



Product Manuals

--loader



Qingdao Zongjin Engineering Machinery Co.,Ltd.

www.chinawheelloaders.com



Qingdao Zongjin Engineering Machinery Co.,Ltd.

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Catalogue

Company profile-----	01
Wheel loader workshop-----	03
Wheel Loader---ZL08-----	04
Specification of ZL08-----	05
Wheel Loader---ZL10-----	06
Specification of ZL10-----	07
Wheel Loader---ZL12-----	08
Specification of ZL12-----	09
Wheel Loader---ZL15-----	10
Specification of ZL15-----	11
Wheel Loader---ZL16-----	12
Specification of ZL16-----	13
Wheel Loader---ZL18-----	14
Specification of ZL18-----	15
Wheel Loader---ZL20-----	16
Specification of ZL20-----	17
Wheel Loader---ZL28-----	18
Specification of ZL28-----	19
Wheel Loader---ZL30-----	20
Specification of ZL30-----	21
Wheel Loader---ZL50-----	22
Specification of ZL50-----	23
Wheel Loader ---ZL60-----	24
Specification of ZL60-----	25
Wheel Loader ---ZL60G-----	26
Specification of ZL60G-----	27
Mini Loader ---MB1000-----	28
Specification of MB1000-----	29
Contact-----	30



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Company profile

Qingdao Zongjin Engineering Machinery Co.,Ltd.(QDZJ) is a leader on technology and high products quality enterprise. Company mainly produce wheel loader, backhoe loader and all kinds of attachments, owning independent import and export rights. The production of “ZJ” series wheel loader quality is safe and reliable and obtained the international quality system certification and CE certification.

QDZJ owns technical engineers engaged in independent loader industry over 5 years.

QDZJ maintains good cooperation and development relationship with several domestic excellent factories, timely formulate perfect supporting scheme according to the customers' demand. Perfect technical team and timely after-sale service, dedicated to providing the first-class technology trade service for customers.

QDZJ has been engaged in international trade process for seven years, got Sweden, Norway, Russia, South Africa and Ethiopia extremely cold and hot country customer survey. Through the company's R&D team make new solutions for these special environment, is no longer simple heat preservation and heat dissipation, but from the fundamental solve these defects. For most weather environment well countries, the company can supply the best quality wheel loaders.



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For customers' special requirements, our R&D team may make a good solution.

Many years of experiences, professional and constantly innovation, good faith and best service, QDZJ got all the customers consistent affirmation and praise, won the outstanding enterprise reputation.

"The customer trust, the preferred brand suppliers" is our enterprise pursuit of the goal, we are always so as to strict demands on ourselves.

Looking forward to provide you the most comprehensive field solutions and the most perfect products and services in the most crucial time.

Enterprise Target:

Professional、 honest、 excellent products supplier;

Customer trust、 preferred brand supplier

Business philosophy:

Professional、 honest、 trustworthy

Service objective:

With the most reasonable price and the most perfect service, provide the best products;

Take customer demand as orientation;

Improve production efficiency and product quality as goal.



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Wheel loader workshop





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Wheel Loader----ZL08



- I、 Streamlined appearance, beautiful and elegant.
- II、 Fully hydraulic steering system, easier operation.
- III、 Bucket can be leveled automatically, high productivity.
- IV 、 Comfortable operation environment, new design cabin, air-conditioner at option.
- V、 Various working devices of attachment are available, such as wooden fork, pipe fork, grass fork, stone bucket, enlarged bucket, plow, fork etc, to meet different needs.



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Specification of ZL08 wheel loader

Basic Parameters	overall weight(kg)	2000
	L×W×H (mm)	4700×1200×2280mm
	rated bucket capacity(m³)	0.6
	Rated load(kg)	800
	dump height (mm)	2400
	Dump distance	700mm
	Wheelbase	2100mm
	Thread	1400/1405mm
	Total time	11s
Engine	Model	Changchai CZ2102
	Type	direct injection, horizontal, water-cooled, four stroke, single cylinder
	Rated power (KW)	25KW
	Rated speed(r/min)	2400
Working system	Distribution of work valve	DF15.2C
	Working pump	CBF32
Steering system	Type	Articulated hydraulic steering
	Max. turning angle	35⁰±1
	Min turning radius(mm)	3400
Tyres	Standard tires	750-16
	Optional tires	28X9-15 tires, same as used on forklift



