

DX60R

Standard & Optional equipment

STANDARD EQUIPMENT

Hydraulic system

- Arm flow regeneration
- Boom holding valves
- Spare port(valve)

Cabin & Interior

- Rubber cab mount
- Air conditioner
- 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
- Storage box (including Cup holder)
- Engine speed(RPM) control dial
- AM/FM radio and cassette player (set)
- Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Aircon filter
- Glass Antenna

Safety

- Large handrails
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Emergency engine stop

Undercarriage

- Hydraulic track adjuster
- Track guards (Steel track)
- 400mm shoe
- 1,880mm dozer blade

Others

- Double element air cleaner
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Alternator(12V, 60 amps)
- Electric horn
- Halogen working lights(boom mounted 2)
- Auto idle

OPTIONAL EQUIPMENT

In some markets optional equipment may not be available and may also be of standard type only. It is advisable to contact the local Doosan dealer for information on availability and specific application requirements.

Safety

- Boom lock valve
- Dozer lock valve
- Overload warning device
- Travel alarm
- Rotating beacon
- Accumulator
- Left review mirror

Cabin & Interior

- Seat Heater
- AM/FM radio and MP3/CD player (each)
- Additional working lamp
- Sunvisor
- Roof guard

Others

- Piping for tilt
- Piping for quick clamp
- Piping for Clamshell
- Fuel feed pump
- Rubber track
- 1.9m arm & 900 kg counter weight (set)
- Narrow bucket (300mm)
- Pattern change valve

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PBP D60R0000 0807

The illustrations do not necessary show the product in standard version.
All products and equipment are not available in all markets.
Materials and specifications are subject to change without prior notice.



Doosan Infracore
Construction Equipment

DX60R

Engine Power : 37.3 kW(50HP)@2,200rpm (SAE J1349, net)

Operational Weight : 5,900 kg (13,007 lb)-rubber

Bucket capacity(SAE) : 0.175 m³ (0.229 cu.yd)



Photo may include optional equipment

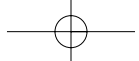


DX 60R



The new DX60R hydraulic excavator has all the advantages of the DX55 model, and now offers additional advantages.

The new DX60R was developed with the concept of "providing optimum value to the end user." In concrete terms, this translates, into :



Doosan DX60R Hydraulic Excavator : A New Model with Novel Features



Increased production and improved fuel economy is attributed to the electronic optimization of the hydraulic system and the new generation engine.

Improved ergonomics increases comfort and excellent all around visibility ensuring a safe and pleasant working environment.

Improved reliability is achieved through the use of high performance materials combined with new methods of structural stress analysis, which leads to increased component life expectancy, thus reducing operating costs.

Reduced maintenance increases the availability and reduces operating costs of the excavator.

Comfort

DX60R

This standard-duty machine, offers a spacious operating area that is only found in medium and heavy-duty machines. The working controls in the cabin are ergonomically designed to ensure convenience and comfort for the operator.



Good visibility (visual field in 360°)

The operator's cabin is remarkably increased and good visibility is improved by applying the left rear view mirror. (Left rear view mirror - Option)

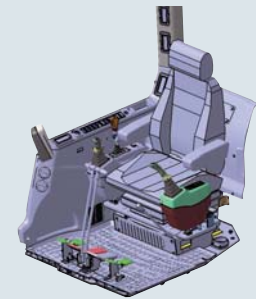
촬영컷이 없으므로 기존컷에서 수정이 가능하면 사용하고 아니면 삭제 해야합니다.



Front window



Rear window



Comfortable Operating Area

The internal operating controls are arranged in a convenient and ergonomic fashion. This allows for maximized operating efficiency. A large capacity air-conditioning system has been installed for operator comfort in all seasons. The open and spacious cabin provides the operator with a wide field of view for the best possible working conditions.



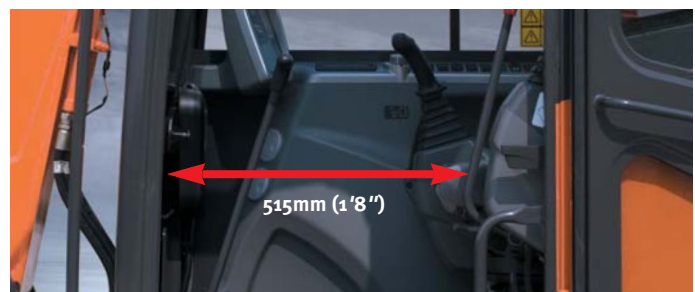
Thermometer for cooling water

Fuel gauge

Fixed-type LED Instrument Panel

Fixed-Type Instrument Panel

The centralized display panel provides comprehensive information about the status of the machine in an easy to read format. The high quality display panel is waterproof and all information can be seen at a glance.



