



DX260LCA

Engine Power : SAE J1349, 136kW(183HP)@1,800 rpm

Operating Weight : 24,800 ~ 25,100kg

Bucket / SAE : 0.51 ~ 1.51m³





Excellent productivity, quality & durability

DX260LCA has been built for the industry's best productivity and cycle times. Through large size engine and pump, DX260LCA has the best productivity among equivalent models



Reliability



The best productivity among equivalent models.



Performance & Stability

Maximum performance by Doosan in house engine

- Doosan in house engine perfectly harmonized with the hydraulic system and provides strong power.
- Mechanical engine provides high resistance to moisture, dust, and bad fuel quality.

Doosan DX260LCA engine

Make and Model	Doosan DE08TIS
Rated Horse Power	143kW(195PS, 192HP) @1,800rpm (SAE J1995) 136kW(185PS, 183HP) @1,800rpm (SAE J1349)
Torque	85 kgf.m @1400 rpm
Alternator	24 V x 6.0 kW

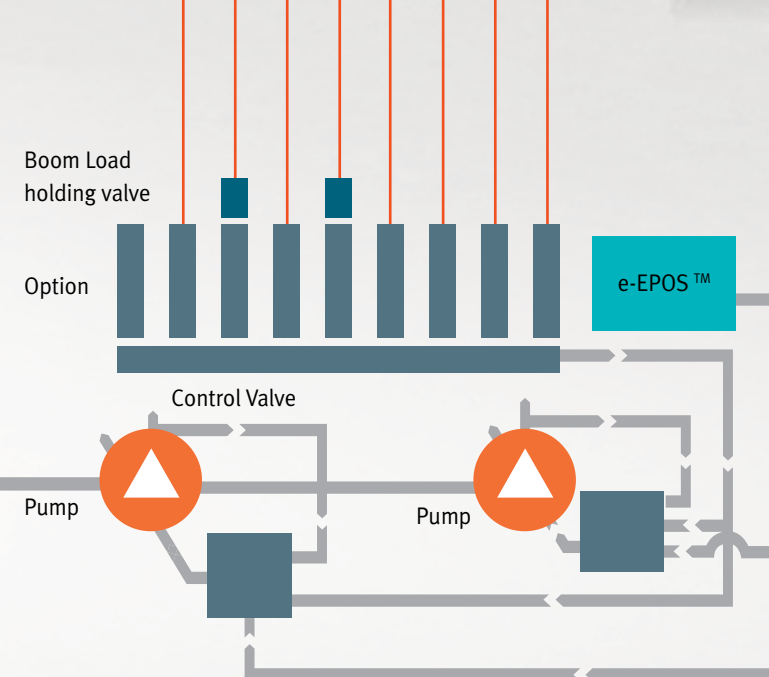


Smooth and fast swing by increased swing torque

- 4~6% more productive than the previous model
- DX260LCA will complete various challenging jobs, (especially when required instant power) with better productivity than the previous model

The Industry's Best stability

- 4.7ton Counter weight
- 10units lower roller per each side



EXCAVATOR CONTROL

New e-EPOS™ system (Electronic Power Optimizing System). The brains of the hydraulic excavator, the e-EPOS™, have been improved, through a CAN (Controller Area Network) communication link, enabling a continuous exchange of information between the engine and the hydraulic system. These units are now perfectly synchronized.

The advantages of the new e-EPOS™ impacts at several levels, Ease of operation and user-friendliness:

- The availability of a power mode and standard mode guarantee maximum efficiency under all conditions.
- The automatic deceleration mode enables fuel saving.
- Regulation and precise control of the flow rate required by the equipment are available as standard.
- A self-diagnosis function enables technical problems to be resolved quickly and efficiently.
- An operational memory provides a graphic display of the status of the machine.
- Maintenance and oil change intervals can be displayed.

