

Technical specifications

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, Wastegate Turbocharged, Exhaust Gas Recirculation (EGR) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

DX225LC-5, DX235LC-5 & DX235NLC-5	
Model	Doosan DLo6P
No. of cylinders	6
Rated power at 1800 rpm	
(SAE J1995)	124 kW (166 hp)
(SAE J1349)	121 kW (162 hp)
(ISO 9249)	121 kW (162 hp)
Max. torque at 1400 rpm	77 kgf.m (755 Nm)
Idle (low - high)	800 [±10] - 1900 [±25] rpm
Piston displacement	5890 cm ³
Bore × stroke	100 mm × 125 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 Turbo dust separator

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

DX225LC-5, DX235LC-5 & DX235NLC-5	
Upper rollers (standard shoe)	2
Lower rollers	8
Number of links & shoes per side	49
Link pitch	190 mm
Overall track length	4445 mm

Weight

		DX225LC-5	DX235LC-5	DX235NLC-5	DX225LC-5	DX235LC-5	DX235NLC-5
	Shoe width (mm)	Operating weight (t)			Ground pressure (kgf/cm ²)		
Triple grouser	500 HD (Std)	-	-	22.4	-	-	0.57
	600 HD	-	-	22.8	-	-	0.49
	600 (Std)	22.1	22.8	-	0.47	0.49	-
	700	22.4	23.1	-	0.41	0.42	-
	800	22.7	23.4	-	0.36	0.37	-
	900	23.0	23.7	-	0.33	0.34	-

Component weights

Item	Unit	DX225LC-5	DX235LC-5	DX235NLC-5	Remarks
Upper structure without front	kg	10278	10985	10685	With counterweight
Lower structure assembly	kg	7711	7613	7711	DX235LC-5: 600 mm - DX235NLC-5: HD 500 mm shoe
Front assembly	kg	4127	4127	4127	
Counterweight	kg	4300	5000	4700	DX235NLC-5 two-piece boom: counterweight 5000 kg
Boom	mm / kg	5700 / 1461 SLR 8500 / 1889	5700 / 1461		Including bushing
Boom, two piece	mm / kg	5850 / 1952			Including bushing
Arms	mm / kg	3500 / 794 - 2400 / 568 2-piece: 2400 / 568 2900 / 562 SLR: 6200/ 1055	2400 / 568 – 2900 / 652		Including bushing
Dozer blade (2990 mm)	kg	889	-		For 600 mm shoes. Dozer cylinder (each): 90kg

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 flow control

► Pumps & system pressure

DX225LC-5, DX235LC-5 & DX235NLC-5	
Main pumps, type:	2 × variable displacement tandem axial piston pumps
Maximum flow at 1800 rpm	2 × 206.5 l/min
Pilot pump, type:	Gear pump
Maximum flow at 1800 rpm	27 l/min
Relief valve settings:	
Pressure up	350 kg/cm ²
Travel	330 kg/cm ²
Swing	270 kg/cm ²
Pilot	40 kg/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)	
		DX225LC-5	DX235(N)LC-5
One-piece boom	2	125 × 85 × 1263	130 × 90 × 1263
Arm	1	140 × 100 × 1450	140 × 100 × 1450
Bucket	1	120 × 80 × 1060	125 × 85 × 1060
Two-piece boom, lower	2	130 × 90 × 1263	130 × 90 × 1263
Two-piece boom, upper	1	150 × 100 × 1870	150 × 100 × 1870
Arm, two-piece boom	1	140 × 100 × 2010	140 × 100 × 2010

➤ 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

DX225LC-5, DX235LC-5 & DX235NLC-5	
Maximum swing speed	10.9 rpm
Maximum swing torque	8400 kgf/m

➤ 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

DX225LC-5, DX235LC-5 & DX235NLC-5	
Travel speed (low - high)	3.0 - 5.5 km/h
Maximum traction	27.5 t
Maximum gradeability	35° / 70%

➤ Buckets

					DX235LC-5 / DX235NLC-5					
Bucket Type	Capacity (m³) SAE	Width (mm)		Weight (kg)	One-piece boom 5.7 m				Two-piece boom 5.85 m	
		With side cutters	W/O side cutters		Arm 2.4 m	Arm 2.9 m	Arm 2.4 m	Arm 2.9 m	Arm 2.4 m	Arm 2.9 m
					Shoe 600 mm / HD 500 mm	Shoe 600 mm / HD 600 mm	Shoe 800 mm	Shoe 800 mm	Shoe HD 500 mm	Shoe HD 600 mm
GP	0.51	772	722	529	A / A	A / A	A / -	A / -	- / A	- / A
	0.81	1128	1065	654	A / A	A / A	A / -	A / -	- / A	- / A
	0.92	1236	1173	697	A / A	A / A	A / -	A / -	- / A	- / A
	1.05	1372	1309	751	A / B	A / C	A / -	A / -	- / B	- / B
	1.17	1493	1430	809	A / C	B / C	A / -	B / -	- / C	- / C
	1.28	1607	1544	848	B / C	C / D	B / -	B / -	- / C	- / D
HD	0.73	982	916	732	A / -	A / -	A / -	A / -	-	-
	0.90	1130	1064	804	A / -	A / -	A / -	A / -	-	-
	1.07	1286	1220	864	A / -	B / -	A / -	A / -	-	-
	1.24	1438	1372	923	B / -	C / -	B / -	B / -	-	-
	1.32	1516	1450	967	B / -	C / -	B / -	C / -	-	-

