



Doosan Infracore
Construction Equipment

DX80R

Engine Power : 40.4 kW(54.2HP)@2,000rpm (SAE J1349, net)
Operational Weight : 8,330 kg (18,364 lb)-rubber
Bucket capacity(SAE) : 0.28 m³ (0.366 cu.yd)



Photo may include optional equipment



DX80R

Technical specifications

ENGINE

Model	4TNV98-ZWDB8
Number of cylinders	4
Nominal flywheel power	40.4 kW(54.2HP) @ 2,000 rpm (SAE J 1349, net)
Max torque	22.7~24.7 kgf.m / 1,400 rpm
Piston displacement	3,319cc (202.5 cu.in)
Bore & stroke	φ 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.

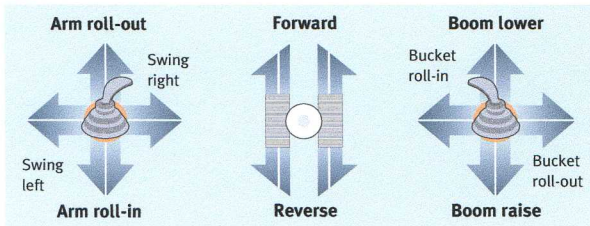
A cylinder cushion mechanism is provided for the boom and arm cylinders to assure shock-free operation and extend the life of the cylinders.

Cylinders	Quantity	Bore X Rod diameter X stroke
Boom	1	115 X 75 X 775mm(4.5" X 3.0" X 2'7")
Arm	1	100 X 65 X 866mm(3.9" X 2.6" X 2'10")
Bucket	1	85 X 55 X 690mm(3.3" X 2.2" X 2'3")

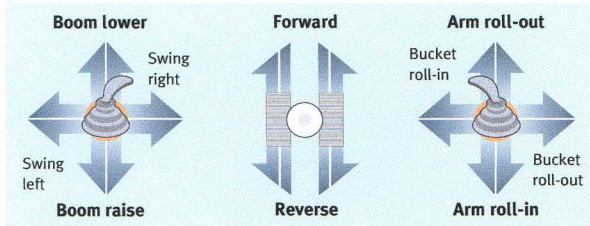
CONTROL IMPLEMENT LEVERS

Travel lever pedal pilot pressure control type. In ISO type, right lever is boom and bucket, left lever for swing and arm control. In BHL type right lever is arm and bucket, left lever for swing and boom control if pattern change equipped.

ISO



BHL



HYDRAULIC SYSTEM

Variable displacement axial piston tandem type pump.

Gear pump and control valve (10-spool) of section block construction.

This original design enables both independent and combined operations of all function, joystick control type operations.

Main pumps	Variable displacement axial piston pump max flow: 144 ℓ /min (38 US gpm, 31.7 Imp gpm)
Pilot pump	Gear pump - max flow: 22 ℓ /min (5.81 US gpm, 4.84 Imp gpm)
Maximum system pressure	Boom/Arm/Bucket: 300 kgf/cm ² (294 bar) Travel: 280 kgf/cm ² (275 bar) Swing: 220 kgf/cm ² (215 bar)

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	9.6 rpm
Rear swing radius	1,300mm(4'3")

SUPER-STRUCTURE REVOLVING FRAME

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

