### **Specification**

Overall working weight	kg	17,300	Front and Rear Axles			
Capacity heaped ISO/SAE Rated load Max traction force Max breakout force (kN)	yd3 3.9 kg 5000 1 force Ton 17 ut force (kN) kN 161 lbf 36,194 ility Degree 30 tt (at 45 <sup>9</sup> ) 1) mm 3085	3.0 3.9 5000 17	TYPE Final decelerate type		FULLY FLOATING PLANETARY-TYPE HUB DRIVE FIXED MOUNTING(FRONT) TRUNNION MOUNTING(REAR) PLANETARY	
			Туге			
Max gradability Dump height (at 45 <sup>9</sup> ) 1) (at fully raised)		3085	Tyre specification Front tyre pressure Rear type pressure	Mpa Mpa	23.5 -25-16PR 0.38 0.34	
Dump reach (at $45^{\circ}$ ) 1)	mm	1,297		Steering System		
(at fully raised) Overall dimension(LxWxH)	ft in mm	4'2" 8260×2992×3450	Type Steering angle	degree	Gear 40	
Model Type Number of cylinder	Engine	Engine Doosan DEo8TIS (TIER-II Certified) TURBO, DIRECT INJECTION 6	Min. turning radius (outside tires) Min. turning radius (outside bucket)	mm ft in mm ft in	5800 19'0" 6510 21'4"	
Bore/stroke (mm)	111 X 139 (mm)		Hydraulic system			
Max torque Rated power Rated speed Min fuel consume ratio		902 N.m/1300 rpm 160kW(215HP)/2,000 rpm 2000 rpm 215 g/kw.h @ RATED SPEED	System working pressure Boom lifting(full load) Total time	bar sec sec	170 ← ~ 6.0 ← ~ 11.3	
Transmission system			Brake system			
Torque converter type Torque ratio Transmission type		Single Stage, Single phase, Three elements(single turbine) 2.142 4 SPEEDS, POWER-SHIFT,	Service brake Parking brake		AIR PUSH HYDRAULIC SINGLE LINE SPRING-APPLIED AIR RELEASED DRUM BRAKE	
	COUNTERSHAFT		Fill capacity			
Gear shift Max speed	km/h	4 forward shift , 3 back 38.0 KPH	Fuel Hydraulic oil	liter liter	330 177	

nsion

K. Dump height (at 45<sup>o</sup>) 1) (at fully raised)

N. Maximum digging depth

Q. turning radius outside tires

T. Turning radius outside bucket

R. Maximum steering angle (each side)

O. width over tires

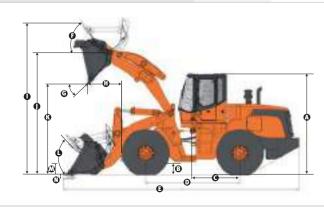
P. Tread width

S. Bucket width

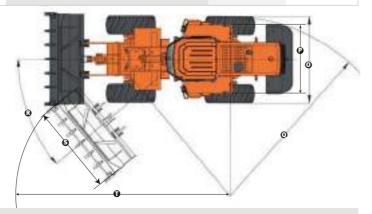
L. Maximum rollback at ground

Max. tilt angle at ground M. Hinge pin height at carry position

		Dime
A. Height to top of cab and canopy	mm	3450
	ft in	11'3"
B. Ground clearance	mm	420
	ft in	1'37"
C. Machine center point to rear axle		1600
D. Wheel base	mm	3200
	ft in	10'6"
E. Overall length	mm	8260
	ft in	27'1"
F. MAX. TILT ANGLE (fully raised)	degree	60.5
G. Bucket dump at full height	degree	49
H. Dump reach (at 45 <sup>o</sup> ) 1)	mm	1297
(at fully raised)	ft in	4'2"
I. Maximum overall height	mm	5713
J. Hinge pin height at full lift	mm	4150
	ft in	13'7"



1) Measured to the tip of the bucket teeth or bolt-on edge.



2) SD310: All measurements with tyres 23.5-25-16PR(L3)





3085

10'1"

45

500

120

2750

9'2"

2150

7'0"

, 5800

19'0"

2992

9'9"

21'4"

6510

40

5"

mm ft in

degree

mm

mm

ft in

mm

ft in

mm

ft in

mm ft in

mm ft in

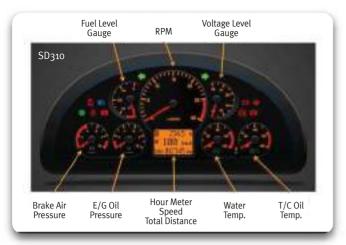
mm

ft in

degree

# Wheel Loader SD310

No. 1088, Xincheng Street. Muping Economic Developing Zone Yantai Shandong 264100 China Tel: +86-10-8454-7075 Fax: +86-535-470-7431



### **New Operator Panel**

The instrument panel has been changed to improve operator comfort and convenience.