					DX225LC-5					
Bucket Type	Capacity (m³) SAE	Width (mm)		Weight (kg)	One-piece boom 5.7 m			Two-piece boom 5.85 m		SLR Boom 8.5 m
		With side cutters	W/O side cutters		Arm 2.4 m	Arm 2.9 m	Arm 3.5 m	Arm 2.4 m	Arm 2.9 m	Arm 6.2 m
					Shoe 600 mm	Shoe 600 mm	Shoe 600 mm	Shoe 600 mm	Shoe 600 mm	Shoe 800 mm
DC	0.45	-	1500	357	-	-	-	-	-	A
GP	0.39	820	736	330	-	-	-	-	-	A
	0.51	772	722	529	A	A	A	A	A	-
	0.81	1128	1065	654	A	A	A	A	A	-
	0.92	1236	1173	697	A	A	A	A	A	-
	1.05	1372	1309	751	A	A	B	A	B	-
	1.17	1493	1430	809	A	B	C	B	C	-
	1.28	1607	1544	848	B	C	D	C	C	-
HD	0.73	982	916	732	A	A	A	A	A	-
	0.90	1130	1064	804	A	A	A	A	A	-
	1.07	1286	1220	864	A	B	C	A	B	-
	1.24	1438	1372	923	B	C	D	C	C	-
	1.32	1516	1450	967	C	C	D	C	D	-
	1.49	1666	1600	1039	C	D	-	D	D	-

A: Suitable for materials with a density less than or equal to 2100 kg/m³

B: Suitable for materials with a density less than or equal to 1800 kg/m³

➤ Fluid capacities

	DX225LC-5	DX235LC-5 & DX235NLC-5
Fuel tank	400 l	339 l
Cooling system (radiator)	38.4 l	38.4 l
Urea (def) tank	31.5 l	31.5 l
Hydraulic oil tank	195 l	200 l
Engine oil	27 l	27 l
Swing drive	5.0 l	5.0 l
Travel device	2 × 3.0 l	2 × 3.0 l

➤ 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

	DX225LC-5	DX235LC-5 & DX235NLC-5
A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)	70 dB(A)	69 dB(A)
A-weighted sound power level, LwAd (2000/14/EC)	Declared : 103 dB(A) Measured : 101 dB(A)	Declared : 102 dB(A) Measured : 100 dB(A)

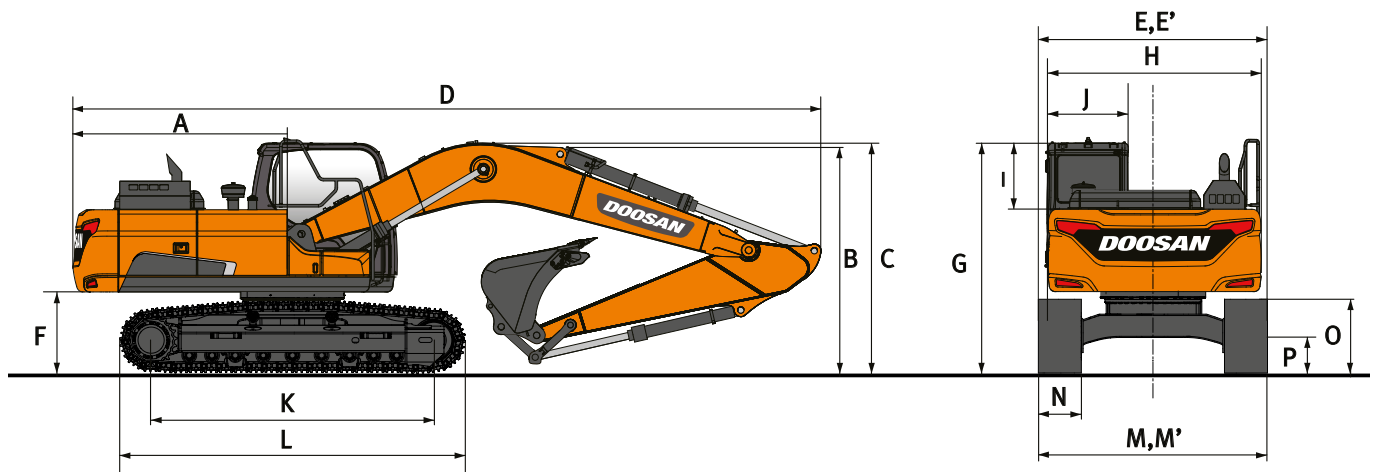
Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

C: Suitable for materials with a density less than or equal to 1500 kg/m³

D: Suitable for materials with a density less than or equal to 1200 kg/m³

Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.

