

SD 300H

Main performance parameters (standard configuration)				
Operating weight	16,900 Kg			
Rated load	5 Ton			
Rated power	162 kW (217HP) / 2,000 rpm			





Energy Efficient

- Faster acceleration performance: Perfect match between transmission and torque converter as well as fully use of engine power enable the whole machine to deliver faster acceleration.
- $\cdot \text{ ZF automatic transmission: Smoother gear shift with ZF 4 shift transmission. Well proven and best quality transmission.}\\$
- · Advanced dual-pump confluence technology: hydraulic system conduct efficient work, fully utilizing pump with this dual pump confluence technology.
- · Arm Raise Kick-out and Return to dig function: greatly improve efficiency of work and reduce work intensity of operator.
- · High stability: the distance between left and right wheels is the widest one in the industry, and well designed center of graviity greatly improve operation stability.
- · Large steering angle make smaller turning radius: actions of whole machine more flexible.
- · Large dump angle: Unloading materials more quickly and cleanly.
- · Patented cooling system: cooling system designed by DISD greatly reduces the hydraulic oil and water temperature. Industry leading cooling system, offering a guarantee for continuous and uninterrupted work under high temperatures.

High Reliability

- · High strength structure: The adoption of stress analysis technology from the Korean headquarters and the performance of strict quality testing ensure that all our components and parts are safe and reliable.
- The hinge pin for front operating device is 5-10mm larger than that for the industry. The pin shaft bushing uses durable materials to improve the durability of working device.
- \cdot Wear-resistant materials are used for the bucket and robust design applied upper parts of the bucket.
- · All hydraulic cylinder O-rings and hydraulic hoses use high quality brand parts, increase hydraulic system reliability.
- · Add engine preheating device, effectively improving the difficulty of low temperature startup in winter. At the same time change motor startup mode, and increase CCA capacity of battery.
- · Adopting more outstanding anti-rust and anti-fade paint.

Design & Comfortability

• The interior of the cabin features an ergonomic design comprising a large operational space, a wide field of vision in front and behind, and a userfriendly control unit, thereby offering industry-leading comfort for operators.

ENERGY EFFICIENT SD 300H

Powertrain system

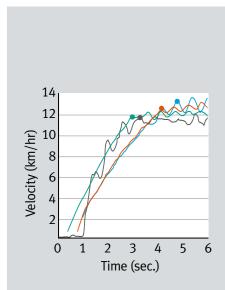
DISD SD300H loader uses an unique high-efficiency and low-energy consumption power matching technology, perfectly matching the powerful Weichai engines, and efficient and reliable ZF gearbox.



Engine: Weichai Steyr WD10G220E23 engine: the rated power is 162kW and the rated RPM is 2,000 rpm; after the segmenting and tuning of working conditions, the commonly used working conditions are within the segment of low fuel consumption.



Use exhaust turbine to increase pressure, therefore, torque reserve is large and the fuel consumption and engine oil consumption are low with good altitude adaptability which meet the emission standards of Tier II. The low speed of 2,000rpm + perfect power matching+dual pump confluence technology make DISD loaders more fuel efficient compared to competing enterprises under the same working condition.

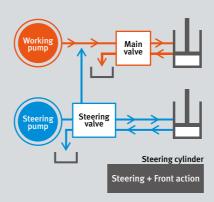


The injection pump is specially tuned on a professional test bench, so the acceleration performance of engine is improved greatly. DISD equipment starts working from the third second while other equipment is still accelerating.



Hydraulic system









Pilot operating system provides comfortable machine control.



Arm Raise Kick-out and Return to dig function: reduce the intensity of your work and improve working efficiency.

