

SHANTUI



SHANTUI

SHANTUI CONSTRUCTION MACHINERY CO., LTD.

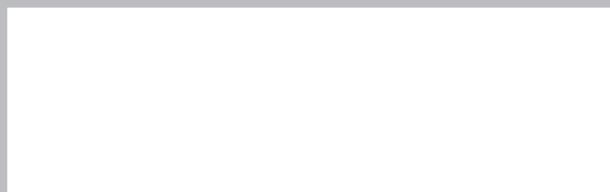
Add: No.71 East Wutaizha Road, Jining, Shandong, China

Tel: +86-537-2909367 2909368 2909369 2909370

Fax: +86-537-2311219

E-mail: trade@shantui.com

Website: www.shantui.com



●The specifications are subject to change without notice. The pictures may include options. The actual color & appearance of Shantui product may differ from what they show.

CHOOSE SHANTUI CHOOSE THE FUTURE

WHEEL LOADER



CHOOSE SHANTUI CHOOSE THE FUTURE

SHANTUI

WHEEL LOADER



WHEEL LOADER SERIES:
SL20W、SL30W series、SL50W series、SL60W series

SL20W>>>

Main specifications

Engine : YTO LR4108G
Rated Power : 60kW
Bucket volume : 1.0m³
Dump height : 2610 mm (Standard bucket)
 2850 mm (Lengthened arm)
Dumping distance : 850mm (Standard bucket)
 865 mm (Lengthened arm)
Recycling time for working device : 9s
Dimension : 5430 × 2054 × 2757mm



The feature for performance

The advanced Z-type reverse tipping bucket mechanism contributes to large breakout force and high work efficiency.

Function of bucket leveling automatically reduces the operator's working intensity.

The running system adopts power shifting gear box used for ZL30 (3 tons for bucket capacity) wheel loader

Articulated full hydraulic steering

The torque converter and gear box are positioned separately, which brings convenience for maintenance.

External oil inlet and outlet filter. You do not need to discharge the oil and dismantle the hoses when the filter is needed to clean, which brings convenience for maintenance.

With Air-conditioner available

Various working devices are available, such as Straw or wood graspers, side dump bucket and rock bucket.

ZLK20 loader underground

Adopted with the mature technology of ZL16 and driving axle of ZL20 and the driving axle is retro positioned to increase the capability of ROPS with better stability and improve the lift span for use. The canopy could be dismantled very fast and with the low cabin base and steering level which is suitable for working under the narrow working environment. It could be adapted or configured for anti-explosion device according to the requirement from users.



SL20W straw grasper

Width of device: 1830mm
Max opening dimension: 1889mm
Min closing diameter: 885mm



SL20W underground loader with anti-explosion

With special dealing for electric starter system and the air outlet system is filtered by water, which effectively prevents the explosion.

Angle for side dumping: 46 °
Angle for withdrawing: 40 °



SL30W Series▶▶▶

Main specifications

Items	Parameters
Operation weight (kg)	10500
Dimension (Length * Width * Height mm)	7170 x 2484 x 3193
Center distance of tires (mm)	1856
Wheel base (mm)	2700
Rated loading (t)	3
Max traction (KN)	95
Max lifting force (KN)	96
Climbing ability (°)	30
Min turning radius (mm)	5330
Turning angle (°)	36
Dumping distance (mm)	906
Pressure for working hydraulic system (MPa)	16
Bucket volume (m³)	1.7
Bucket dumping height (mm)	3057
Cycling time for bucket lifting, dumping and descending(S)	5.5/9.7
Running speed (km)	Forward 0 ~ 5.8
	Forward 0 ~ 10.8
	Forward 0 ~ 18.4
	Forward 0 ~ 35
	Rear 0 ~ 7.8
	Rear 0 ~ 27



Engine (Optional)

