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**PILING RIGS
AND EQUIPMENT**

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**Doosan DX340LC
with Movax SG75**

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Maximum power: 285.6 HP
Operating weight: 36.2 t
Max. bucket capacity: 2.01 m³



Technical specifications

ò Engine

Designed to deliver superior performance and fuel efficiency, the Doosan Stage IV diesel engine fully meets the latest emissions regulations. To optimise machine performance, the engine uses high-pressure fuel injectors, air-to-air inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, Variable Geometry Turbocharged, Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

DX340LC-5	
Model	Doosan DL08P
No. of cylinders	6
Rated power at 1800 rpm	
(SAE J1995)	213 kW (285.6 HP)
(SAE J1349)	209.1 kW (208.4 HP)
Max. torque at 1300 rpm	1275 Nm
Idle (low - high)	800 [±10] - 1900 [±25] rpm
Piston displacement	7640 cm ³
Bore × stroke	108 mm × 139 mm
Starter	24 V × 6 kW
Batteries - Alternator	2 × 12 V, 150 Ah - 24 V, 80 A
Air filter	Double element air cleaner and pre-filtered Cyclone Turbo dust separator

ò 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
- Hydraulic track adjuster with shock-absorbing tension mechanism

▶ Number of rollers and track shoes per side

DX340LC-5	
Upper rollers (standard shoe)	2
Lower rollers	9
Number of links & shoes per side	48
Link pitch	216 mm

ò Weight

	Shoe width (mm)	Machine weight (t)	Ground pressure (kgf/cm ²)
Triple grouser	600 (Std)	36.2	0.69
	700	36.7	0.60
	800	37.1	0.53
	850	37.3	0.50
	900	-	-
Double grouser	600	36.9	0.71

ò Component weights

Item	Unit	DX340LC-5	Remarks
Upper structure without front	kg	16620	With counterweight
Lower structure assembly	kg	11874	
Front assembly	kg	7606	Based on standard *
Boom	mm kg	6500 / 6520 two-piece 2760 / 3062	Including bushing
Arm	mm kg	2600 / 3200 / 3950 1121 / 1285 / 1468	Including bushing

(*) DX340LC-5: standard front – 6500 mm boom, 3200 mm arm, 1.49 m³ GP bucket.

ò Hydraulic system

The e-EPOS (Electronic Power Optimising System) is the brain of the excavator - minimising fuel consumption and enabling the efficiency of the hydraulic system to be optimised for all working conditions.

To harmonise 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.

- The hydraulic system enables independent or combined operations
- 2 travel speeds offer either increased torque or high speed
- Cross-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 flowcontrol

▶ Pumps & system pressure

DX340LC-5	
Main pumps, type:	2 × variable displacement tandem axial piston pumps
Maximum flow at 1800 rpm	2 × 350 l/min
Pilot pump, type:	Gear pump
Maximum flow at 1800 rpm	24.12 l/min
Relief valve settings:	
Implement	350 kgf/cm ²
Travel	350 kgf/cm ²
Swing	300 kgf/cm ²
Pilot	40.8 kgf/cm ²

ò 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	2	150 × 100 × 1450
Arm	1	170 × 120 × 1805
Bucket	1	150 × 100 × 1300
Two-piece boom	1	180 × 110 × 1300

ò 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

▸ Swing speed & torque

	DX340LC-5
Maximum swingspeed	9.33 rpm
Maximum swingtorque	15093 kgf/m

ò 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.

▸ Speed & traction

	DX340LC-5
Travel speed	
(low - high)	3.9 - 6.3 km/h
Maximum traction	37.9 t
Maximum gradeability	35° / 70%

ò Fluid capacities

	DX340LC-5
Fuel tank	600 l
Cooling system (radiator)	50.6 l
Urea (def) tank	60 l
Hydraulic oil tank	380 l
Engine oil	39 l
Swing drive	8 l
Travel device	2 × 7 l