515mm (1'8")



640mm (2'1")

Enlarged entrance and exit

As entrance and exit are enlarged, accessibility is improved for getting on and off the vehicle. Since the front workspace is maximized, the inconvenience in operating equipment is minimized.



Control Stand

The left and right control stands are ergonomically placed for convenient operation. The control stand surfaces have ample room to install several option switches. The uni-body plastic design provides the operator with a spacious and comfortable cabin environment.



Comfortable 2-stage sliding seat Comfortable tilting seat

Suspension Seat

Since the seat cushion position and cushion angle can be adjusted in addition to the 2-step slide control function, the seat can be controlled in accordance with personal preference. Convenience is further improved via the seat back pocket, lumbar support. (Seat heater - Option)



Switch

The ergonomically placed switches maximize convenience for the operator.



A/C Control Panel

As semi-automatic air conditioner is applied in 5 switching modes, it can be controlled in the position and performance desired by operator.



Dozer Control

The Dozer Control Lever is positioned above the right-hand control stand to secure easy and convenient access.



Floor Plate (Rubber mat)

The foot rest pedal (left) and boom swing pedal (right) are installed in a very spacious and convenient location. In addition, the rubber floor mats contribute to a very comfortable environment.



Joystick

The hydraulic joystick levers have very comfortable grips that allow the operator to perform precise operations very easily. As there are 3 switches on the upper side, each attachment can be operated easily.



Wide Storage space



Seat back pocket



Rubber mounting

Performance

DX60R

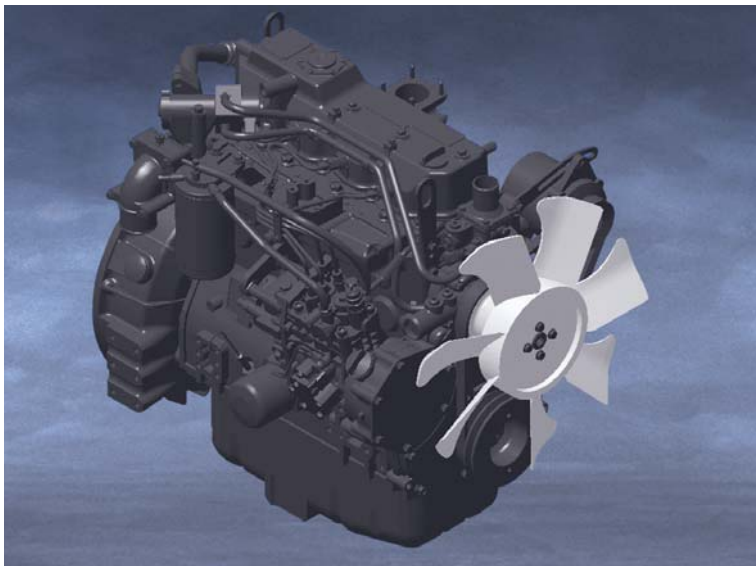
DX60R ensures best performance with a powerful excavating force and a high-tech hydraulic system for better operating efficiency at any work site! Excellent performance is its basic feature! Overall safety and convenience are also key factors when considering excellent performance.



Boom swing

The convenient boom swing function provides the ability to work in very narrow areas. The newly designed swing bracket and the boom swing cylinder size ensures powerful and stable boom swing performance.





YANMAR 4TNV98

The 50.4HP(SAE J1349, net) engine produces outstanding power and is known for its durability. This results in excellent operation in high-load operations. In addition, it features a low noise and low emissions suitable for operation in noise sensitive areas and at night.



RPM dial / Auto idle

Thanks to electronic engine rpm control, the optimal engine rpm can be set as per workload and engine rpm can be minutely adjusted as per load. Since auto idle function is applied as standard, fuel is saved considerably.



Blow out

As the temperature of air flowing into cabin is lowered by discharging the air flowing from outside to radiator, agreeable work environment is ensured in the cabin.



Dozer Blade

Welded, unitized blade provides durability even under harsh working conditions.



