.com

LJWL-816LD06-10TH

LIUGONG

816 WHEEL LOADER



世界柳工 源自中国

Overall Data

Bucket capacity0.78m³ (please select suitable bucket according to martial and refers to the back cover for detail information)
 Rated load1600kg Max. Traction force42±5kN
 Rated power47kW Min. Turning radius:
 Operating weight5300±300kg Turning radius outside bucket≤4695±50mm
 Max. Breakout force62±5kN Turning radius outside tires.....≤4370±50mm

Upgrade your competitive ability comprehensively

- Highly reliable torque converter, transmission case and driving axles.
- Highly reliable brake system: service brake and parking brake both applied power-cutting-off function. Protect your engine, transmission case and driving axles thoroughly.
- Highly reliable engine produced by international famous internal combustion engine institution Ricardo technology, torque safety factor reached 25%. Lower emission, lower consumption and lower noise.
- Tenacious structural frame and strong work installment enjoys a lofty prestige, owns more breakout force.
- Advanced hydraulic system: load feedback reacts to steering hydraulic system preferentially. low heat, energy-saving, quick response, the sum of three items is only 8.6s. Double steering cylinders provide steady and reliable steering.
- Ultra-large, extreme low noise, super strong and comfortable cab with panoramic visibility gives drivers an easy-operating environment.
- Dump height reached 2404mm, swinging angle reached $\pm 11^\circ$, steering angle reached $\pm 38^\circ$ while turning is only 4370mm. satisfied different working conditions such as narrow space and bump field.
- The first kinds of wheel loader that use power-cut-off function in domestic machinery. Easy to operate, more efficient emergency brake and more long service life manual brake.



Ultra-large comfortable safe cab space

- Ultra-large comfortable safe cab space with a panoramic visibility
- Dustproof, sound and shock absorption, heatproof plus ultraviolet radiation-proof
- Panoramic rearview mirror
- Professional-made and sofa driver seat



Capacious, bright and ultra-large cab. FOB canopy. Anti-ultraviolet radiation glass.



Panoramic visibility and luxurious design. Drivers can easily get the information with the help of chamber and stretch-out type rearview mirrors and the specially designed "slide-back" engine hood.



The cab can be opened from both side and could be reversed 180° which means convenient for driver's work. The driver can enter cab conveniently from both side and the door can be reversed 180°



Adopt new type noise and shock absorbers to absorb to the most extend. Just 85dbs nearby drivers' ear. Arosal absorption of shock professional seat can be adjusted in all direction, satisfied various taste. Equipped with electrical fuel gauge and preserved dip-stick for oil-checking convenience.



Durable and efficient guarantee

Toughly tested rigid structure proves stable

- The bucket is designed and produced with stiffener board to prevent bending deflection.
- Integral-type board prevent scattering of material and guaranteed the most material loading quantity.

Outstanding Z zigzag linkage mechanism

- Powerful breakout force and lifting force means fast lifting and large loading.
- Large rollback angel provides steady material loading ability.
- Controls dump speed: Lower dump speed guaranteed the safety of stevedore and linkage mechanism.

high strength and durable frame and boom

- Provide enough strength safeguard under tough working conditions
- Single-board-structured rear frame absorbs vibrates and reverses load.
- Extended articulated points reduce the hinge bushes stress load and prolong the service life of hinge bearing.
- Four-boards-structured front frame bears shock and load stress effectively and prevents damage from detritus to cylinders.
- Single-board boom and single tilt provide high strength and good visibility
- Double steering cylinders even the stress of frame.



Outstanding and powerful

Outstanding and powerful YTR4105G69 engine

- Designed and manufactured and checked according to Ricardo quality standard, efficient and energy-saving. The torque safety factor reaches 25%, could satisfy various toughworking conditions



Mature service plan provides all-round increment safeguard

Forseeability of investment provides right choices for costumers

- Costumers of Liugong will make right choices and judgments on the all-round purchasing suggestion offered by Liugong designated dealers. As the same time, users will gain full-scale investment values through the huge and mature civil service system in the process of employing machines.



Careful and thorough configuration and design bring convenience and trouble-saving



1. Large maintenance space is preserved in the front frame and enough room under the cab. Converter, gearbox installed separately for the convenience of maintenance.

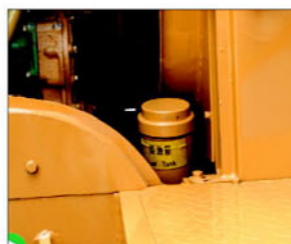


2. Extended distance of articulated points gives enlarged room for maintenance. Transmission shaft is designed above the lower linkage point to prevent enwinding

3. World known brand battery, free of service and maintenance



4. Lubrication points, oil-filling points and oil level checking points are all nearby the hand.



Technical specification



Engine YTR4105G69 diesel engine
 Water-cooled, 4-stroke cycle, direct injection diesel engine
 Rated power47kW
 Rated speed2400r/min
 Bore x stroke4- Φ 105mm \times 120mm
 Max. net torque220.7N.m \pm 5%
 Fuel consumption per hour in rated power and speed \leq 235g/kW.h
 Equipped with electrical fuel gauge and preserved dip-stick for oil-checking convenience.



Transmission system
 Typetwo joysticks. Power shift
 Hydraulic torque-converter single turbo, three elements hydraulic torque-converter
 Gearboxdead axle type power shift gears transmission
 Speed(km/h)

Gear	I	II
Forward	0~9.9	0~26
Reverse	0~9.7	0~25.5



Axles
 4-wheels drive, front axle is fixed while rear axle is swayed. The swing angle is $\pm 11^\circ$. any rear tire will not leave ground to provide the max. traction force even if the amplitude is 150mm



Bucket control installment
 Raise and lowmanual shaft
 Action: raise hold lower float
 Dump manual shaft
 Action: front dump hold back dump



Pins of working installment
 Pins of boom, bucket and all linkages are sealed to prolong the service life of pins and pin bushed thus reduce the cost of maintenance



Tire
 Specification16/70~20
 Layer10



Working hydraulic system
 System working pressure17.5MPa
 Boom cylinder- bore x stroke Φ 80 \times 605mm
 Tilt cylinder- bore x stroke Φ 100 \times 407mm
 Hydraulic cycle time (s)

Raise	dump	lower(empty, float down)	total
4.4	1.2	3	8.6



Brakes
 Service brakessingle pipeline, gas to oil, four caliper disc
 Parking brakesshoe type manual
 Emergency brakesusing parking brake, manual applied when emergencies occur. Power-cut-off function makes emergency brake more efficient, safe.



Steering hydraulic system
 TypeArticulated frame. Full hydraulic steering
 Steering angle (left and right respectively) 38°
 Steering pumpgear pump(working pump also)
 Steering cylinder- bore x stroke Φ 60mm \times 292mm
 Flow38L/min
 Relief valve setting14MPa



Capacity data
 Fuel tank100L
 Coolant system27L
 Crankcase13L
 Converter-transmission system30L
 Axles (differential gear and decelerator)
 Front axle8L Rear axle8L
 Hydraulic system90L

Electric system

System24V
 Batterytwo BA31750T
 Bulb24V
 Starting motor24V DC

Air conditioner

Warm wind: working mediumcooling water of diesel engine
 heating capacity5000K calories
 Cool wind: electric fan of 24V DC