Construction Equipment

SD300-3
SD200-3
SD200-3C

Photos may include optional equipment

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Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) foryour individual Doosan equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of Doosan units may show other than standard equipment

DOOSAN

Hyundai Doosan Infracore

489 Injung-ro, Dong-gu, Incheon, South Korea
http://global.doosanequipment.com

DIPBE-00-2206

SD300-3

PROVEN CAPABILITY AND EXPANSIVE POSSIBILITY

NEW LOOK & ENHANCED STRUCTURE

· Applied new look with streamlined appearance and reinforced structure. With newly added LED lamp, SD300-3's design represent a bold and functional brand style.

PRODUCTIVITY & PERFORMANCE

· Increased engine power, stronger breakout force and traction force combined for overwhelming performance.

RELIABILITY AND DURABILITY

· Single layer radiator works effectively even in dusty environment and prevent engine from overheating.

· Triple fuel filters reduce the risk of external engine contamination and lengthen the engine's lifespan.

· Steel structure such as frame and front is designed by FEM technology to be countlessly tested and verified.

OPERATOR COMFORT

· Newly designed cabin is spacious and provides wider view and enhanced safety, with low noise & vibration levels and excellent all-round visibility.

SD300-3
RIGHT PERFORMANCE IN RIGHT PACE

STABLE WORK
Longer wheel-base and arranged assembly design to makes center of gravity positioned rearward helps work more stable.

SMALLER TURNING RADIUS AND AGILITY
Larger steering angle (40°) makes smaller turning radius. Small turning radius offers flexibility for operator to adapt in a confined space.

PERFECTLY MATCHED POWER TRAIN
Engine, transmission and axles are optimized and finely tuned for each other and produce powerful traction.

OPTIMIZED Z BAR FRONT
Z bar front and hydraulic system is designed for heavy loads. This geometry enables rapid bucket movements, ensures correct angle positioning and good loader stability.

THREE WORK MODES FOR EFFICIENCY
Operator can select a work mode considering work-load and fuel consumption for work.

ENGINE (WP10G210E343)
Advanced new engine delivers high performance while still satisfying tier 3 emission. High power of 154kw and torque range enables to precisely deliver the stable working speed. With excellent fuel efficiency, reliability and long service life, it combines exceptional power output and high torque at low revs.

SD300-3
EASY MAINTENANCE

EASY APPROACH
Easy approach to the filters in the engine room and brake system for simple maintenance.

TRIPLE FUEL FILTER
Highest efficiency filters remove water, dust & particles to protect your engine optimally. Triple fuel filters reduce the risk of external engine contamination and lengthen the engine's lifespan.

AIR CLEANER
Air cleaner for extremely dusty environment is applied to prevent dust in the desert area from permeating into the engine.

LCD WINDOW FOR ERROR CODE
LCD window in the gauge panel shows error code and operator can recognize failures of the machine.

OIL LEVEL MONITOR
Used to monitor the hydraulic oil level more easily to reduce maintenance time, improving device service life-time.

REINFORCED DURABILITY

COOLING PERFORMANCE
The patented cooling system offers a guarantee for continuous and uninterrupted work under high temperatures.

DURABLE AXLE DESIGN
More durable materials and technology were applied to machining gears.

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

DURABILITY TEST
Doosan SD Wheel Loaders are All vital components must pass extensive and stringent standard durability test.

REINFORCED PINS
Where workload are most severe, diameter of 6 pins is thicker than competitors by 5 ~ 10 mm.

SOLID FRAME STRUCTURE
3D CAD and FEM technologies are adopted in the analysis of technical design. Improving the strength, durability and reliability of the device.

RELIABLE HYDRAULIC COMPONENTS
This components provides delicate control, less internal leak and longer service life.

REINFORCED BUCKET
A bushing made of wear-resistant material improve wear resistance and lubricity.

SD300-3

BALANCE OF FUNCTION FOR OPERATOR CONCENTRATION

NEWLY DESIGNED CABIN
Ample space, wide visual field and intuitive features will guarantee a pleasant work. Cabin also offers significant noise and vibration reduction.

AIR FLOW INCREASED BY 30%
Offering high-performance air conditioning system, electronically controlled according to the environmental conditions.

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

JOYSTICK LEVER
Highly intuitive joystick lever enables easier and safer operations.

