# **We are DEVELON**

We trace our roots to 1937 as one of Korea's first large scale machine plant. Throughout time we have consistently delivered exceptional products and solutions.

DEVELON is a bold name that reflects our core ambition to continue developing onwards and leaving behind a positive footprint in our world. Moving forward, we seek to be part of our customers and partners' endeavor to build a better world.

## Powered by Innovation



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develon-ce.com

# **SD200** SD300H



# **SD200**

# SOLID-BASED, SPORTY PLAYER

#### **BALANCED POWER, TUNED EFFICIENCY**

- Ideal operating speed and 40-degree steering angle, sharply improve work efficiency.
- SD200 armed with stronger breakout force and tractive force, reflecting its excellent performance in a high-load working environment.

#### **BUILT FOR ALL CONDITION**

- Reasonable matched technology, ensures a more reliable and durable equipment.
- Industry leading cooling system, guarantees continuous and uninterrupted work under high temperatures.

#### ALL AROUND SAFETY AND COMFORT

- Noise reduction technology complying with international standards provides protection and boosts work efficiency.
- Newly designed cabin is spacious and provides wider view and enhanced comfort.



## SD200 CERTIFIED PERFORMANCE



#### 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.

### SD200 REINFORCED DURABILITY

#### 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.

#### **PROVEN DURABILITY**

SD200's working attachments and articulated pin are properly matched in size and are optimally positioned in force bearing area.

#### **TRANSMISSION SHAFT**

Double bearing supporting propeller shaft in dual configuration improves machine's reliability. Lubricating oil can be infused easily, enhancing the durability.

# **EASY MAINTENANCE**

#### **ENGINE COVER**

Engine cover part is integrated in one-piece. United cover makes it easy to repair engine and sub parts.

#### **EASY APPROACH**

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

#### CONVENIENT INSPECTION ON HYDRAULIC LEVEL

Monitoring the hydraulic oil level was made easier, to reduce maintenance time and to improve device service lifetime.

#### **ALUMINUM RADIATOR**

SD200 used aluminum radiator, which is stronger and guarantees better quality than copper, enhancing the machine reliability.

#### **COOLING PERFORMANCE**

The patented cooling system offers continuous and uninterrupted work under high temperatures.

#### **HIGHLY EFFICIENT COOLING FAN**

The cooling fan made up of varied sized blades, efficiently reduces noise and increases air flow.

#### **QUICKLY 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.

#### **OUTDOOR POWER SWITCH**

To enhance maintenance safety and convenience, power switch is equipped on outdoor to cut off battery power when needed.

## **SD200** WELCOMING AND PERSONAL SPACE

#### **CABIN COMFORT**

Ample space, wide visual field and intuitive features will guarantee a pleasant work. Noise inside cabin is lower, comfortable working space with multi angle adjustable steering wheel.

#### **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.

#### **ERGONOMICALLY DESIGNED PEDAL**

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.







#### **BRIGHT AND VERSATILE, WITH ACCELERATED PERFORMANCE**

- Reasonable match between transmission and torque converter fully play engine power enable the whole machine to deliver stronger traction.
- With 3,200mm wheelbase and 5,630mm turning radius, SD300 is specially designed for light materials. It enables greater agility and more efficient operation.

#### **RELIABLE PARTNER WITH EFFICIENT COOLING SYSTEM**

- The advanced drive axle and improved differential bevel gear have increased gear flexural strength, which enhances the reliability of the drive axle and extending its lifespan.
- · By using Develon patented technology and a redesigned layout with materials, the cooling system significantly reduces hydraulic oil and water temperature during operation.

#### WELL-APPOINTED INTERIOR AND WELL SECURED SAFETY

- Noise reduction technology complying with international standards provides protection and boosts work efficiency.
- Newly designed cabin is spacious and provides wider view and enhanced comfort.