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Wheel Loader----ZL10



- I、 Streamlined appearance, beautiful and elegant.
- II、 Fully hydraulic steering system, easier operation.
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Specification of ZL10 wheel loader

Specification	overall weight(kg)	2850
	LxWxH(mm)	4750x1500x2530
	rated bucket capacity(m ³)	0.5
	Rated load(kg)	1000
	Wheel base	1985mm
	Track base	1215mm
	Max.breakout force	22KN
	Maximum dump height (mm)	2300mm
	Reach fully raised	850mm
	Bucket width	1400mm
	Bucket indicator	Yes
	Engine	Model
Rated power(kw)		37KW/36.8KW
Rated speed(r/min)		2200
type		In-line arrangement, water cooled, three-cycle diesel Engine
Engine starting mode		electric
Brake mode	Four-wheel hydraulic spread-shoed brake	
Steering system	Type	Articulated and hydraulic steering
	Min turning radius(mm)	4200
	Min.ground clearance	250mm
Tyres	Standard tyres	1200-16
	Optional tyres	14/90-16



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Wheel Loader----ZL12



- I、 Equipped with Changchai 4L68 engine, optional Xinchai 490 (Euro III) engine, Luotuo engine.
- II 、 The international CE certification provides an assurance in performance and safety of wheel loaders.
- III、 Joystick makes for supreme user comfort and easy control of the wheel loaders.
- IV、 Hydraulic quick change device, attached various optional tools to solve different tough work.
- V、 Strengthened and reliable transmission, drive axle.
- VI、 Optimized and choose the best quality Hydraulic component which increase the productivity ,sealing reliability.
- VII、 Articulated frame with box structure.
- VIII、 Option attachment: wooden fork, pipe/pallet fork, grass fork, rock bucket, bigger bucket, long arm etc.



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Specification of ZL12 wheel loader

Basic Parameters	Overall weight (kg)	3100
	Overall dimension (LxWxH)(mm)	4800X1770X2720
	Rated capacity(m³)	0.4
	Rated weight(kg)	1200
	Max.breakout force(kn)	36
	Max.drawbar pull(kn)	2587
	Max.grade ability	60°
	Total of three time: Lifting,Dumping,Lowering(s)	8.5
	Max.dump reach	1020
	Max.dump height	2650
	Min.ground clearance	8.5
	Wheel base	2005
	Performance of bucket being set level	Yes
	Min.turning radius(outside of bucket)(mm)	4500
	Time of raise	4
Wheel distance	1400	
Engine	Model	Changchai 4L68
	Pattern	In-line arrangement,Water cooling,four-stroke
	Number of cylinders-internal diameter*strokes	4X95X100
	Max.torsion	167
	Rated power(kw)	50
	Min.fule consuming rate	37.5
	Specified rotational speed(r/min)	2200
Driven System	Model of torque device	YJ240
	Pattern	Single-phase single-stage radial-inward turbine triples
	Pattern of gearboxes	Fixed-spindle power shift
	Number of gear shift	4
	Max.travel speed	16
Tyre Parameters	Tyre size	1100-16
	Front tyre pressure	4.5
	Rear tyre pressure	3.5
Steering System	Pattern	Steering
	Steering angle(each direction)	35°
Working Hydraulic System	Valve distributing working	ZL15
	Working pumps	CBG2040
	Fuel capacity(L)	45
	Pressuer of working hydraulic system(Mpa)	16



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Wheel Loader----ZL15



- I、 Equipped with Xinchai 498 engine (Euro III) .
- II、 The international CE certification provides an assurance in performance and safety of wheel loaders.
- III、 Joystick makes for supreme user comfort and easy control of the wheel loaders.
- IV、 Hydraulic quick change device, attached various optional tools to solve different tough work.
- V、 Strengthened and reliable transmission, drive axle.
- VI、 Optimized and choose the best quality Hydraulic component which increase the productivity ,sealing reliability.
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Specification of ZL15 wheel loader

