

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, 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 DLo8P
No. of cylinders	6
Rated power at 1800 rpm	
(SAE J1995)	213 kW (285.6 hp)
(SAE J1349)	209.1 kW (280.4 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

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

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

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.

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

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

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

➤ 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 swing speed	9.33 rpm
Maximum swing torque	15093 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

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

➤ Buckets

					Standard track 3.28 m / narrow track 3.00 m					
Bucket type	Capacity (m³) SAE	Width (mm)		Weight (kg)	One-piece boom			Two-piece boom		
		With side cutters	W/O side cutters		Arm 2.6 m	Arm 3.2 m	Arm 3.95 m	Arm 2.6 m	Arm 3.2 m	Arm 3.95 m
GP	1.25	1278	1228	1249	A / A	A / A	A / A	- / A	- / A	- / B
	1.49	1460	1410	1344	A / A	A / B	B / C	- / A	- / B	- / C
	1.61	1550	1500	1392	A / A	A / B	B / C	- / A	- / B	- / D
	1.83	1718	1668	1522	A / B	B / C	C / D	- / B	- / C	- / D
HD	1.20	1134	1068	1303	A / A	A / A	A / A	- / A	- / A	- / B
	1.42	1286	1220	1428	A / A	A / A	B / C	- / A	- / B	- / C
	1.65	1438	1372	1526	A / B	A / C	C / D	- / B	- / C	- / D
	1.79	1526	1460	1609	A / B	B / C	C / D	- / B	- / C	- / D
	2.01	1676	1610	1706	B / C	C / D	D / -	- / C	- / D	- / -
Rock	1.28	-	1382	1424	A / A	A / A	A / B	- / A	- / A	- / B

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

	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

➤ 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)

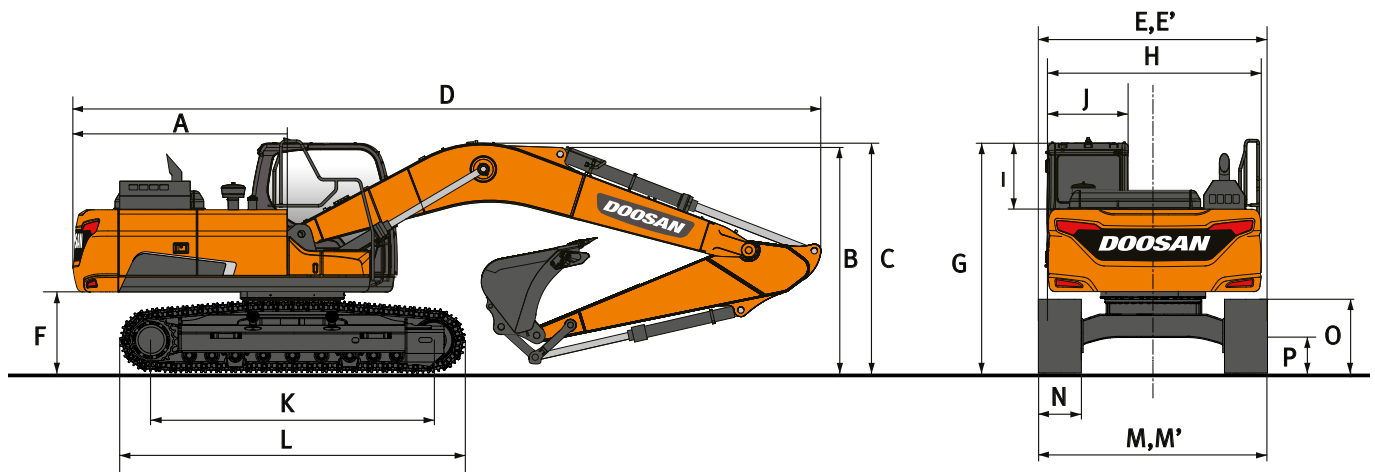
Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