Dimensions



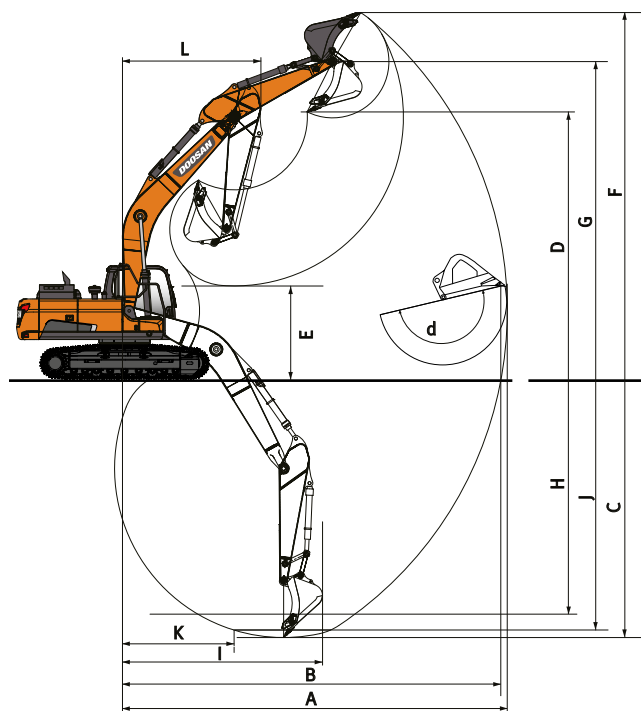
Dimensions

	DX235LC-5 & DX235NLC-5				DX225LC-5					
	One-piece boom		Two-piece boom		One-piece boom			Two-piece boom		SLR
	5700		5850 (3100 LB + 2800 UB)		5700			5850 (3100 LB + 2800 UB)		8500
Boom length - mm	2400	2900	2400	2900	2400	2900	3500	2400	2900	6200
Arm length - mm	2400	2900	2400	2900	2400	2900	3500	2400	2900	6200
Bucket capacity - m³	1.05	0.92	0.92	0.81	1.05	0.92	0.81	0.92	0.81	0.39
A Tail swing radius - mm	2755	2755	2755	2755	2795	2795	2795	2795	2795	2795
B Shipping height (boom) - mm	2970	2870	3100	3080	2965	2865	3130	3100	3080	3185
C Shipping height (hose) - mm	3130	3005	3100	3080	3130	3005	3330	3100	3080	3275
D Shipping length - mm	9505	8925	9655	9645	9545	9495	9545	9695	9685	12360
E Shipping width std. - mm	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990
E' Shipping width narrow - mm	2540	2540	2540	2540	-	-	-	-	-	-
F Counterweight clearance - mm	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090
G Height over cab - mm	2985	2985	2985	2985	2980	2980	2980	2980	2980	2980
H House width - mm	2540	2540	2540	2540	2710	2710	2710	2710	2710	2710
I Cab height above house - mm	840	840	840	840	840	840	840	840	840	840
J Cab width - mm	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010
K Tumbler distance - mm	3650	3650	3650	3650	3650	3650	3650	3650	3650	3650
L Track length - mm	4445	4445	4445	4445	4445	4445	4445	4445	4445	4445
M Undercarriage width std. - mm	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990
M' Undercarriage width narrow - mm	2540	2540	2540	2540	-	-	-	-	-	-
N Shoe width std. - mm	600	600	600	600	600	600	600	600	600	600
N' Shoe width narrow. - mm	500	500	500	500	-	-	-	-	-	-
O Track height - mm	945	945	945	945	945	945	945	945	945	945
P Ground clearance - mm	475	475	475	475	475	475	475	475	475	475

Digging forces (ISO)

	DX235LC-5 & DX235NLC-5				DX225LC-5					
	One-piece boom		Two-piece boom		One-piece boom			Two-piece boom		SLR
	5700		5850 (3100 LB + 2800 UB)		5700			5850 (3100 LB + 2800 UB)		8500
Boom length - mm	2400	2900	2400	2900	2400	2900	3500	2400	2900	6200
Arm length - mm	2400	2900	2400	2900	2400	2900	3500	2400	2900	6200
Bucket capacity - m³	1.05	0.92	0.92	0.81	1.05	0.92	0.81	0.92	0.81	0.39
BUCKET (Normal/Press. Up) - ton	15.5 / 16.5	15.5 / 16.5	15.5 / 16.5	15.5 / 16.5	14.3 / 15.2	14.3 / 15.2	14.3 / 15.2	14.3 / 15.2	14.3 / 15.2	9.4 / 10.0
ARM (Normal/Press. Up) - ton	11.9 / 12.6	10.2 / 10.8	11.9 / 12.6	10.2 / 10.8	11.9 / 12.6	10.2 / 10.8	9.1 / 9.7	11.9 / 12.6	10.2 / 10.8	5.6 / 6.0

