

DOOSAN

Mini Excavators

DX62R-7 DX63-7

	DX62R-7	DX63-7
Maximum power	44.3 kW	44.3 kW
Operating weight	6216 kg	6218 kg
Bucket capacity	0.175 m ³	0.175 m ³
Emission standard	Stage V	Stage V



TECHNICAL SPECIFICATIONS

ENGINE

Designed to deliver superior performance and fuel efficiency, the Doosan D24 diesel engine fully meets the latest Stage V emission regulations. To optimize machine performance, the engine uses high-pressure fuel injectors, air-to-air inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, Wastegate Turbocharged, Diesel Oxidation Catalyst (DOC), Diesel Particulate Filter (DPF) and EGR.

Model

Doosan D24

No. of cylinders

4

Rated power at 2200 rpm

SAE J1995 44.3 kW (65 hp)

Max. torque at 1600 rpm

260 Nm

Idle (low - high)

1000 - 2300 rpm

Displacement

2392 cm³

Bore × stroke

90 mm × 94 mm

Starter

12 V / 2.5 kW

Batteries - Alternator

1 × 12 V, 100 Ah – 12 V, 90 A

Air filter

Double element air cleaner

UNDERCARRIAGE

Extremely robust construction throughout – made of high-quality, durable materials, with all welded structures designed to limit stresses.

- Track rollers lubricated for life
- Idlers and sprockets fitted with floating seals
- Track shoes made of induction-hardened alloy with triple grouser *
- Heat-treated connecting pins

Upper rollers (standard shoe)

1

Lower rollers

5

Number of links & shoes per side *

39

Link pitch *

135 mm

* for steel track option

HYDRAULIC SYSTEM

The e-EPOS (Electronic Power Optimising System) is the brain of the excavator – minimising fuel consumption and optimizing the efficiency of the hydraulic system for all working conditions. To harmonize the operation of the engine and the hydraulics, the e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link.

- 2 travel speeds offer either increased torque or high speed
- Load-sensing pump system for fuel savings
- Auto-deceleration system
- 4 operating modes, 4 power modes
- Flow and pressure control of auxiliary hydraulic circuits from control panel
- Computer-aided pump flow control

Main pump

Variable axial piston pump

Maximum flow at 2300 rpm 144.9 l/min

	Relief valve settings	
	DX62R-7	DX63-7
Implement	280 kgf/cm ²	
Travel	280 kgf/cm ²	
Swing	220 kgf/cm ²	

HYDRAULIC CYLINDERS

High-strength steel piston rods and cylinder bodies. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
Boom	1	105 × 65 × 665
Arm (Standard)	1	85 × 55 × 737
Arm (Available)	1	85 × 55 × 816
Bucket	1	75 × 45 × 600
Dozer	1	110 × 60 × 183
Boom swing	1	95 × 55 × 449

CAB

The air-conditioning and heating systems are integrated for optimal climate control. An automatically-controlled fan supplies the pressurized and filtered cab air, which is distributed throughout the cab from multiple vents.

The heated air suspension, adjustable operator's seat includes a seat belt. The operator can adjust the ergonomic seat and joystick console separately according to his preferences.

A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)

Declared: 73 dB(A)

Measured: 72 dB(A)

A-weighted sound power level, LwAd (2000/14/EC)

Declared: 98 dB(A)

Measured: 97 dB(A)

SWING MECHANISM

The swing mechanism uses an axial piston motor, driving a 2-stage planetary reduction gear bathed in oil for maximum torque.

- Swing bearing: single-row, shear type ball bearing with induction hardened internal gear
- Internal gear and pinion immersed in lubricant

Maximum swing speed

9.8 rpm

Maximum swing torque

1380 kgf·m

FLUID CAPACITIES

Fuel tank	78 l
Cooling system (radiator)	8.5 l
Hydraulic oil tank	67 l
Engine oil	9.2 l
Travel device	2 × 0.9 l

DRIVE

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers/foot pedals guarantee smooth travel with counter-rotation on demand. The track frame protects the travel motor, brake and planetary gears. The multi-disc track brakes are spring-applied and hydraulic released.

Travel speed (low - high)

2.8 - 4.7 km/h

Maximum traction

4.58 t

Maximum gradeability

35° / 70%

WEIGHT & GROUND PRESSURE

	Machine weight (kg)		Ground pressure (kgf/cm ²)	
	DX62R-7	DX63-7	DX62R-7	DX63-7
400 mm rubber shoes	6216	6218	0.353	0.353
400 mm steel tracks	6400	6402	0.369	0.369

TECHNICAL SPECIFICATIONS

COMPONENT WEIGHTS

Item	Weight (kg)		Remarks
	DX62R-7	DX63-7	
Upper structure without front	3363	3367	Without counterweight
Counterweight	830		
Lower structure assembly	2015		Rubber
Front assembly	842		With 0.175 bucket
Boom assembly	239		2.9 boom
Arm assembly	147		1.9 arm
Bucket	141		0.18 bucket
Boom cylinder	77.6		Lock v/v excluded
Arm cylinder	60		Lock v/v excluded
Bucket cylinder	34		Lock v/v excluded
Dozer	285		
Dozer cylinder	44		