Xichai engine

Model : 6110/125G5 - DG1B

Rated power: 92kw

Rated speed: 2300r/min

Displacement: 6.55L

Min diesel consumption: 235g/km.h



Weichai Deutz Engine

Model: TD226B - 6IG15

Rated power: 92kw

Rated speed: 2200r/min

Displacement: 6.75L

Min diesel consumption: 235g/km.h



Dongfeng Cummins Engine

Model: 6CT5.9 - C130

Rated power: 97kw

Rated speed: 2200r/min

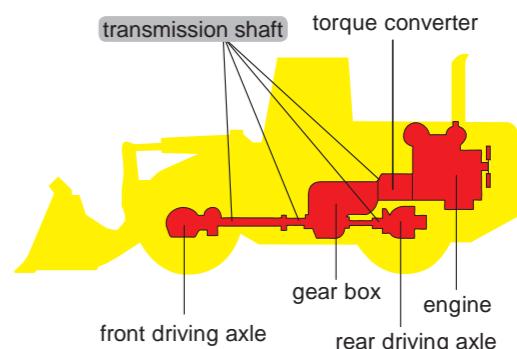
Displacement: 5.9L

Min diesel consumption: 225g/km.h



Transmission system

Transmission system is composed by torque converter, gear box, transmission shaft and driving axle.



SL30W Series▶▶▶

Torque converter

Model: J315LD or YJ320D

The torque converter adopted could automatically adjust the torque and transmission speed and with stable start, average and fast acceleration and it realize the constant transmission in a wide range.



Gear box

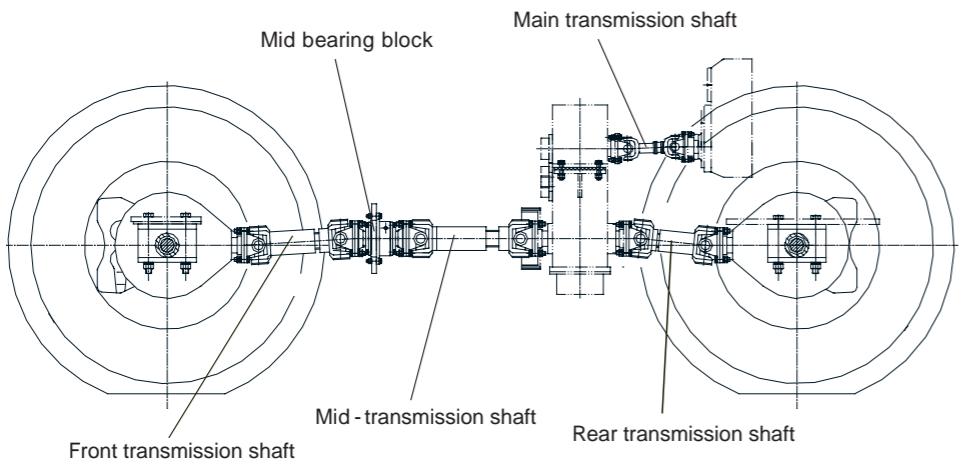
Model: BS428 or BYD4208

Structure type ; Counter shaft, constant teeth connected and hydraulic power shift gear box.

With dense structure and 4 gears forward and 2 gears rear, with double output from front and rear.



Transmission shaft



Driving axle

Adopting Feicheng driving axle or Xuzhou driving axle, which effectively enhance the torque from engine



Operation system

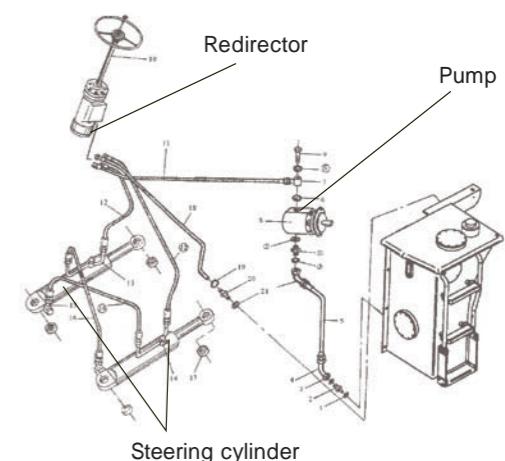
Operation system is composed with transmission operation and working device.