DEVELON

# **SD300 PROPELLING HELPER PREPARING ALL THE WAY**

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## SD300 RIGHT PERFORMANCE IN RIGHT PACE

#### **PERFECTLY MATCHED POWER TRAIN**

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

#### 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.

#### **ACCELERATION PERFORMANCE**

The injection pump has undergone special test and features greatly improved engine acceleration performance and speed.

#### SHORTENED HYDRAULIC SYSTEM ACTION TIME

Short system action time leads to a shorter operation cycle and greater efficiency.



#### ENGINE (WD10G220E23)

Greater engine outputs of 162kw and impressive torque enables to precisely deliver the power you need. The fitted engine has been adjusted to various condition and offers lower fuel consumption in commonly used operating states.



### SD300 REINFORCED DURABILITY

#### **DURABLE AXLE DESIGN**

More durable materials and technology were applied to machining gears.

#### **REINFORCED PINS**

The hinge pins for operating devices in 6 positions have a radius of 5-10mm larger than similar products in the industry.

#### SOLID FRAME STRUCTURE

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

#### SOLID MAIN CONTROL VALVE

New pilot main control valve, which lowers inside leak and prolongs the service life. A pilot filter is added to increase the reliability of pilot system.

## **EASY MAINTENANCE**

#### **ENGINE COVER**

Engine cover part is integrated in one-piece. United cover makes it easy to repair engine and sub parts.

#### LCD PANEL FOR ERROR CODE

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

#### 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.

#### **SWING FRAME CONNECTION**

Connecting parts of swing frame adopt a reinforced design to offer greater strength.

#### **TRANSMISSION SHAFT**

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

#### **BOX SHAPED**

Rear frame side plates' box-shaped structure allows enhanced frame strength.

#### **BOOSTER BUMP**

The booster pump delivers a higher augmented-thrust ratio and more stable braking performance.

#### EASY APPROACH

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

# CONVENIENT INSPECTION ON HYDRAULIC LEVEL

Monitoring the hydraulic oil level was made easier, to reduce maintenance time and to improve device service lifetime.

## **SD300 OPTIMIZED WORKSPACE**

#### **CABIN COMFORT**

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

#### 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.

#### **ENTERTAINMENT SYSTEM**

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

#### **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.

#### **ALL AROUND VISIBILITY**

Improved visibility on the bottom section of the front windshield enables easy positioning of front wheels.

#### **DELUXE SEAT**

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











# **SD300H** PROACTIVE SOLUTION YOU NEEDED

#### ENERGY EFFICIENT

• Advanced hydraulic system conduct efficient work, fully utilizing pump with the dual pump confluence technology.

Minimal shift shock and excellent power transmission by applying ZF automatic powershift transmission.

#### **HIGH RELIABILITY**

High strength structure with the adoption of stress calculation and strict quality testing ensure that all our components and parts are safe and reliable.

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, increasing hydraulic system reliability.

#### **DESIGN & COMFORTABILITY**

Interior of the cabin features an ergonomic design comprising a large operational space, a wide visual field and a user-friendly control unit.

## SD300H FORERUNNER OF EFFICIENCY

#### **ACCELERATION PERFORMANCE**

The injection pump and features have undergone special test and greatly improved engine acceleration performance and speed.

#### **ENERGY SAVING HYDRAULIC PARTS**

High quality hydraulic steering unit efficiently arranges the surplus hydraulic oil to working units depending on working condition.

#### TRASNSMISSION BOX WITH TORQUE CONVERTER

The ZF automatic transmission box with electrohydraulic control is applied, and 4 forward and 3 reverse multi-gear functions can meet the needs of different working conditions. It matched perfectly with engine and the traction 14% higher than the industry average with easier shovel operations and increased efficiency.

#### **COOLING SYSTEM**

SD300H's unique patented cooling technology greatly reduces hydraulic oil and coolant temperature during the machine's operation time, thus resolving the high temperature problem.



