

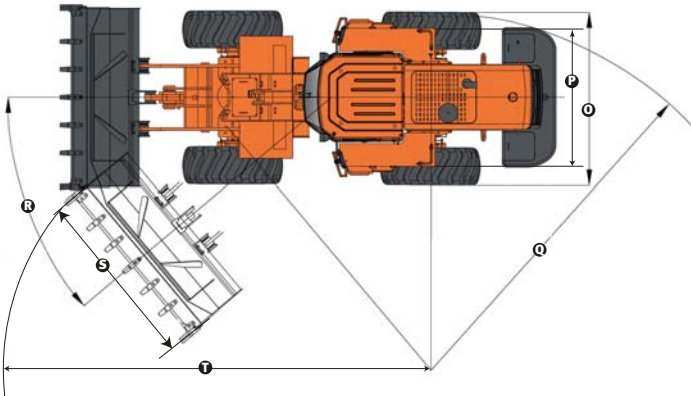
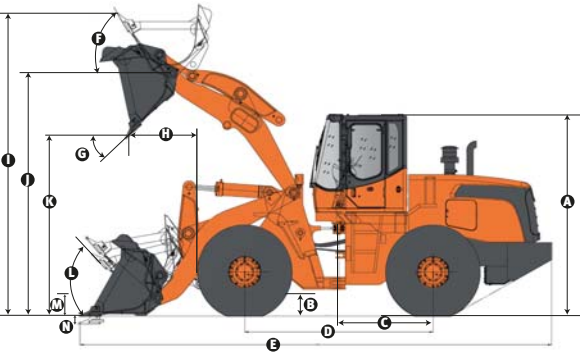
DISD

Wheel Loader SD310

Specification				
Overall working weight	kg	17,300	Front and Rear Axles	
Capacity heaped ISO/SAE	lb	38,140	TYPE	FULLY FLOATING PLANETARY-TYPE HUB DRIVE FIXED MOUNTING(FRONT) TRUNNION MOUNTING(REAR) PLANETARY
	m3	3.0		
Rated load	yd3	3.9	Final decelerate type	
	kg	5000		
Max traction force	Ton	17	Tyre	
Max breakout force (kN)	kN	161	Tyre specification	23.5 -25-16PR
	lbf	36,194		
Max gradability	Degree	30	Front tyre pressure	Mpa 0.38
Dump height (at 45 ^o) 1)	mm	3085	Rear type pressure	Mpa 0.34
(at fully raised)	ft in	10'1"	Steering System	
	mm	1,297	Type	Gear
Dump reach (at 45 ^o) 1)	ft in	4'2"		
Overall dimension(LxWxH)	mm	8260 × 2992 × 3450	Steering angle	degree 40
Engine			Min. turning radius (outside tires)	mm 5800
Model		Doosan DEo8TIS (TIER-II Certified)	Min. turning radius (outside bucket)	ft in 19'0"
Type		TURBO, DIRECT INJECTION		mm 6510
Number of cylinder		6		ft in 21'4"
Bore/stroke (mm)		111 X 139 (mm)	Hydraulic system	
Max torque		902 N.m/1300 rpm	System working pressure	bar 170
Rated power		160kW(215HP)/2,000 rpm		
Rated speed		2000 rpm	Boom lifting(full load)	sec ⚡ ~ 6.0
Min fuel consume ratio		215 g/kw.h @ RATED SPEED	Total time	sec ⚡ ~ 11.3
Transmission system			Brake system	
Torque converter type		Single Stage, Single phase, Three elements(single turbine)	Service brake	AIR PUSH HYDRAULIC
Torque ratio		2.142	Parking brake	SINGLE LINE SPRING-APPLIED AIR RELEASED DRUM BRAKE
Transmission type		4 SPEEDS, POWER-SHIFT, COUNTERSHAFT	Fill capacity	
Gear shift		4 forward shift , 3 back	Fuel	liter 330
Max speed	km/h	38.0 KPH		
			Hydraulic oil	liter 177

※ Specifications are subject to change without notice for quality improvement.

Dimension				
A. Height to top of cab and canopy	mm	3450	K. Dump height (at 45°) 1)	mm 3085
	ft in	11'3"	(at fully raised)	ft in 10'1"
B. Ground clearance	mm	420	L. Maximum rollback at ground	degree 45
	ft in	1'37"	Max. tilt angle at ground	
C. Machine center point to rear axle		1600	M. Hinge pin height at carry position	mm 500
D. Wheel base	mm	3200	N. Maximum digging depth	mm 120
	ft in	10'6"		ft in 5"
E. Overall length	mm	8260	O. width over tires	mm 2750
	ft in	27'1"		ft in 9'2"
F. MAX. TILT ANGLE (fully raised)	degree	60.5	P. Tread width	mm 2150
G. Bucket dump at full height	degree	49		ft in 7'0"
H. Dump reach (at 45°) 1)	mm	1297	Q. turning radius outside tires	mm 5800
(at fully raised)	ft in	4'2"		ft in 19'0"
I. Maximum overall height	mm	5713	R. Maximum steering angle (each side)	degree 40
J. Hinge pin height at full lift	mm	4150	S. Bucket width	mm 2992
	ft in	13'7"		ft in 9'9"
			T. Turning radius outside bucket	mm 6510
				ft in 21'4"