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



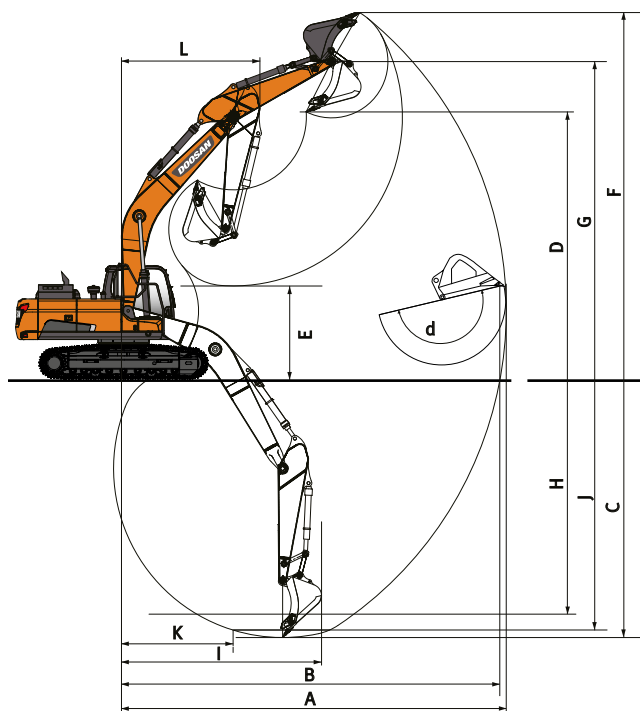
Dimensions

	One-piece boom			Two-piece boom		
Boom length - mm	6500			3450 LB + 3100 UB		
Arm length - mm	2600	3200	3950	2600	3200	3950
Bucket capacity - m³	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

Digging forces (ISO)

	One-piece boom			Two-piece boom		
Boom length - mm	6500			3450 LB + 3100 UB		
Arm length - mm	2600	3200	3950	2600	3200	3950
Bucket capacity - m³	1.83	1.49	1.25	1.83	1.49	1.25
BUCKET (Normal/Press. Up) - ton	24.4 / 25.9	24.4 / 25.9	24.4 / 25.9	24.4 / 25.9	24.4 / 25.9	24.4 / 25.9
ARM (Normal/Press. Up) - ton	22.0 / 23.3	17.9 / 18.9	15.1 / 16.0	22.0 / 23.3	17.9 / 18.9	15.1 / 16.0

Working range



Working range

	One-piece boom			Two-piece boom		
Boom length - mm	6500			3450 LB + 3100 UB		
Arm length - mm	2600	3200	3950	2600	3200	3950
Bucket capacity - m³	1.83	1.49	1.25	1.83	1.49	1.25
A Max. digging reach - mm	10590	11170	11930	10770	11380	12150
B Max. digging reach (ground) - mm	10380	10970	11745	10565	11185	11975
C Max. digging depth - mm	6935	7535	8290	6740	7350	8135
D Max. loading height - mm	6865	7175	7635	8560	9065	9900
E Min. loading height - mm	3315	2710	1955	4385	3645	3005
F Max. digging height - mm	9970	10315	10815	11925	12460	13305
G Max. bucket pin height - mm	8570	8880	9340	10245	10765	11605
H Max. vertical wall depth - mm	5090	5890	6830	5250	5935	6750
I Max. radius vertical - mm	7715	7720	7785	7510	7550	7680
J Max. digging depth (8" level) - mm	6720	7345	8155	6540	7170	7970
K Min. radius 8" level - mm	3270	3320	3395	2430	2395	2380
L Min. swing radius - mm	4480	4455	4515	3635	3440	3510
d Bucket angle - °	178	178	178	178	178	178

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

DX340LC-5

Standard track width: 3280 mm • W/O Bucket















Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B															A
One-piece boom 6.5 m Arm 2.6 m Shoe 600 mm Counterweight 7.1 t	7.5 m											9.00 *	8.72	7.00	5.42 *	7.27
	6.0 m							9.64 *	9.64 *	8.93 *	7.71	8.88 *	6.98	7.95	5.17	8.19
	4.5 m					14.08 *	14.08 *	10.93 *	10.51	9.44 *	7.5	8.93 *	6.09	8.54	4.53	8.77
	3.0 m							12.45 *	9.93	10.18 *	7.22	8.41	5.65	8.83	4.2	9.07
	1.5 m							13.65 *	9.46	10.54	6.96	8.24	5.5	8.86	4.08	9.10
	0.0 m					19.22 *	13.94	14.18 *	9.21	10.36	6.8	8.48	5.63	8.63	4.16	8.89
	-1.5 m					18.32 *	13.98	13.93 *	9.15	10.32	6.76	9.25	6.12	8.11	4.47	8.40
	-3.0 m			21.26 *	21.26 *	16.49 *	14.2	12.73 *	9.27			10.05 *	7.21	7.25	5.18	7.59
	-4.5 m			16.64 *	16.64 *	13.10 *	13.10 *					9.85 *	9.85 *	5.88	6.82	6.32