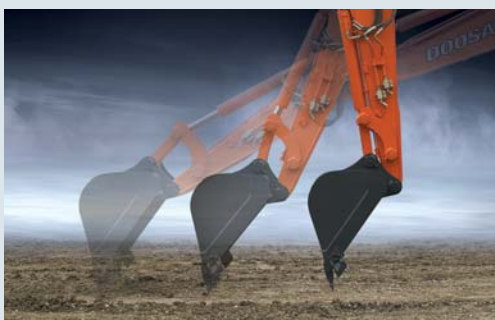
Main Pump

As the displacement of main pump is increased by 10% compared to the DX55 model, rated rpm is decreased by 9%, thereby reducing noise and saving fuel.



Higher gradability and work capability

Thanks to the strong driving force based on high performance engine power and the highest swing limit angle in the same class, the product shows distinguished capability in working on the slope.



Main control valve

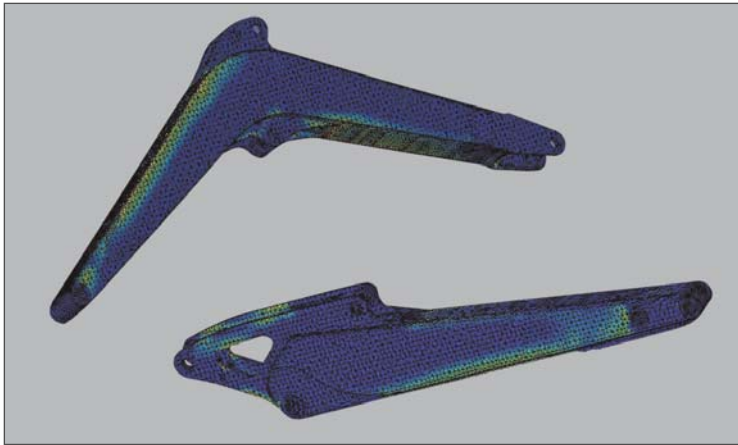
The machine can be precisely controlled in the single and complex operation. For complex operation, the circuit that ensures the optimal front operation is adopted. Thanks to boom holding function, it prevents the boom from self-lowering.

Reliability

DX60R

The reliability of a machine contributes to its overall lifetime operating costs. DOOSAN uses computer-assisted design techniques, highly durable materials and structures which are tested under extreme conditions.

Durability of materials and longevity of structures are our first priorities.

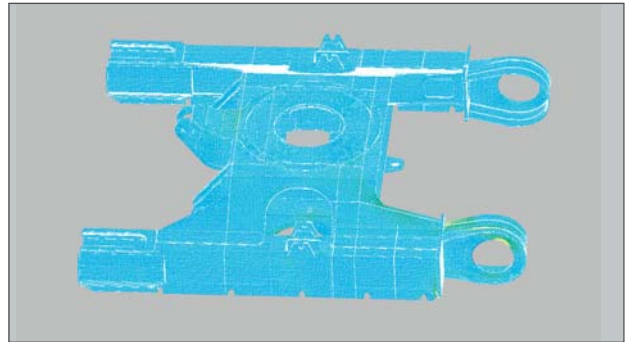


Strengthened Boom

The shape of the boom has been optimized by finite elements design, allowing uniform load distribution throughout the structure. This combined with increased material thickness means improved durability and reliability by limiting element fatigue.

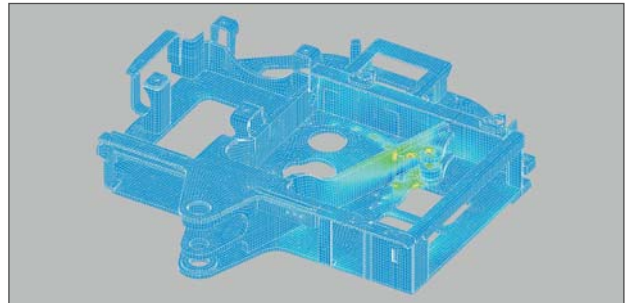
Arm Assembly

In the arm assembly greater strength has been gained by using cast elements and reinforcement around the bosses to give increased life.



X-chassis

The X-chassis frame section has been designed using finite element and 3-dimensional computer simulation, to ensure greater durability and optimum structural integrity. The swing gear is solid and stable.



Frame

The frame design adds strength and minimizes distortion due to shocks.