ADVANCED ENJOYMENT SYSTEM
MP3+radio, SD card and USB slot add enjoyment to operator's work conditions.

ERGONOMICALLY DESIGNED PEDAL
- Lessen the load of operator.
- The adjusted pedal angle relieves the pressure on ankle and joints, reducing operator's fatigue.

LED LAMP FOR IMPROVED VISIBILITY
Existing front lamp has been upgraded to LED and totally six more lights have been added. Two additional LED lights and cables on the front and four more on the back.

SD200-3

VERSATILE, RELIABLE AND COMFORTABLE WHEEL LOADER

PRODUCTIVITY & PERFORMANCE

· Increased engine power, stronger breakout force and traction force combined for overwhelming performance.

RELIABILITY AND DURABILITY

· Stronger breakout force and tractive force shows superior performance in the high load working environment.

· Smaller turning radius with 40-degree steering improve working efficiency.

· Three engine modes are provided for operator can select an engine mode considering work-load and fuel consumption for work.

· Single layer radiator works effectively even in dusty environment and prevent engine from overheating.

· Industry leading cooling system, offering a guarantee for continuous and uninterrupted work under high temperatures.

SD200-3
RIGHT PERFORMANCE IN RIGHT PACE

STABLE WORK
Longer wheel-base and arranged assembly design to makes center of gravity positioned rearward helps work more stable.

SMALLER TURNING RADIUS AND AGILITY
Larger steering angle (40°) makes smaller turning radius. Small turning radius offers flexibility for operator to adapt in a confined space.

PERFECTLY MATCHED POWER TRAIN
Engine, transmission and axles are optimized and finely tuned for each other and produce powerful traction.

OPTIMIZED Z BAR FRONT
Z bar front and hydraulic system is designed for heavy loads. This geometry enables rapid bucket movements, ensures correct angle positioning and good loader stability.

THREE WORK MODES FOR EFFICIENCY
Operator can select a work mode considering work-load and fuel consumption for work.

ENGINE (WP6G125E332)
The engine produces 92 kw at 2,200 rpm. High power and impressive torque range enables to precisely deliver the stable working speed. Perfectly harmonized with the hydraulic system and provides strong power delivers maximum productivity and profitability and at the same time.

SD200-3
EASY MAINTENANCE

EASY APPROACH
Easy approach to the filters in the engine room and brake system for simple maintenance.

AIR CLEANER
Air cleaner for extremely dusty environment is applied to prevent dust in the desert area from permeating into the engine.

LCD WINDOW FOR ERROR CODE
LCD window in the gauge panel shows error code and operator can recognize failures of the machine.

OIL LEVEL MONITOR
Used to monitor the hydraulic oil level more easily to reduce maintenance time, improving device service life-time.

TRIPLE FUEL FILTER
Highest efficiency filters remove water, dust & particles to protect your engine optimally. Triple fuel filters reduce the risk of external engine contamination and lengthen the engine's lifespan.

REINFORCED DURABILITY

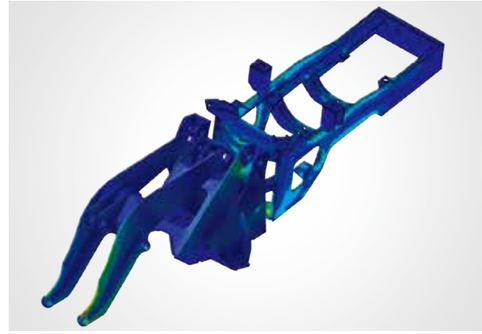
COOLING PERFORMANCE
The patented cooling system offers a guarantee for continuous and uninterrupted work under high temperatures.

REINFORCED PINS
Where workload are most severe, diameter of 6 pins is thicker than competitors by 5 ~ 10 mm.

DURABLE AXLE DESIGN
More durable materials and technology were applied to machining gears.

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

DURABILITY TEST
Doosan SD Wheel Loaders are All vital components must pass extensive and stringent standard durability test.



SOLID FRAME STRUCTURE
3D CAD and FEM technologies are adopted in the analysis of technical design. Improving the strength, durability and reliability of the device.

RELIABLE HYDRAULIC COMPONENTS
This components provides delicate control, less internal leak and longer service life.