ò Cab

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

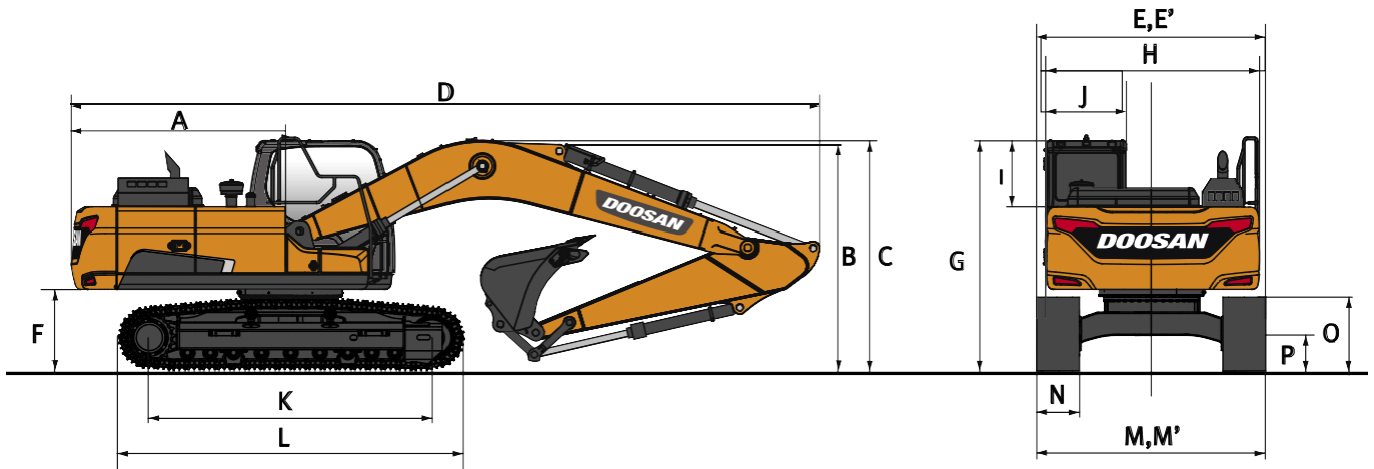
The heated air suspension, adjustable operator's seat includes a seat belt. The operator can adjust the ergonomic seat and joystick console separately according to his preferences.

▸ Noise emission

	DX340LC-5
A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)	70 dB(A)
A-weighted sound power level, LwAd (2000/14/EC)	Declared: 104 dB(A) Measured: 103 dB(A)

Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

Dimensions



Dimensions

	One-piece boom			Two-piece boom		
	6500			3450 LB + 3100 UB		
Boom length - mm						
Arm length - mm	2600	3200	3950	2600	3200	3950
Bucket capacity - m ³	1.83	1.49	1.25	1.83	1.49	1.25
A Tail swing radius - mm	3530	3530	3530	3530	3530	3530
B Shipping height (boom) - mm	3495	3255	3420	3465	3505	3860
C Shipping height (hose) - mm	3640	3390	3550	3515	3555	3910
D Shipping length - mm	11405	11315	11345	11345	11350	11280
E Shipping width std. - mm	3280	3280	3280	3280	3280	3280
E' Shipping width narrow - mm	3000	3000	3000	3000	3000	3000
F Counterweight clearance - mm	1195	1195	1195	1195	1195	1195
G Height over cab - mm	3080	3080	3080	3080	3080	3080
H House width - mm	3000	3000	3000	3000	3000	3000
H' House width (catwalk) - mm	-	-	-	-	-	-
I Cab height above house - mm	845	845	845	845	845	845
J Cab width - mm	1010	1010	1010	1010	1010	1010
K Tumbler distance - mm	4040	4040	4040	4040	4040	4040
L Track length - mm	4940	4940	4940	4940	4940	4940
M Undercarriage width std. - mm	3280	3280	3280	3280	3280	3280
M' Undercarriage width narrow - mm	3000	3000	3000	3000	3000	3000
N Shoe width std. - mm	600	600	600	600	600	600
O Track height - mm	1048	1048	1048	1048	1048	1048
P Ground clearance - mm	510	510	510	510	510	510



Suitable piles

Sheet piles	H-beams	Tubes
Width 400-1200 mm	Size H180-H500	Pipe clamps: (which are fitted to sheet pile jaws) Ø90 - Ø250 mm
"Depth" 265 mm		Tube reducer: (which are fitted to tube jaws) Ø193.7 - 610.0 mm
Pile length/weight 6m / 2800kg, 12m / 1900kg, 16m / 1300kg		

Technical data

Piler type	SG-65AR	SG-75TR
Weight without adapter (kg)	3230	
Height (mm)	2560	
Depth (mm)	1115	
Width (mm)	1270	
Excavator class (ton)	28 - 32	33 - 40
Max. return pressure (bar)	5	
Pressure settings (bar)	350	
Frequency (1/min)	2500 - 3000	
Eccentric moment (kgm)	6.6	7.6
Centrifugal force max (kN)	650	750
Ground vibration	normal	
Resonance free start and stop	no	
Driving method	vibra	
Swing / tilt angle (°)	360 / 30	