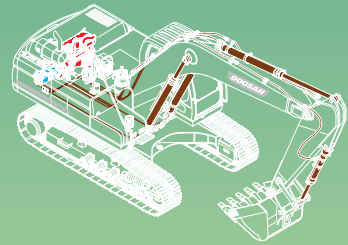
Fuel Efficiency



RELIEF CUTOFF

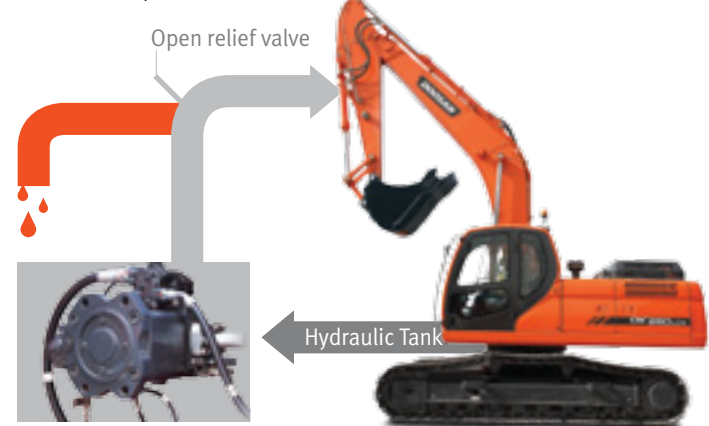
to prevent transfer of unnecessary flow

1. Typically, the pump tends to supply flow even when the maximum pressure on the system is reached due to severe working environments and large workloads.
2. Relief cutoff technology of Doosan prevent transfer of unnecessary flow to keep powerful working level at the maximum value while reducing consumption of fuel.



RELIEF CUTOFF

Relief cutoff technology saves 20~30% of fuel consumption in the heavy workload.



OPTIMIZED LEVER CONTROL

to prevent unnecessary fuel consumption

1. When operator takes break for rest with the joystick kept fixed, both of the engine and the pump are kept in standby mode with maximum rotation rate and hydraulic power. In such a case, unnecessary fuel consumption takes place.

& AUTO IDLE

2. The auto idle technology effectively controls the engine, and prevents unnecessary fuel consumption while the engine is kept in standby mode. Further, the optimized lever control technology effectively controls the pump to keep power of the pump maximum and prevent fuel consumption while the system is kept shut down.

When operating the joystick, rotation rate of the engine and maximum hydraulic power of the pump increase simultaneously for efficient consumption of fuel. The technologies of Doosan enable operation of the system with maximum power in time.

OPTIMIZED LEVER CONTROL

In auto idle, you can save 90% of fuel than in operation.

Fuel consumption in operation



Fuel consumption in auto idle



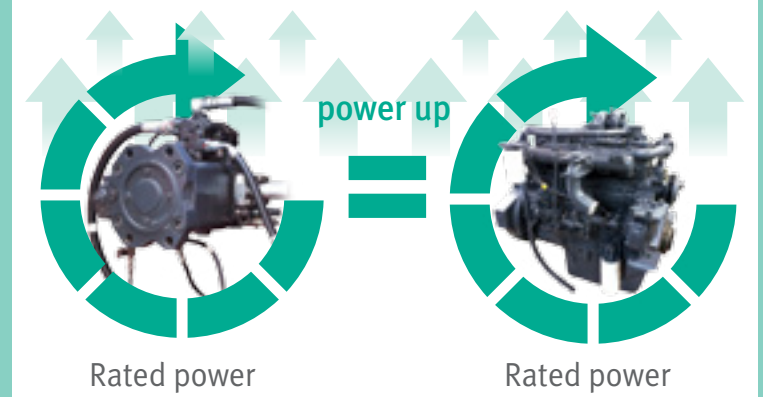
ENGINE & PUMP MATCHING

to reduce matching response time of the system

1. It is common that response time of the system (time for generating rated power from the minimum power) is slower than response speed of the pump. In such a case, the pump is kept in standby mode until the engine reaches the rated power to cause unnecessary fuel consumption. In addition, more fuel is supplied to the engine for matching the pump speed with the engine to result in more exhaust fumes.
2. Engine & pump matching, the new technology of Doosan, fully resolves these problems. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.

ENGINE & PUMP MATCHING

Matching response time between pump and engine makes higher performance with reduced fuel consumption.



Market No.1 Fuel Efficiency in Middle Excavator.

