

[Notice]

This is **preliminary** product contents to introduce DX-7 new models. Product specifications or features **can be changed** in development and validation process without notice.



New DX140LCR-7 Specifications

DX140LCR-7

2021.05.

DIEU Product Management

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DX140LCR-7 Spécifications

MODEL	DX140LCR
BOOM	Mono 4600mm
ARM	2500 mm
CTW	3200KG
OPERATING WEIGHT	15900kg
ENGINE	Doosan D34 Stage V 4CYL
ENGINE DISPLACEMENT	3400 cc
POWER ISO, gross	117HP @2000rpm
AFTER TREATMENT	no EGR SCR DOC DPF
ARM FORCE normal /boost	[ISO] 6.2/6.5 Ton
BUCKET FORCE normal /boost	[ISO] 10.5/11.1 Ton
SWING FORCE	4888 kgf.m
TRACTION FORCE MAX	152 KN
LIFTING @4,5M (ground)	5,27T
LIFTING @4,5M SIDE	3,42T
LIFTING @6M (ground)	3,41T
LIFTING @6M SIDE	2,30T
LIFTING MAX REACH (ground)	2,37T
LIFTING MAX REACH SIDE	1,89T
MAX. DIGGING REACH (ground)	8285 mm
MAX. DIGGING DEPTH	5635 mm
MAX. DIGGING HEIGHT	8660 mm
PUMP FLOW	228L/mn (2 x 114)

DX140LCR-7 Lifting performance

DX140LCR-7 Boom 4600mm Arm 3000mm shoes 700mm **Dozer down**

	F 1.5 m	S 1.5 m	F 3 m	S 3 m	F 4.5 m	S 4.5 m	F 6 m	S 6 m	Max. F	Max. S	Reach (m)
7.5 m									2.42 *	0,31	Max. at(m) 4.34
6 m					3.28 *	0,34			2.05 *	2.05 *	Max. at(m) 5.91
4.5 m					3.56 *	0,28	3.21 *	3.21 *	1.94 *	1.94 *	Max. at(m) 6.82
3 m			5.81 *	0,5	4.76 *	0,12	3,71	4.03 *	1.96 *	1.96 *	Max. at(m) 7.30
1.5 m			9.29 *	9.29 *	5,61	5.97 *	3,58	4.69 *	2.08 *	2.08 *	Max. at(m) 7.45
0 m			8.35 *	8.35 *	5,37	6.86 *	3,47	5.11 *	2.34 *	2.34 *	Max. at(m) 7.29
-1.5 m	5.20 *	5.20 *	10.13 *	10.13 *	5,26	7.08 *	3,41	5.16 *	2.86 *	2.86 *	Max. at(m) 6.79
-3 m	8.20 *	8.20 *	9.55 *	9.55 *	5,27	6.44 *			3,56	4.04 *	Max. at(m) 5.87
-4.5 m			6.60 *	6.60 *					4.42 *	4.42 *	Max. at(m) 4.24

DX140LCR-7 Boom 4600mm Arm 3000mm shoes 700mm **non Dozer**

	F 1.5 m	S 1.5 m	F 3 m	S 3 m	F 4.5 m	S 4.5 m	F 6 m	S 6 m	Max. F	Max. S	Reach (m)
7.5 m									2.42 *	2.42 *	Max. at(m) 4.34
6 m					3.28 *	3.28 *			2.05 *	2.05 *	Max. at(m) 5.91
4.5 m					3.56 *	3.56 *	3.21 *	2,46	1.94 *	1.94 *	Max. at(m) 6.82
3 m			5.81 *	5.81 *	4.76 *	3,72	3,72	2,38	1.96 *	1,72	Max. at(m) 7.30
1.5 m			9.29 *	6,32	5,63	3,45	3,59	2,26	2.08 *	1,62	Max. at(m) 7.45
0 m			8.35 *	5,88	5,39	3,24	3,48	2,16	2.34 *	1,63	Max. at(m) 7.29
-1.5 m	5.20 *	5.20 *	10.13 *	5,77	5,28	3,14	3,43	2,11	2.86 *	1,79	Max. at(m) 6.79
-3 m	8.20 *	8.20 *	9.55 *	5,84	5,29	3,16			3,57	2,21	Max. at(m) 5.87
-4.5 m			6.60 *	6,07					4.42 *	3,6	Max. at(m) 4.24