Working range



Working range

	DX235LC-5 & DX235NLC-5				DX225LC-5					
	One-piece boom		Two-piece boom		One-piece boom			Two-piece boom		SLR
Boom length - mm	5700		5850 (3100 LB + 2800 UB)		5700			5850 (3100 LB + 2800 UB)		8500
Arm length - mm	2400	2900	2400	2900	2400	2900	3500	2400	2900	6200
Bucket capacity - m³	1.05	0.92	0.92	0.81	1.05	0.92	0.81	0.92	0.81	0.39
A Max. digging reach - mm	9465	9880	9680	10485	9460	9880	10385	9675	10110	15380
B Max. digging reach (ground) - mm	9275	9710	9495	10310	9275	9710	10215	9495	9940	15265
C Max. digging depth - mm	6080	6580	5985	6735	6080	6580	7185	5980	6440	11650
D Max. loading height - mm	6700	6840	8010	8645	6700	6840	6985	8010	8315	10845
E Min. loading height - mm	3010	2500	3920	3500	3010	2500	1895	3920	3325	1895
F Max. digging height - mm	9450	9555	10910	11545	9450	9555	9660	10905	11200	13075
G Max. bucket pin height - mm	8155	8295	9465	10115	8155	8295	8440	9465	9770	12075
H Max. vertical wall depth - mm	5360	5620	4950	4680	5360	5620	5970	4950	5325	9710
I Max. radius vertical - mm	6025	6380	6355	7765	6025	6380	6740	6355	6635	10065
J Max. digging depth (8° level) - mm	5865	6390	5860	6630	5865	6390	7005	5860	6330	11305
K Min. radius 8° line - mm	2840	2820	1710	1675	2840	2820	2785	1710	1710	3855
L Min. swing radius - mm	3575	3560	2790	2935	3575	3560	3615	2790	2625	4960
d Bucket angle - °	177	177	177	174	177	177	177	177	177	177

Doosan Buckets

4 More. More choice - More durable - More strength - More performance!

General Construction Bucket



The General purpose bucket is designed for digging and re-handling soft to medium materials (e.g. materials with low wear characteristics such as top-soil, loam, coal).

Heavy Construction Bucket



The Heavy duty bucket is designed for mass excavations in dense materials such as hard packed clay, shot limestone, limited rock content and gravel.

Severe Mining Bucket



The Severe duty bucket is designed for durability in digging compact materials like loose or blasted rock, hard packed clay and stone.

X-treme Mining Bucket



The X-treme duty bucket is designed as a long-life version of the Severe duty bucket for digging in the most abrasive materials.

Lifting capacities

► DX225LC-5

► Standard track width: 2990 mm • W/O Bucket

Unit: 1000 kg	A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
	B		⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
One-piece boom 5.70 m Arm 2.9 m Shoe 600 mm Counterweight 4.3 t	7.5 m	Dozer up							5.04 *	5.04 *			4.26 *	4.26 *	6.26
		W/O dozer							5.04 *	5.04 *			4.26 *	4.26 *	6.26
	6.0 m	Dozer up							5.40 *	5.40 *			3.98 *	3.98 *	7.35
		W/O dozer							5.40 *	5.40 *			3.98 *	3.88	7.35
	4.5 m	Dozer up					6.91 *	6.91 *	5.93 *	5.6	5.47 *	3.95	3.93 *	3.54	8.01
		W/O dozer					6.91 *	6.91 *	5.93 *	5.28	5.47 *	3.71	3.93 *	3.31	8.01
	3.0 m	Dozer up					8.71 *	8.15	6.76 *	5.35	5.81 *	3.84	4.04 *	3.25	8.35
		W/O dozer					8.71 *	7.67	6.76 *	5.02	5.48	3.6	4.04 *	3.03	8.35
	1.5 m	Dozer up					10.30 *	7.63	7.56 *	5.1	6.1	3.72	4.31 *	3.15	8.42
		W/O dozer					10.30 *	7.15	7.49	4.77	5.35	3.48	4.31 *	2.93	8.42
	0.0 m	Dozer up			6.24 *	6.24 *	11.03 *	7.36	8.07 *	4.93	6	3.64	4.81 *	3.22	8.21
		W/O dozer			6.24 *	6.24 *	11.03 *	6.88	7.29	4.6	5.25	3.39	4.62	3	8.21
	-1.5 m	Dozer up	6.83 *	6.83 *	10.74 *	10.74 *	10.90 *	7.29	8.08 *	4.86	5.98	3.62	5.72 *	3.5	7.70
		W/O dozer	6.83 *	6.83 *	10.74 *	10.74 *	10.90 *	6.81	7.22	4.54	5.23	3.37	5.05	3.26	7.70
	-3.0 m	Dozer up	11.56 *	11.56 *	13.78 *	13.78 *	9.91 *	7.37	7.35 *	4.91			6.08 *	4.16	6.83
		W/O dozer	11.56 *	11.56 *	13.78 *	13.4	9.91 *	6.89	7.27	4.58			6.05	3.88	6.83
	-4.5 m	Dozer up			10.39 *	10.39 *	7.58 *	7.58 *					5.88 *	5.88	5.42
		W/O dozer			10.39 *	10.39 *	7.58 *	7.13					5.88 *	5.51	5.42