"NEW CONTROL LOGIC" for Better Fuel Efficiency



FUEL EFFICIENCY

↑ **8.8%**
BETTER

FUEL CONSUMPTION

↓ **7.0%**
SAVING

Handling & Comfort



New gauge panel

- 7 inch monitor
- Rear view camera (OPT)
- Display selector
- Working modes
- Auto idle & flow rate control

Air suspension seat (Optional)

An Air Suspension Seat is available as an option, which further reduces any vibration being transmitted to the operator while working or travelling. In addition, this option is fitted with a heating system for operator comfort in cold weather.

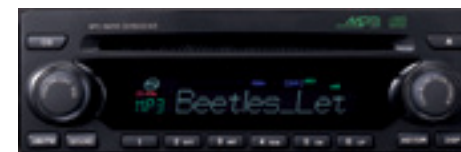


Comfortable 2-stage sliding seat



Control stand (Telescopic Function)

MP3/CD Player (Optional)



Audio Button

Audio Button has been positioned in a way that the driver can turn on/off the radio, control the volume, and select a channel conveniently.

Rear view camera (Optional)



Air conditioning with climate control

High performance, electronically controlled air conditioning features 5 different operating modes allowing the operator to adjust the airflow to suit conditions. A re-circulated air function is also available. Temperature is adjustable from 17°C (62°F) to 32°C (90°F) by 0.5°C (1°F) increments.



- 1 Storage space
- 2 Cellular phone box



Control panel

The control panel is clear, simple to read and positioned for easy use, allowing you to work safely and confidently.

Maintenance & Safety



Hydraulic oil return filter

The protection of the hydraulic system is more effective, using glass fiber filter technology in the main oil return filter. This means that with more than 99.5% of foreign particles filtered out, the oil change interval is increased.



Lower-hanging cabin door handle



Convenient Fuse Box

The fuse box is conveniently located in a section of the storage compartment behind the operator's seat providing a clean environment and easy access.



Pre cleaner

Extremely dusty applications may require a pre-cleaner to ensure that the engine is provided with continuously clean and fresh air.



New battery box

- a. Larger anti-slip surface
- b. New spring to facilitate fixing
- c. Cut-off switch easier to reach
- d. New locking device



Fuel filter

High efficiency fuel filtration is attained by the use of multiple filters, including a fuel pre-filter fitted with a water separator that removes most moisture from the fuel.



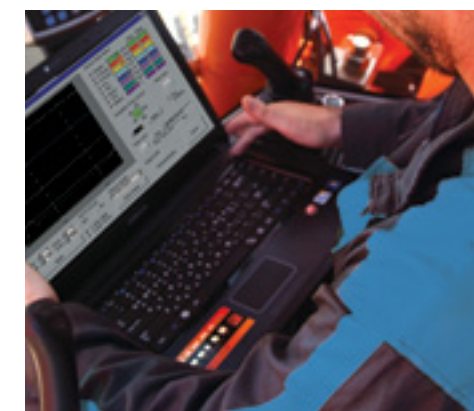
Air cleaner

The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater.



Remote greasing points

To make maintenance easier, the arm and boom greasing points have been centralized. Remote a grouped greasing points on boom & arm .



PC monitoring

A PC monitoring function enables connection to the e-POS system. Thus, various parameters can be checked during maintenance, including pump pressures, engine rotation and engine speed.



New handrail & guardrail

The new fittings are now ISO 2867:2007 compliant. Access is facilitated and the writings have been strongly reinforced.



Centralized grease inlets for easy maintenance

The arm grease inlets are grouped for easy access.

Technical Specification

Engine

MODEL

Doosan DE08TIS
Mechanical engine with direct fuel injection 4 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for phase II

NUMBER OF CYLINDERS

6

NOMINAL FLYWHEEL POWER

143kW(195PS, 192HP) @1,800rpm (SAE J1995)
136kW(185PS, 183HP) @1,800rpm (SAE J1349)

MAX TORQUE

85 kgf.m at 1,400 rpm

PISTON DISPLACEMENT

8,071 cc

BORE & STROKE

Ø111 x 139 mm

STARTER

24 V x 6.0 kW

BATTERIES

24 V / 150 AH

AIR CLEANER

Double element with auto dust evacuation.