SD200-3

BALANCE OF FUNCTION FOR OPERATOR CONCENTRATION

CABIN COMFORT

Ample space, wide visual field and intuitive features will guarantee a pleasant work. Cabin also offers significant noise and vibration reduction.

AIR FLOW INCREASED BY 30%

Offering high-performance air conditioning system, electronically controlled according to the environmental conditions.

JOYSTICK LEVER

Highly intuitive joystick lever enables easier and safer operations.

NEW OPERATOR PANEL

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

ADVANCED ENJOYMENT SYSTEM

MP3+radio, SD card and USB slot add enjoyment to operator’s work conditions.

ERGONOMICALLY DESIGNED PEDAL

- lessen the load of operator.
- The adjusted pedal angle relives the pressure on ankle and joints, reducing operator's fatigue.

PRODUCTIVITY & PERFORMANCE

- The fixed wheel transmission boasts stable performance, high reliability and conveniently agile operation.

- Longer wheel-base and arranged design to make center of gravity positioned rearward helps SD200-3C work more stable.

RELIABILITY AND DURABILITY

- “93 dust air filter”, effectively reduces the engine failure rate, realizing high efficiency and energy saving together with the large-capacity torque converter.

- The advanced Doosan drive axle and improved differential gear process increased gear flexural strength, enhancing the reliability of the drive axle and extending its lifespan.

SD200-3C

EASY SOLUTION FOR YOUR WORK

SD200-3C

BIGGER EFFICIENCY

SMALLER TURNING RADIUS AND AGILITY
Larger steering angle (38°) makes smaller turning radius. Small turning radius offers flexibility for operator to adapt in a confined space.

PERFECTLY MATCHED POWER TRAIN
Engine, transmission and axles are optimized and finely tuned for each other and produce powerful traction.

OPTIMIZED Z BAR FRONT
Z bar front and hydraulic system is designed for heavy loads. This geometry enables rapid bucket movements, ensures correct angle positioning and good loader stability.

ENGINE (WP6G125E332)
The engine produces 92 kW at 2,200 rpm. weichai engine is adopted for strong power. pumps with large displacement are equipped, which greatly increases working efficiency and decreases fuel consumption and noise, together with short total cycle time.

SD200-3C

HANDY MAINTENANCE / OPERATOR COMFORT

EASY APPROACH
Easy approach to the filters in the engine room and brake system for simple maintenance.

DUAL FUEL FILTER
Highest efficiency filters remove water, dust & particles to protect your engine optimally. Dual fuel filters reduce the risk of external engine contamination and lengthen the engine's lifespan.

AIR CLEANER
Air cleaner for extremely dusty environment is applied to prevent dust in the desert area from permeating into the engine.

OIL LEVEL MONITOR
Used to monitor the hydraulic oil level more easily to reduce maintenance time, improving device service life-time.

ROTATING BEACON
For enhanced safety rotating beacon is equipped in SD200-3C as standard, which gives the warning alarm while driving.

FIRM AND LASTING QUALITY

REINFORCED PINS
Where workload are most severe, diameter of 6 pins is thicker than competitors by 5 ~ 10 mm

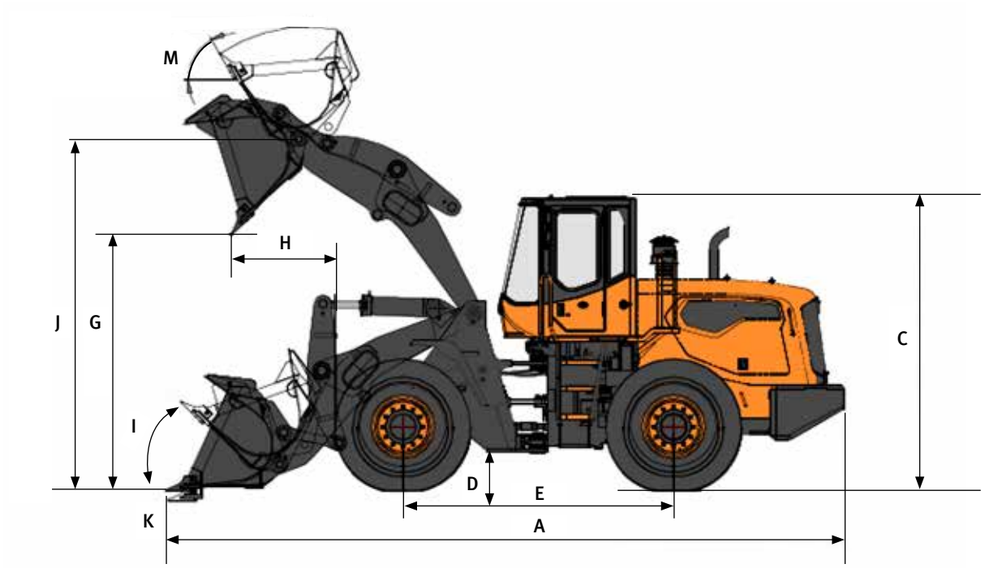
RELIABLE HYDRAULIC COMPONENTS
This components provides delicate control, less internal leak and longer service life.