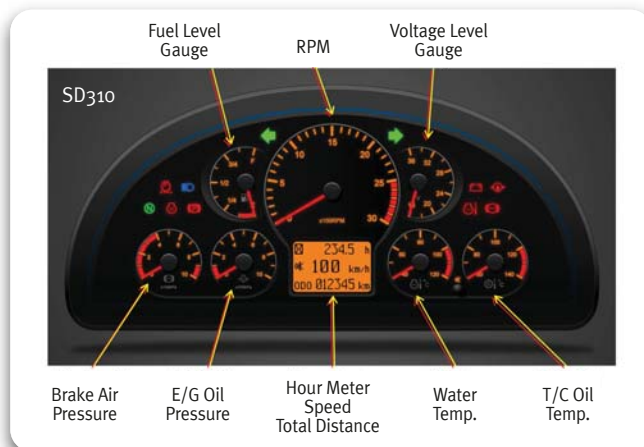


1) Measured to the tip of the bucket teeth or bolt-on edge.

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



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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.



<https://truckmanualshub.com/>



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.



Rear Wiper

In case of rain, a lot of dust in the work environment, improving rear visibility.



Sight in order to improve the design part

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.



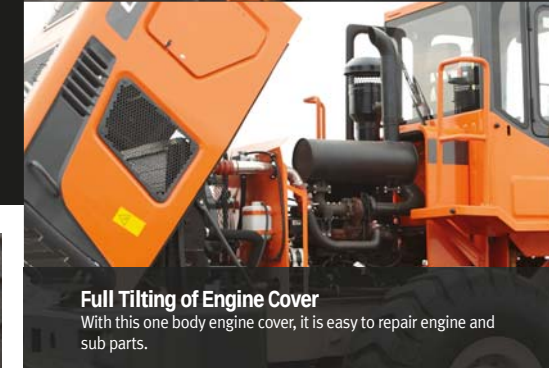
Quickly Changeable Brake Disc

Brake disc can be replaced quickly and easily without disassembling tires, deeply shortening the maintenance time and saving time and labor cost.



High Efficiency Cooling Fan

The cooling fan of non-isometric blades can reduce noise and increase air flow.



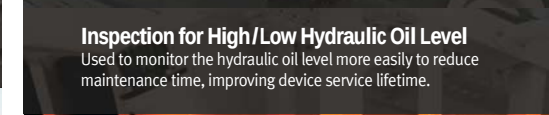
Easy and Quick Adjustable Maintenance Window

The 180°side-opened maintenance window provides a quick and direct view for inspection, largely saving daily monitoring and maintenance time.



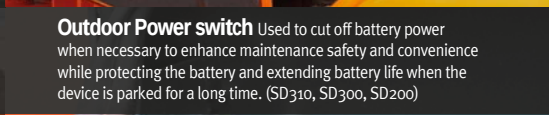
Full Tilting of Engine Cover

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



Inspection for High/Low Hydraulic Oil Level

Used to monitor the hydraulic oil level more easily to reduce maintenance time, improving device service lifetime.



Outdoor Power switch

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



Tipping 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 East, and keeping its performance high.



Traction force

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



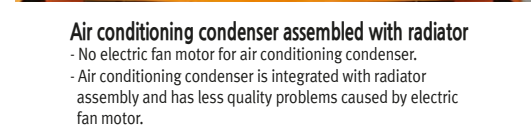
DISD in house axle

Axles developed by DISD proven of high quality and durability. In-house axle allowing rapid and stable part supply. (SD310)



Aluminum Radiator

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



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 fan motor.



Rear Lamp

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



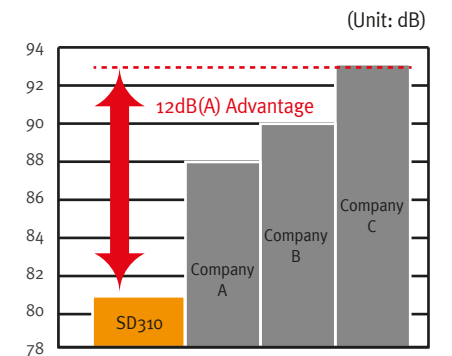
Air Flow Increased by 30%

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.



Cabin

- Enough space.
- Wide visual field.
- Noise inside cabin is lower than comparative units.
- Comfortable operating space.
- Multi-angle adjustable steering wheel.



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)



ZF 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°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.