

Technical specifications

Engine

Designed to deliver superior performance and fuel efficiency, the Perkins 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).

	DX140LC-5
Model	Perkins 1204F
No. of cylinders	4
Rated power at 2000 rpm	
(SAE J1995)	85.9 kW (115 hp)
(SAE J1349)	81.6 kW (109 hp)
Max. torque at 1400 rpm	51 kgf.m
Idle (low - high)	950 [±10] - 2060 [±25] rpm
Piston displacement	4400 cm ³
Bore × stroke	105 mm × 127 mm
Starter	24 V × 4.5 kW
Batteries - Alternator	2 × 12 V, 100 Ah - 24 V, 85 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
- Hydraulic track adjuster with shock-absorbing tension mechanism

► Number of rollers and track shoes per side

	DX140LC-5
Upper rollers (standard shoe)	1
Lower rollers	7
Number of links & shoes per side	46
Link pitch	171 mm
Tumbler distance (std)	2780 mm

Weight

		DX140LC-5	
	Shoe width (mm)	Operating weight (t)	Ground pressure (kgf/cm ²)
Triple grouser	600 (Std)	14.4	0.37
	500	14.2	0.43
	700	14.6	0.32
Rubber	500	14.1	0.43

Component weights

Item	Unit	DX140LC-5	Remarks
Upper structure without front	kg	6927	With counterweight
Lower structure assembly	kg	5043	
Front assembly	kg	2434	
Counterweight	kg	2200	
Boom	mm / kg	4600 / 767	Including bushing
Boom, two piece	mm / kg	4980 / 592 + 384	
Arms	mm / kg	2100 / 370 - 2500 / 414 - 3000 / 465	Including bushing

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

	DX140LC-5
Main pumps, type:	2 × variable displacement axial piston pumps
Maximum flow at 2000 rpm	2 × 114 l/min
Pilot pump, type:	Gear pump
Maximum flow at 2000 rpm	30 l/min
Relief valve settings:	
Pressure up	350 kg/cm ²
Travel	330 kg/cm ²
Swing	275 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)
One-piece boom	2	110 × 75 × 1085
Two-piece boom	2	110 × 75 × 940
Arm	1	115 × 80 × 1108
Arm, two-piece boom	1	140 × 85 × 720
Bucket	1	100 × 70 × 900
Bucket, two-piece boom	1	140 × 85 × 720

➤ 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

	DX140LC-5
Maximum swing speed	10.7 rpm
Maximum swing torque	4800 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

	DX140LC-5
Travel speed (low - high)	3.0 - 5.0 km/h
Maximum traction	16.3 t
Maximum gradeability	35° / 70%

➤ Fluid capacities

	DX140LC-5
Fuel tank	265 l
Cooling system (radiator)	25 l
Urea (def) tank	19 l
Hydraulic oil tank	150 l
Engine oil	8 l
Swing drive	3 l
Travel device	2 × 2 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

	DX140LC-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 : 101 dB(A) Measured : 99 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.

➤ Buckets

					DX140LC-5				
Bucket Type	Capacity (m³) SAE	Width (mm)		Weight (kg)	One-piece boom			Two-piece boom	
		With side cutters	W/O side cutters		Arm 2.1 m	Arm 2.5 m	Arm 3.0 m	Arm 2.1 m	Arm 2.5 m
					Triple grouser shoe 600 mm				
GP	0.24	534	464	275	A	A	A	A	A
	0.39	820	736	341	A	A	A	A	A
	0.45	911	821	381	A	A	A	A	A
	0.51	991	907	393	A	A	A	A	B
	0.59	1081	997	413	A	B	C	B	C
	0.64	1167	1083	435	A	B	C	C	D
	0.76	1339	1255	484	C	C	D	D	D
HD	0.42	827	762	462	A	A	A	A	A
	0.49	913	848	497	A	A	B	A	B
	0.54	981	916	517	A	B	C	B	C