Hydraulic system

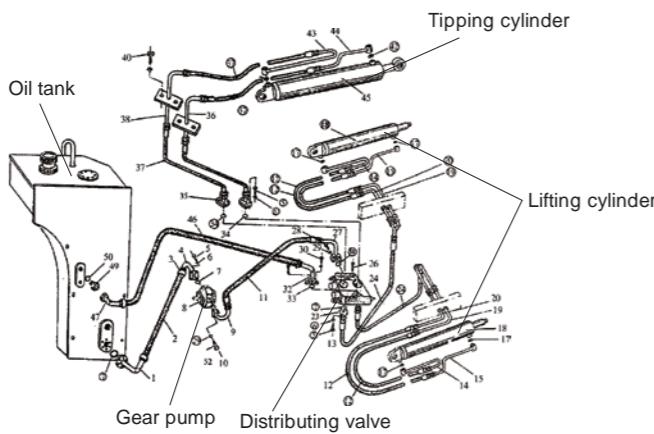
Steering hydraulic system

Rated pressure: 10Mpa

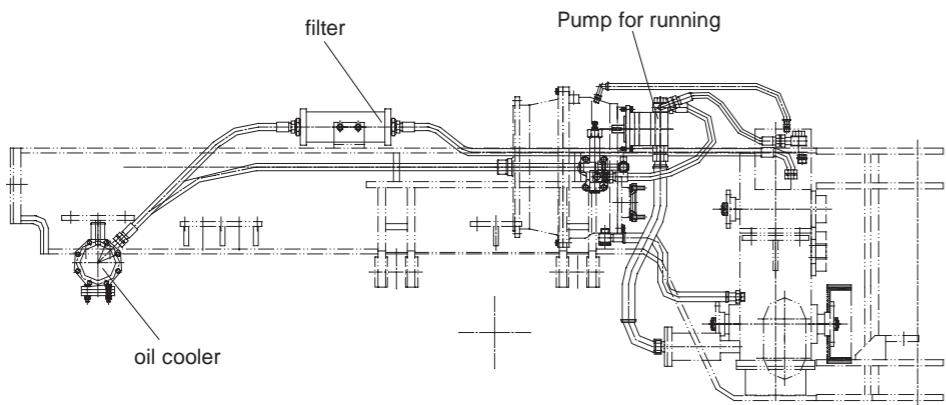


SL30W Series▶▶▶

Working hydraulic system



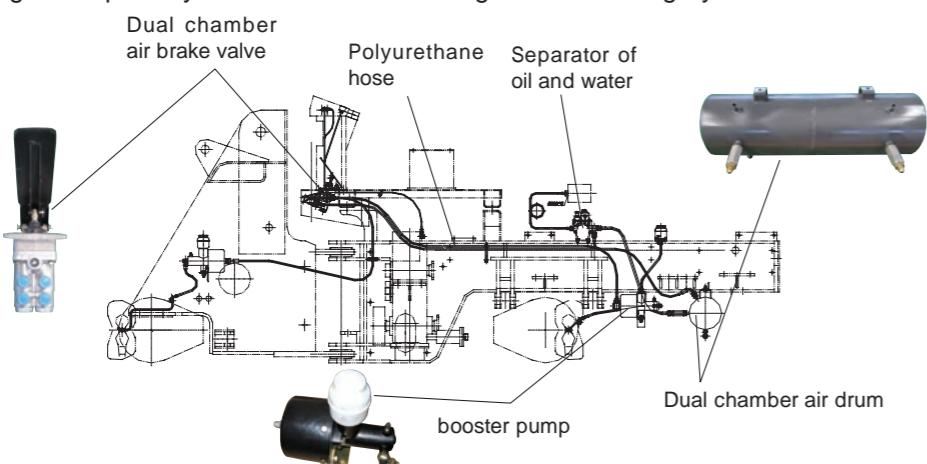
Running hydraulic system



Braking system

Motor braking

Motor braking is adopted by double channel air on oil and four wheels caliper disc braking and parking braking is adopted by mechanical belt braking and air braking by brake chamber.



Parking braking

Parking braking is adopted by mechanical belt braking and air braking by brake chamber.



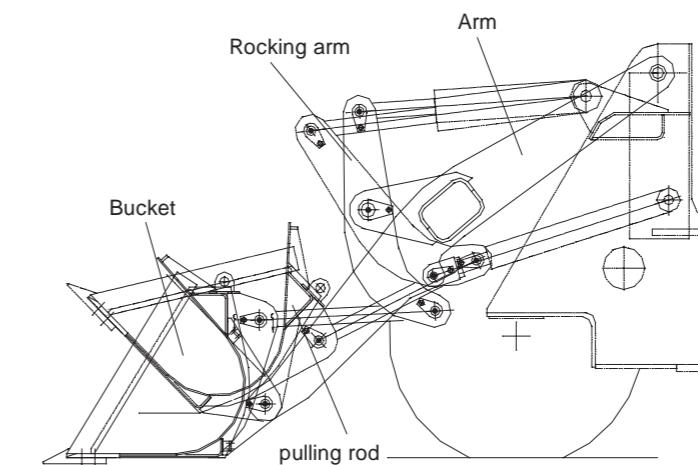
Frames

Both the front and rear frames are welded by highly intensified manganese steel and articulated connection. Steering is accord and flexible with the articulated point positioned in the middle of front and rear driving axles.