DURABLE AXLE DESIGN
More durable materials and technology were applied to machining gears.

IMPROVED PIPE WELDING
New and improved welding process is applied to high pressure pipes.

SOLID FRAME STRUCTURE
3D CAD and FEM technologies are adopted in the analysis of technical design. Improving the strength, durability and reliability of the device.

TECHNICAL SPECIFICATION (SD300-3)



ENGINE

Model	Weichai WP10G210E343
Rated Power (SAE J1995 Gross)	154 kW (210 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	9,726 cc
Fuel Consumption	225 g/kW.h @ rated speed

TRANSMISSION

Type	2 Speed, Power-shift, Planet, Engine remote mounted with propeller shaft & damper.
Torque Converter Stall Ratio/Size	4.1 / 315 mm

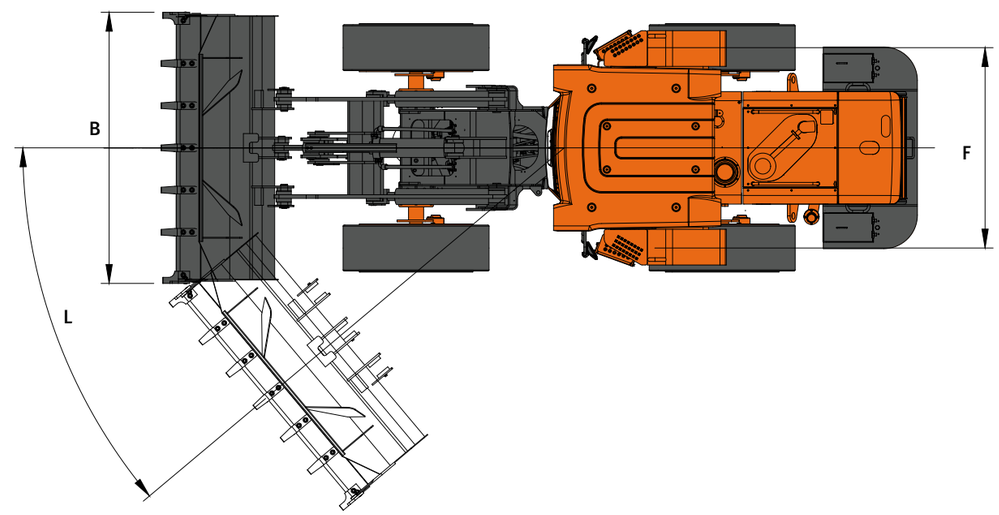
HYDRAULIC SYSTEM

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

GENERAL SPECIFICATIONS

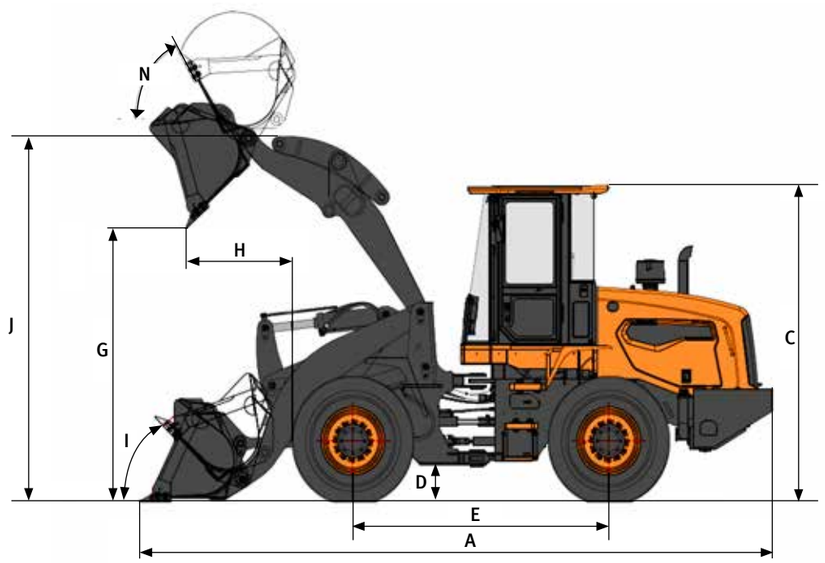
Operating Weight	17 ton
Bucket Capacity (SAE HEAPED)	2.7 m^3
Payload	5 ton
Travel Speed (Low / High)	11 / 36 km/h
Static Tipping Load (straight)	11,300 kg
System Pressure (Work/Steer)	170/140 kg/cm^2
Sound Level in CAB (2000/14/EC)	80.8 dB (A)
External Sound Power Level (2000/14/EC)	109.5 dB (A)
Fuel Tank Capacity	300 Litre
Axle Type	Fully Floating Planetary - Type Hub Drive
Tire Size	23.5 - 25 - 16 PR

DIMENSIONS & WORKING RANGE (SD300-3)



