

* | 37,6 kW / 50,4 Hp at 2.200 rpm

▲ | 5.875 kg

📏 | 3.725 - 4.145 mm



DX60R | Compact Equipment



DOOSAN DX6oR hydraulic excavator: a new model with novel features



The new DX6oR hydraulic excavator offers additional value to the operator.

The new DX6oR was developed with the concept of “providing optimum value to the end user”.

In concrete terms, this translates into :

- **Increased production and improved fuel economy** achieved with the electronic optimization of the hydraulic system and the new generation engine.
- **Improved ergonomics**, increased comfort and excellent all round visibility ensuring a safe and pleasant working environment.
- **Improved reliability**, using high performance materials combined with new methods of structural stress analysis, have lead to increased component life expectancy, thus reducing running costs.
- **Reduced maintenance** increases the availability and lowers the operating costs of the excavator.



Technical specifications



* Engine

• Model	Yanmar 4TNV98-ESDB6
• Number of cylinders / Piston displacement	4 / 3.319 cc
• Nominal flywheel power	37,6 kW (50,4 Hp) at 2.200 rpm (SAE J 1349, net) 37,6 kW (51,1 Ps) at 2.200 rpm (DIN 6271)
• Max torque	19,3 ~21 kgf.m / 1.400 rpm
• Bore & stroke	98 mm x 110 mm
• Alternator	12 V / 60 Ah

* Operator's cab

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

* Hydraulic system

• Main pumps	2 variable displacement axial piston pumps 1 gear pump Max flow: 2 x 49,3 l/min + 35,6 l/min
• Pilot pump	Gear pump - max flow: 9,9 l/min
• Maximum system pressure	Boom/Arm/Bucket: 230 kgf/cm ² (225bar) Travel: 210 kgf/cm ² (205bar) Swing: 230 kgf/cm ² (225bar)

* Buckets

Capacity (m ³)		Width (mm)		Weight (Kg)	Recommendation	
PCSA heaped	CECE heaped	Without side cutters	With side cutters		1.480 mm Boom 1.480 mm Arm	2.900 mm Boom 1.900 mm Arm
0,175 m ³	0,15 m ³	654 mm	724 mm	141 kg	B	B
0,07 m ³	0,06 m ³	300 mm	362 mm	96 kg	A	A

A. Suitable for materials with a density less than or equal to 2,000 kg/m³
B. Suitable for materials with a density less than or equal to 1,600 kg/m³

* Swing mechanism

Swing parking brake is spring-set, hydraulic-released disc type.	
• Swing speed	9,58 rpm
• Rear swing radius	1.102 mm
• Left / Right Swing angle	70° / 50°

* Drive

• Travel speed (high/low)	3,9 / 2,1 km/h
• Maximum traction force	5.300 kgf
• Maximum grade	30° / 58 %

* Weight

Boom 2.900 mm • Arm 1.480 mm • Bucket SAE 0,175 m ³ • Shoe 400 mm		
Shoe	Operating weight	Ground pressure
Rubber	5.900 kg	0,33 kgf/cm ²
Steel	6.025 kg	0,34 kgf/cm ²

* Undercarriage

Hydraulic track adjusters with shock-absorbing recoil springs.	
Lower rollers (per side)	5
Track shoes	Rubber/steel
Shoe width	400 mm

* Refill capacities

Fuel tank	78 l
Cooling system (radiator capacity)	10 l
Engine oil	11,6 l
Hydraulic system	100 l
Hydraulic tank	65 l
Final drive	1,4 l

Performance

DX6oR 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 newly designed swing bracket and the boom swing cylinder size ensures powerful and stable performance.



RPM dial / Auto idle: Thanks to the electronic control, the optimal engine rpm can be set per workload. The auto idle function applied as standard saves fuel considerably.



Main control valve: The machine can be precisely controlled in single and complex operation. As the circuit that ensures the optimal front operation is adopted, the boom holding function prevents the boom from self lowering.



Higher greadability 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 DX6oR shows distinguished capability in working on the slope.

Comfort

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.



Fixed-Type Instrument Panel



Adjustable seat, head rest and arm rests

Enlarged entrance & exit: Accessibility is improved & the front workspace is maximized

Comfortable operating area: The operating controls, the air conditioning system & the wide field of view provide the best working conditions



Hydraulic joystick

Maintenance

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

The reliability of a machine reduces the overall lifetime operating costs. Doosan uses finite element and 3-dimensional computer simulation.



Easy maintenance: Access to the various parts of the engine is from the side.



Engine mounting rubber



Grease piping: Integrated for easy maintenance of the swing bearing and cylinder.