					DX140LC-5		
Bucket Type	Capacity (m³) SAE	Width (mm)		Weight (kg)	One-piece boom		
		With side cutters	W/O side cutters		Arm 2.1 m	Arm 2.5 m	Arm 3.0 m
					Rubber shoe 500 mm		
GP	0.24	534	464	275	A	A	A
	0.39	820	736	341	A	A	A
	0.45	911	821	381	A	A	A
	0.51	991	907	393	A	A	B
	0.59	1081	997	413	A	B	C
	0.64	1167	1083	435	B	C	C
	0.76	1339	1255	484	C	D	D
HD	0.42	827	762	462	A	A	A
	0.49	913	848	497	A	A	B
	0.54	981	916	517	A	B	C

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

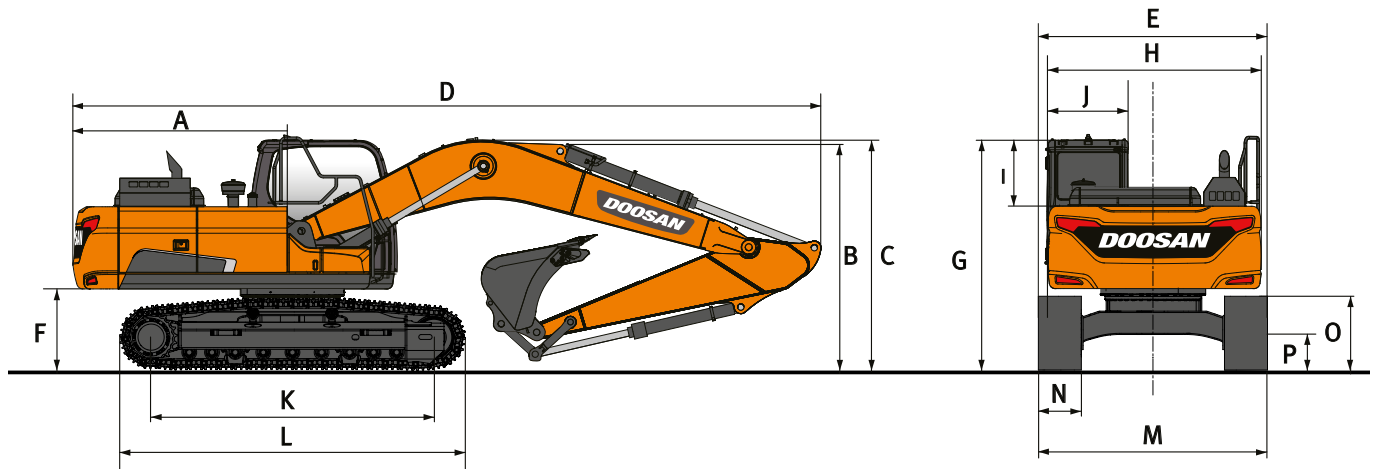
B: Suitable for materials with a density less than or equal to 1800 kg/m³