Swing Mechanism

- An axial piston motor with two-stage planetary reduction gear is used for the swing.
- Increased swing torque reduces swing time.
- Internal induction-hardened gear.
- Internal gear and pinion immersed in lubricant bath.
- The swing brake for parking is activated by spring and released hydraulically.

TYPE	AXIAL PISTON
MAX SWING TORQUE	9,860 kgf.m
SWING SPEED	10.4 rpm

Weight

Shoe width	Ground pressure (kgf/cm ²)	Machine Weight (ton)
(Std) 600 mm	0.51 kgf/cm ²	24.8/*25.0
(Opt) 700 mm	0.44 kgf/cm ²	25.2/*25.4
(Opt) 800 mm	0.39 kgf/cm ²	25.5/*25.7
(Opt) 900 mm	0.35 kgf/cm ²	25.8/*26.0

Hydraulic System

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

MAIN PUMPS

Swash Plate, Axial Piston
Max flow: 2-230 Liter/min
Displacement: 127.8 cc/rev
Quantity: 2EA

PILOT PUMP

Gear Pump - Max Flow Rate-27 l/min
Displacement:15 cc/rev
Relief valve Pressure - 40 kgf/cm²

MAXIMUM SYSTEM PRESSURE

Boom/arm/Bucket:
- Normal mode: 330 kgf/cm²
Working,Travel - 330 kg/cm²
Pressure Up - 350 kgf/cm²

Drive

Each track is driven by an independent axial piston motor through a planetary reduction gearbox. Two levers with control pedals guarantee smooth travel with counter-rotation on demand.

TRAVEL SPEED (FAST/SLOW)

3.4 / 5.8 km/hr

MAXIMUM TRACTION FORCE

26.8 / 15.6 ton

MAXIMUM GRADE

70%

Undercarriage

Chassis are of very robust construction, all welded structures are designed to limit stresses. High-quality material used for durability. Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating seals. Tracks shoes made of induction-hardened alloy with double grouser. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.

NUMBER OF ROLLERS AND TRACK SHOES PER SIDE

Upper rollers: 2 (standard shoes)
Lower rollers: 10
Shoes: 51
Total length of track: 4,625mm (15'2")

Hydraulic Cylinders

Cylinders	Quantity	Bore x Rod x Stroke
Boom	2	130 x 90 x 1,355
Arm	1	140 x 100 x 1,705
Bucket	1	130 x 90 x 1,080

Digging Forces (ISO)

DX260LCA	Unit	Boom : 5,900mm Arm : 3,000mm Bucket : 1.17 m ³	Boom : 5,900mm Arm : 2,500mm Bucket : 1.40 m ³	Boom : 5,900mm Arm : 3,500mm Bucket : 1.17 m ³	Boom : 5,900mm Arm : 3,000mm Bucket : 1.24 m ³ H class
Bucket	t	16.8 / 17.8	17.3 / 18.4	16.8 / 17.8	16.4 / 17.4
(Normal/Press up)	kN	165 / 174	170 / 180	165 / 174	161 / 171
Arm	t	11.7 / 12.4	13.8 / 14.6	10.5 / 11.1	11.7 / 12.4
(Normal/Press up)	kN	115 / 122	135 / 143	103 / 109	115 / 122