Unit: 1000 kg	A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
	B		⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
One-piece boom 5.70 m Arm 2.9 m Shoe 800 mm Counterweight 4.3 t	7.5 m	Dozer up							5.04 *	5.04 *			4.26 *	4.26 *	6.26
		W/O dozer							5.04 *	5.04 *			4.26 *	4.26 *	6.26
	6.0 m	Dozer up							5.40 *	5.40 *			3.98 *	3.98 *	7.35
		W/O dozer							5.40 *	5.40 *			3.98 *	3.97	7.35
	4.5 m	Dozer up					6.91 *	6.91 *	5.93 *	5.73	5.47 *	4.05	3.93 *	3.63	8.01
		W/O dozer					6.91 *	6.91 *	5.93 *	5.4	5.47 *	3.8	3.93 *	3.4	8.01
	3.0 m	Dozer up					8.71 *	8.33	6.76 *	5.47	5.81 *	3.94	4.04 *	3.33	8.35
		W/O dozer					8.71 *	7.85	6.76 *	5.14	5.63	3.69	4.04 *	3.11	8.35
	1.5 m	Dozer up					10.30 *	7.81	7.56 *	5.22	6.19 *	3.82	4.31 *	3.23	8.42
		W/O dozer					10.30 *	7.33	7.56 *	4.9	5.5	3.57	4.31 *	3.01	8.42
	0.0 m	Dozer up			6.24 *	6.24 *	11.03 *	7.54	8.07 *	5.05	6.17	3.73	4.81 *	3.3	8.21
		W/O dozer			6.24 *	6.24 *	11.03 *	7.06	7.49	4.73	5.4	3.48	4.75	3.08	8.21
	-1.5 m	Dozer up	6.83 *	6.83 *	10.74 *	10.74 *	10.90 *	7.47	8.08 *	4.98	6.15	3.71	5.72 *	3.59	7.70
		W/O dozer	6.83 *	6.83 *	10.74 *	10.74 *	10.90 *	6.99	7.42	4.66	5.38	3.46	5.19	3.35	7.70
	-3.0 m	Dozer up	11.56 *	11.56 *	13.78 *	13.78 *	9.91 *	7.54	7.35 *	5.03			6.08 *	4.26	6.83
		W/O dozer	11.56 *	11.56 *	13.78 *	13.74	9.91 *	7.07	7.35 *	4.71			6.08 *	3.99	6.83
	-4.5 m	Dozer up			10.39 *	10.39 *	7.58 *	7.58 *					5.88 *	5.88 *	5.42
		W/O dozer			10.39 *	10.39 *	7.58 *	7.31					5.88 *	5.65	5.42

Unit: 1000 kg	A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
	B		⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
Two-piece boom 5.85 m Arm 2.9 m Shoe 600 mm Counterweight 4.3 t	9.0 m	Dozer up					5.77 *	5.77 *					4.85 *	4.85 *	4.86
		W/O dozer					5.77 *	5.77 *					4.85 *	4.85 *	4.86
	7.5 m	Dozer up					6.13 *	6.13 *	5.57 *	5.57 *			4.08 *	4.08 *	6.56
		W/O dozer					6.13 *	6.13 *	5.57 *	5.49			4.08 *	4.08 *	6.56
	6.0 m	Dozer up					6.28 *	6.28 *	6.31 *	5.78	4.32 *	3.95	3.79 *	3.79 *	7.61
		W/O dozer					6.28 *	6.28 *	6.31 *	5.45	4.32 *	3.7	3.79 *	3.6	7.61
	4.5 m	Dozer up			12.09 *	12.09 *	8.86 *	8.7	6.78 *	5.56	5.39 *	3.9	3.72 *	3.3	8.25
		W/O dozer			12.09 *	12.09 *	8.86 *	8.22	6.78 *	5.23	5.39 *	3.65	3.72 *	3.08	8.25
	3.0 m	Dozer up					10.19 *	8	7.62 *	5.25	5.66 *	3.76	3.79 *	3.03	8.59
		W/O dozer					10.19 *	7.52	7.62 *	4.93	5.46	3.52	3.79 *	2.82	8.59
	1.5 m	Dozer up					10.85 *	7.42	7.97 *	4.97	6.02 *	3.62	4.00 *	2.94	8.65
		W/O dozer					10.85 *	6.94	7.43	4.64	5.3	3.38	4.00 *	2.73	8.65
	0.0 m	Dozer up					10.49 *	7.14	7.83 *	4.78	5.95	3.52	4.40 *	3	8.44
		W/O dozer					10.49 *	6.66	7.21	4.46	5.2	3.28	4.39	2.79	8.44
	-1.5 m	Dozer up			9.49 *	9.49 *	9.22 *	7.08	7.06 *	4.72	5.22 *	3.5	4.52 *	3.26	7.95
		W/O dozer			9.49 *	9.49 *	9.22 *	6.61	7.06 *	4.39	5.17	3.26	4.52 *	3.03	7.95
	-3.0 m	Dozer up					7.05 *	7.05 *	5.41 *	4.78			3.75 *	3.75 *	7.11
		W/O dozer					7.05 *	6.71	5.41 *	4.45			3.75 *	3.59	7.11