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



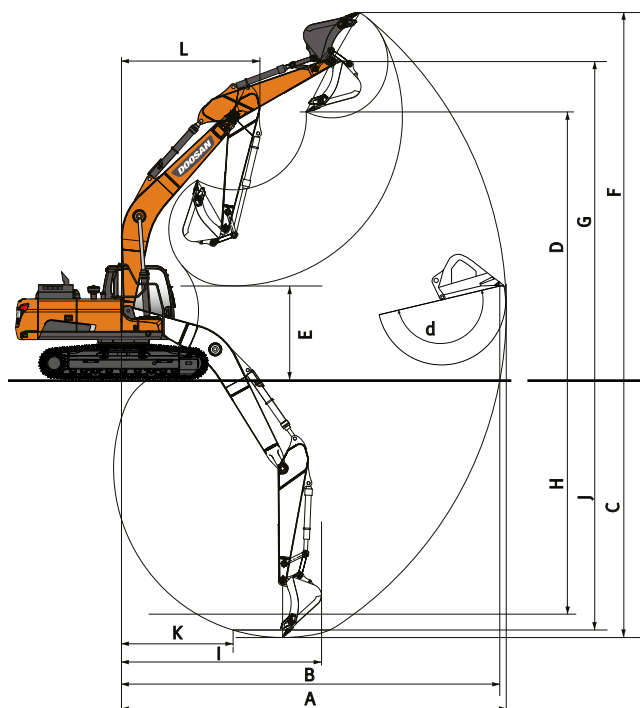
Dimensions

	One-piece boom			Two-piece boom	
Boom length - mm	4600			4980	
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m ³	0.59	0.51	0.45	0.51	0.45
A Tail swing radius - mm	2205	2205	2205	2205	2205
B Shipping height (boom) - mm	2480	2635	3065	2615	2800
C Shipping height (hose) - mm	2640	2820	3180	2840	3000
D Shipping length - mm	7690	7685	7640	8050	7975
E Shipping width - mm	2590	2590	2590	2590	2590
F Counterweight clearance - mm	895	895	895	895	895
G Height over cab - mm	2785	2785	2785	2785	2785
H House width - mm	2540	2540	2540	2540	2540
I Cab height above house - mm	840	840	840	840	840
J Cab width - mm	1010	1010	1010	1010	1010
K Tumbler distance - mm	3035	3035	3035	3035	3035
L Track length - mm	3755	3755	3755	3755	3755
M Undercarriage width std - mm	2590	2590	2590	2590	2590
N Shoe width std. - mm	600	600	600	600	600
O Track height - mm	795	795	795	795	795
P Ground clearance - mm	410	410	410	410	410

Digging forces (ISO)

	One-piece boom			Two-piece boom	
Boom length - mm	4600			4980	
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m ³	0.59	0.51	0.45	0.51	0.45
BUCKET (Normal/Press. Up) - ton	10.5 / 11	10.5 / 11	10.5 / 11	10.5 / 11	10.5 / 11
ARM (Normal/Press. Up) - ton	7.2 / 7.7	6.2 / 6.5	5.6 / 6.0	7.2 / 7.7	6.2 / 6.5

Working range



Working range

	One-piece boom			Two-piece boom	
Boom length - mm	4600			4980	
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m ³	0.59	0.51	0.45	0.51	0.45
A Max. digging reach - mm	7815	8285	8665	8260	8720
B Max. digging reach (ground) - mm	7660	8140	8530	8115	8585
C Max. digging depth - mm	5235	5635	6135	5295	5725
D Max. loading height - mm	5865	6315	6440	6395	6855
E Min. loading height - mm	2575	2230	1725	3070	2715
F Max. digging height - mm	8150	8660	8745	8730	9235
G Max. bucket pin height - mm	7080	7535	7655	7615	8075
H Max. vertical wall depth - mm	3710	4495	4685	4110	4680
I Max. radius vertical - mm	5745	5605	5970	5870	5730
J Max. digging depth (8' level) - mm	4910	5395	5890	5180	5615
K Min. radius 8' line - mm	1805	1915	1825	910	910
L Min. swing radius - mm	2285	2600	2625	2775	2970
d Bucket angle - °	174	174	174	174	174

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.