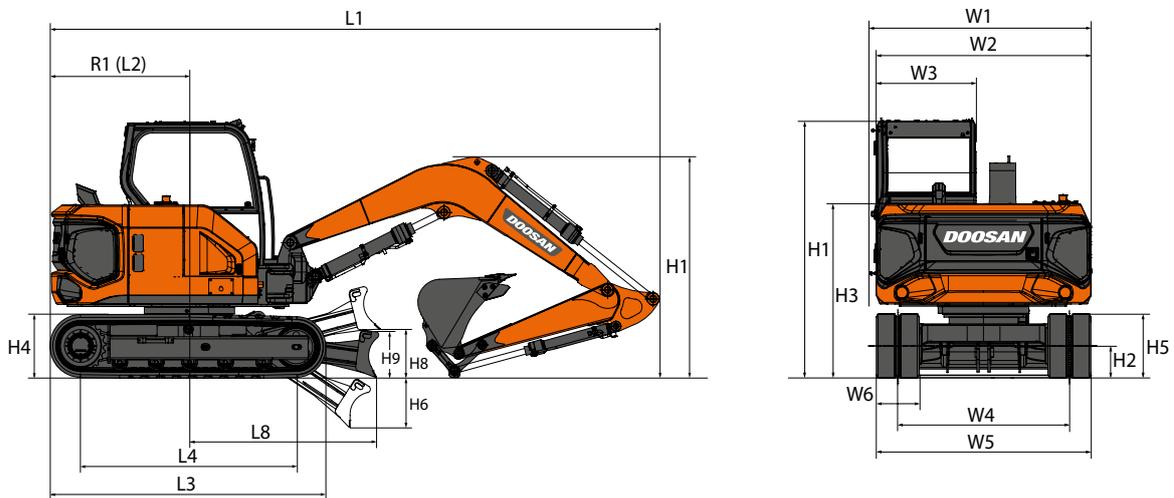
ARMS

	Length (mm)	Weight (kg)	Digging forces (ISO) (ton)
DX62R-7/DX63-7 (Standard)	1600	114	2.8
DX62R-7/DX63-7 (Available)	1900	148	2.8

BUCKETS

	Capacity (m³) SAE	Width (mm)		Weight (kg)	Digging forces (ISO) (ton)
		With side cutters	W/O side cutters		
DX62R-7 (Standard)	0.175	712.5	638	141	4.4
DX63-7 (Standard)					