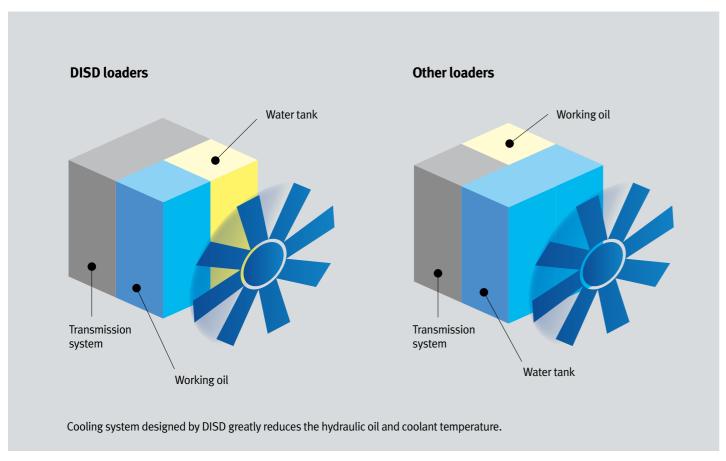


Advanced dual pump confluence technology: hydraulic systems take full advantage of power and energy and achieve the minimum hydraulic load of engine; maximize hydraulic pump efficiency.

Equipped with international high quality
Hydraulic Streering Unit which may supply
the surplus hydraulic oil in the steering
system to working system depends
on working condition. So the energy
consumption of the hydraulic system can
be reduced.

ENERGY EFFICIENT SD 300H

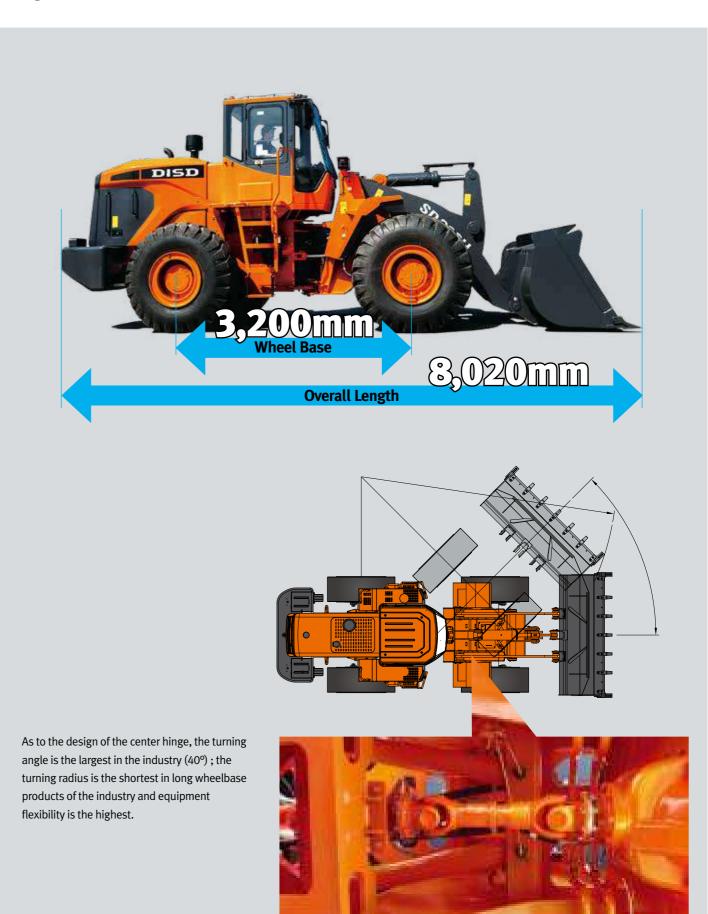
Cooling system





By improving the cooling system layout and materials, DISD's unique patented cooling technology greatly reduces hydraulic oil and coolant temperature during the machine's operation time, thus resolving the high temperature problem that has been hanging over the industry for many years. The machine is guaranteed not to overheat even after 24hrs of continuous work under 45°C atmospheric temperature.