DX140LCR-7 Lifting performance

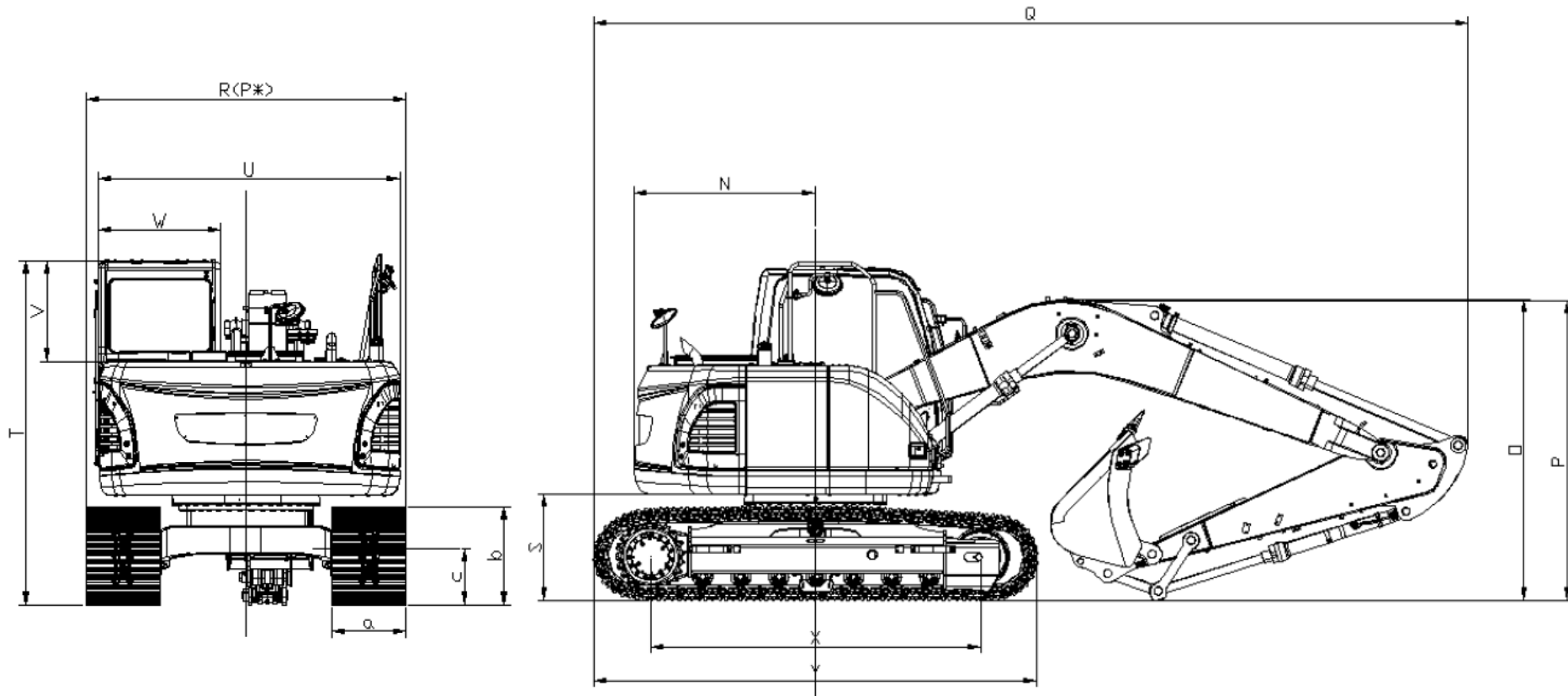
DX140LCR-7 Boom 4600m Arm 2500mm Road Liner 500