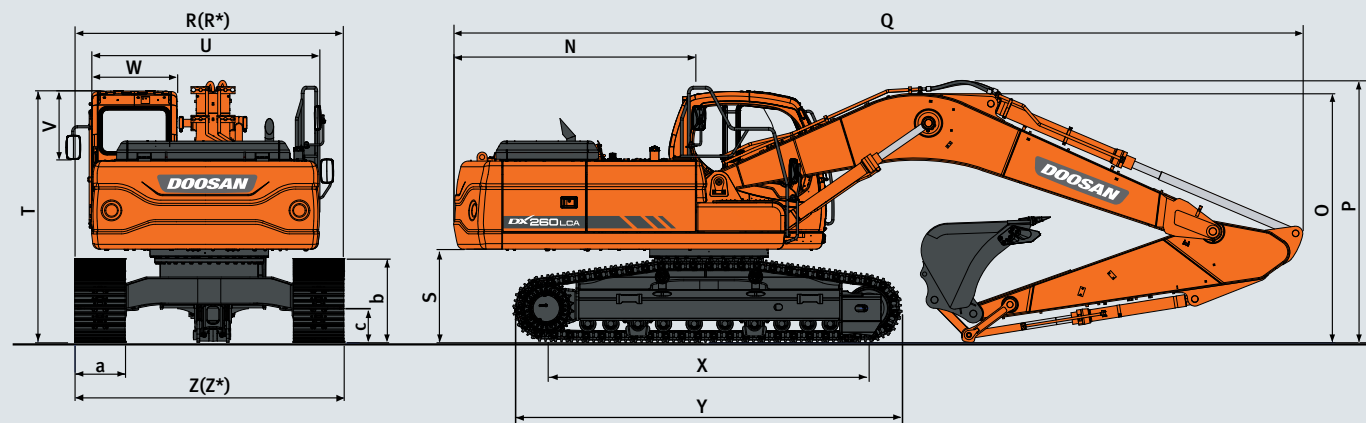
Bucket

Bucket Type	Capacity		Width		Weight	5.9m Boom		
	SAE/PCSA	CECE	W/O Cutter	With Cutter		2.5m Arm	3.0m Arm	3.5m Arm
GP	0.51 m ³	0.47 m ³	722 mm	772 mm	534 kg	A	A	A
	0.81 m ³	0.72 m ³	1,064 mm	1,126 mm	667 kg	A	A	A
	0.92 m ³	0.81 m ³	1,172 mm	1,236 mm	707 kg	A	A	A
	1.05 m ³	0.92 m ³	1,308 mm	1,370 mm	759 kg	A	A	A
	1.10 m ³	0.95 m ³	1,316 mm	1,377 mm	846 kg	A	A	A
	1.17 m ³	1.00 m ³	1,428 mm	1,491 mm	817 kg	A	A	A
	1.28 m ³	1.11 m ³	1,544 mm	1,607 mm	856 kg	A	A	B
H class	1.40 m ³	1.22 m ³	1,607 mm	1,668 mm	985 kg	A	B	C
	0.60 m ³	0.56 m ³	750 mm	-	651 kg	A	A	A
	0.76 m ³	0.69 m ³	900 mm	-	722 kg	A	A	A
	0.92 m ³	0.83 m ³	1,050 mm	-	813 kg	A	A	A
	1.08 m ³	0.97 m ³	-	-	884 kg	A	A	A
	1.24 m ³	1.11 m ³	1,350 mm	-	955 kg	A	A	B
	1.35 m ³	1.20 m ³	1,450 mm	-	1,023 kg	A	B	B
	1.40 m ³	1.24 m ³	1,500 mm	-	1,046 kg	A	B	C
1.51 m ³	1.34 m ³	1,600 mm	-	1,114 kg	B	C	C	

A : Suitable for materials with density of 2100kg/m³ (3500lb/yd³) or less
B : Suitable for materials with density of 1800kg/m³ (3000lb/yd³) or less
C : Suitable for materials with density of 1500kg/m³ (2500lb/yd³) or less
D : Suitable for materials with density of 1200kg/m³ (2000lb/yd³) or less

