

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.

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 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.



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

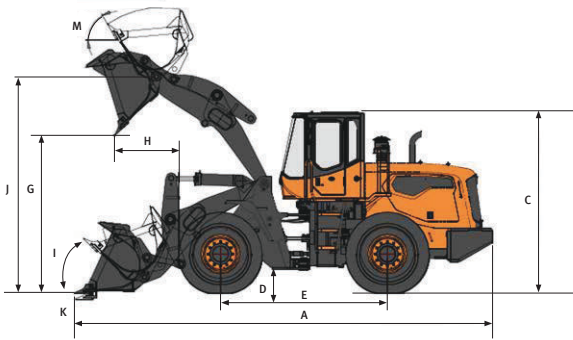
- Lessen the load of operator.
- The adjusted pedal angle relieves the pressure on ankle and joints, reducing operator's fatigue.

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.



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 |

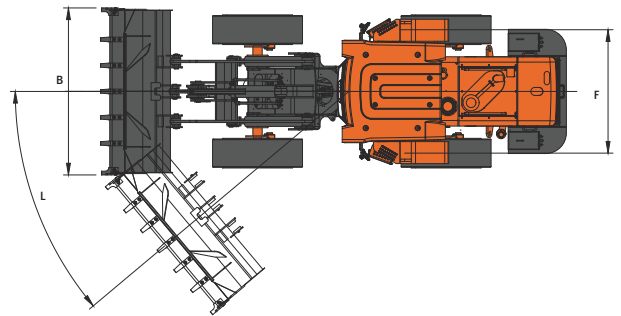
HYDRAULIC SYSTEM

| | |
|------------------------|------------|
| 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 (0° 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) | | | | |