#### ENGINE (WD10G220E23)

High output of 162 kW is produced by 2,000 rpm. Improving fuel efficiency by using lower rated RPM than competitors. This also reduces engine noise and increases durability.

## SD300H HIGH DURABILITY

#### SOLID FRAME STRUCTURE

High strength steel is used for structural parts and stress calculation by using FEM software is carried out so as to ensure that the strength of structural parts may meet the requirements under the worst and heaviest working conditions.

#### **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.

# **EASY MAINTENANCE**

#### FULLY ACCESSIBLE ENGINE COVER

Excellent maintainability and ground access by applying gull wing type engine covers with wide opening.

#### **QUICKLY 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.

#### **PRE-HEATER**

Added engine preheating device and the enlarged CCA(Cold Cranking Amperes) capacity make it easy to start the motor in low-temperature environments.

#### SOLID MAIN CONTROL VALVE

New pilot main control valve, which lowers inside leak and prolongs the service life. A pilot filter is added to increase the reliability of pilot system.

#### LCD PANEL FOR ERROR CODE

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

#### CONVENIENT INSPECTION ON HYDRAULIC LEVEL

Monitoring the hydraulic oil level has made easier, window applied for convenient oil inspection.

#### **FUEL TANK**

The fuel tank is placed on the rear. Thick plates are applied, which significantly reduce the rate of damages caused by collision.

## **SD300H BALANCE OF FUNCTION** FOR OPERATOR CONCENTRATION

#### **CABIN COMFORT**

Ample space, wide visual field and intuitive features will guarantee a pleasant work. Noise inside cabin is lower, comfortable working space with multi angle adjustable steering wheel.

#### **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.

#### LOWER NOISE

SD300H's cabin offers a quiet and comfortable working environment and improved work efficiency.

#### 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.

#### **ERGONOMICALLY DESIGNED PEDAL**

The adjusted pedal angle relieves the pressure on ankle and joints, reducing operator's fatigue.

#### **ALL AROUND VISIBILITY**

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

#### **DELUXE SEAT**

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





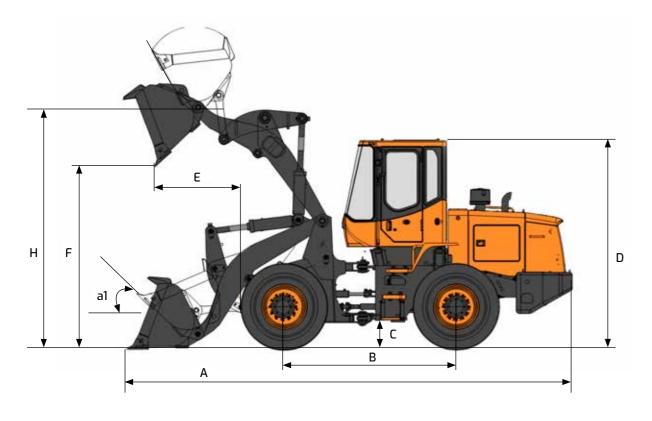








# TECHNICAL SPECIFICATION (SD200)



#### ENGINE

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/stre	okes 6 / 105 mm / 130 mm
Displacement	6.7 L

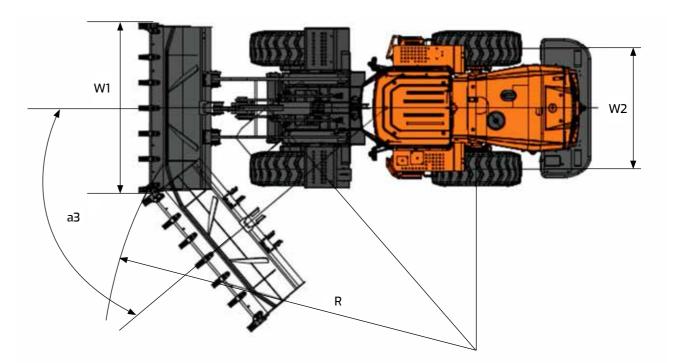
#### TRANSMISSION

Type	4 Speed, Power-shift, Counte	rshaft, engine remote
	mounted with pro	peller shaft & damper
Torque	e Converter Stall Ratio/Size	3.2 / 315 mm