* : for ROPS

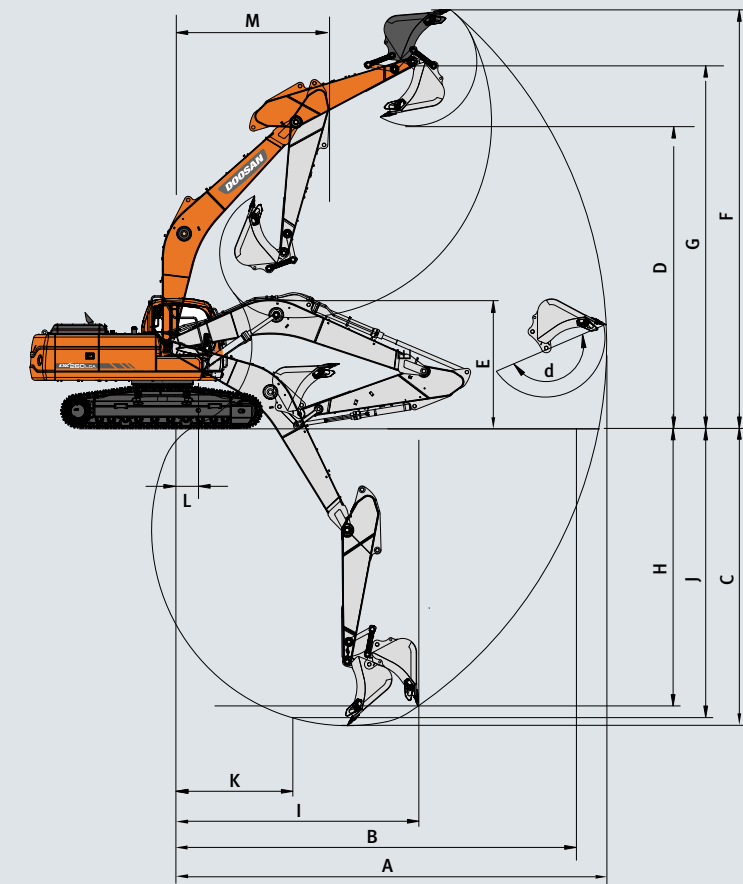
Dimensions



Dimensions

Boom type (One piece)	(mm)		5,900					
Arm type	(mm)		3,000		2,500		3,500	
Bucket type (SAE)	(m ³)		1.1	1.17	1.28	1.17	1.4	1.17
Tail Swing Radius	(mm)	N	3,035	←	←	←	←	←
Shipping Height (Boom)	(mm)	O	2,995	2,995	2,995	3,080	3,080	3,380
Shipping Height (Hose)	(mm)	P	3,195	3,195	3,195	3,300	3,300	3,555
Shipping Length	(mm)	Q	10,075	10,075	10,075	10,140	10,140	10,100
Shipping Width (Std.)	(mm)	R	3,200	←	←	←	←	←
Shipping Width (Narrow)	(mm)	R*	3,000	←	←	←	←	←
C/Weight Clearance	(mm)	S	1,110	←	←	←	←	←
Height Over CAB.	(mm)	T	2,970	←	←	←	←	←
House Width	(mm)	U	2,710	←	←	←	←	←
CAB. Height Above House	(mm)	V	835	←	←	←	←	←
CAB. Width	(mm)	W	1,010	←	←	←	←	←
Tumbler Distance	(mm)	X	3,835	←	←	←	←	←
Track Length	(mm)	Y	4,625	←	←	←	←	←
Undercarriage Width (Std.)	(mm)	Z	3,200	←	←	←	←	←
Undercarriage Width	(mm)	Z*	3,000	←	←	←	←	←
Shoe Width	(mm)	a	600	←	←	←	←	←
Track Height	(mm)	b	995	←	←	←	←	←
Car Body Clearance	(mm)	c	450	←	←	←	←	←

Working Ranges



Working Ranges

Boom type (One piece)	(mm)		5,900					
Arm type	(mm)		3,000		2,500		3,500	
Bucket type (SAE)	(m ³)		1.1	1.17	1.28	1.17	1.4	1.17
Max. Digging Reach	(mm)	A	10,180	10,165	10,165	9,680	9,695	10,635
Max. Digging Reach (Ground)	(mm)	B	10,010	9,980	9,980	9,485	9,500	10,460
Max. Digging Depth	(mm)	C	6,800	6,780	6,780	6,285	6,290	7,285
Max. Loading Height	(mm)	D	6,940	6,955	6,955	6,675	6,660	7,190
Min. Loading Height	(mm)	E	2,560	2,570	2,570	3,060	3,045	2,070
Max. Digging Height	(mm)	F	9,600	9,670	9,670	9,365	9,295	9,905
Max. Bucket Pin Height	(mm)	G	8,410	8,410	8,410	8,130	8,130	8,645
Max. Vertical Wall Depth	(mm)	H	5,205	5,925	5,925	5,290	4,575	6,410
Max. Radius Vertical	(mm)	I	7,225	5,365	5,365	6,390	7,160	6,500
Max. Depth to 8' Line	(mm)	J	6,615	6,595	6,595	6,060	6,075	7,120
Min Radius 8' Line	(mm)	K	2,995	2,980	2,980	2,955	2,930	3,015
Min. Digging Reach	(mm)	L	630	655	655	1,731	1,707	0
Min. Swing Radius	(mm)	M	3,845	3,845	3,845	3,885	3,885	3,870
Bucket Angle	(deg)	d	174	186	186	186	175	186