	F 1.5 m	S 1.5 m	F 3 m	S 3 m	F 4.5 m	S 4.5 m	F 6 m	S 6 m	Max. F	Max. S	Reach (m)
7.5 m			3.83 *	3.83 *					2.71 *	2.71 *	Max. at(m) 3.68
6 m					3.67 *	3.67 *			2.15 *	2.15 *	Max. at(m) 5.45
4.5 m			3.99 *	3.99 *	4.27 *	3,98	3.22 *	2,51	1.99 *	1.99 *	Max. at(m) 6.41
3 m			7.32 *	7,1	5.29 *	3,78	3,58	2,44	1.99 *	1,94	Max. at(m) 6.91
1.5 m			8.15 *	6,39	5,42	3,54	3,48	2,34	2.11 *	1,83	Max. at(m) 7.07
0 m			7.22 *	6,11	5,23	3,37	3,39	2,26	2.37 *	1,87	Max. at(m) 6.89
-1.5 m	5.49 *	5.49 *	10.46 *	6,09	5,17	3,31	3,37	2,24	2.91 *	2,08	Max. at(m) 6.35
-3 m	9.33 *	9.33 *	8.72 *	6,2	5,23	3,37			4,06	2,69	Max. at(m) 5.34

DX140LCR-7 artiBoom 4980m Arm 2500mm Road Liner 500

	F 3 m	S 3 m	F 4.5 m	S 4.5 m	F 6 m	S 6 m	F 7.5 m	S 7.5 m	Max. F	Max. S	Reach (m)
1.5 m			5,34	3,43	3,44	2,28	2.24 *	1,63	2.21 *	1,63	Max. at(m) 7.50
0 m			5,13	3,25	3,34	2,19			2.43 *	1,65	Max. at(m) 7.34
-1.5 m	7.52 *	5,9	5,07	3,2	3,3	2,16			2,76	1,82	Max. at(m) 6.84
-3 m	9.23 *	6,03	5,13	3,25					3,44	2,26	Max. at(m) 5.91