Rubber tracks

The rubber shoes not only offers greater non-slip and grip capabilities but is less harmful to sidewalks and road surfaces in urban environments than conventional steel shoes. These rubber shoes can be easily installed or removed with the idler, sprocket and other main parts.



Bushing

A highly lubricated metal (sintered bushing) is used for the boom, arm and bucket pivot in order to increase the lifetime and extend the greasing intervals to 250 hours.



Polymer shim

As polymer shim is adopted, the connection and wear on the lateral surface of pin joint is prevented when operating front.



Front oil leakage preventing valve

As the operating method of the valve is improved, oil does not leak even under high pressure, thereby ensuring the stable work performance.

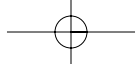


Bucket

Hardened bucket teeth provide durability and can be easily unbolted for removal, straightening or replacing.



Front lamp

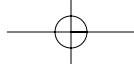


Integrated Track Spring and Idler
The track spring and the idler have been joined directly to achieve high durability and improved maintenance convenience.



Prefabricated Track Guard
The track guard, which protects the vital track components is a prefabricated component and allows for easy replacement.





Maintenance

DX60R

The most advanced technology developed by Doosan was integrated into the DX60R excavator providing powerful performance and simple, easy maintenance. This provides the operator with convenient maintenance check points and maximizes the work efficiency of the DX60R.

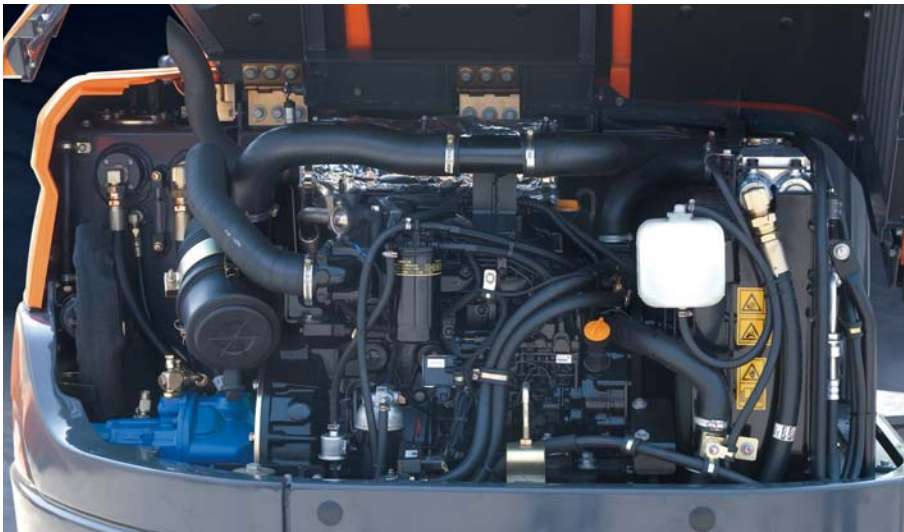


Tilting cabin for easy maintenance



Countweight & hood

As a cast counterweight is applied, deformation by impact is minimized. Thanks to the bonnet made of metton, the engine is further protected from external obstacle.



Easy maintenance

Access to the radiator and cooler is very easy, making cleaning simple. Access to the various parts of the engine is from the side.



Grease Piping

Integrated grease piping is designed for easy maintenance of the swing bearing and swing cylinder.



Radiator

The large-capacity radiator provides excellent performance in severe and continuous operations.



Oil filter/Fuel filter

The engine oil filter is attached to the engine body and extends out for easy maintenance.



Air cleaner

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





Convenient maintenance

The relays are conveniently located in a section of the storage compartment behind the operator's seat providing a clean environment and easy access. Also, the fuse box is located on the side of seat for convenient maintenance.



Compressor

Sufficient space is provided for easy fan belt tension adjustment or replacement. As check-up intervals are considerably increased to 250Hrs by attaching a B-type belt, servicing is made far more convenient.



Engine mounting rubber

As a sandwich-typed engine mounting rubber with excellent durability and dustproof property is adopted, the engine's vibration is not transmitted to the machine.