Lifting Capacity

Standard

Boom : 5.9m One-Piece Boom Arm : 2.5m Bucket : Without Bucket Shoe : 600mm

Metric Unit : 1,000kg

A(m) B(m)	3		4.5		6		7.5		Max. Reach		A(m)
7.5									*6.61	*6.61	5.99
6					*6.65	*6.65			*6.23	5.14	7.12
4.5			*8.80	*8.80	*7.30	6.59	*6.64	4.67	*6.20	4.38	7.80
3			*10.96	9.55	*8.26	6.29	6.71	4.55	5.9	4.01	8.15
1.5			*12.59	9.02	*9.13	6.03	6.57	4.42	5.75	3.88	8.21
0			*13.09	8.81	8.98	5.86	6.48	4.33	5.92	3.98	7.99
-1.5	*12.13	*12.13	*12.69	8.8	8.93	5.82			6.52	4.36	7.47
-3	*15.25	*15.25	*11.37	8.93	*8.51	5.91			*7.47	5.27	6.56
-4.5	*11.23	*11.23	*8.39	*8.39					*7.16	*7.16	5.08

Option 1

Boom : 5.9m One-Piece Boom Arm : 2.5m Bucket : Without Bucket Shoe : 800mm

Metric Unit : 1,000kg

A(m) B(m)	3		4.5		6		7.5		Max. Reach		A(m)
7.5									*6.61	*6.61	5.99
6					*6.65	*6.65			*6.23	5.27	7.12
4.5			*8.80	*8.80	*7.30	6.75	*6.64	4.79	*6.20	4.49	7.80
3			*10.96	9.79	*8.26	6.45	6.89	4.67	6.06	4.11	8.15
1.5			*12.59	9.26	*9.13	6.19	6.75	4.54	5.91	3.99	8.21
0			*13.09	9.05	9.23	6.02	6.66	4.45	6.09	4.09	7.99
-1.5	*12.13	*12.13	*12.69	9.04	9.18	5.98			6.7	4.48	7.47
-3	*15.25	*15.25	*11.37	9.17	*8.51	6.07			*7.47	5.41	6.56
-4.5	*11.23	*11.23	*8.39	*8.39					*7.16	*7.16	5.08

Option 2

Boom : 5.9m One-Piece Boom Arm : 3.0m Bucket : Without Bucket Shoe : 600mm

Metric Unit : 1,000kg

A(m) B(m)	1.5		3		4.5		6		7.5		Max. Reach		A(m)		
7.5											*4.77	*4.77	6.64	*3.90	7.25
6							*6.07	*6.07	*5.31	4.77	*4.51	*4.51	7.67	*3.71	8.21
4.5							*6.78	6.65	*6.20	4.69	*4.47	3.96	8.31	3.6	8.80
3					*10.15	9.71	*7.79	6.33	*6.66	4.55	*4.61	3.65	8.64	3.33	9.11
1.5					*12.03	9.09	*8.78	6.03	6.55	4.4	*4.92	3.54	8.70	3.23	9.17
0			*6.59	*6.59	*12.92	8.77	8.95	5.83	6.43	4.29	5.38	3.62	8.49	3.29	8.97
-1.5	*7.56	*7.56	*11.47	*11.47	*12.84	8.69	8.85	5.74	6.39	4.25	5.85	3.91	8.00	3.52	8.51
-3	*12.59	*12.59	*16.55	*16.55	*11.88	8.78	*8.90	5.78			6.89	4.58	7.16	4.04	7.73
-4.5			*13.08	*13.08	*9.62	9.03					*6.97	6.26	5.83	5.23	6.51