#### **GENERAL SPECIFICATIONS**

Operating Weight		10.4 ton
Bucket Capacity (SAE HEAPED)		1.7 m <sup>3</sup>
Payload		3 ton
Travel Speed (1/2/3/4)	8.5 / 13.0 /	24.0 / 37.0 km/h
Static Tipping Load (straight)		8,000 kg
System Pressure (Work/Steer)		170/140 kg/cm <sup>2</sup>
Sound Level in CAB (2000/14/EC)		84 dB (A)
External Sound Power Level (200	0/14/EC)	112 dB (A)
Fuel Tank Capacity		150 L
Tire Size		17.5 - 25 - 12 PR

# DIMENSIONS & WORKING RANGE (SD200)



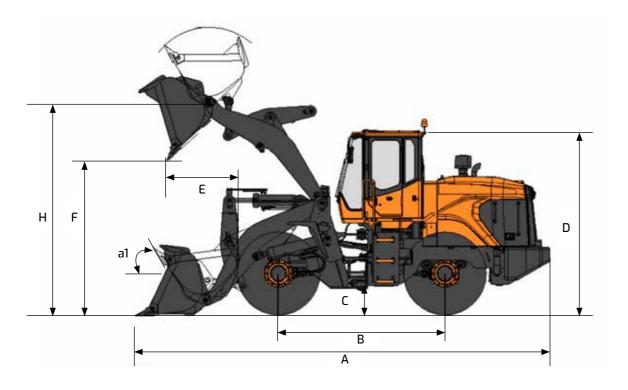
ITEMS			UNIT	STD.	OPT 1	OPT 2	OPT 3
Operating W	eight		ton	10.4	10.5	10.6	10.6
Bucket Capa	city (SAE HEAPED)		m³	1.7	1.7	2.2	2.2
Arm				STD.	LONG	STD.	STD.
Breakout For	rce		kN	99			
	Overall Length	A	mm	6,950	7,138	7,007.5	7,165
	Overall Width	W1	mm	2,496	2,496	2,496	2,496
Dimension	Overall Height	D	mm	3,350	3,350	3,350	3,350
DIMENSION	Ground Clearance	С	mm	350	350	350	350
	Wheelbase	В	mm	2,830	2,830	2,830	2,830
	Tread	W2	mm	1,850	1,850	1,850	1,850
	Dump Height at 45° (with tooth)	F	mm	2,815	3,109	2,775	3,069
	Dump Reach at 45° (with tooth)	E	mm	1,195	1,066.5	1,186	1,057
	Max. Tilt Angle (on ground)		degree (°)	45	45	45	45
	Max. Tilt Angle (at fully raised)		degree (°)	61	60	63	60
Working	Height at bucket pivot point	н	mm	3,740	4,028	3,740	4,028
Range	Max. Tilt Angle (at carry)	a1	degree (°)	50	50	50	50
	Digging Depth (0° level)		mm	55	72	54	42
	Max. Steering Angle	a3	degree (°)	40	40	40	40
	Turning Radius (tire center)		mm	5,090	5,090	5,090	5,090
	External radius at bucket edge	R	mm	5,710			
Gradeability % (°) 58 (30)		(30)					

#### HYDRAULIC SYSTEM

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

# TECHNICAL SPECIFICATION (SD300)

# DIMENSIONS & WORKING RANGE (SD300)



#### ENGINE

Model	Weichai WD10G220E23 (TIER 2)
Rated Power (SAE J1995 Gros	<b>ss)</b> 92 kW (125 ps) @ 2,200 rpm
Max. Torque (SAE J1995 Gros	s) 500 N.m @ 1,400~1,500 rpm
Fuel Consumption	225 g/kW.h @ RATED SPEED
Number of cylinders/bores/s	trokes 6 / 126 mm / 130 mm
Displacement	9.7 L