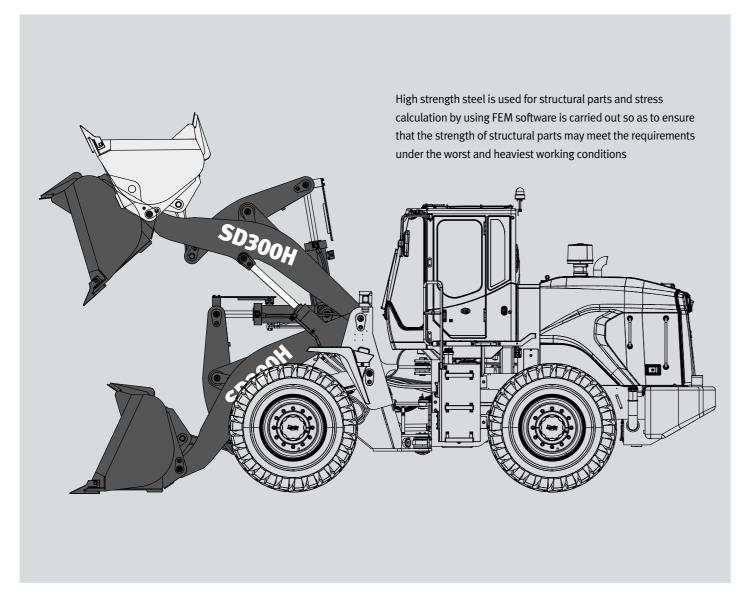
Design of Whole Machine



RELIABILITY SD 300H

Structure parts

Through more advanced 3D design and a variety of experiments, and then after repeated verification and equipment reliability tests, greatly prolonged the service life of equipment, created higher value for customers.





The diameter of the hinge pin in the 6 operating devices is 5-10mm larger than the level of the industry. High wear-resistant materials are used for pin sleeves so that the durability of working device is stronger and the residual value of second-hand equipment is higher after being coated with MoS2 and processed with a special heat treatment process.



Wear-resistant materials are used for the bucket. and robust design applied upper parts of the bucket, which may effectively prevent the deformation of the bucket caused by stones and other falling objects.



Transmission shaft: Apply reinforced transmission shaft and self-locking nuts are used as the connecting bolts of the transmission shaft so as to improve the durability of transmission system.

Working device



Preheater helps start in low temperature. CCA capacity of battery increased.



New pilot solid main control valve has high precision machining and perfect fretting performance which may lower inside leak and prolong the service life. A pilot filter is added specially to increase the reliability of pilot system.



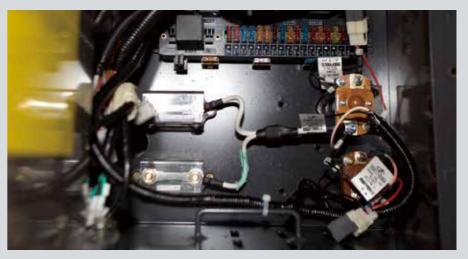
CASAPPA double pump has a higher volume rate, lower pulsation, lower failure rate, higher reliability and longer service life.



All hydraulic cylinder O-rings and hydraulic hoses use high quality brand parts: reduces oil leak problems.



Parking brake button for safety.



Well desinged and arranged electronic circuit.

COMFORT SD 300H

Cab

The interior of the cabin features an ergonomic design comprising a large operational space, a wide field of vision in front and behind, and a userfriendly control unit, thereby offering industry-leading comfort for operators.











The interior decoration in the cab is upscale:

ABS materials are used for dash board and console and striae treatment is applied to the surface, which is high-grade and durable.



High-quality audio system MP3 + radio, and USB interface for phone charge.



DISD loader adopts a new part - the nylon hinge limit block. It has stronger durability, no noise caused by impact and reduces the driver's fatigue.



Ergonomics is used to design the inside of the cab, so the driving space is larger and the front-rear field of vision is more open. The operating device is a user-friendly design and the comfort of driving it is leading in the industry.

os://www.tractormanualpdf.info/

MAINTENANCE

Easy maintenance for more uptime

Equipment maintenance, repair and service become simpler and quicker, which may greatly improve efficiency and save costs.





Full Tilting of Engine Cover

With this one body engine cover, it is easy to repair engine and sub parts.



Window for convenient brake oil check.