Unit: 1000 kg	A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		Max. reach		
	B																						
SLR boom 8.5 m Arm 6.2 m Shoe 800 mm Counterweight 5.3 t	12.0 m	W/O dozer																			0.96 *	0.96 *	9.86
	10.5 m	W/O dozer													1.55 *	1.55 *					0.88 *	0.88 *	11.21
	9.0 m	W/O dozer													2.11 *	2.11 *	1.10 *	1.10 *			0.83 *	0.83 *	12.22
	7.5 m	W/O dozer													2.43 *	2.43 *	1.80 *	1.80 *			0.81 *	0.81 *	12.99
	6.0 m	W/O dozer													2.57 *	2.57 *	2.24 *	2.02	0.85 *	0.85 *	0.80 *	0.80 *	13.53
	4.5 m	W/O dozer											2.99 *	2.99 *	2.77 *	2.49	2.62 *	1.95	1.40 *	1.40 *	0.81 *	0.81 *	13.90
	3.0 m	W/O dozer			8.72 *	8.72 *	6.33 *	6.33 *	4.72 *	4.72 *	3.87 *	3.87 *	3.35 *	3.02	3.00 *	2.35	2.77 *	1.86	1.72 *	1.48	0.84 *	0.84 *	14.10
	1.5 m	W/O dozer					7.98 *	7.34	5.63 *	4.99	4.42 *	3.67	3.71 *	2.81	3.24 *	2.22	2.82	1.77	1.90 *	1.43	0.89 *	0.89 *	14.14
	0.0 m	W/O dozer			3.73 *	3.73 *	7.31 *	6.65	6.34 *	4.56	4.90 *	3.39	4.03 *	2.63	3.34	2.09	2.73	1.69	1.88 *	1.38	0.95 *	0.95 *	14.02
	-1.5 m	W/O dozer	3.60 *	3.60 *	4.52 *	4.52 *	7.11 *	6.33	6.78 *	4.28	5.2	3.19	4.02	2.49	3.24	1.99	2.67	1.63	1.54 *	1.35	1.05 *	1.05 *	13.73
	-3.0 m	W/O dozer	4.58 *	4.58 *	5.50 *	5.50 *	7.77 *	6.23	6.96 *	4.15	5.07	3.07	3.93	2.39	3.17	1.93	2.63	1.59			1.18 *	1.18 *	13.26
	-4.5 m	W/O dozer	5.59 *	5.59 *	6.62 *	6.62 *	8.89 *	6.25	6.90 *	4.11	5.01	3.02	3.88	2.35	3.14	1.9	2.62	1.59			1.38 *	1.38 *	12.60
	-6.0 m	W/O dozer	6.69 *	6.69 *	7.91 *	7.91 *	8.66 *	6.37	6.59 *	4.15	5.03	3.04	3.89	2.37	3.16	1.92					1.69 *	1.68	11.71
	-7.5 m	W/O dozer	7.90 *	7.90 *	9.43 *	9.43 *	7.75 *	6.56	6.00 *	4.27	4.80 *	3.12	3.89 *	2.44	2.38 *	2.01					2.23 *	2.01	10.53
	-9.0 m	W/O dozer			8.54 *	8.54 *	6.36 *	6.36 *	5.00 *	4.48	3.96 *	3.28									3.02 *	2.63	8.94

Lifting capacities

DX235LC-5

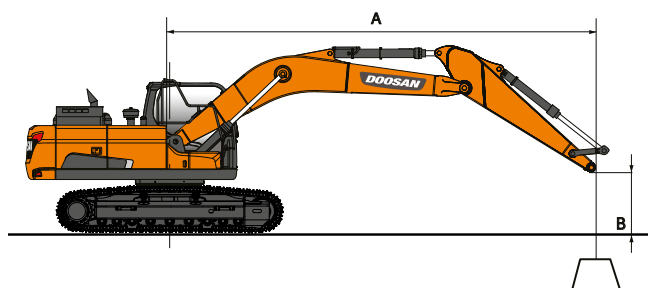
Standard track width: 2990 mm • W/O Bucket

Unit: 1000 kg	A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
	B														
One-piece boom 5.7 m Arm 2.4 m Shoe 600 mm Counterweight 5.0 t	7.5 m												5.89 *	5.89 *	5.64
	6.0 m								6.48 *	5.67			5.39 *	4.56	6.84
	4.5 m						8.30 *	8.30 *	6.98 *	5.51	5.68 *	3.89	5.27 *	3.84	7.56
	3.0 m						10.24 *	7.97	7.82 *	5.28	5.76	3.81	5.28	3.49	7.93
	1.5 m						11.77 *	7.52	7.87	5.06	5.65	3.71	5.14	3.38	8.00
	0.0 m						12.17	7.33	7.71	4.92	5.58	3.64	5.3	3.47	7.78
	-1.5 m				10.52 *	10.52 *	11.79 *	7.31	7.67	4.88			5.86	3.82	7.26
	-3.0 m				13.91 *	13.91 *	10.38 *	7.43	7.61 *	4.98			6.91 *	4.66	6.33
	-4.5 m						6.97 *	6.97 *					6.25 *	6.25 *	4.78
One-piece boom 5.7 m Arm 2.9 m Shoe 600 mm Counterweight 5.0 t	7.5 m								4.95 *	4.95 *			4.26 *	4.26 *	6.22
	6.0 m								5.90 *	5.74			3.97 *	3.97 *	7.32
	4.5 m								6.48 *	5.56	5.75 *	3.91	3.92 *	3.51	8.00
	3.0 m						9.48 *	8.09	7.38 *	5.3	5.76	3.8	4.02 *	3.21	8.35
	1.5 m						11.24 *	7.56	7.87	5.05	5.63	3.68	4.29 *	3.11	8.42
	0.0 m				6.15 *	6.15 *	12.08 *	7.28	7.67	4.87	5.53	3.59	4.78 *	3.17	8.22
	-1.5 m	6.72 *	6.72 *	10.61 *	10.61 *		11.96 *	7.2	7.59	4.8	5.5	3.57	5.3	3.44	7.72
	-3.0 m	11.43 *	11.43 *	15.19 *	14.14		10.92 *	7.28	7.64	4.85			6.32	4.08	6.86
	-4.5 m				11.55 *	11.55 *	8.43 *	7.52					6.49 *	5.74	5.47
Two-piece boom 5.85 m Arm 2.9 m Shoe 900 mm Counterweight 5.0 t	9.0 m						5.68 *	5.68 *					4.88 *	4.88 *	4.80
	7.5 m						6.13 *	6.13 *	5.52 *	5.52 *			4.08 *	4.08 *	6.53
	6.0 m						6.25 *	6.25 *	6.29 *	6.05	4.22 *	4.14	3.79 *	3.79 *	7.59
	4.5 m				11.27 *	11.27 *	8.70 *	8.70 *	6.74 *	5.83	5.36 *	4.09	3.71 *	3.48	8.24
	3.0 m						11.10 *	8.39	7.57 *	5.51	5.64 *	3.95	3.77 *	3.19	8.58
	1.5 m						11.87 *	7.78	8.25	5.21	5.9	3.8	3.98 *	3.08	8.65
	0.0 m						11.51 *	7.48	8.03	5.01	5.79	3.7	4.38 *	3.14	8.45
	-1.5 m				9.37 *	9.37 *	10.16 *	7.41	7.78 *	4.94	5.76	3.67	4.99 *	3.41	7.97
	-3.0 m						7.84 *	7.52	6.02 *	5			4.18 *	4.01	7.13

