Construction Equipment

SD200N SD300N

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Hyundai Doosan Infracore

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SD200N WILLING, CAPABLE AND LOADED

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NEW STYLE

• Applied new look with newly added LED lamp and Doosan decal, SD200N shows intense presence.

OVERALL CAPABILITY

- Matching between transmission and torque converter ensures maximum engine power.
- The fixed wheel transmission boasts stable performance, high reliability, a low failure rate and conveniently agile operation.

PROVEN SOLIDITY

- SD200N's advanced radiators enable lowering the hydraulic oil heat when equipment is in operation.
- All quick-wearing parts are equipped with wear-resistant sheaths. Doosan provides a good warranty policy and offer a one stop service.

SAFETY PRIORITY

 Doosan places great emphasis on your safety. A combination of our safe cabin design, top-grade rubber shock absorbers, specialized cushion pads, and drive system with a patented anti-vibration technology ensures operator safety.

SD200N STRENGTHENED CAPABILITY

START MOTOR

The newly-changed start-up mode of the motor and the enlarged CCA (Cold Cranking Amperes) capacity make it easy to start the motor in low-temperature environments.

ACCELERATION PERFORMANCE

The injection pump has undergone special debugging at a professional test bench and features greatly improved engine acceleration performance and speed.

INDUSTRY-LEADING HYDRAULIC PARTS

The system improves work efficiency and durability. Double pump minimizes power loss and make full use of power and energy.

PERFECTLY MATCHED POWER TRAIN

Engine, transmission and axles are optimized and finely tuned for each other and produce powerful traction force.

THREE WORK MODES FOR EFFICIENCY

Operator can select a work mode considering workload and fuel consumption for work.



ENGINE (WP6G125E22)

The perfect blend of efficiency and power. The Weichai engine produces 92 KW at 2,200 rpm. High power and appropriate torque range enables to precisely deliver the stable working speed. Engine has undergone specific adjustments under different working conditions, consuming less fuel, accelerating faster and delivering more power.

SIMPLIFIED MAINTENACE

EASY APPROACH

Maintenance windows have been added to each side of the engine hood. Making daily oil inspection and maintenance works quicker and more convenient.

TRIPLE FUEL FILTER

Triple fuel filters protect engine and fuel system from low quality fuel and make engine life longer. Highest efficiency filters remove water, dust & particles to protect your investment optimally.

LCD PANEL FOR ERROR CODE

LCD panel in the gauge panel shows error code and operator can recognize failures of the machine.

PROVEN TO LAST

TRANSMISSION SHAFT

Double bearing supports propeller shaft in dual configuration. Lubricating oil can be infused easily, enhancing the durability.

BUCKET STRENGTH

SD200N has improved

bucket strength with use of

high anti-abrasion materials

and increased thickness.

REINFORCED PIN BUSHING

To work best in the most severe work environment, diameter of 6 pins is thicker than competitors by 5 ~ 10 mm.

DURABILITY TEST

All vital components must pass extensive and stringent standard durability test.

RELIABLE HYDRAULIC COMPONENTS (MCV)

New solid main control valve has high precision machining, which lowers inside leakage and prolongs the service life.

WEAR-RESISTANT SHEATH

All easily wom-out parts are equipped with wear-resistant sheaths. Doosan provides a good warranty policy and offer a one stop service

DURABLE AXLE DESIGN

More durable materials and technology are applied to machining gears.

COOLING SYSTEM

By improving the layout and materials of the heatdissipation system, to aluminum plate fin-type.

AIR CLEANER FOR DUSTY ENVIRONMENT

Special air cleaner for extremely dusty environment is applied to prevent dust in the desert area from permeating into the engine.

COOLING SYSTEM

Cooling system is readily accessible for clean out and maintenance routine.

EASILY CHANGEABLE BREAK DISCS

The use of quick-change brake discs allows the user to check brake pads for excessive wear at any time and change the brake pads more easily without removing the tires.

SD200N COMFORT ON-BOARD

CABIN COMFORT

Ample space, wide visual field and intuitive features will guarantee a pleasant work. Cabin also reduces the noise and vibration significantly.

LED LAMP

Existing two front lamps and two rear lamps have been upgraded with LED. New additional working lamp contributes to enhanced safety through improved visibility.

ADJUSTABLE STEERING WHEEL

The adjustable steering wheel complies with ergonomic principles.

NEW OPERATOR PANEL

The new instrument gauge panel has been changed simple and intuitively to put essential information right in front of the operator.

ERGONOMICALLY DESIGNED PEDALS

The ergonomically designed pedals reduce fatigue and to lessen the load operator.