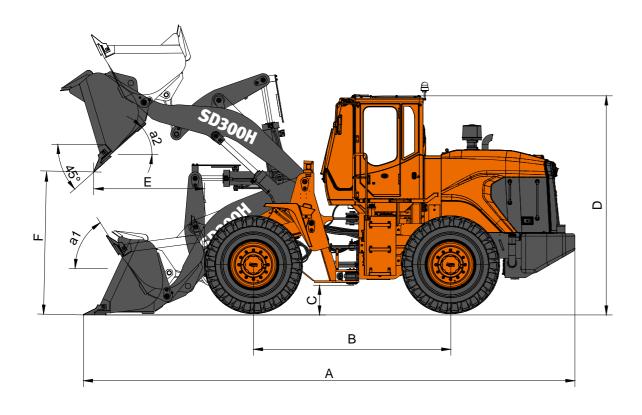


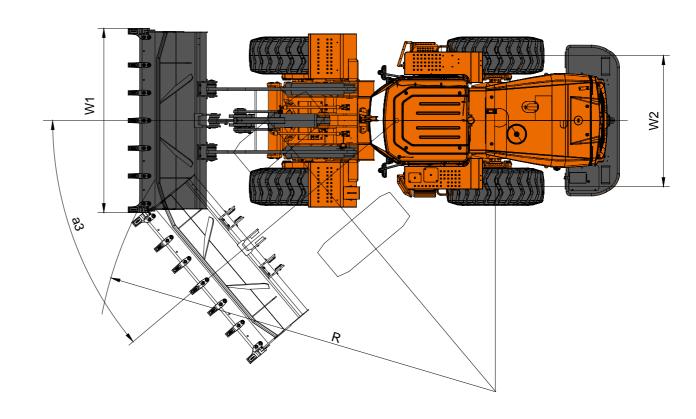
Waterproof back buzzer.



Quickly Changeable Brake Disc







4,150

85 dB

Volume data

Hyudraulic oil tank

Fuel tank

General Bucket capacity (w/BOT) 3.0 m³ Operating weight (ton) 16.9 8,020 x 2,992 x 3,450 Equipment L x W x H (mm) Payload (ton) 5 Wheel base (mm) 3,200 2,174 Tread (mm) W2 Min. ground clearance (mm) 420

Engine			
Model	Weichai WD10G220E23, turbo		
Rated power, SAE J1995 Gross	162 kW (217HP) (220PS) / 2,000 rpm		
Number of cylinders x bore x stroke	6 x 126 x 130		
Displacement	9.71		
Max. torque, SAE J1995 Gross	980 N.m / 1,300-1,500 rpm		

Transmission system					
Transmission	Electro-control hydraulic and full automatic transmission with fixed axis				
Gear	I	П	III	IV	
Forward	6.3	11.4	22.7	36.5	
Backward	6.3	11.5	22.4		
Drive form			Fou	ır-wheel drive	
Tyre			:	23.5-25-16PR	
Max tractive effot (KN)				164	
Max. gradeability	30°				
Max. steering angle				40 °	
Min. turning radius (mm)		6,470			

Max. dump height (w/Bucket) (mm)	3,089	
45° Dump reach (w/Bucket) (mm)		1,308
Max. breakout force (KN)		164
Max. dump angle	a2	49°
Max. tilt angle (on ground)		45 °
		50°
Max. tilt angle (at carry) Hydraulic system	a1	50 *
Hydraulic system	a1	
3	a1	104.9 ml/rev 170 kgf/cm ²

Working device

Sound level in Cabin

Bucket hinge height (mm)

Engine oil	19l
Torque converter & Transmission	35l
Axle oil (Front/Rear)	27l/ 27l
Hub reduction (Front 2 EA/Rear 2EA)	2EA x 5l/ 2EA x 5l
Options	
2.7 m ³ V-shape rock 2.7 m ³ mono tooth 2.9 m ³ cutting edge, 3.2 cutting edge 4.0 m ³ light bucket	
Long boom (hinge height 4,450 mm)	
Super long boom (hinge height 4,666 mm)	
Heavy duty arm (hinge height 4,150) - 3 spool control valve (2 spool control valve is standard) - ROPS CABIN - Attachment	
Glass shading film in cab	
Desert tyre	

300l

245l



Materials and Specifications in the catalogue are subject to change without notice.



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