ITEMS			UNIT	STD.	OPT 1	OPT 2	OPT 3
Operating Weight			ton	17	17.1	17.3	17.2
Bucket Capacity (SAE HEAPED)			m^3	2.7	3.0	2.7	4.0
Arm				STD.	LONG	STD.	STD.
Breakout Force			ton	16.2	15.9	16.2	13.4
Dimension	Overall Length	A	mm	8,080	8,445	8,122	8,107
	Overall Width	B	mm	2,992	2,992	2,992	2,992
	Overall Height	C	mm	3,450	3,450	3,450	3,450
	Ground Clearance	D	mm	420	420	420	420
	Wheel Base	E	mm	3,200	3,200	3,200	3,200
	Tread	F	mm	2,174	2,174	2,174	2,174
Working Range	Dump Height at 45° (with tooth)	G	mm	3,089	3,384	3,117	3,012
	Dump Reach at 45° (with tooth)	H	mm	1,308	1,366	1,335	1,276
	Max. Dump Angle (fully raised)		degree (°)	49	49	49	49
	Max. Tilt Angle (on ground)	I	degree (°)	45	45	45	45
	Max. Tilt Angle (at fully raised)	M	degree (°)	59	59	59	59
	Max. Tilt Angle (at carry)		degree (°)	50	50	50	50
	Height at bucket pivot point	J	mm	4,150	4,450	4,150	4,150
	Digging Depth (o° level)	K	mm	120	200	122	90
	Max. Steering Angle	L	degree (°)	40	40	40	40
	Turning Radius at out tire edge		mm	5,630	5,630	5,630	5,630
Gradeability			% (°)	58 (30)			

TECHNICAL SPECIFICATION (SD200-3)



ENGINE

Model	Weichai WP6G125E332
Rated Power (SAE J1995 Gross)	92 kW (125 ps) @ 2,200 rpm
Max. Torque (SAE J1995 Gross)	540 N.m @ 1,300~1,500 rpm
Number of cylinders/bores/strokes	6 / 105 mm / 130 mm
Displacement	6.7 L
Fuel Consumption	215 g/kW.h @ rated speed