Basic Parameters	Overall weight (kg)	3600
	Overall dimension (LxWxH)(mm)	4760X1680X2550
	Rated capacity(m³)	0.7
	Rated weight(kg)	1500
	Max.breakout force(kn)	43
	Max.dump height	2750
	Performance of bucket being set level	Yes
	Min.turning radius(outside of bucket)(mm)	3000
Engine	Model	Xinchai498(EURO III)
	Pattern	In-line arrangement,Water cooling,four-stroke
	Rated power(kw)	47
	Specified rotational speed(r/min)	2550
DrivenSystem	Model of torque device	YJ240
	Pattern	Single-phase single-stage radial-inward turbine triples
	Pattern of gearboxes	Fixed-spindle power shift
	Number of gear shift	2gears ahead,2 gear astern
Tyre Parameters	Tyre size	12-16.5&14-17.5
Steering System	Pattern	Afticulated hydraulic steering
	Steering angle(each direction)	27±1°
Working Hydraulic System	Valve distributing working	ZL20B
	Working pumps	CBGJ1045,CBGQ1018
	Parking brake	Oilbrake(Vacuum booster)



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Wheel Loader----ZL16



- I、 Streamlined appearance, beautiful and elegant.
- II、 Fully hydraulic steering system, easier operation.
- III、 Bucket can be leveled automatically, high productivity.
- IV 、 Comfortable operation environment, new design cabin, air-conditioner at option.
- V、 Various working devices of attachment are available, such as wooden fork, pipe fork, grass fork, stone bucket, enlarged bucket, plow, fork etc, to meet different needs.



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Specification of ZL16 wheel loader

Basic Parameters	overall weight(kg)	3000
	LxWxH (mm)	5100x1550x2570
	rated bucket capacity(m³)	0.7
	Rated load(kg)	1600
	Wheel base	1980mm
	Thread	1420mm
	Max.breakout force	43KN
	Maximum dump height (mm)	2850mm
	Bucket indicator	Yes
Engine	Model	WEICHAI Y24DH5
	Rated power (kw)	38kw
	Rated speed(r/min)	2400
	Max.torque	124.3N.m
	Total displacement	2.16L
Hydraulic system	Working pump	CBF32
	Distribution device model	DF15.2C
Steering system	Type	Articulated and hydraulic steering
	Min turning radius(mm)	3400
	Max.turning angle	35°±1
Tyres	Standard tyres	1200-16



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Wheel Loader----ZL18



- I、 Streamlined appearance, beautiful and elegant.
- II、 Fully hydraulic steering system, easier operation.
- III、 Bucket can be leveled automatically, high productivity.
- IV 、 Comfortable operation environment, new design cabin, air-conditioner at option.
- V、 Various working devices of attachment are available, such as wooden fork, pipe fork, grass fork, stone bucket, enlarged bucket, plow, fork etc, to meet different needs.



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Specification of ZL18 wheel loader

Basic Parameters	Overall weight (kg)	4400
	Overall dimension (LxWxH)(mm)	5700x1830x2730
	Rated capacity(m³)	0.9
	Rated weight(kg)	1800
	Max.dump height	3200/3700/4500
	Performance of bucket being set level	Yes
	Min.turning radius(outside of bucket)(mm)	3500
Engine Parameters	Model	WEICHAH ZH4102G41
	Pattern	Vertical, In-line , Water cooling, four-stroke diesel engine
	Rated power(kw)	47
	Specified rotational speed(r/min)	2400
Driven System	Model of torque device	YJ265
	Pattern of gearboxes	Fixed-spindle power shift
	Number of gear shift	2 gears ahead,2 gear astern



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Wheel Loader----ZL20



- I、 Equipped with Cummins, Weichai, Luotuo, Huafeng engine.
- II 、 The international CE certification provides an assurance in performance and safety of wheel loaders.
- III、 Joystick makes for supreme user comfort and easy control of the wheel loaders.
- IV、 Hydraulic quick change device, attached various optional tools to solve different tough work.
- V、 Strengthened and reliable transmission, drive axle.
- VI、 Optimized and choose the best quality Hydraulic component which increase the productivity ,sealing reliability.
- VII、 Articulated frame with box structure.
- VIII、 Option attachment: wooden fork, pipe/pallet fork, grass fork, rock bucket, bigger bucket, long arm etc.