#### HYDRAULIC SYSTEM

Main Pump Type	Fixed gear
Main Pump Displacement	104.9 cc/rev
Max. Flow Rate	215 l/min

#### **GENERAL SPECIFICATIONS**

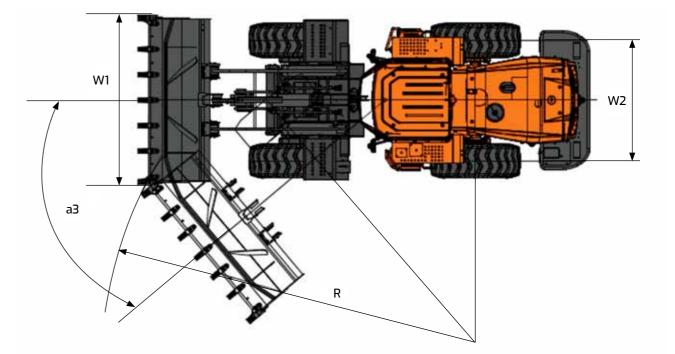
Operating Weight	17 ton
Bucket Capacity (SAE HEAPED)	3.0 m <sup>3</sup>
Travel Speed (1/2)	12.2 / 38 km/h
System Pressure (Work/Steer)	170/140 kg/cm <sup>2</sup>
Payload	5,000 kg
Static Tipping Load (straight)	11,300 kg
Sound Level in CAB (ISO 6396)	85 dB (A)
External Sound Power Level (2000/14/EC)	114 dB (A)
Fuel Tank Capacity	300 L
Tire Size	23.5-25-16 PR

#### TRANSMISSION

Туре	2 Speed, Power-shift, Planet, Engine remote
	mounted with propeller shaft & damper

Torque Converter Stall Ratio/Size

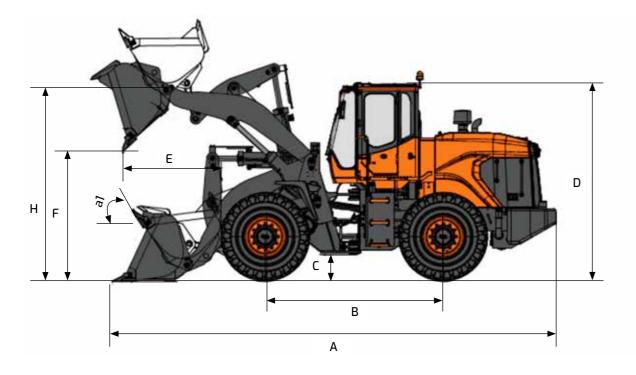
4.1 / 315 mm



ITEMS			UNIT	STD.	OPT 1	OPT 2	OPT 3
Operating W	eight		ton	17	17.1	17.3	17.2
Bucket Capa	city (SAE HEAPED)		m³	3.0	3.0	2.7	4.0
Arm				STD.	LONG	STD.	STD.
Breakout For	rce		kN	164	155.82	158.76	131.32
	Overall Length	Α	mm	8,020	8,445	8,122	8,107
	Overall Width	W1	mm	2,992	2,992	2,992	3,092
Dimension	Overall Height	D	mm	3,520	3,520	3,520	3,520
DIMENSION	Ground Clearance	С	mm	420	420	420	420
	Wheelbase	В	mm	3,200	3,200	3,200	3,200
	Tread	W2	mm	2,174	2,174	2,174	2,174
	Dump Height at 45° (with tooth)	F	mm	3,089	3,384	3,117	3,012
	Dump Reach at 45° (with tooth)	E	mm	1,308	1,366	1,335	1,276
	Max. Tilt Angle (on ground)		degree (°)	45	45	45	45
	Max. Tilt Angle (at fully raised)		degree (°)	59	59	59	59
Working	Max. Tilt Angle (at carry)	a1	degree (°)	50	50	50	50
Range	Height at bucket pivot point	Н	mm	4,150	4,450	4,150	4,150
	Digging Depth (0° level)		mm	120	200	122	90
	Max. Steering Angle	a3	degree (°)	40	40	40	40
	Turning Radius (tire center)		mm	5,630	5,630	5,630	5,630
	External radius at bucket edge	R	mm	6,470			
Gradeability % (°) 58 (30)		(30)					