Tilting cabin for easy maintenance

Standard and optional equipment

* Standard equipment

• Hydraulic system

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

• Cab & interior

- Cab mounted on viscous support
- Air-conditioner
- Aircon filter
- Adjustable suspension seat with adjustable head rest and arm rests
- Sliding front window removable in two parts
- Room light
- Intermittent windshield wiper
- Storage box
- Engine speed (RPM) control dial
- Loudspeakers and connections for radio
- Remote radio control on console
- 12 V power outlet
- PC interface port for Diagnostics
- Hydraulic control levers with 3 switches
- Glass antenna

• Safety

- Large handrail
- Seatbelt
- Hydraulic safety lock lever
- Safety glass windows
- Hammer for emergency escape
- Emergency engine stop (switch)
- Accumulator

• Undercarriage

- Hydraulic track tension adjuster
- Shoes (400 mm)
- Track guards
- Dozer blade (1.880 mm)

• Others

- Double element air cleaner
- Fuel pre-filter
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Alternator 12 V, 60 A
- Horn
- Halogen working lights
 - Boom mounted 2
- Auto idle
- Fuel tank filling pump

* Optional equipment

• Cab & interior

- Seat heater
- Radio/CD
- Radio/CD/MP3
- Additional working lamp
- Sun visor

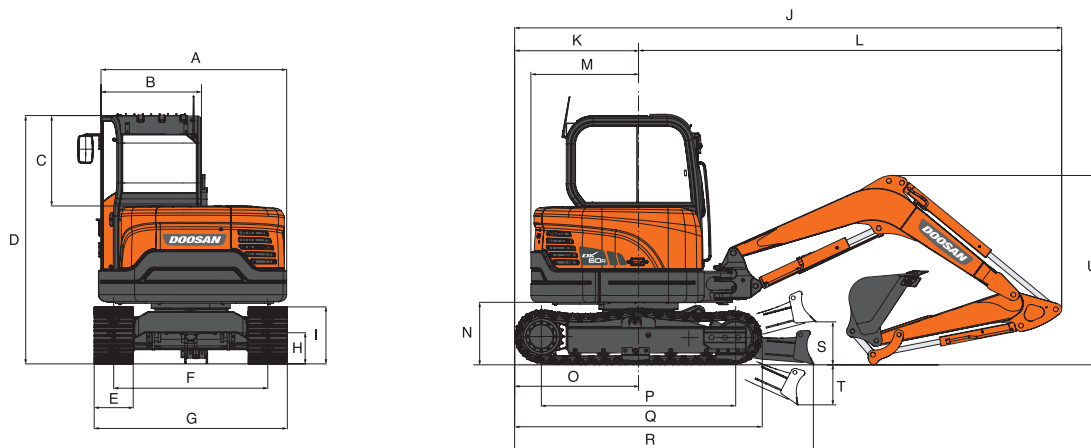
• Safety

- Boom safety valves
- Dozer safety valves
- Overload warning device
- Travel alarm
- Rotating beacon
- Left review mirror

• Others

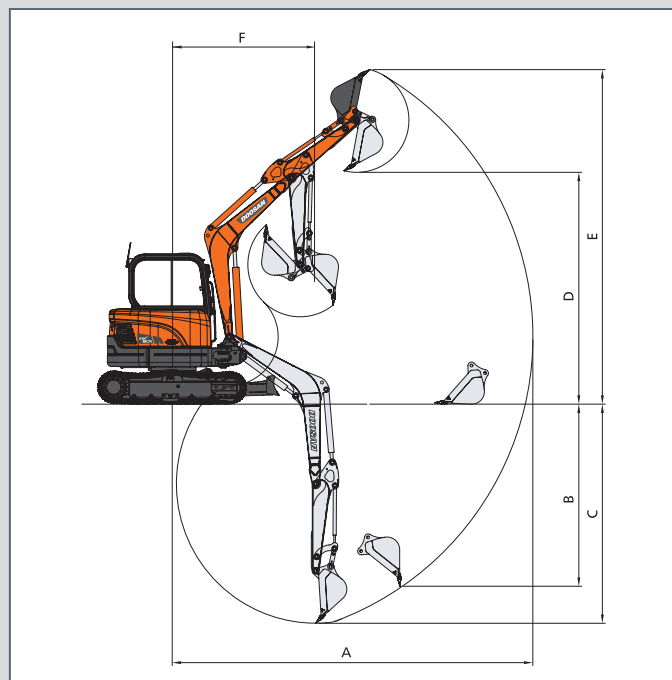
- Hydraulic piping for crusher
- Hydraulic piping for tilting and rotating
- Hydraulic piping for quick coupler
- Rubber track

Dimensions and working ranges



* Dimensions

Boom	2.900 mm
Arm	1.480 mm
A. Overall width of upper structure	1.930 mm
B. Cabin width	1.030 mm
D. Overall height	2.550 mm
E. Track shoe width	400 mm
F. Track gauge	1.580 mm
G. Overall track width	1.980 mm
H. Ground clearance	320 mm
I. Track height	580 mm
J. Overall length	5.565 mm
M. Tail swing radius	1.102 mm
N. Clearance under counterweight	820 mm
P. Tumbler distance	1.990 mm
Q. Track length	2.550 mm
R. Track to dozer length	3.080 mm
S. Height of dozer up	440 mm
T. Height of dozer down	410 mm
U. Boom transport height	1.865 mm