Working devices

Working devices are composed with arm, bucket, rocking arm and connection rod.



Electric system

The complete and combined panel is adopted with higher degree of integration.

The main wiring hardness connectors are imported, which makes it more secure and reliable.



SL30W Series▶▶▶

Cabin

The cabin designed according to ergonomic theory with the wide vision and good seal along with the shock absorbing. The complete and full seal panel with better vision and the operating angle could be adjusted according to different users.



The luxurious decorated cabin reflects the humanity

The seat is shock absorbing, comfort and secure.

The back of seat could be adjustable.

The air conditioner of cold and warm makes the working environment more comfortable.

The radiator of air conditioner is positioned under the seat, which makes better use of the room and the control board is positioned on the right side, which makes it easier to operate.

Sophisticated and portable tool case makes it more convenient for maintenance.

Simple maintenance

The engine cover could be opened completely with upturning from the sideways, which makes it convenient for maintenance.



Optional

With multi-purpose loader and the high dumping, wood grasper, straw grasper, coal bucket, rock bucket, side dumping bucket, braking hammer, etc are available.



Lengthened arm



Long arm king



Wood grasper



Straw grasper



Hydraulic braking hammer

Width of device: 1950mm
The device could be adjusted to be moved laterally to suit the different lengths of woods.
Max opening dimension: 1472mm
Min closing diameter: 450mm

Carton grasper

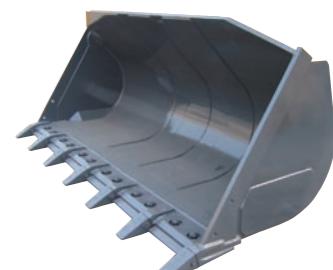


Coal bucket



The bucket volume for coal bucket could reach 2.2 cubic meters and it is suitable to load the light materials such as coal, paper scrap, saw dust, etc.

Rock bucket



SL50W Series▶▶▶

Main specifications

Items	Parameters	
Operation weight (kg)	17000	
Dimension (Length * Width * Height mm)	8040 x 3050 x 3430	
Center distance of tires (mm)	2250	
Wheel base (mm)	3250	
Rated loading (t)	5	
Max traction (KN)	156	
Max lifting force (KN)	200	
Climbing ability (°)	30	
Min turning radius (mm)	6025	
Turning angle (°)	36	
Dumping distance (mm)	1160	
Pressure for working hydraulic system (MPa)	18	
Bucket volume (m ³)	3	
Cycling time for bucket lifting, dumping and descending(S)	10.7	
Running speed (km) Shantui or HANGCHI ZL50A Gear box	Forward	0 ~ 13
	Forward	0 ~ 38
	Rear	0 ~ 17
Running speed (km) Belian 50 Gear box	Forward	0 ~ 8
	Forward	0 ~ 15
	Forward	0 ~ 24
	Forward	0 ~ 38
	Rear	0 ~ 8
	Rear	0 ~ 24
Running speed (km) Hangchi WG180 Gear box	Forward	0 ~ 6.5 4
	Forward	0 ~ 1 0 .5
	Forward	0 ~ 2 3 .1 2
	Forward	0 ~ 4 0 .5 3
	Rear	0 ~ 6.5 4
	Rear	0 - 1 0 .5
	Rear	0 ~ 2 3 .1 2

The configuration for SL50W series wheel loader

Model	Engine	Gear box	Axle type	Control type	A/C
SL50W	WD10G220E11	Hangchi or Shantui ZL50A	M axle	Mechanic	Option
		Beilian 50	M axle	Pilot	Option
SL50W - 2	C6121ZG50	Hangchi or Shantui ZL50A or Beilian 50	M axle	Pilot	Option
	6CTA8.3 - C215	Hangchi or Shantui ZL50A or Beilian 50	M axle	Pilot	Option
SL50W - 3	WD10G220E11	ZF : WG180	M axle	Mechanic or pilot	Option
	C6121ZG50	ZF : WG180	M axle	Mechanic or pilot	Option
	6CTA8.3 - C215	ZF : WG180	M axle	Mechanic or pilot	Option