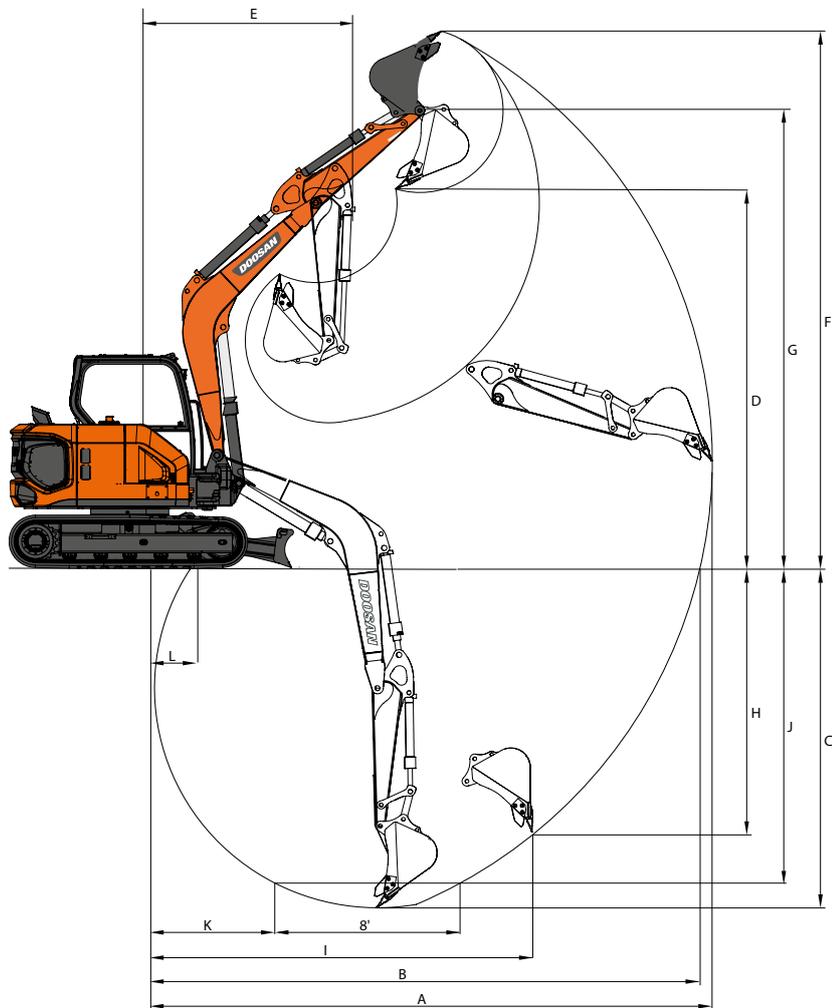
DIMENSIONS



DIMENSIONS

		Unit	DX62R-7	DX63-7
Boom length		mm	2900	2900
Arm length		mm	1900	1900
Bucket capacity		m ³	0.175	0.175
Undercarriage (track + grouser)		-	Rubber	Rubber
L1	Overall length	mm	5631	5571
H1	Overall height	Boom	2385	
		Cab	2575	
W1	Overall width	mm	1980	
R1	Rear swing radius	mm	1180	1350
H2	Ground clearance	mm	208	
L2	Rear end distance	mm	1180	1350
W2	House width	mm	1750	
W3	Cab width	mm	1150	
H3	Height over cover	mm	1588	
H4	Counterweight clearance	mm	628	
A1/A2	Boom swing angle (left/right)	°	60/53	
H5	Track height	mm	562	
L3	Track length	mm	2486	
L4	Tumbler distance	mm	1990	
W4	Track gauge	mm	1580	
W5	Undercarriage width	mm	1980	
W6	Shoe width	mm	400	
etc.	Grouser/lug height	mm	20	
H6	Dozer digging depth	mm	460	
H8	Dozer lift clearance	mm	488	
H9	Dozer blade height	mm	410	
L8	Distance to dozer end	mm	1840	

WORKING RANGE



WORKING RANGE

	Unit	DX62R-7		DX63-7	
Boom length	mm	2900		2900	
Arm length	mm	1900	1600	1900	1600
Bucket capacity	m³	0.175		0.175	
A Max. digging reach	mm	6610	6310	6440	6140
B Max. digging reach (ground)	mm	6485	6175	6315	6005
C Max. digging depth	mm	4095	3795	4095	3795
D Max. dumping height	mm	4270	4040	4270	4040
E Min. swing radius	mm	2850	2685	2680	2515
F Max. digging height	mm	6025	5790	6025	5790
G Max. bucket pin height	mm	5155	4925	5155	4925
H Max. vertical wall depth	mm	2580	2380	2580	2380
I Max. radius vertical	mm	5155	4935	4985	4765

STANDARD AND OPTIONAL EQUIPMENT

● Standard ○ Optional

Engine

- Doosan D24 - Common rail diesel engine with direct fuel injection, Stage V compliant
- Auto-idle function

Hydraulic system

- Variable pistons pump
- Breaker piping with direct return to the tank
- 2-way high flow auxiliary line with settings from the display panel
- Cylinder cushioning & contamination seals
- Rotation line (Pero)
- Quick coupler line

Cab & interior

- Pressurized, sound-insulated cab
- Air suspension seat with heater
- Air conditioning
- Pull-up type front window and removable lower front window
- Sliding right windows with lock
- Ceiling light
- Intermittent upper windshield wiper
- Multiple storage compartments
- Flat, spacious, easy-to-clean floor
- Cup holder
- Anti-theft protection
- DOOSAN Smart Touch - 8" touch screen, all-in-one
- Electric horn
- Engine speed (RPM) control dial
- Hydrostatic 2-speed travel system with manual or automatic shift
- DAB radio with handsfree call system
- USB charger & 12 V power socket
- Serial communication port for laptop PC interface
- Adjustable PPC for arm, boom, bucket and swing, with sliding proportional control for attachments and auxiliary hydraulic buttons
- Travel pedals and hand levers
- Master key

Safety

- Roll Over Protective Structure (ROPS)
- Boom and arm cylinder safety valves
- Overload warning device
- Rotating beacon
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rearview mirrors
- Emergency engine stop switch
- Reinforced cast steel pivot points
- Battery cut-off switch
- LED boom light
- Lockable fuel cap
- LED lights (2x on top of the cab)
- Falling Objects Guard System - top and front cab guards (ISO 10262 level II and SAE J1356)
- Rear camera

Other

- DX62R-7: 2900 mm mono boom - 1600 mm arm - 830 kg counterweight
- DX63-7: 2900 mm mono boom - 1600 mm arm - 830 kg counterweight
- DoosanCONNECT (telematic system)
- Boom cylinder guard
- Double element air cleaner
- Self-diagnostic function
- Battery (12 V, 100 Ah), alternator (12 V, 80 A)
- Remote greasing for swing circle and workgroup pivot points
- DX62R-7: 1900 mm arm
- DX63-7: 1900 mm arm

Undercarriage

- Fixed undercarriage
- Hydraulic track adjuster
- 400 mm rubber tracks
- Dozer blade with floating function
- 400 mm steel tracks (greased and sealed track links)
- Dozer lock valve (not compatible with floating dozer)

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DISCOVER MORE:
DX62R-7



DX63-7



DOOSAN