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Specification of ZL20 wheel loader

Basic Parameters	Rated Load	2000kg
	Drive ways	4wd
	Dump height	3100mm
	Log fork patulous height	1300mm
	Tire size	16/70-20
	Operating weight	5800kg
	Transmission	automatic
	Min. ground clearance	310
	Wheel base	2150
	Tread	1440
	Overall dimensions(LxWxH)	5910 x1910x2810mm
Engine Parameters	Model	Weichai R4105
	Pattern	Inline, water cooled, dir, inject, four strokes
	Number o cylinders-internal diameter* strokes	4-100x115
	Max. torsion	206Nm
	Rated power	55KW
	Min. fuel consuming rate	221g/kw.h(243g/kw.h)
	Specified rotational speed	2400r/min
	Transmission	Gear box separated from torque converter
		YJ280
	Model of torque device	3-element,single stage
	Pattern of gearboxes	full-power shift, countershaft type
		4 forward,2 reverse
	Number of gear shift	24km/h
	Main reducer type	arc taper gear, moderation of first grade
	Pattern of wheel side moderation	planed gear moderation of single
		16/70-20
	Tyre size	220Kpa
Front tyre pressure	180Kpa	
Rear tyre pressure	B225-250	
Steering system	Pattern	±35
	Steering angle(each direction)	4239mm
	Min. turning radius(outside of bucket)	ZL20E-04T.QW
Working hydraulic system	Valve distributing working	CBG2063
	Brake system	air assisted oil type four wheel brake
	Parking brake	Soft axle control, outside bunch drum type
		80L



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Wheel Loader----ZL28



- I、 Equipped with YTR 4108G92 engine.
- II 、 The international CE certification provides an assurance in performance and safety of wheel loaders.
- III、 Joystick makes for supreme user comfort and easy control of the wheel loaders.
- IV、 Hydraulic quick change device, attached various optional tools to solve different tough work.
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Specification of ZL28 wheel loader

Specification	overall weight(kg)	5800KG
	LxWxH(mm)	6570x2150x2850
	rated bucket capacity(m³)	1.2
	Rated load(kg)	2600
	Maximum dump height (mm)	3200/3500
	Bucket indicator	Yes
	Max. breakout force(KN)	48.8KN
Engine	Model	YTR4108G92
	Type	In-line arrangement, direct injection, Water cooling, four-stroke
	Rated power(kw)	60kw
	Rated speed(r/min)	2400
Transmission system	Model of torque converter	YJ280
	Type	single grade three componets
	Gearbox type	Fixed-spindle power shift
	Gear shift	2 gears ahead,2 gear astern
Hydraulic system	Distribution of work valve	DF20.2C
	Working pump	CBF18
Steering system	Type	Articulated hydraulic steering
	Max. turning angle	35±1°
	Min turning radius(mm)	4500
Brake system	Brake type	Air assisted oil disc on four wheel
Tyres	Standard tyres	16/70-20



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Wheel Loader----ZL30



- I、 Equipped with Deutz Engine, optional Yuchai 6108, Cummins.
- II 、 The international CE certification provides an assurance in performance and safety of wheel loaders.
- III、 Joystick makes for supreme user comfort and easy control of the wheel loaders.
- IV、 Hydraulic quick change device, attached various optional tools to solve different tough work.
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Specification of ZL30 wheel loader

Basic Parameters	Overall weight (kg)	9500
	Overall dimension (LxWxH)(mm)	7050x2430x3120
	Rated capacity(m³)	1.7
	Rated weight(kg)	3000
	Max.breakout force(kn)	138
	Max.dump height	3020/3250
	Performance of bucket being set level	Yes
	Min.turning radius(outside of bucket)(mm)	5862
Engine Parameters	Model	Cummins 6BT5.9-C125/DEUTZ
	Pattern	In line, direct injection, four-stroke, liquid cooled
	Rated power(kw)	92kw(125hp)
	Specified rotational speed(r/min)	2400
Driven System	Model of torque device	YJ320B
	Pattern	Single stage,3 elements
	Pattern of gearboxes	Axial full power shift transmission
	Number of gear shift	4 gears ahead,2 gear astern
Tyre Parameters	Tyre size	17.5-25
Steering System	PatternArticulated	hydraulic steering
	Steering angle(each direction)	36.5±1°
Working Hydraulic System	Valve distributing working	DF25
	Working pumps	CBGj2100,CBGq2100
	Brake system	Air-break brake