JOYSTICK LEVER

Highly intuitive joystick lever enables easier and safer operations.

DELUXE SEAT

High back, deep-seated position, dual armrests and multi-level spring shock absorption guarantee a comfortable operation.

ROTATING BEACON (OPTIONAL)

For enhanced safety rotating beacon is equipped SD200N as optional, which gives the warning alarm while driving

ALL AROUND VISIBILITY

Improved visibility to the Left and right bottom section of the front windshield for easy positioning of front wheels.





SD300N AGILE, ADAPTIVE AND ASSURED

FEARLESS STYLE

• Applied new look with distinctive design and reinforced structure. With newly added LED lamp and Doosan decal, SD300N shows intense presence and bold and assertive style.

SOUGON

PERFECTLY ORCHESTRATED WORKING FORCE

• SD300N's hydraulic system adopts double-pump confluence technology making full use of power and energy. Minimizing engine oil pressure load and power loss and enabling miniaturization of the hydraulic pump.

TIRELESS PARTNER IN TIMELESS QUALITY

- By using Doosan patented technology and a redesigned layout and materials, the cooling system significantly reduces hydraulic oil temperature and water temperature during operation.
- The hydraulic cylinder seals and hydraulic holes in important areas are all verified brand parts, effectively improving the reliability of the hydraulic system.



SD300N A NEW LEAP ON EFFICIENCY

GEAR BOX

The torque converter gearbox perfectly matches the engine, gearshift-shockimproving technology efficiently prolongs the service life of it.

ACCELERATION PERFORMANCE

The injection pump has undergone special debugging at a professional test bench and features greatly improved engine acceleration performance and speed.

INDUSTRY-LEADING HYDRAULIC PARTS

The system improves work efficiency and durability. Double pump minimizes power loss and make full use of power and energy.

PERFECTLY MATCHED POWER TRAIN

Engine, transmission and axles are optimized and finely tuned for each other and produce powerful traction force.

THREE WORK MODES FOR EFFICIENCY

Operator can select a work mode considering work-load and fuel consumption for work.



ENGINE (WD10G220E23)

The perfect match of efficiency and power. The Weichai engine produces 162 kW at 2,000 rpm. High power and appropriate torque range enables to precisely deliver the stable working speed. Engine has undergone specific adjustments under different working conditions, consuming less fuel, accelerating faster, and delivering more power.

SD300N SIMPLIFIED MAINTENACE

EASY APPROACH

Both sides of the hood can be opened to the side. Making daily oil inspection and maintenance works guicker and more convenient.

TRIPLE FUEL FILTER

Triple fuel filters protect engine and fuel system from low quality fuel and make engine life longer. Highest efficiency filters remove water, dust & particles to protect your investment optimally.

AIR CLEANER FOR DUSTY ENVIRONMENT

Special air cleaner for extremely dusty environment is applied to prevent dust in the desert area from permeating into the engine .

BUILT TO STAND THROUGH

REINFORCED PIN BUSHING

To work best in the most severe work environment, diameter of 6 pins is thicker than competitors by 5 ~ 10 mm.

TRANSMISSION SHAFT

Double bearing supports propeller shaft in dual configuration. Lubricating oil can be infused easily, enhancing the durability.

STRUCTURE PART

SD300N is made of high-strength steel and calculated by finite element analysis software. The box-shaped structure of the rear frame side plates and enhanced frame strength makes it easy to meet the challenge posed by harsh working conditions.

DURABLE AXLE DESIGN

More durable materials and technology are applied to machining gears.

LCD PANEL FOR ERROR CODE

LCD panel in the gauge panel shows error code and operator can recognize failures of the machine

COOLING SYSTEM

Cooling system is readily accessible for clean out and maintenance routine.

EASILY CHANGEABLE BREAK DISCS

The use of quick-change brake discs allows the user to check brake pads for excessive wear at any time and change the brake pads more easily without removing the tires.

BOOSTER PUMP ACCESS

As being mounted on the body's side, the booster pump delivers a higher augmented-thrust ratio, more stable braking performance and more convenient daily maintenance.

DURABILITY TEST

All vital components must pass extensive and stringent standard durability test.

JOINT BEARING

The method of articulating the front and rear frames has been replaced to joint bearings, effectively preventing loose and breakage.

SD300N OPERATOR COMFORT

CABIN COMFORT

Ample space, wide visual field and intuitive features will guarantee a pleasant work. Cabin also reduces the noise and vibration significantly.

LED LAMP

Existing front lamp has been upgraded to LED and totally six more lights have been added. Four additional LED lights on the front and two more on the back. New additional working lamp contributes to enhanced safety through improved visibility.