#### Doosan DE08TIS engine ►

Fuel saving and environment friendly

low-speed engine, satisfying Tier-II emission standards. Our many years of experience in engine design and production have resulted in the emergence of a highly efficient and very powerful engine that boasts the highest power in its class.



Rearward Visual Field broadened by 20% The rear end of the device adopts streamline design which largely broadens the rearward visual field of the operator, improving not only the work efficiency but also safety.

# **Excellent Performance** for The Best Job

SD310 features powerful performance under poor working conditions with high efficiency and fuel saving operation. Well integrated high quality main components make it possible.

Fast Operating Speed Significantly improved work progress, reduced work time, and reached excellent perfectly balanced for optimal work efficiency.

**Tippling load** Tipping load of Doosan equipment greater than products from competitors for realizing stable digging work.

Strong Breakout Force Released through the best combination of hydraulic systems, under any working conditions, to create outstanding results.

**Tropical radiator** Tropical radiator applied to SD310 for allowing operation in tropical zones such as deserts in the Middle Fast, and keeping its performance high



Traction force far more excellent than products from competitors allowing exercise of powerful force during operation



Aluminum Radiator Aluminum radiator is stronger and better in quality than copper radiator. Aluminum radiator enhances reliability of



Air conditioning condenser assembled with radiator No electric fan motor for air conditioning condenser - Air conditioning condenser is integrated with radiator assembly and has less quality problems caused by electric



sub narts.

Quickly Changeable Brake Disc Brake disc can b

replaced quickly and easily without disassembling tires deeply shortening time and saving

time and labor cost

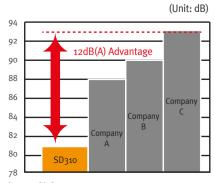


Solid Frame Structure The most advanced 3D CAD and FEM technologies are adopted in the analysis of technical design, greatly improving the strength, durability and reliability of the device.

Transmission Shaft : **Double Bearing Drive Shaft** - Double bearing supporting propeller shaft in dual configuration for improving reliability of propeller shaft. - Lubricating oil can be infused easily, enhancing the durability of the transmission shaft



Air Flow Increased by 30% Excellent air-conditioning system and air circulation function as well as perfect defrost system provide operator a more comfortable operating environment and more easy controlling methods to benefit from the above functions



Lower Noise Offering a quiet and comfortable working environment and improving efficiency. (SD310 - Indoor noise levels : 81dB, The noise level of the equipment outside : 112dB)



7F transmission Full automatic transmission for streamlined speed change with four forward gears and three backward gears.(SD310)

## **Features of DISD** wheel loader

• Stronger breakout force and tractive force, reflecting excellent performance in a high-load working environment. • Ideal operating speed and 40<sup>o</sup> steering angle, sharply improving work efficiency.

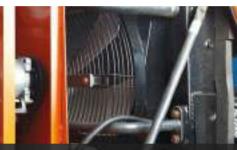
- Low-speed engine, saving more fuel for the device. • Reasonable matched top-end technology, ensuring a
- more reliable, durable and efficient device. • Noise reduction technology in line with international standards, providing operator with physical and mental protection, while bolstering work efficiency. • Industry leading cooling system, offering a guarantee for continuous and uninterrupted work under high temperatures. • Streamlined appearance and wide operating room, representing an international brand style.



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**Rear Wiper** In case of rain, a lot of dust in the work environment, improving rear visibility





**High Efficiency Cooling Fan** The cooling fan of non-isome ic blades can reduce noise and increase air flow.

Easy and Quick Adjustable Maintenance Window The 180° side-opened maintenance window provides a quick and direct view for inspection, largely saving daily monitoring and maintenance time





**Full Tilting of Engine Cover** With this one body engine cover, it is easy to repair engine and

Inspection for High/Low Hydraulic Oil Level Used to monitor the hydraulic oil level more easily to reduce ance time, improving device service lifetim

Outdoor Power switch Used to cut off battery power when necessary to enhance maintenance safety and conve while protecting the battery and extending battery life when the device is parked for a long time. (SD310, SD300, SD200)







Rear Lamp Embedded in count weight and protected from external impact (SD310)