SL50W Series▶▶▶

Engine (Optional)

Weichai Style: WD10G220GE11

Model	WD10G 220GE11
Displacement (L)	9 . 726
Rated speed (rpm)	2200
Rated power (kw)	162
? Sj fad:gW @v _	850
? [V W W Ua` eg_ bfa` Y!] i v Z	215±5%



Shangchai Engine: C6121ZG50

Model	C6121ZG50
Displacement (L)	10.45
Rated speed (rpm)	2200
Rated power (kw)	162
? Sj fad:gW @v _	843
Min diesel consumption (g/kw·h)	218±5%



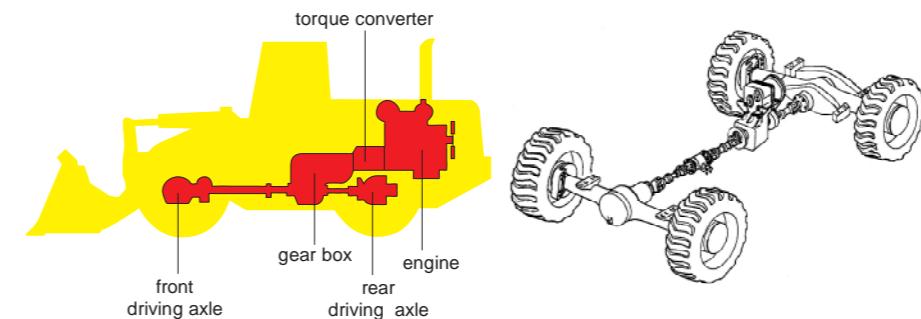
Dongfeng Cummins Engine: 6CTA8.3-C215

Model	6CTA8.3 -C215
Displacement (L)	8.3
Rated speed (rpm)	2200
Rated power (kw)	160
? Sj fad:gW @v _	908
Min diesel consumption (g/kw·h)	202



Transmission system

Transmission system is composed by torque converter, gear box, transmission shaft and driving axle.



Gear box and torque converter

So far, the gear box for SL50W is Hangchi or Shantui ZL50A planetary gear box Hangchi WG180 electric and countershaft gear box Beilian ZL50 countershaft gear box and Beilian YJ315 torque converter.

Hangchi, Shantui 50A gear box(Optional)

Feature: The gear box is composed with hydraulic torque converter and power shift gear box, with simple structure, reliable working performance, easy operation and high efficiency of transmission.

Type of torque converter: single stage, two

phrases, four units components, twin turbo

hydraulic torque converter could make full use of

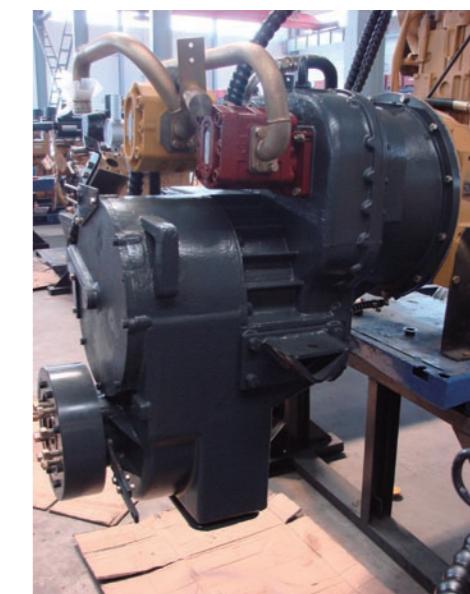
torque from the engine and enlarge the torque to

make the whole loader with strong traction.

Type of gear box: Planetary and power shift

Gears shift of gear box: two gears for the forward

and one gear for rear.



SL50W Series▶▶▶

Hangchi WG180 gear box(Optional)

This gear box is composed with hydraulic torque converter and countershaft gear box

The gear pump is positioned inside the box with dense structure.

German ZF technology with electric hydraulic shifting and high efficiency of transmission along with reliable performance.

Electric gear selector which makes it easy, secure, accurate to control.