DX60R

Technical specifications

ENGINE

Model	4TNV98-ESDB6
Number of cylinders	4
Nominal flywheel power	37.3 kW(50HP) @ 2,200 rpm (SAE J 1349, net)
Max torque	19.3~21 kgf.m / 1,400 rpm
Piston displacement	3,319cc (202.5 cu.in)
Bore & stroke	∅ 98 mm x 110 mm (3.8" X 4.3")
Starter	12 V x 3.0 kW
Batteries	1 x 12 V / 100 Ah
Alternator	12 V / 60 A

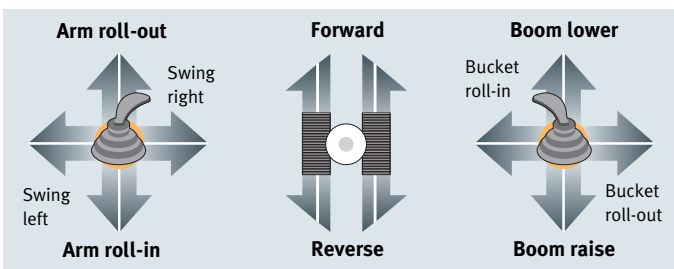
HYDRAULIC CYLINDERS

High-strength piston rods and tubes are used.
A cylinder cushion mechanism is provided for the boom and arm cylinders to assure shock-free operation and extend the life of the cylinders.

Cylinders	Quantity	Bore X Rod diameter X stroke
Boom	1	105 X 60 X 731mm(4.1" X 2.4" X 2'5")
Arm	1	85 X 55 X 811mm(3.3" X 2.2" X 2'8")
Bucket	1	80 X 50 X 600mm(3.1" X 2.0" X 2')

CONTROL.2 IMPLEMENT LEVERS

Travel lever pedal pilot pressure control type. Right lever is boom and bucket control, left lever for swing and arm control.(ISO)



HYDRAULIC SYSTEM

2 Variable displacement axial piston tandem type pumps.
2 Gear pumps and control valve (11-spool) of section block construction. This original design enables both independent and combined operations of all function, joystick control type operations.

Main pumps	2 variable displacement axial piston pumps max flow: 2 x 49.3 ℓ /min + 35.6 ℓ /min (2 X 13 US gpm + 9.4US gpm, 2 X 10.8 Imp gpm + 7.8 Imp gpm)
Pilot pump	Gear pump - max flow: 9.9 ℓ /min(2.6 US gpm, 2.2 Imp gpm)
Maximum system pressure	Boom/Arm/Bucket: 230 kgf/cm ² (225bar) Travel: 210 kgf/cm ² (205bar) Swing: 230 kgf/cm ² (225bar)

SWING MECHANISM

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single-row, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Swing parking brake is spring-set, hydraulic-released disc type.

Swing speed	9.58 rpm
Rear swing radius	1,102mm(3'8")

SUPER-STRUCTURE REVOLVING FRAME

A deep, full-reinforced box section. Heavy gauge steel plates used for ruggedness.

UNDERCARRIAGE

Tractor type undercarriage. Heavy-duty track frame, all welded stress-relieved structure. Top grade materials are used for toughness. Side frames are welded, securely and rigidly, to the track frame. Lifetime-lubricated track rollers, idlers with floating seals.

OPERATOR'S CAB

A roomy, independent, shock and noise-free operator's cab, four-side safety glass windows gives all-round visibility.

Front window slides up and stores in the roof and side window can be opened for ventilation. Fully adjustable suspension seat. Air conditioner. ISO standard cab.

LwA External noise	
Guaranteed Sound Power Level	97dB(A)(2000/14/EC)
LpA Operator noise	
	77dB (A) (ISO 6396)

WEIGHT

Boom 2,900 mm (9'6")/ Bucket SAE 0.175 m³ (0.229 yd³)/
Rubber shoe 400mm (1'4")

Arm Length	Operating Weight	Ground Pressure
1,480 mm (6'2")-rubber	5900 kg (13,007 lb)	0.34kgf/cm ² (33 kpa, 4.8 psi)
1,480 mm (6'2")-steel	6,025 kg (13,283 lb)	0.34kgf/cm ² (33 kpa, 4.8 psi)

BUCKET

Capacity		Width		Weight	Recommendation	
PCSA, heaped	CECE heaped	Without side cutters	With side cutters		2,900mm (9'6") Boom	
					1,480mm (4'10")Arm	1,900mm (6'3")Arm
0.175m ³ (0.229yd ³)	0.151m ³ (0.20yd ³)	654mm (2'2")	724mm (2'5")	141 kg (311 lb)	B	B
0.070m ³ (0.092yd ³)	0.06m ³ (0.08yd ³)	300mm (1')	362mm (1'2")	94 kg (206 lb)	A	A

A. Suitable for materials with density of 2,000 kg/m³ (3,370 lb/CU . yd) or less

B. Suitable for materials with density of 1,600 kg/m³ (2,700 lb/CU . yd) or less

C. Suitable for materials with density of 1,100 kg/m³ (1,850 lb/CU . yd) or less

DRIVE

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gears. Two levers of foot pedal control provide smooth travel or counter-rotation upon demand.