HYDRAULIC SYSTEM

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

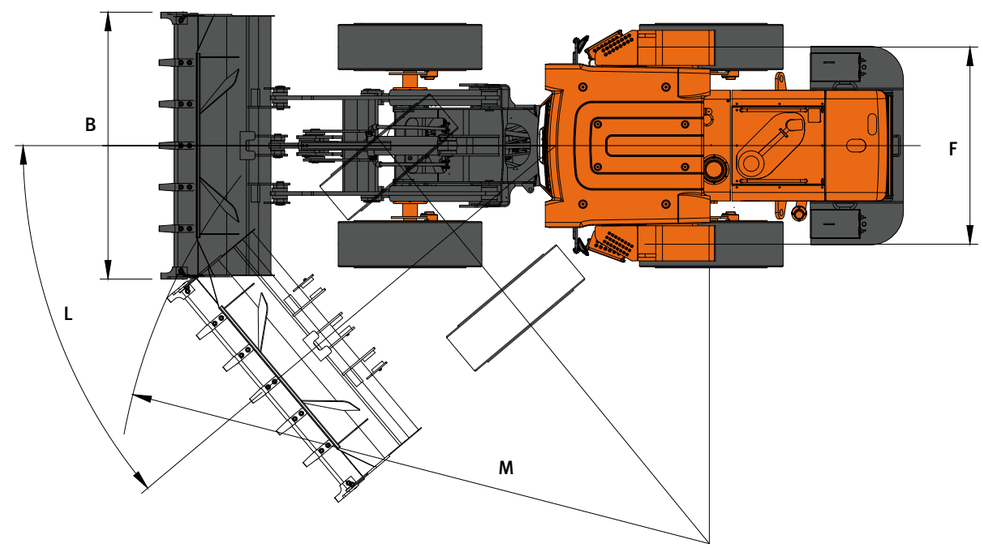
GENERAL SPECIFICATIONS

Operating Weight	10.3 ton
Bucket Capacity (SAE HEAPED)	1.7 m^3
Travel Speed (1/2/3/4)	8.5 / 13.0 / 24.0 / 37.0 km/h
System Pressure (Work/Steer)	175/140 kg/cm^2
Payload	3.0 ton
Static Tipping Load (straight)	7,850 kg
Sound Level in CAB (ISO 6396)	81.2 dB (A)
External Sound Power Level (2000/14/EC)	109 dB (A)
Fuel Tank Capacity	150~155 L
Axle Type	fully floating planetary-type hub drive fixed mounting
Tire Size	17.5 - 25 - 12 PR

TRANSMISSION

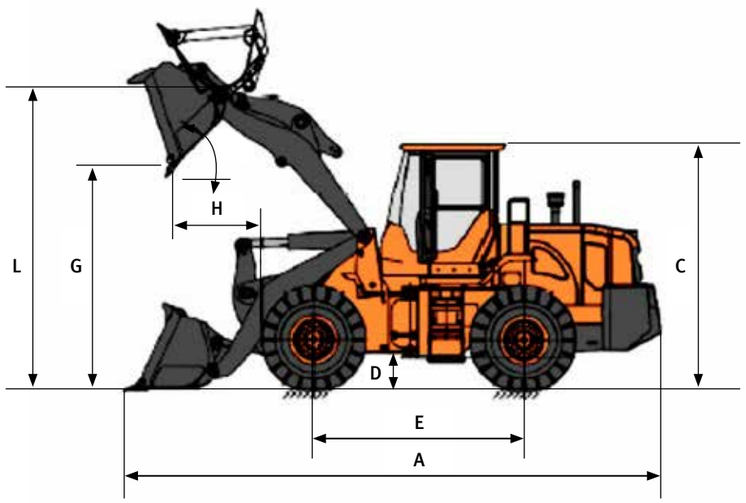
Type	4 speed, Power-shift, Countershaft, Engine remote mounted with propeller shaft & damper
Torque Converter Stall Ratio/Size	3.0 / 315 mm

DIMENSIONS & WORKING RANGE (SD200-3)



ITEMS			UNIT	STD.	OPT 1	OPT 2	OPT 3
Operating Weight			ton	10.3	10.4	10.35	10.48
Bucket Capacity (SAE HEAPED)			m^3	1.7	1.7	2.2	2.2
Arm				STD.	LONG	STD.	LONG
Breakout Force			kN	99	104.9	101.9	101.9
Dimension	**Overall Length**	**A**	mm	6,990	7,140	7,000	7,160
	Overall Width	**B**	mm	2,496	2,510	2,510	2,510
	Overall Height	**C**	mm	3,250	3,250	3,250	3,250
	Ground Clearance	**D**	mm	330	330	330	330
	Wheel Base	**E**	mm	2,830	2,830	2,830	2,830
	Tread	**F**	mm	1,850	1,850	1,850	1,850
Working Range	**Dump Height at 45° (with tooth)**	**G**	mm	2,840	3,100	2,848	3,118
	Dump Reach at 45° (with tooth)	**H**	mm	1,240	1,134	1,270	1,160
	Max. Tilt Angle (on ground)	**I**	degree (°)	45	45	45	45
	Max. Tilt Angle (at fully raised)	**N**	degree (°)	60	60	60	60
	Height at bucket pivot point	**J**	mm	3,770	4,040	3,770	4,040
	Digging Depth (o° level)	**K**	mm	45	55	50	60
	Max. Steering Angle	**L**	degree (°)	40	40	40	40
	External radius at bucket edge	**M**	mm	5,710	5,710	5,780	5,780
	Turning Radius (tire center)		mm	5,090	5,090	5,090	5,090
Gradeability			% (°)	58 (30)			