7 gears for 4 gears for the forward and 3 gears for the rear, which adapts the needs from different working status.



Beilian 50 Gear box (Optional)

Single stage, three units components torque converter with parallel shaft gear box, which makes a reliable performance.

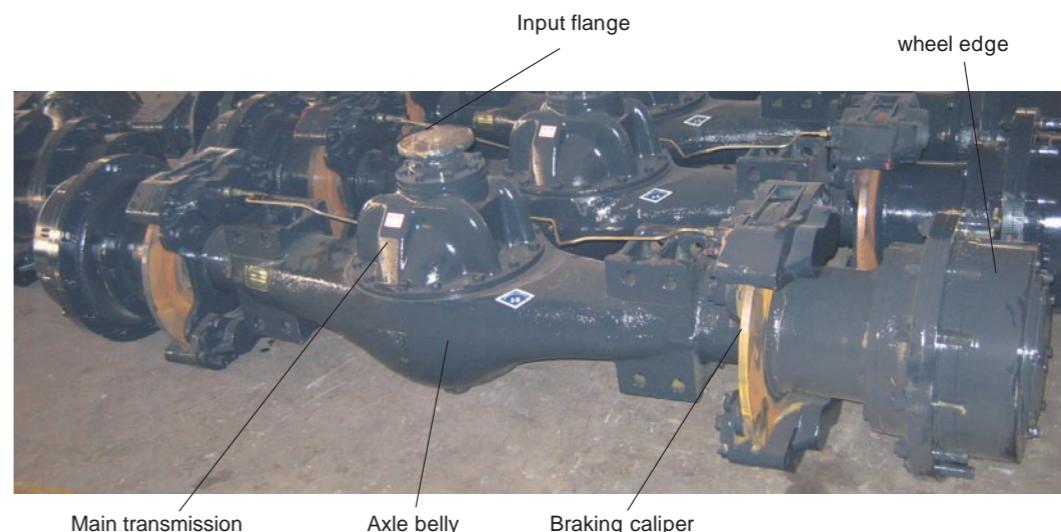
Separate structure of gear box and torque converter, which brings convenience to the maintenance.

4 gears forward and 2 gears for the running gears and loading gears rear adapt the needs from different working status, especially for the heavy working environment.



Driving axles of high transmission ratios (Feicheng Jincheng)

Adopted by M axle for the transmission ratio of 22.847 brings high transmission efficiency.



Operation system

Operation system is composed with working device control system and Gear shifting operation system.



Gear shifting operation system



Working device system

SL50W Series▶▶▶

Electric operation(WG180 Gear box)

Handle for electric operation



Hydraulic system

Steering hydraulic system

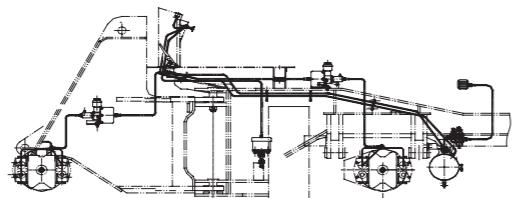
Twin pump



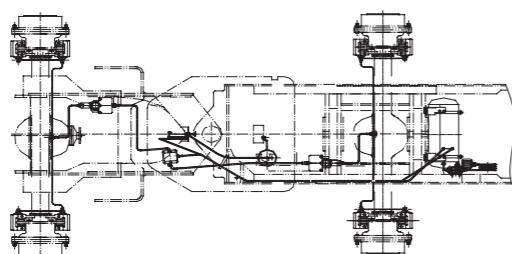
Braking system

The braking system is easy, secure and simple to operate.

Caliper braking(Running)



Parking braking(Parking)



Frames

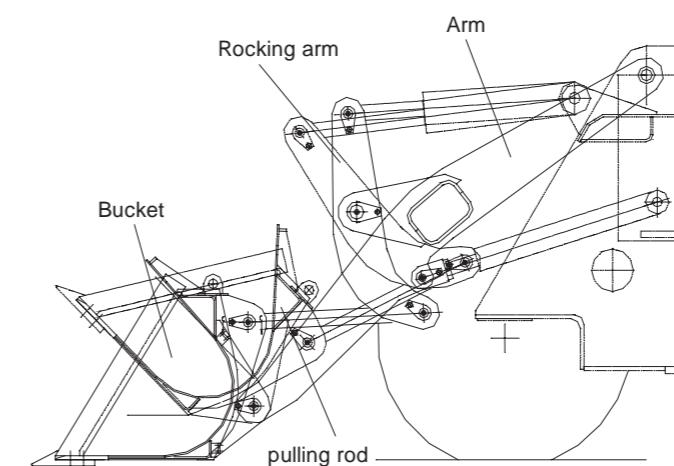
With optimum design for front and rear frames and box structure, with high quality of manganese steel welded by non-gas to ensure the quality of welding, high intensification and strong bearing ability.