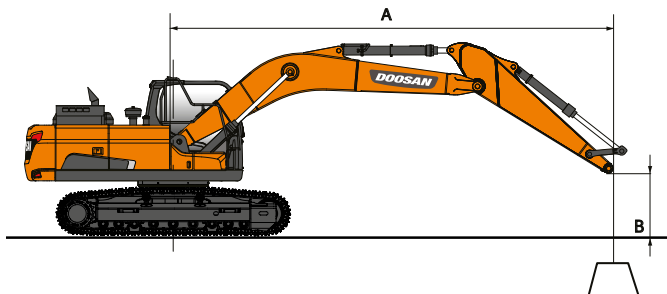
Lifting capacities

➤ Standard track width: 2590 mm • W/O Bucket

Unit: 1000 kg	A B	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		Max. reach		
													A
One-piece boom 4.6 m Arm 2.5 m Shoe 600 mm Counterweight 2.2 t	7.5 m	Dozer up									2.76 *	2.76 *	3.61
		W/O dozer									2.76 *	2.76 *	3.61
	6.0 m	Dozer up					3.66 *	3.66 *			2.18 *	2.18 *	5.42
		W/O dozer					3.66 *	3.66 *			2.18 *	2.18 *	5.42
	4.5 m	Dozer up					3.95 *	3.95 *	3.20 *	2.5	2.02 *	2.02 *	6.39
		W/O dozer					3.95 *	3.74	3.20 *	2.35	2.02 *	2.02 *	6.39
	3.0 m	Dozer up			6.67 *	6.67 *	4.96 *	3.77	4.07	2.44	2.01 *	1.95	6.91
		W/O dozer			6.67 *	6.67 *	4.96 *	3.55	3.58	2.28	2.01 *	1.82	6.91
	1.5 m	Dozer up			8.32 *	6.38	6.15	3.54	3.96	2.34	2.12 *	1.84	7.07
		W/O dozer			8.32 *	5.99	5.41	3.31	3.48	2.19	2.12 *	1.71	7.07
	0.0 m	Dozer up			7.15 *	6.1	5.96	3.37	3.88	2.27	2.38 *	1.87	6.90
		W/O dozer			7.15 *	5.7	5.22	3.15	3.39	2.11	2.38 *	1.74	6.90
	-1.5 m	Dozer up	5.38 *	5.38 *	10.33 *	6.07	5.89	3.31	3.85	2.24	2.91 *	2.08	6.37
		W/O dozer	5.38 *	5.38 *	10.33 *	5.68	5.16	3.09	3.36	2.09	2.91 *	1.93	6.37
	-3.0 m	Dozer up	9.19 *	9.19 *	9.86 *	6.18	5.95	3.36			4.22 *	2.66	5.37
		W/O dozer	9.19 *	9.19 *	9.86 *	5.79	5.21	3.14			4.01	2.48	5.37

➤ Standard track width: 2590 mm • W/O Bucket

Unit: 1000 kg	A B	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		Max. reach		
													A
One-piece boom 4.6 m Arm 3.0 m Shoe 600 mm Counterweight 2.2 t	7.5 m	Dozer up									2.42 *	2.42 *	4.34
		W/O dozer									2.42 *	2.42 *	4.34
	6.0 m	Dozer up									2.05 *	2.05 *	5.91
		W/O dozer									2.05 *	2.05 *	5.91
	4.5 m	Dozer up					3.35 *	3.35 *	3.20 *	2.53	1.94 *	1.94 *	6.81
		W/O dozer					3.35 *	3.35 *	3.20 *	2.37	1.94 *	1.9	6.81
	3.0 m	Dozer up			5.40 *	5.40 *	4.38 *	3.82	3.95 *	2.44	1.96 *	1.77	7.30
		W/O dozer			5.40 *	5.40 *	4.38 *	3.59	3.59	2.29	1.96 *	1.65	7.30
	1.5 m	Dozer up			8.90 *	6.5	5.72 *	3.55	3.96	2.33	2.08 *	1.67	7.45
		W/O dozer			8.90 *	6.11	5.44	3.33	3.47	2.18	2.08 *	1.55	7.45
	0.0 m	Dozer up			8.35 *	6.06	5.94	3.34	3.85	2.23	2.34 *	1.69	7.29
		W/O dozer			8.35 *	5.67	5.2	3.12	3.36	2.08	2.34 *	1.57	7.29
	-1.5 m	Dozer up	5.20 *	5.20 *	10.12 *	5.96	5.83	3.25	3.79	2.18	2.85 *	1.85	6.79
		W/O dozer	5.20 *	5.20 *	10.12 *	5.56	5.09	3.02	3.3	2.03	2.77	1.72	6.79
	-3.0 m	Dozer up	8.19 *	8.19 *	10.41 *	6.03	5.84	3.26			3.94	2.28	5.87
		W/O dozer	8.19 *	8.19 *	10.41 *	5.63	5.11	3.04			3.44	2.12	5.87
	-4.5 m	Dozer up			7.94 *	6.26					5.36 *	3.71	4.25
		W/O dozer			7.94 *	5.87					5.36 *	3.47	4.25



 : 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.