Travel speed (fast/slow)	3.9/2.07 km/h (2.2 /1.3 mph)
Maximum traction force	5.3 ton (11,685 lbf)
Maximum grade	30° / 58%

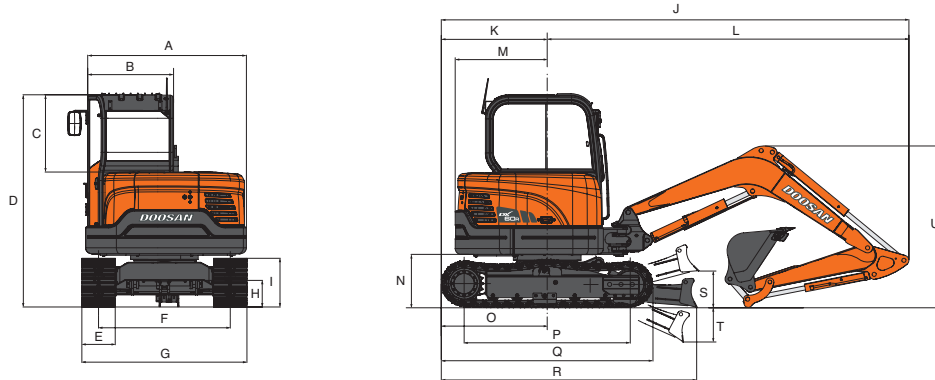
REFILL CAPACITIES

Fuel tank	78 ℓ (20.6 US gal, 17.15 Imp gal)
Cooling system (Radiator capacity)	10 ℓ (2.64 US gal, 2.20 Imp gal)
Engine oil	11.6 ℓ (3.06 US gal, 2.55 Imp gal)
Hydraulic system	100 ℓ (26.4 US gal, 21.98 Imp gal)
Hydraulic tank	65 ℓ (17.2 US gal, 14.3 Imp gal)

DX60R

Dimensions & Working range

DIMENSIONS

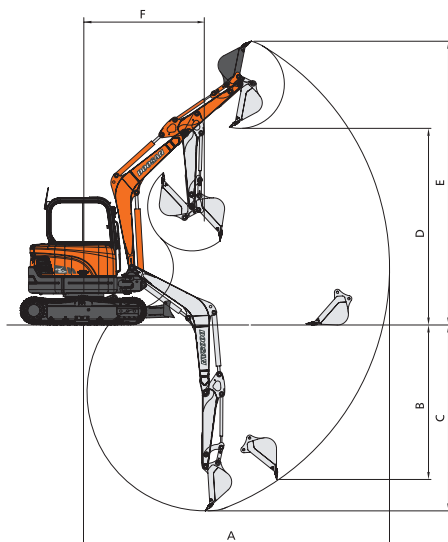


Boom type	2,900mm(9'6")
Arm type	1,480mm(4'10")
A	1,930mm(6'3")
B	1,030mm(3'5")
C	827mm(3)
D	2,550mm(8'4")
E	400mm(1'4")
F	1,580mm(5'2")
G	1,980mm(6'6")
H	320mm(1'1")
I	580mm(1'11")
J	5,565mm(18'5")
K	1,270mm(4'2")
L	4,295mm(14'3")
M	1,102mm(3'7")
N	820mm(2'1")
O	1,805mm(4'2")
P	1,990mm(6'6")
Q	2,550mm(8'4")
R	3,080mm(10'0")
S	440mm(1'5")
T	410mm(1'4")
U	1,865mm(6'4")

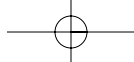
DIGGING FORCE (ISO)

Bucket (PCSA)	0.070m ³	0.175m ³
Digging force	4,070 kgf	4,070 kgf
	39.9 kN	39.9 kN
	8,963 lbf	8,963 lbf
Arm	1,480mm(4'10")	1,900mm(6'3")
Digging force	2,650 kgf	2,300 kgf
	26.0 kN	22.6 kN
	5,844 lbf	5,056 lbf