Option 3

Boom : 5.9m One-Piece Boom Arm : 3.5m Bucket : Without Bucket Shoe : 600mm

Metric Unit : 1,000kg

A(m) B(m)	1.5		3		4.5		6		7.5		9		Max. Reach
7.5													*3.90
6									*5.44	4.81			*3.71
4.5							*6.22	*6.22	*5.75	4.71			*3.68
3					*9.29	9.29	*7.28	6.38	*6.28	4.55	*4.38	3.4	*3.79
1.5					*11.38	9.19	*8.37	6.05	6.54	4.38	4.95	3.33	*4.02
0			*7.52	*7.52	*12.61	8.77	8.93	5.8	6.39	4.24			*4.44
-1.5	*7.18	*7.18	*11.03	*11.03	*12.87	8.62	8.79	5.68	6.31	4.17			*5.15
-3	*11.19	*11.19	*16.07	*16.07	*12.25	8.64	8.79	5.67	6.34	4.2			*6.09
-4.5	*16.35	*16.35	*14.66	*14.66	*10.51	8.84	7.67	5.82					*6.70

1. Ratings are based on SAE J1097
2. Load point is the end of arm.
3. * Rated loads are based on hydraulic capacity.
4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front
 : Rating Over Side or 360 degree

Standard and Optional Equipment

Standard Equipment

HYDRAULIC SYSTEM

- Boom and arm flow regeneration
- Boom and arm holding valves
- Swing anti-rebound valves
- Spare ports(Control valve)
- One-touch power boost

CABIN & INTERIOR

- Viscous cab mounts
- All weather sound suppressed type cab
- Air conditioner & Heater
- Adjustable suspension seat with head rest and adjustable arm rest
- Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- LCD color monitor panel
- Engine speed (RPM) control dial
- AM/FM radio
- Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Sunvisor
- Sun roof

SAFETY

- Large handrails and step
- Convex metal anti-slip plates
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rearview mirrors
- Travel alarm
- Battery protector cover

OTHERS

- Double element air cleaner
- Water separator
- Fuel filter
- Dust screen for radiator/oil cooler
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Alternator(24V, 60 amps)
- Electric horn
- Halogen working lights(frame mounted 2, boom mounted 2)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Hydraulic oil tank air breather filter

Optional Equipment

Some of these optional equipments may be standard in some markets. Some of these optional equipments cannot be available on some markets. You must check with the local DOOSAN dealer to know about the availability or to release the adaptation following the needs of the applications.

SAFETY

- Overload warning device
- Cabin Top/Front guard(ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotation beacon
- Lock Valve
- Rear view camera

CABIN & INTERIOR

- Air suspension seat
- MP3/CD player
- Cassette player
- Rain Shield
- ROPS cabin

OTHERS

- Piping for crusher
- Piping for quick clamp
 - Breaker with flow control valve
 - Crusher with tilting
 - Clamshell
- 700mm/800mm/900mm shoe
- Lower wiper
- Fuel heater
- 80A alternator
- Fuel filler pump
- Working Lights
 - 4-front/2-rear on cabin
 - 2-front on cabin
 - 1 on counterweight

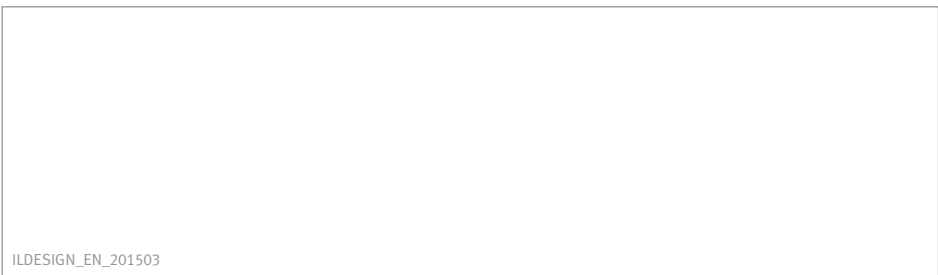
UNDERCARRIAGE

- Narrow track frame



Doosan worldwide factories

- Heavy Equipment Factory
- Compact Equipment Factory
- Attachment Factory



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