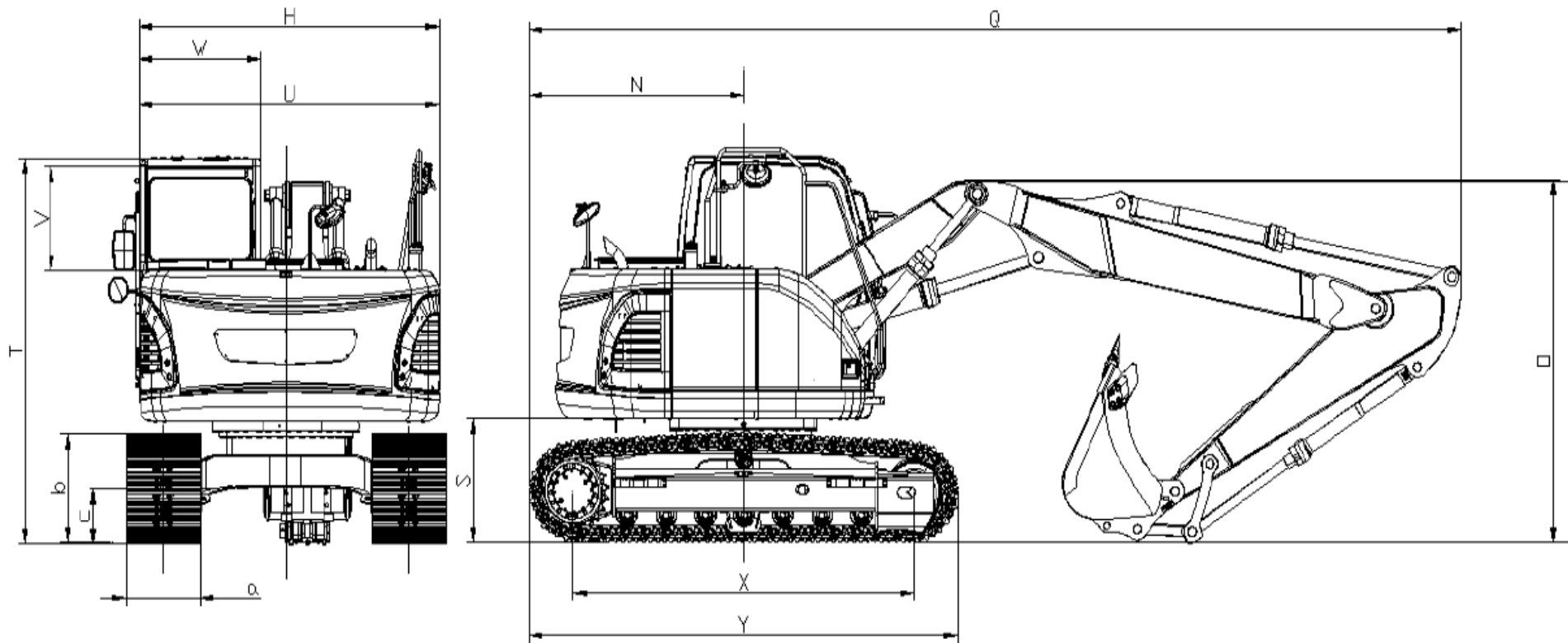
KEY DIMENSIONS DX140LCR-7



KEY DIMENSIONS DX140LCR-7

Boom				4.6	4.6
Arm				3.0	2.5
Bucket				0.51	0.51
Undercarriage (Track+Grouser)				LC+TG	LC+TG
Under Attachment				Dozer	Dozer
Overall	L1	Overall Length		7,990	8,030
	H1	Overall Height	Boom	3,060	2,635
			Hose	3,135	2,770
			Cabin	2,874.5	2,874.5
			Hand/Guard Rail	3,021.5	3,021.5
	W1	Overall Width		2,690	2,590
	R1	Rear Swing Radius		1,524	1,524
Swing Body	H2	Ground Clearance*		*381.5	*381.5
	W2	House Width		2,440	2,440
	W3	Cabin Width		1,022	1,022
	H3	Height Over Cover		2,177.5	2,177.5
	H4	Counterweight Clearance*		*894.5	*894.5
Undercarriage	H5	Track Height*		*743	*743
	L3	Track Length		3,754.3	3,754.3
	L4	Tumbler Distance		3,034	3,034
	W5	Undercarriage Width	STD/LC	2,690	2,590
			Narrow	-	-
	W6	Shoe Width		700	600
	etc.	Grouser Height		25	25