DX235NLC-5

Narrow track width: 2540 mm • W/O Bucket

Unit: 1000 kg	A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
	B														
One-piece boom 5.70 m Arm 2.4 m Shoe HD 500 mm Counterweight 4.7 t	7.5 m												5.88 *	5.06	5.64
	6.0 m								6.47 *	4.6			5.39 *	3.68	6.84
	4.5 m						8.29 *	6.86	6.97 *	4.44	5.65	3.11	5.27 *	3.07	7.56
	3.0 m						10.23 *	6.31	7.81 *	4.22	5.56	3.03	5.1	2.78	7.93
	1.5 m						11.76 *	5.88	7.61	4	5.45	2.94	4.96	2.67	8.00
	0.0 m						11.78	5.69	7.45	3.87	5.38	2.87	5.11	2.74	7.78
	-1.5 m				10.52 *	10.52 *	11.76	5.68	7.41	3.83			5.65	3.01	7.26
	-3.0 m				13.90 *	10.87	10.36 *	5.79	7.52	3.92			6.90 *	3.68	6.33
	-4.5 m						6.96 *	6.1					6.24 *	5.64	4.78
One-piece boom 5.70 m Arm 2.9 m Shoe HD 500 mm Counterweight 4.7 t	7.5 m								4.95 *	4.67			4.26 *	4.26 *	6.22
	6.0 m								5.89 *	4.66			3.97 *	3.31	7.32
	4.5 m								6.47 *	4.49	5.69	3.14	3.91 *	2.8	8.00
	3.0 m						9.48 *	6.43	7.38 *	4.24	5.57	3.03	4.02 *	2.55	8.35
	1.5 m						11.25 *	5.93	7.62	4	5.44	2.91	4.28 *	2.45	8.42
	0.0 m				6.16 *	6.16 *	11.75	5.66	7.42	3.83	5.34	2.83	4.69	2.49	8.22
	-1.5 m	6.73 *	6.73 *	10.62 *	10.43		11.66	5.59	7.34	3.76	5.31	2.8	5.11	2.71	7.72
	-3.0 m	11.44 *	11.44 *	15.19 *	10.63		10.92 *	5.66	7.39	3.81			6.11	3.22	6.86
	-4.5 m				11.56 *	11.01	8.44 *	5.89					6.49 *	4.53	5.47
Two-piece boom 5.85 m Arm 2.4 m Shoe 500 mm Counterweight 5 t	9.0 m												7.24 *	7.24 *	3.94
	7.5 m						7.79 *	7.79 *					5.71 *	5.13	5.93
	6.0 m						7.95 *	7.95 *	6.71 *	5.07			5.20 *	3.8	7.08
	4.5 m						10.05 *	7.5	7.17 *	4.87	5.69 *	3.42	5.05 *	3.2	7.78
	3.0 m						11.57 *	6.84	8.04 *	4.59	5.91 *	3.31	5.11 *	2.91	8.14
	1.5 m						11.97 *	6.35	8.19	4.34	5.89	3.2	5.15	2.81	8.21
	0.0 m						11.18 *	6.16	8.02	4.19	5.8	3.12	5.31	2.87	8.00
	-1.5 m				8.97 *	8.97 *	9.50 *	6.16	7.42 *	4.16			5.09 *	3.15	7.49
	-3.0 m						6.82 *	6.31	5.16 *	4.27			3.95 *	3.82	6.60



: Rating over front.
 : Rating over side or 360°.

- Lifting capacities are in compliance with ISO 10567:2007(E).
- The load point is at the end of the arm.
- * = The nominal loads are based on hydraulic capacity.
- The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.
- For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.
- The configurations indicated do not necessarily reflect the standard equipment of the machine.