Lifting capacities

➤ Standard track width: 2590 mm • W/O Bucket

Unit: 1000 kg	A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		Max. reach		
	B												A
One-piece boom 4.6 m Arm 2.5 m Shoe 500 mm Rubber Counterweight 2.2 t	7.5 m	Dozer up									2.76 *	2.76 *	3.61
		W/O dozer									2.76 *	2.76 *	3.61
	6.0 m	Dozer up					3.66 *	3.66 *			2.18 *	2.18 *	5.42
		W/O dozer					3.66 *	3.66 *			2.18 *	2.18 *	5.42
	4.5 m	Dozer up					3.95 *	3.9	3.20 *	2.46	2.02 *	2.02 *	6.39
		W/O dozer					3.95 *	3.68	3.20 *	2.31	2.02 *	2.02 *	6.39
	3.0 m	Dozer up			6.67 *	6.67 *	4.96 *	3.71	4	2.39	2.01 *	1.91	6.91
		W/O dozer			6.67 *	6.58	4.96 *	3.49	3.51	2.24	2.01 *	1.78	6.91
	1.5 m	Dozer up			8.32 *	6.27	6.04	3.47	3.89	2.3	2.12 *	1.8	7.07
		W/O dozer			8.32 *	5.88	5.31	3.25	3.41	2.14	2.12 *	1.67	7.07
	0.0 m	Dozer up			7.15 *	5.98	5.85	3.3	3.81	2.22	2.38 *	1.83	6.90
		W/O dozer			7.15 *	5.59	5.12	3.08	3.32	2.07	2.38 *	1.7	6.90
	-1.5 m	Dozer up	5.38 *	5.38 *	10.33 *	5.96	5.78	3.25	3.78	2.2	2.91 *	2.04	6.37
		W/O dozer	5.38 *	5.38 *	10.33 *	5.57	5.05	3.03	3.3	2.04	2.91 *	1.89	6.37
	-3.0 m	Dozer up	9.19 *	9.19 *	9.86 *	6.07	5.84	3.29			4.22 *	2.61	5.37
		W/O dozer	9.19 *	9.19 *	9.86 *	5.68	5.11	3.07			3.93	2.43	5.37

➤ Standard track width: 2590 mm • W/O Bucket

Unit: 1000 kg	A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		Max. reach		
	B												A
One-piece boom 4.6 m Arm 3.0 m Shoe 700 mm Counterweight 2.2 t	7.5 m	Dozer up									2.42 *	2.42 *	4.34
		W/O dozer									2.42 *	2.42 *	4.34
	6.0 m	Dozer up									2.05 *	2.05 *	5.91
		W/O dozer									2.05 *	2.05 *	5.91
	4.5 m	Dozer up					3.35 *	3.35 *	3.20 *	2.55	1.94 *	1.94 *	6.81
		W/O dozer					3.35 *	3.35 *	3.20 *	2.4	1.94 *	1.92	6.81
	3.0 m	Dozer up			5.40 *	5.40 *	4.38 *	3.85	3.95 *	2.47	1.96 *	1.79	7.30
		W/O dozer			5.40 *	5.40 *	4.38 *	3.63	3.64	2.32	1.96 *	1.67	7.30
	1.5 m	Dozer up			8.90 *	6.57	5.72 *	3.59	4	2.36	2.08 *	1.69	7.45
		W/O dozer			8.90 *	6.18	5.51	3.37	3.51	2.2	2.08 *	1.57	7.45
	0.0 m	Dozer up			8.35 *	6.13	6	3.38	3.89	2.26	2.34 *	1.71	7.29
		W/O dozer			8.35 *	5.74	5.27	3.16	3.4	2.1	2.34 *	1.59	7.29
	-1.5 m	Dozer up	5.20 *	5.20 *	10.12 *	6.03	5.89	3.28	3.83	2.21	2.85 *	1.87	6.79
		W/O dozer	5.20 *	5.20 *	10.12 *	5.63	5.16	3.06	3.35	2.05	2.81	1.74	6.79
	-3.0 m	Dozer up	8.19 *	8.19 *	10.41 *	6.09	5.9	3.3			3.98	2.3	5.87
		W/O dozer	8.19 *	8.19 *	10.41 *	5.7	5.17	3.08			3.48	2.15	5.87
	-4.5 m	Dozer up			7.94 *	6.26					5.36 *	3.71	4.25
		W/O dozer			7.94 *	5.94					5.36 *	3.51	4.25