ADJUSTABLE STEERING WHEEL

The adjustable steering wheel complies with ergonomic principles

JOYSTICK LEVER

Highly intuitive joystick lever enables easier and safer operations.

SHOCK PAD

A new model of shock pad is used to provide stronger durability and reduced shock and noise, effectively relieving the operator's fatigue.

NEW OPERATOR PANEL

The new instrument gauge panel has been changed simple and intuitively to put essential information right in front of the operator.

ERGONOMICALLY DESIGNED PEDALS

The Ergonomically designed pedals reduces fatigue and to lessen the load operator.

DELUXE SEAT

High back, deep-seated position, dual armrests and multi-level spring shock absorption guarantee a comfortable operation.









TECHNICAL SPECIFICATION (SD200N)

ENGINE

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Model	Weichai WP6G125E22 (Tier 2)
Rated Power (SAE J1995 Gross)	92 kW (125 PS) @ 2,200 rpm
Max. Torque (SAE J1995 Gross)	500 N.m @ 1,400~1,500 rpm
Number of cylinders/bores/strokes	6 / 105 mm / 130 mm
Displacement	6.7 L
Fuel Consumption	215 g/kW.h @ RATED SPEED

5.

TRANSMISSION

Туре	4 speeds, power-shift,	4 speeds, power-shift, countershaft, engine				
	remote mounted with propeller shaft & damper					
Torque Converter Stall Ratio/Size 3.0 / 315 mm						

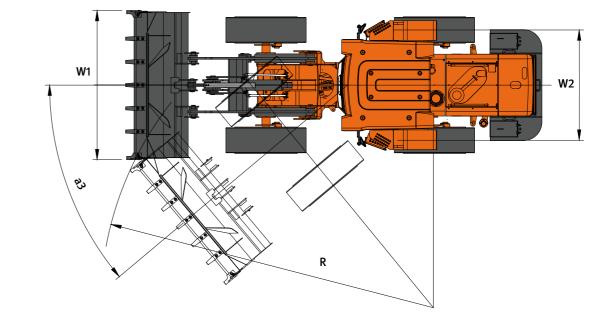
HYDRAULIC SYSTEM

Main Pump Type	Fixed gear
Main Pump Displacement	100 cc/rev
Max. Flow Rate	215 l/min

GENERAL SPECIFICATIONS

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Operating Weight	10.3 ton
Bucket Capacity (SAE HEAPED)	1.7 m ³
Payload	3,000 kg
Travel Speed (1/2/3/4)	8.5 / 13.0 / 24.0 / 37.0 km/h
Static Tipping Load (straight)	7,100 kg
System Pressure (Work/Steer)	170 / 140 kg/cm ²
Sound Level in CAB (2000/14/EC)	84 dB (A)
External Sound Power Level (2000/14	4/EC) 112 dB (A)
Fuel Tank Capacity	155 L
Tire Size	17.5 - 25 - 12 PR



ITEMS			UNIT	STD.	OPT 1	OPT 2	OPT 3
Operating W	eight		ton	10.3	10.37	10.42	10.44
Bucket Capacity (SAE HEAPED)		m³	1.7	1.7	2.2	2.2	
Arm				STD.	LONG	STD.	LONG
Breakout For	ce		kN	99	100.9	83.3	84.28
	Overall Length	A	mm	6,990	7,150	7,010	7,170
	Overall Width	W 1	mm	2,496	2,496	2,506	2,506
	Overall Height	D	mm	3,250	3,250	3,250	3,250
	Ground Clearance	С	mm	330	330	330	330
	Wheel Base	В	mm	2,700	2,700	2,700	2,700
	Tread	W2	mm	1,850	1,850	1,850	1,850
	Dump Height at 45° (with tooth)	F	mm	2,840	3,100	2,848	3,118
	Dump Reach at 45° (with tooth)	E	mm	1,240	1,134	1,270	1,160
	Max. Tilt Angle (on ground)	a1	degree (°)	45	45	45	45
	Max. Tilt Angle (fully raised)		degree (°)	60	60	60	60
Working	Max. Tilt Angle (at carry)		degree (°)	50	50	50	50
Range	Height at bucket pivot point	н	mm	3,770	4,040	3,770	4,040
	Digging Depth (o° level)		degree (°)	45	55	50	60
	Max. Steering Angle	a3	degree (°)	38	38	38	38
	Turning Radius (tire center)		mm	5,050	5,050	5,050	5,050
	External radius at bucket edge	R	mm	5,540			
Gradeability 9			% (°)	58 (30)			