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Wheel Loader----ZL50



I、 Central articulated frame, small turning radius, mobile and flexible, lateral stability, ease of operation in the narrow space

II 、 Easy-to-read gauges display and ergonomically designed controls make the driving convenient and comfortable

III、 Air over hydraulic disc brake on 4 wheels system and expire brake is used in brake system, which has large brake force and makes stable brake and high safety

IV、 Weichai Styer turbo-charged diesel engine is high power and torque, low fuel consumption and noise ,high reliability .Double-stage air filter is standard equipment for dusty fields.

V、 Full hydraulic steering, power shift transmission, hydraulic control device work with two lightweight flexible operation, action smooth and reliable

VI、 Twin pump-merging flow of working pump and steering pump. when the machine is not steering more engine power is available to breakout and lift forces. Resulting in increased economy

VII、 Pilot hydraulic implement controls make operate easy and comfortable

VIII、 The big loading engine side covers made in steel are of good appearance and suitable for maintenance



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Specification of ZL50 wheel loader

Performance	Rated load	5000kg
	Overall weight	17100kg
	Rated bucket capacity	3m ³
	Maximum tractive force	152KN
	Maximum breakout force	≥170KN
	Maximum grade ability	30℃
	Maximum dump height	3150mm
	Maximum dump reach	1250mm
	Overall dimension (L×W×H)	7920×3050×3400mm
	Minimum turning radius	6640mm
Engine	Model	Weichai Steyr WD615
	Type	Inline water cooling dry cylinder injection
	No. of cylinder-bore/stroke	6—126×130mm
	Rated power	162kw--2400r/min
	Maximum torque	860N.m
	Min fuel-consume ratio	≤215g/kw.h
Transmission system	Torque converter	YJ375
	Gearbox mode	Planetary
	Gear shift	2 forward shift 1reverse shift
	Maximum speed	38km/h
Drive axles	Main reducing spiral	bevel gear grade 1reduction
	Decelerating mode	planetary reduction,grade 1
	Wheel base (mm)	3200mm
	Wheel tread	2250mm
	Minimum ground clearance	450mm
Hydraulic system	System working pressure	18MPa
	Boom lifting time	5.95±0.2s
	Total time	10.95±0.5s
	Fuel tank capacity	300L
	Function of leveling automatically	yes
Brake system	Service brake	air over hydraulic disc brake on 4 wheels
	Parking brake	manual parking brake
Tyre	Type specification	23.5-25
	Front tyre pressure	0.4Mpa
	Rear tyre pressure	0.35Mpa



Qingdao Zongjin Engineering Machinery Co.,Ltd.

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Tel:0086-532-66739792

Fax:0086-532-66739791

Wheel Loader----ZL60



- I、 Central hinged frame, featured by small turning radius, flexible traffic ability and excellent lateral stability, is convenient for operations in narrows sites.
- II、 The design of streamline form, by using the punching technology of combined molds, makes the overall appearance more attractive, and cab, with large turning glass in front and rear, has good lighting and wide visual field.
- III、 An air-over-oil caliper disc type foot brake system, gas cut-off brake and emergency brake systems are available.



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Specification of ZL60 wheel loader

Performance	Rated load		6000kg
	Overall weight		17900kg
	Rated bucket capacity		3.5m ³
	Maximum tractive force		152KN
	Maximum breakout force		≥170KN
	Maximum grade ability		30℃
	Maximum dump height		3150mm
	Maximum dump reach		1250mm
	Overall dimension (L×W×H)		7920×3050×3400mm
	Minimum turning radius		6640mm
Engine	Model		Weichai/ Steyr WD615
	Type		Inline water cooling dry cylinder injection
	No. of cylinder-bore/stroke		6—126×130mm
	Rated power		175kw--2400r/min
	Maximum torque		860N.m
	Min fuel-consume ratio		≤215g/kw.h
Transmission system	Torque converter		YJ375
	Gearbox mode (WG180)		Power shift normally engaged straight gear
	Gear shift	4 forward shift	8/15/23/38
		4reverse shift	8/15/23/38
	Maximum speed		38km/h
Drive axles	Main reducing spiral		Bevel gear grade 1reduction
	Decelerating mode		Planetary reduction,grade 1
	Wheel base (mm)		3200mm
	Wheel tread		2250mm
	Minimum ground clearance		450mm
Hydraulic system	System working pressure		18MPa
	Boom lifting time		5.95±0.2s
	Total time		10.95±0.5s
	Fuel tank capacity		300L
	Function of leveling automatically		Yes
Brake system	Service brake		Air over hydraulic disc brake on 4 wheels
	Parking brake		Manual parking brake
Tyre	Type specification		26.5-25