WORKING RANGE

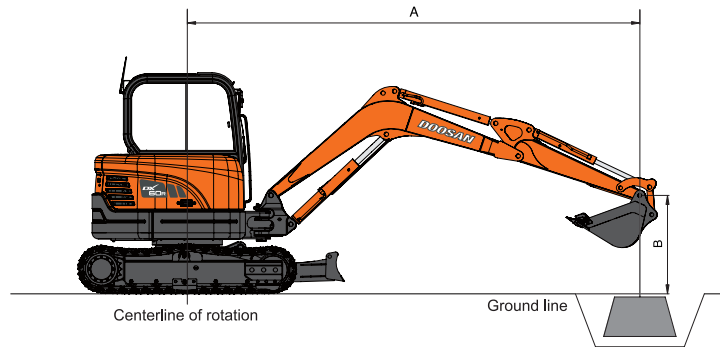


Boom type	2,900mm(9'6")	
Arm type	1,480mm(4'10")	1,900mm(6'3")
Bucket type (SAE)	0.175m ³ (0.229yd ³)	0.175m ³ (0.229yd ³)
A Max. digging reach	6,130mm(20'1")	6,502mm(21'4")
B Max. vertical wall depth	3,095mm(10'2")	3,165mm(10'5")
C Max. digging depth	3,725mm(12'3")	4,144mm(13'7")
D Max. loading height	3,940mm(13)	4,124mm(13'6")
E Max. digging height	5,686mm(18'8")	5,853mm(19'2")
F Min. swing radius	2,416mm(7'11")	2,499mm(8'2")



DX60R

Lifting Capacity



[Dozer up]

Metric Boom : 2,900mm (9'6") Arm : 1,480mm (4'10") Bucket : 0.175m³ (0.22 yd³) Shoe : 400mm (1'4") Unit : 1,000kg

A(m)	1		2		3		4		5		Max. Reach		A(m)
B(m)													
4							*1.26	0.92			*1.22	0.85	4.17
3							*1.27	0.92			0.97	0.65	4.83
2					2.11	1.41	1.32	0.89	0.91	0.6	0.86	0.56	5.16
1					2	1.3	1.28	0.85	0.9	0.59	0.83	0.54	5.24
O (Ground)					1.95	1.26	1.25	0.82	0.89	0.58	0.86	0.56	5.08
-1	*2.43	*2.43	*2.94	2.48	1.95	1.26	1.24	0.81			0.99	0.65	4.65
-2			*3.63	2.54	1.98	1.29					1.36	0.9	3.83

Feet

Unit : 1,000lb

A(ft)	5		10		15		Max. Reach		A(ft)
B(ft)									
15							*2.98	2.47	11.66
10					2.38	1.6	2.17	1.44	15.77
5			4.41	2.92	2.32	1.54	1.85	1.21	17.15
O (Ground)			4.19	2.71	2.24	1.47	1.91	1.24	16.66
-5	*7.58	*7.58	4.21	2.73			2.49	1.64	14.05

[Dozer down]

Metric Boom : 2,900mm (9'6") Arm : 1,480mm (4'10") Bucket : 0.175m³ (0.22 yd³) Shoe : 400mm (1'4") Unit : 1,000kg

A(m)	1		2		3		4		5		Max. Reach		A(m)
B(m)													
3							*1.29	0.92			*1.12	0.65	4.83
2					*2.13	1.41	*1.54	0.89	*1.33	0.6	*1.12	0.56	5.16
1					*2.87	1.3	*1.84	0.85	*1.42	0.59	*1.20	0.54	5.24
O (Ground)					*3.09	1.26	*2.00	0.82	*1.45	0.58	*1.39	0.56	5.08
-1	*2.43	*2.43	*2.94	2.48	*2.89	1.26	*1.92	0.81			*1.45	0.65	4.65
-2			*3.63	2.54	*2.25	1.29					*1.45	0.9	3.83

Feet

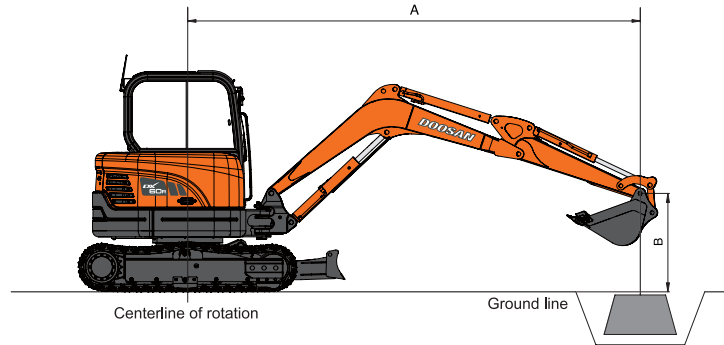
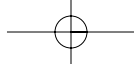
Unit : 1,000lb