Working device

Working devices are composed with arm, bucket, rocking arm and connection rod.

With multi-purpose loader and the high dumping, wood grasper, straw grasper, coal bucket, rock bucket, side dumping bucket, forklift, snow tilts, etc are available.



With reinforced bucket design and complete quenching shovel blade of high anti friction and corner bucket teeth makes it higher intensity and durable.

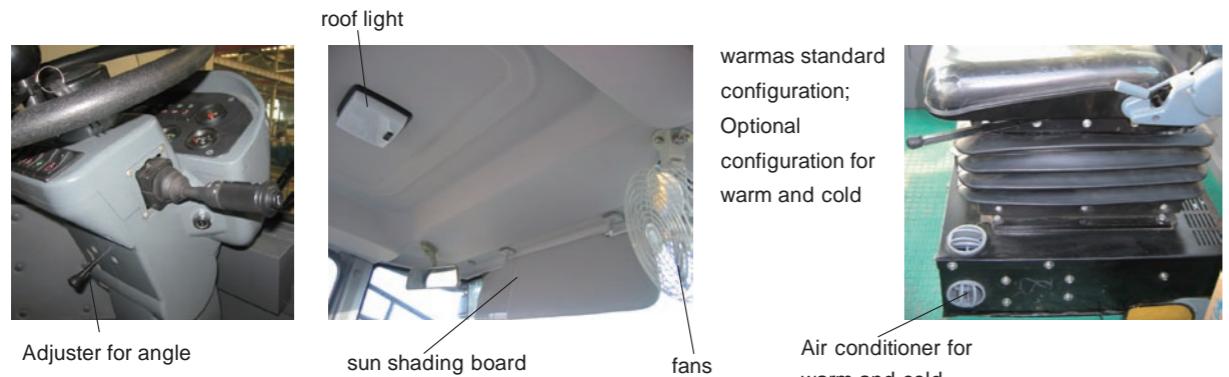


SL50W Series▶▶▶

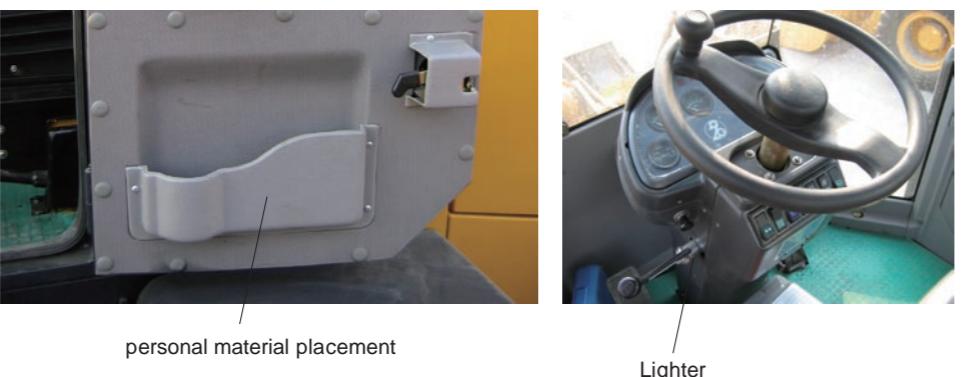
Cabin

Cabin designed by non-fillet and wide vision and opened by both sides. The strong structure could endure large loading to ensure the safety of operator. The glasses of cabin could be available with steel glass for different colors of green, dark brown to isolate the ultraviolet rays.

Complete and full seal panel with nice appearance and reliable performance and meanwhile could be adjustable according to different operators.



Luxurious decoration with Grammer suspended chair, personal material placement, sun shading board, cup keeper, lighter, hanger, etc.



Maintenance and repair are convenient

The engine cover could be opened completely with upturning from the sideways, which makes it convenient for maintenance.