# TECHNICAL SPECIFICATION (SD300H)

# DIMENSIONS & WORKING RANGE (SD300H)



#### ENGINE

Model	Weichai WD10G220E23 (TIER 2)
Rated Power (SAE J1995 Gross	<b>)</b> 162 kW (220 ps) @ 2,000 rpm
Max. Torque (SAE J1995 Gross)	) 980 N.m @ 1,300~1,500 rpm
Fuel Consumption	225 g/kW.h @ RATED SPEED
Number of cylinders/bores/str	okes 6 / 126 mm / 130 mm
Displacement	9.7 L

#### HYDRAULIC SYSTEM

Main Pump Type	Fixed gear
Main Pump Displacement	104.9 cc/rev
Max. Flow Rate	206 l/min

#### **GENERAL SPECIFICATIONS**

Operating Weight	16.4 ton
Bucket Capacity (SAE HEAPED)	3.0 m <sup>3</sup>
Travel Speed (1/2/3/4)	6.3 / 11.4 / 22.7 / 36.5 km/h
System Pressure (Work/Steer)	170/140 kg/cm <sup>2</sup>
Payload	3.0 ton
Static Tipping Load (straight)	11,300 kg
SOUND LEVEL IN CAB (2000/14/8	EC) 85 dB (A)
External Sound Power Level (200	0/14/EC) 114 dB (A)
Fuel Tank Capacity	300 L
Tire Size	23.5 - 25 - 16 PR

#### TRANSMISSION

Type4 speed, Power-shift, Countershaft, Engine remote<br/>mounted with propeller shaft & damper

Torque Converter Stall Ratio/Size

2.142 / 340 mm

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ITEMS		UNIT	STD.	OPT 1	OPT 2	OPT 3	
Operating Weight		ton	16.9	17.2	17.2	17.0	
Bucket Capacity (SAE HEAPED)		m³	3.0	3.0	2.7	4.0	
Arm			STD.	LONG	STD.	STD.	
Breakout Force		kN	164	161.7	164.64	161.7	
Dimension	Overall Length	A	mm	8,020	8,343	8,070	8,066
	Overall Width	W1	mm	2,992	2,992	2,992	2,992
	Overall Height	D	mm	3,520	3,520	3,520	3,520
	Ground Clearance	С	mm	420	420	420	420
	Wheelbase	В	mm	3,200	3,200	3,200	3,200
	Tread	W2	mm	2,174	2,240	2,240	2,240
Working Range	Dump Height at 45° (with tooth)	F	mm	3,089	3,380	3,090	3,010
	Dump Reach at 45° (with tooth)	E	mm	1,308	1,360	1,370	1,270
	Max. Tilt Angle (on ground)		degree (°)	45	45	45	45
	Max. Tilt Angle (at fully raised)		degree (°)	60	60	60	60
	Max. Tilt Angle (at carry)	a1	degree (°)	50	50	50	50
	Height at bucket pivot point	н	mm	4,150	4,450	4,150	4,150
	Digging Depth (0° level)		mm	120	200	120	89
	Max. Steering Angle	a3	degree (°)	40	40	40	40
	Turning Radius (tire center)		mm	5,630	5,630	5,630	5,630
	External radius at bucket edge	R	mm	6,470			
Gradeability		% (°)	58 (30)				