One-piece boom 6.5 m Arm 3.2 m Shoe 600 mm Counterweight 7.1 t	7.5 m									8.07 *	7.9			7.78 *	7.49	7.73
	6.0 m									8.19 *	7.82			7.58 *	6.18	8.60
	4.5 m					12.58 *	12.58 *	10.08 *	10.08 *	8.82 *	7.57	8.20 *	5.63	7.66 *	5.48	9.15
	3.0 m					16.00 *	15.3	11.71 *	10.06	9.66 *	7.26	8.19	5.5	7.62	5.1	9.42
	1.5 m					18.44 *	14.3	13.12 *	9.53	10.45 *	6.96	8.03	5.35	7.47	4.97	9.45
	0.0 m					19.22 *	13.89	13.94 *	9.19	10.32	6.75	7.92	5.24	7.64	5.07	9.23
	-1.5 m			15.00 *	15.00 *	18.81 *	13.82	14.02 *	9.05	10.21	6.65			8.22	5.43	8.75
	-3.0 m	17.84 *	17.84 *	23.42 *	23.42 *	17.42 *	13.96	13.24 *	9.09	10.23 *	6.71			9.36 *	6.23	7.95
	-4.5 m			19.60 *	19.60 *	14.73 *	14.31	11.14 *	9.35					9.43 *	8.02	6.73

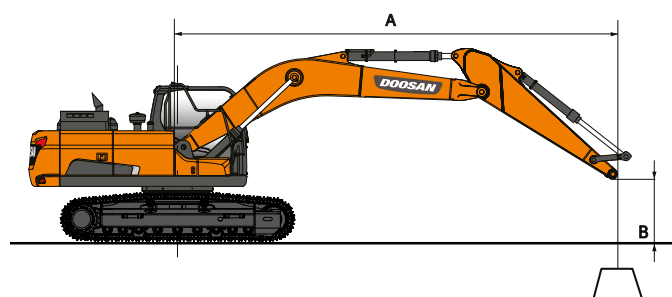
One-piece boom 6.5 m Arm 3.2 m Shoe 800 mm Counterweight 7.1 t	7.5 m									8.07 *	7.95			7.78 *	7.53	7.73
	6.0 m									8.19 *	7.87			7.58 *	6.22	8.60
	4.5 m					12.58 *	12.58 *	10.08 *	10.08 *	8.82 *	7.62	8.20 *	5.67	7.66 *	5.51	9.15
	3.0 m					16.00 *	15.39	11.71 *	10.12	9.66 *	7.3	8.27	5.53	7.7	5.14	9.42
	1.5 m					18.44 *	14.39	13.12 *	9.59	10.45 *	7.01	8.11	5.38	7.54	5.01	9.45
	0.0 m					19.22 *	13.98	13.94 *	9.25	10.42	6.8	8	5.28	7.72	5.1	9.23
	-1.5 m			15.00 *	15.00 *	18.81 *	13.91	14.02 *	9.11	10.32	6.7			8.31	5.47	8.75
	-3.0 m	17.84 *	17.84 *	23.42 *	23.42 *	17.42 *	14.05	13.24 *	9.16	10.23 *	6.76			9.36 *	6.28	7.95
	-4.5 m			19.60 *	19.60 *	14.73 *	14.41	11.14 *	9.41					9.43 *	8.08	6.73



Two-piece boom 6.54 m Arm 3.2 m Shoe 900 mm Counterweight 7.1 t	10.5 m					10.65 *	10.65 *							10.16 *	10.16 *	4.60
	9.0 m							10.76 *	10.76 *					8.08 *	8.08 *	6.70
	7.5 m							10.95 *	10.95 *	9.59 *	7.89			7.30 *	7.02	7.98
	6.0 m					11.75 *	11.75 *	11.51 *	11.21	9.68 *	7.8			6.97 *	5.86	8.83
	4.5 m					16.18 *	16.18 *	12.50 *	10.66	10.19 *	7.55	8.30 *	5.61	6.91 *	5.23	9.36
	3.0 m					18.47 *	15.24	13.53 *	10.03	10.87 *	7.23	8.28	5.48	7.05 *	4.91	9.63
	1.5 m					19.24 *	14.25	14.10 *	9.49	10.66	6.94	8.13	5.33	7.32	4.81	9.66
	0.0 m					18.25 *	13.88	13.85 *	9.17	10.44	6.74	8.03	5.24	7.51	4.92	9.44
	-1.5 m			13.04 *	13.04 *	16.08 *	13.86	12.67 *	9.06	9.89 *	6.66			7.12 *	5.28	8.97
	-3.0 m					12.85 *	12.85 *	10.41 *	9.14	7.82 *	6.75			6.14 *	6.05	8.20