➤ Standard track width: 2590 mm • W/O Bucket

Unit: 1000 kg	A	Chassis Frame Attachment	3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
	B												A
Two-piece boom 4.98 m Arm 2.5 m Shoe 600 mm Counterweight 2.2 t	7.5 m	Dozer up			2.44 *	2.44 *					1.93 *	1.93 *	4.59
		W/O dozer			2.44 *	2.44 *					1.93 *	1.93 *	4.59
	6.0 m	Dozer up			2.92 *	2.92 *	2.19 *	2.19 *			1.52 *	1.52 *	6.10
		W/O dozer			2.92 *	2.92 *	2.19 *	2.19 *			1.52 *	1.52 *	6.10
	4.5 m	Dozer up			3.41 *	3.41 *	3.43 *	2.52			1.36 *	1.36 *	6.98
		W/O dozer			3.41 *	3.41 *	3.43 *	2.36			1.36 *	1.36 *	6.98
	3.0 m	Dozer up			4.53 *	3.73	3.88 *	2.42			1.31 *	1.31 *	7.46
		W/O dozer			4.53 *	3.51	3.59	2.27			1.31 *	1.31 *	7.46
	1.5 m	Dozer up			5.85 *	3.46	3.95	2.3	2.25 *	1.65	1.34 *	1.34 *	7.60
		W/O dozer			5.36	3.23	3.46	2.15	2.25 *	1.53	1.34 *	1.34 *	7.60
	0.0 m	Dozer up			5.9	3.28	3.85	2.21			1.43 *	1.43 *	7.44
		W/O dozer			5.16	3.06	3.36	2.06			1.43 *	1.43 *	7.44
	-1.5 m	Dozer up	7.41 *	5.94	5.83	3.23	3.81	2.18			1.63 *	1.63 *	6.96
		W/O dozer	7.41 *	5.55	5.1	3	3.32	2.02			1.63 *	1.63 *	6.96
	-3.0 m	Dozer up	10.25 *	6.07	5.89	3.27	3.11 *	2.25			2.05 *	2.05 *	6.07
		W/O dozer	10.25 *	5.67	5.15	3.05	3.11 *	2.09			2.05 *	2.05 *	6.07

Standard and optional equipment

Engine

Perkins 1204F, 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)	●
Breaker piping	●
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	●
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	●
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	○
Guard rails ISO ww2867:2011	○

Other

Boom: 4600 mm – arm: 2500 mm – counterweight: 2200 kg	●
Doosan Connect Telematic system	●
Auto shut-off fuel filler pump	●
Double element air cleaner	●
Fuel pre-filter with water separator sensor	●
Dust screen for radiator/oil cooler	●
Self-diagnostic function	●
Alternator (24 V, 85 A) - Battery (2 × 12 V, 100 Ah)	●
Hydrostatic 2-speed travel system with automatic shift	●
Remote greasing for swing circle and work group pivot points	●

Guards for work lights	●
Arms: 2100 & 3000 mm	○
Boom: two-piece boom 4980 mm	○
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	○

Undercarriage

Hydraulic track adjuster	●
Normal track guards	●
Greased and sealed track links	●
600 mm triple grouser shoe	●
500, 700 mm triple grouser shoe	○
500 mm rubber shoe	○
Dozer blade (width: 2490 mm for 500 mm shoe)	○
Dozer blade (width: 2590 mm for 600 mm shoe)	○
Dozer blade (width: 2690 mm for 700 mm shoe)	○

Standard:



Optional:



Engine coolant heater



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.