TECHNICAL SPECIFICATION (SD200-3C)



ENGINE

Model	Weichai WP6G125E332
Rated Power (SAE J1995 Gross)	92 kW @ 2,200 rpm
Max. Torque	540 N.m

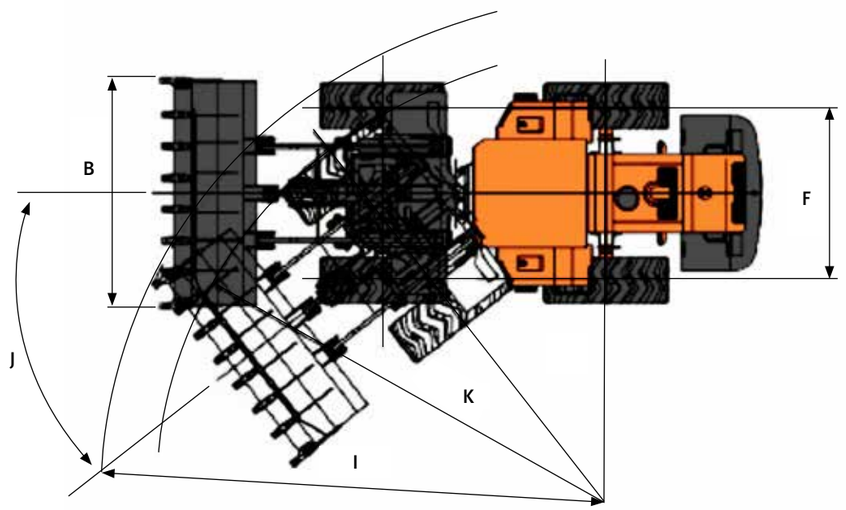
TRANSMISSION

Torque Converter	Countershaft power shift
Torque Converter Type	Single-Stage Three elements
Torque	650N.m
Rated RPM	2,200 rpm
Transmission ratio	Fi1=3.82 / Fi2=2.08 / Fi3=1.09 / Fi4=0.59

GENERAL SPECIFICATIONS

Operating Weight	10,340 kg
Bucket Capacity	1.8 m^3
Breakout Force	93±7 kN
Payload	3,000 kg
Static Tipping Load (straight)	73 kN
Max. Speed	39.5 km/h
Front Speed (Raise / Dump / Lower)	≤ 9.8, (Arm lift ≤ 5.9)
Max. tractive Effort	100 kN
Axle Type	Dry type
Tire Type	Bias Tire
Tire size / inside / PR / pattern	17.5-25 / Tube / 12PR / standard
Engine Cover Type	backflip
Steering System	Articulated load-sensing hydraulic steering system
Hydraulic System Control	Pilot type

DIMENSIONS & WORKING RANGE (SD200-3C)



Dimension	**Machine Dimensions (A*B*C)**		mm	7,010 * 2,520 * 3,180
	Overall Length	A	mm	7,010
	Overall Width	B	mm	2,520
	Overall Height	C	mm	3,180
	Ground Clearance	D	mm	370
	Wheel Base	E	mm	2,850
	Tread	F	mm	1,850
Working Range	**Dump Height**	G	mm/°	2,960 / 45
	Dump Reach	H	mm/°	1,040 / 45
	Height at bucket pivot point	L	mm	3,795
	External radius at bucket edge	I	mm	5,950
	Turning Radius (tire edge)	K	mm	5,346
	Steering Angle	J	degree (°)	38±1
Gradeability			% (°)	30