➤ **Narrow track width: 3000 mm • W/O Bucket**

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B															A
One-piece boom 6.5 m Arm 3.2 m Shoe 600 mm Counterweight 7.1 t	7.5 m									8.07 *	7			7.78 *	6.62	7.73
	6.0 m									8.19 *	6.92			7.58 *	5.45	8.60
	4.5 m					12.58 *	12.58 *	10.08 *	9.41	8.82 *	6.67	8.19	4.94	7.66 *	4.8	9.15
	3.0 m					16.00 *	13.22	11.71 *	8.8	9.66 *	6.37	8.04	4.81	7.47	4.46	9.42
	1.5 m					18.44 *	12.26	13.12 *	8.28	10.36	6.08	7.88	4.66	7.32	4.33	9.45
	0.0 m					19.22 *	11.87	13.94 *	7.95	10.12	5.87	7.77	4.56	7.49	4.41	9.23
	-1.5 m			15.00 *	15.00 *	18.81 *	11.8	14.02 *	7.82	10.02	5.78			8.06	4.72	8.75
	-3.0 m	17.84 *	17.84 *	23.42 *	23.42 *	17.42 *	11.94	13.24 *	7.86	10.08	5.83			9.3	5.42	7.95
	-4.5 m			19.60 *	19.60 *	14.73 *	12.28	11.14 *	8.11					9.43 *	6.99	6.73

Two-piece boom 6.52 m Arm 2.6 m Shoe 600 mm Counterweight 7.1 t	7.5 m					13.71 *	13.71 *							12.45 *	10.54	5.77
	6.0 m					13.74 *	13.74 *	11.74 *	10.02					10.73 *	7.25	7.23
	4.5 m					15.06 *	15.06 *	12.21 *	9.74	10.31 *	6.8			9.61 *	5.85	8.16
	3.0 m							13.11 *	9.22	10.76 *	6.58			8.6	5.13	8.73
	1.5 m							13.96 *	8.64	10.7	6.31	8.08	4.79	8.05	4.77	9.02
	0.0 m							14.22 *	8.2	10.42	6.06	7.98	4.7	7.92	4.66	9.05
	-1.5 m							13.60 *	7.97	10.26	5.92			8.16	4.78	8.82
	-3.0 m					14.62 *	12.04	12.01 *	7.95	9.31 *	5.9			7.56 *	5.2	8.32
	-4.5 m					11.00 *	11.00 *	9.22 *	8.1					6.26 *	6.13	7.47



 : 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, Stage IV compliant, SCR, EGR, DOC, water-cooled diesel engine with Variable Turbo Charger and air-to-air intercooler	●
Auto-idle function	●
Auto shut-off	●
No DPF	●

Hydraulic system

ECOPOWER	●
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	○

Other

Boom: 6.50 m – arm: 3.20 m – Counterweight: 7100 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	●
Electric transfer pump for initial priming of fuel filters	●
Dust screen for radiator/oil cooler	●
Hydraulically-driven oil cooler fan	●
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: 2.60 m, 3.20 m HD or 3.95 m	○
Boom: 6.50 m HD	○
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, tilting and rotating buckets	○
Additional filter for breaker piping	○
Floating boom	○
Double pump flow	●
Engine coolant heater	○
Oil-washed air cleaner	○
Straight travel pedal (not to be combined with two-piece boom)	○
Bio oil	○
Automatic lubrication system	○
Alarm for travel & swing	○

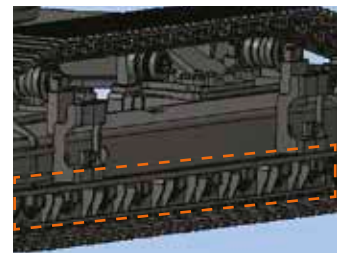
Undercarriage

Hydraulic track adjuster	●
Normal track guards	●
Double track guards	○
Full-length track guards	○
Greased and sealed track links	●
600 mm triple grouser shoe	●
600 mm double grouser shoe	○
700, 800, 850, 900 mm triple grouser shoe	○

Standard: ●
Optional: ○



Straight travel pedal



Full-length track guard



Two-piece boom



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.