Standard and optional equipment

Engine

Doosan DLo6P, Stage IV compliant, SCR, EGR, DOC, water-cooled diesel engine with Wastegate Turbocharger and air-to-air intercooler	●
Auto-idle function	●
Auto shut-off	●
No DPF	●

Hydraulic system

Boom and arm flow regeneration	●
Swing anti-rebound valves	●
Spare ports (valve)	●
One-touch power boost function	●
Smart Power Control (SPC)	●
One & two way auxiliary hydraulic line for opening & closing of tool (with pedal & joystick control)	●
Cylinder cushioning & contamination seals	●
Control of auxiliary hydraulic flow and pressure from the display panel	●

Cab & Interior

Pressurised, sound-insulated and CabSus mounted cab	●
Heated, adjustable air suspension seat with adjustable headrest and armrest	●
Air conditioning with climate control	●
Pull-up type front window with sun roller blind and removable lower front window	●
Sliding left window	●
Intermittent upper and lower windshield wiper	●
Rain visor	●
Rear window defroster switch	●
Adjustable PPC wrist control levers for arm, boom, bucket and swing	●
Joysticks and pedals provide proportional control of auxiliary lines for attachments	●
Travel pedals and hand levers	●
Jog shuttle switch	●
7" (18 cm) TFT LCD colour monitor panel	●
Attachment management system	●
Engine speed (RPM) control dial	●
Automatic travel speed (slow / fast)	●
4 operating modes & 4 working modes	●
Electric horn	●
Cigarette lighter	●
Ceiling light	●
Cup holder	●
Multiple storage compartments (e.g. document holder under seat)	●
Storage area (tools, etc.)	●
Hot and cool box	●
Flat, spacious, easy-to-clean floor	●
Master key	●
Anti-theft protection (from control panel)	●
12 V spare power socket	●
Serial communication port for laptop PC interface	●
Remote radio ON/OFF switch	●
Loudspeakers and connections for radio	●
MP3/USB radio or MP3/USB radio with CD player	○

Safety

Roll Over Protective Structure (ROPS)	●
Boom and arm cylinder safety valves	●
Overload warning device	●
Large guard rails on upper structure and steps	●
Rotating beacon	●
Rear-view camera	●
Punched metal anti-slip plates	●
Hydraulic safety lock lever	●
Safety glass	●
Hammer for emergency escape	●
Right and left rear-view mirrors	●
Lockable fuel cap and covers	●
Battery cut-off switch	●
Engine restart prevention system	●
Parking brake	●
Work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted, 2 boom-mounted and 1 rear side)	●
Emergency engine stop switch and hydraulic pump control switch	●
FOGS cab - top and front cab guards (ISO 10262)	○
Front window upper and lower guards	○
Side-view camera	○

Other

Boom: DX235LC-5 & DX235NLC-5: 5700 mm – arm: 2400 mm	●
Boom: DX225LC-5: 5700 mm – arm: 2900 mm	●
Counterweight: DX235LC-5: 5000 kg	●
Counterweight: DX235NLC-5: 4700 kg – DX235NLC-5 two-piece boom: 5000 kg	●
Counterweight: DX225LC-5: 4300 kg	●
Counterweight: DX225LC-5 SLR: 5300 kg	○
Doosan Connect Telematic system	●
Auto shut-off fuel filler pump	●
Double element air cleaner and pre-filtered Cyclone Turbo dust separator	●
Fuel pre-filter with water separator sensor	●
Dust screen for radiator/oil cooler	●
Self-diagnostic function	●
Alternator (24 V, 80 A) - Battery (2 × 12 V, 150 Ah)	●

Hydrostatic 2-speed travel system with automatic shift	●
Remote greasing for swing circle and work group pivot points	●
Guards for work lights	●
Arms: DX235LC-5 & DX235NLC-5: one-piece boom: 2900 mm - two-piece boom: 2400 & 2900 mm	○
Arms: DX225LC-5: one-piece boom: 2400 & 3500 mm - two-piece boom: 2400 & 2900 mm - SLR: 6200 mm	○
Booms: two-piece boom 5850 mm - SLR (DX225LC-5) 8500 mm	○
Heavy-duty bottom cover	○
Doosan buckets: full range of GP, HD & Rock buckets	○
Doosan breakers and Doosan quick-couplers	○
Hydraulic piping for crusher, quick-coupler, clamshell, tilting and rotating buckets	○
Additional filter for breaker piping	○
Floating boom	○
Double pump flow	○
Engine coolant heater	○
Straight travel pedal (not to be combined with two-piece boom)	○
Bio oil	○
Automatic lubrication system	○
Alarm for travel & swing	○
The Trimble Ready® option includes wiring and mounting brackets only. The Trimble Grade Control System is not included.	○

Undercarriage

Narrow undercarriage – DX235NLC-5	○
Hydraulic track adjuster	●
Normal track guards	●
Greased and sealed track links	●
500 mm HD 12 mm triple grouser shoe – DX235NLC-5	●
600 mm HD 12 mm triple grouser shoe – DX235NLC-5	○
600 mm triple grouser shoe – DX225LC-5 & DX235LC-5	●
700, 800, 900 mm triple grouser shoe – DX225LC-5 & DX235LC-5	○
Dozer blade – DX225LC-5: 2990/3090/3190/3290 mm for 600/700/800/900 mm triple shoes	○

Standard: ●

Optional: ○



Floating boom



Double pump flow (for attachments requiring high hydraulic capacity)



Straight travel pedal



Two-piece boom



Doosan buckets



Doosan breakers and quick-couplers

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local DOOSAN dealer for more information about availability or to adapt your machine to your application needs.