* Digging force (ISO)

Bucket (PCSA)	0,175 m³	0,07 m³
Digging force	4.070 kgf 39,9 kN	4.070 kgf 39,9 kN
Arm	1.480 mm	1.900 mm
Digging force	2.650 kgf 26 kN	2.300 kgf 22,6 kN

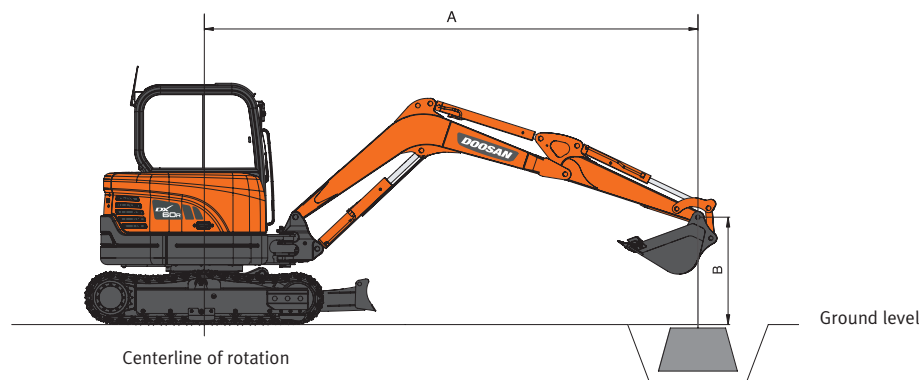
At power boost (ISO)



* Working range

Boom	2.900 mm	
Arm	1.480 mm	1.900 mm
Bucket type (SAE)	0,175 m³	0,07 m³
A Max. digging reach	6.130 mm	6.500 mm
B Max. vertical wall depth	3.095 mm	3.165 mm
C Max. digging depth	3.725 mm	4.145 mm
D Max. loading height	3.940 mm	4.124 mm
E Max. digging height	5.686 mm	5.853 mm
F Min. swing radius	2.415 mm	2.500 mm

Lifting capacity



**DX
60R**

STANDARD — DOZER UP— Boom: 2.900 mm - Arm: 1.480 mm - Bucket: SAE 0,175 m³ (CECE 0,15 m³) - Shoe: 400 mm

Units: 1.000 kg

A (m)	1		2		3		4		5		Max. Reach		A(m)
4							*1,26	0,92			*1,22	0,85	4,17
3							*1,29	0,92			0,97	0,65	4,83
2					2,11	1,41	1,32	0,89	0,91	0,60	0,86	0,56	5,16
1					2,00	1,30	1,28	0,85	0,90	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	0,90	3,83

STANDARD — DOZER DOWN — Boom: 2.900 mm - Arm: 1.480 mm - Bucket: SAE 0,175 m³ (CECE 0,15 m³) - Shoe: 400 mm

Units: 1.000 kg

A (m)	1		2		3		4		5		Max. Reach		A(m)
3							*1,29	0,92			*1,12	0,65	4,83
2					*2,13	1,41	*1,54	0,89	*1,33	0,60	*1,12	0,56	5,16
1					*2,87	1,30	*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	0,90	3,83

OPTIONAL — DOZER UP— Boom: 2.900 mm - Arm: 1.900 mm - Bucket: SAE 0,175 m³ (CECE 0,15 m³) - Shoe: 400 mm

Units: 1.000 kg

A (m)	1		2		3		4		5		Max. Reach		A(m)
5											*1,14	1,11	3,59
4							*0,98	0,94			*0,95	0,70	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	0,60	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	0,80	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	0,80			1,09	0,71	4,35
-3			*2,38	*2,38							*1,31	*1,31	2,99

OPTIONAL — DOZER DOWN — Boom: 2.900 mm - Arm: 1.900 mm - Bucket: SAE 0,175 m³ (CECE 0,15 m³) - Shoe: 400 mm

Units: 1.000 kg

A (m)	1		2		3		4		5		Max. Reach		A(m)
5											*1,14	1,11	3,59
4							*0,98	0,94			*0,95	0,70	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	0,60	*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	0,80	*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	0,80			*1,38	0,71	4,35
-3			*2,38	*2,38							*1,31	*1,31	2,99

1. The nominal forces are based on the SAE J1097 standard.

2. The load point is the hook at the rear of the bucket.

3. * = The nominal loads are based on hydraulic capacity.

4. The nominal loads do not exceed 87% of the hydraulic capacity or 75% of the capacity of the swing.

: Over front

: Over side or 360°



Doosan Infracore
Construction Equipment