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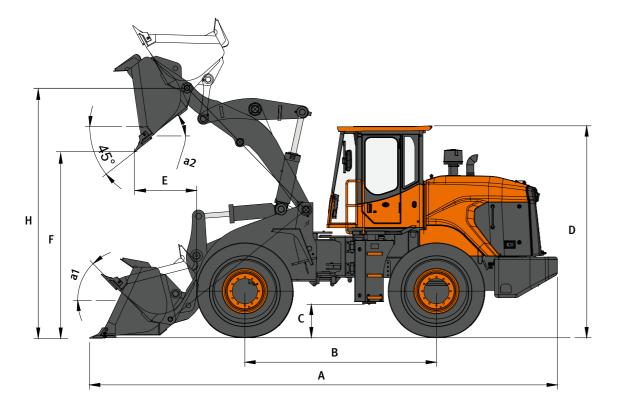
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DIMENSIONS & WORKING RANGE (SD200N)

TECHNICAL SPECIFICATION (SD300N)

DIMENSIONS & WORKING RANGE (SD300N)



ENGINE

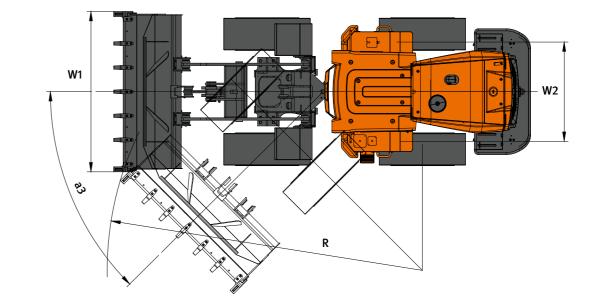
Model	Weichai WD10G220E23 (Tier 2)
Rated Power (SAE J1995 Gross)	162 kW (220 ps) @ 2,000 rpm
Max. Torque (SAE J1995 Gross)	980 N.m @ 1,300~1,500 rpm
Number of cylinders/bores/strokes	6 / 126 mm / 130 mm
Displacement	9.7 L
Fuel Consumption	≤215g/kW.h

TRANSMISSION

Туре	Single-style, two-phase, Four element, dual turbi			
Torque Co	onverter Stall Ratio/Size	4.1 / 315 mm		

GENERAL SPECIFICATIONS

Operating Weight	16.5 ton
Bucket Capacity (SAE HEAPED)	2.7 m ³
Payload	5,000 kg
Travel Speed (low/high)	12.2 / 38 km/h
Static Tipping Load (straight)	10,600 kg
System Pressure (Work/Steer)	170 / 160 kg/cm ²
Sound Level in CAB (2000/14/EC)	84.6 dB (A)
External Sound Power Level (2000/14/EC)	112 dB (A)
Fuel Tank Capacity	260 Litre
Tire Size	23.5 - 25 - 16 PR



ITEMS			UNIT	STD.	OPT 1	OPT 2	OPT 3
Operating Weight		ton	16.5	16.6	16.55	16.75	
Bucket Capa	city (SAE HEAPED)		m³	2.7	2.7	3.0	4.0
Arm				STD.	LONG	STD.	STD.
Breakout For	ce		kN	164	152	164	131
	Overall Length	A	mm	7,780	8,024	7,780	7,810
	Overall Width	W 1	mm	2,992	2,992	2,992	3,092
	Overall Height	D	mm	3,470	3,470	3,470	3,470
	Ground Clearance	С	mm	480	480	480	480
	Wheel Base	В	mm	2,900	2,900	2,900	2,900
	Tread	W2	mm	2,174	2,174	2,174	2,174
	Dump Height at 45° (with tooth)	F	mm	3,027	3,309	3,027	2,960
	Dump Reach at 45° (with tooth)	E	mm	1,338	1,325	1,330	1,310
	Max. Dump Angle (fully raised)	a2	degree (°)	48	48	48	48
	Max. Tilt Angle (on ground)	a1	degree (°)	45	45	45	45
	Max. Tilt Angle (fully raised)		degree (°)	60	60	60	60
Working Range	Max. Tilt Angle (at carry)		degree (°)	50	50	50	50
Runge	Height at bucket pivot point	н	mm	4,100	4,375	4,100	4,100
	Digging Depth (o° level)		degree (°)	94	94	94	64
	Max. Steering Angle	a3	degree (°)	38	38	38	38
	Turning Radius (tire center)		mm	6,015	6,015	6,015	6,015
	External radius at bucket edge	R	mm	6,680			
Gradeability			% (°)	58 (30)			

HYDRAULIC SYSTEM

Main Pump Type	Fixed gear
Main Pump Displacement	100 cc/rev
Max. Flow Rate	215 l/min