External lubrication for front and rear frames is easy for maintenance. The grease inlet is protected by lid for dust proof, promoting the cleanliness.



Double steering limit

The design for soft buffering and solid limit reduces the striking to bring the comfortable operation to the users.



Three levels shaking absorbing

The SL50W adopts three levels shaking absorbing for engine, cabin and chair to bring the operator a comfortable working environment.



SL50W Series►►►

Optional



Rock bucket 3 cubic meters



Side dumping bucket with dumping angle 53 ° and dumping height is 3865mm



Coal bucket
Bucket volume: 4 cubic meters



Snow blade
Height : 1150mm
Width : 3100mm
Tilting angle: 25 °



Width of device: 2332mm
Max opening dimension: 2089mm
Min closing diameter: 505mm
Dumping height: 2840mm



Width of device: 2350mm
Max opening dimension: 2820mm
Dumping height: 2840mm
Loading volume: 5.85 cubic meters

Forklift
Height : 920mm Width : 2200mm
Forklift assembly
Height : 1200mm Width : 1700mm



Long arm king
The dumping height could reach 3540mm



SL60W Series►►►

Main specifications

Items	SL60W	SL60W - 2
Operation weight (kg)	19000	21000
Dimension (Length * Width * Height mm)	8171x3082x3411	8723x3050x3548
Center distance of tires (mm)	2250	2250
Wheel base (mm)	3200	3400
Rated loading (t)	6	6
Max traction (KN)	167	172
Max lifting force (KN)	185	190
Climbing ability (°)	29	29
Min turning radius (mm)	6808	6808
Turning angle (°)	35	35
Dumping distance (mm)	1218	1250
Bucket volume (m³)	3.5 - 5	3.5 - 5
Bucket dumping height (mm)	3238	3314
Cycling time for bucket lifting, dumping and descending(S)	10	5.3/10.6
Running speed (km)	Forward	0 ~ 8
	Forward	0 ~ 15
	Forward	0 ~ 24
	Forward	0 ~ 38
	Rear	0 ~ 8
	Rear	0 ~ 24



SL60W Series▶▶▶

Engine(Optional)

Weichai: WD10G240E11

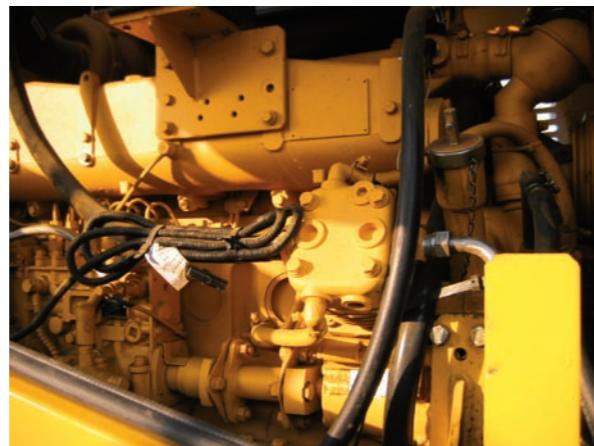
Shangchai: C6121ZG61

Torque converter: Beilian YJ375

Gear Box: Beilian ZL60 countershaft

Rated power: 175kw

Transmission speed: 2200 rpm



Driving axle

SL60W adopts Feicheng Jincheng Driving axle is strong bearing and reliable performance.

SL60W-2 adopts oscillating driving axle from French SOMA technology brought in by Xuzhou Meritor Driving axle, manufactured by seamless steel tube and solid forging with strong bearing and reliable performance. The front axle is firmed while the rear axle is oscillating.



Pilot control for the working devices

Pilot Hydraulic control is adopted for the working devices with alternatives of single handle and double handles available.

Feature: The control handle makes operation easy, effective, flexible and with better micro-motion performance, greatly reduces operator's working intensity.



Tires

SL60W adopts the specification of 26.5 - 25 tubeless tire

Feature: With extended life span and failed until the explosion of tire.

With endurable friction.

With little heat due to tubeless

With wide tire face and good stability and traction, it suits to the heavy working sites.



Multiple attachments are available to meet the needs of different working sites



Coal bucket 5.5 cubic meters



Rock bucket 3.5 cubic meters



Wood grasper

Width of device: 2332mm

Max opening dimension: 2089mm

Min closing diameter: 505mm