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Wheel Loader----ZL60G



- I、 Fully hydraulic pilot control, lightweight and flexible, tender moving effect is excellent.
- II、 Efficient power shift transmission and torque converter, featured by high transmission efficiency energy saving effect.
- III、 Advanced bucket automatic leveling function, more convenient to control and reduce the labor intensity of driver.
- IV、 High power turbocharged Steyr engine and lengthened chassis and hydraulic system combined perfectly, more reliable performance, efficient and more fuel-efficient.
- V、 Single tilting cylinder-turn bucket structure to achieve huge digging force.
- VI、 The drive axle with big gear modulus and strong durability is suitable for heavy working condition, and designed for adverse conditions.
- VII、 Enhanced large space panoramic view cab, and German professional and technical spring damping quality sofa, safe and comfortable operation.



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Specification of ZL60G wheel loader

Performance	Rated load	6000kg
	Overall weight	19800kg
	Rated bucket capacity	3.3m³
	Maximum tractive force	158KN
	Maximum breakout force	204KN
	Maximum grade ability	30°
	Maximum dump height	2950mm
	Maximum dump reach	1255mm
	Overall dimension (L×W×H)	8250×3100×3400mm
	Minimum turning radius	6500mm
Engine	Model	DHD10G0353
	Type	Inline water cooling dry cylinder injection
	No. of cylinder-bore/stroke	6-126×130mm
	Rated power	175kw-2200r/min
	Maximum torque	843N.m
	Min fuel-consume ratio	≤220g/kw.h
Transmission System	Torque converter	Double turbine four original
	Gearbox number	ZL60601006
	Gear shift	2 forward shift 1reverse shift
	Maximum speed	38km/h
Drive axles	Main reducing spiral	Bevel gear grade 1 reduction
	Decelerating mode	Planetary reduction,grade 1
	Wheel base (mm)	3350mm
	Wheel tread	2250mm
	Minimum ground clearance	450mm
Hydraulic system	System working pressure	18Mpa
	Boom lifting time	6.15±0.25s
	Total time	10.65±0.5s
	Fuel tank capacity	300L
	Function of leveling automatically	Yes
Brake system	Service brake	Air over hydraulic disc brake on 4 wheels
	Parking brake	Manual parking brake
Tyre	Type specification	26.5-25
	Front tyre pressure	0.4Mpa
	Rear tyre pressure	0.35Mpa



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Mini Loader----MB1000





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Specification of MB1000 Mini loader

Rated Load	1000kg
Dumping Height	2.26m
Diesel Engine	Changchai 4L68
Engine Power	36.8kw
Min. turning radius	3.1m
Operating Weight	2150KG
Overall dimensions(mm)	4000*1400*23000
Rated loading (kg)	1000
Bucket capacity(m3)	0.5
Wheel distance(mm)	1670
Axle-base(mm)	1080
Mini turning radius (mm)	3100
Mini base to the ground(mm)	220
Lifting height (mm)	3400
Dump height(mm)	2260
Time of raise(s)	2
Hydraulic cycle time(s)	7
Turns to pick the strength mose greatly(kn)	32
Drive ways	four wheel drive
Tyre standard	10-16.5
Walking speed	14km/h
Engine rated output(rpm)	2200
Hydraulic system	16Mpa
Transmission	Hydrostatic, 4WD
Torque converter	Hydraulic motor, BM6-195
Gear-shifting style	Counter-shaft powershift
Gearbox	Hydraulic stepless, High/Low
Bucket's self-leveling function	yes
Hydraulic tank	60 Litres
Fuel Tank	55 Litres



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