A(ft)	5		10		15		Max. Reach		A(ft)
B(ft)									
15							*2.98	2.47	11.66
10					*2.80	1.6	*2.46	1.44	15.77
5			*5.43	2.92	*3.26	1.54	*2.53	1.21	17.15
O (Ground)			*6.65	2.71	*3.65	1.47	*3.06	1.24	16.66
-5	*7.58	*7.58	*5.68	2.73			*3.23	1.64	14.05

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

: Rating Over Front
 : Rating Over Side or 360 degree





[Dozer up]

Metric Boom : 2,900mm (9'6") Arm : 1,900mm (6'3") Bucket : 0.175m³ (0.22 yd³) Shoe : 400mm (1'4") Unit : 1,000kg

A(m)	1		2		3		4		5		Max. Reach		A(m)		
B(m)															
5													*1.14	1.11	3.59
4							*0.98	0.94					*0.95	0.7	4.64
3							*1.07	0.93	0.93	0.61			0.85	0.56	5.23
2					*1.72	1.44	1.33	0.89	0.91	0.6			0.76	0.49	5.53
1					2.01	1.32	1.28	0.84	0.89	0.58			0.73	0.47	5.60
O (Ground)			*1.47	*1.47	1.93	1.25	1.23	0.8	0.87	0.56			0.76	0.48	5.46
-1	*2.07	*2.07	*2.65	2.41	1.91	1.23	1.22	0.79	0.87	0.56			0.85	0.55	5.07
-2	*3.21	*3.21	*4.09	2.46	1.93	1.25	1.23	0.8					1.09	0.71	4.35
-3			*2.38	*2.38									*1.31	*1.31	2.99

Feet

Unit : 1,000lb

A(ft)	5		10		15		Max. Reach		A(ft)	
B(ft)										
15								*2.29	1.93	13.53
10					*2.37	1.61		1.89	1.24	17.09
5			4.47	2.97	2.31	1.53		1.64	1.05	18.35
O (Ground)			4.16	2.68	2.21	1.44		1.67	1.07	17.90
-5	*6.35	*6.35	4.12	2.65	2.19	1.42		2.08	1.35	15.55
-10								*2.84	*2.84	9.46

[Dozer down]

Metric Boom : 2,900mm (9'6") Arm : 1,900mm (6'3") Bucket : 0.175m³ (0.22 yd³) Shoe : 400mm (1'4") Unit : 1,000kg

A(m)	1		2		3		4		5		Max. Reach		A(m)		
B(m)															
5													*1.14	1.11	3.59
4							*0.98	0.94					*0.95	0.7	4.64
3							*1.07	0.93	*1.10	0.61			*0.89	0.56	5.23
2					*1.72	1.44	*1.35	0.89	*1.19	0.6			*0.90	0.49	5.53
1					*2.57	1.32	*1.69	0.84	*1.33	0.58			*0.97	0.47	5.60
O (Ground)			*1.47	*1.47	*3.02	1.25	*1.93	0.8	*1.43	0.56			*1.12	0.48	5.46
-1	*2.07	*2.07	*2.65	2.41	*3.00	1.23	*1.96	0.79	*1.37	0.56			*1.33	0.55	5.07
-2	*3.21	*3.21	*4.36	2.46	*2.58	1.25	*1.67	0.8					*1.38	0.71	4.35
-3			*2.38	*2.38									*1.31	*1.31	2.99

Feet

Unit : 1,000lb

A(ft)	5		10		15		Max. Reach		A(ft)	
B(ft)										
15								*2.29	1.93	13.53
10					*2.37	1.61		*1.97	1.24	17.09
5			*4.62	2.97	*2.95	1.53		*2.05	1.05	18.35
O (Ground)			*6.48	2.68	*3.54	1.44		*2.46	1.07	17.90
-5	*6.35	*6.35	*6.11	2.65	*3.27	1.42		*3.00	1.35	15.55
-10								*2.84	*2.84	9.46

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

: Rating Over Front
 : Rating Over Side or 360 degree