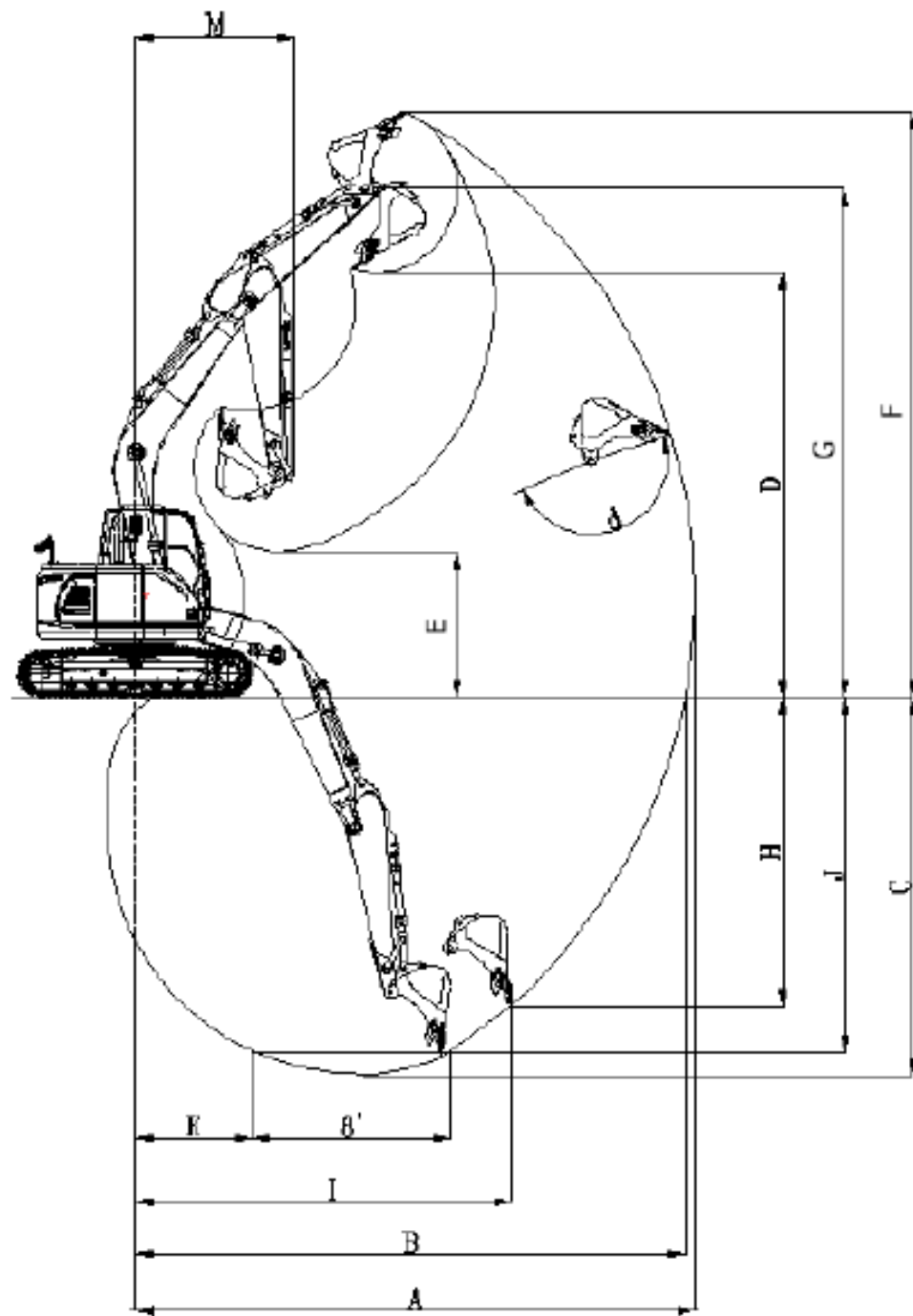
KEY DIMENSIONS DX140LCR-7



KEY DIMENSIONS DX140LCR-7

Boom				Arti	Arti
Arm				2.5	2.1
Bucket				0.51	0.51
Undercarriage (Track+Grouser)				LC+RL	LC+TG
Under Attachment				Dozer	Dozer
Overall	1	Overall Length		8,030	8,040
	1	Overall Height	Boom	2,635	2480
			Hose	2,770	2595
			Cabin	2,967.0	2,874.5
			Hand/Guard Rail	3,114.0	3,021.5
	1	Overall Width		2,490	2,590
	R1	Rear Swing Radius		1,524	1,524
Swing Body	2	Ground Clearance*		*443	*381.5
	2	House Width		2,440	2,440
	3	Cabin Width		1,022	1,022
	3	Height Over Cover		2,270.0	2,177.5
	4	Counterweight Clearance*		*931	*894.5
Undercarriage	5	Track Height*		*866	*743
	3	Track Length		3,827.3	3,754.3
	4	Tumbler Distance		3,034	3,034
	5	Undercarriage Width	STD/LC	2,490	2,590
			Narrow	-	-
	6	Shoe Width		500	600
	etc.	Grouser Height		81	25

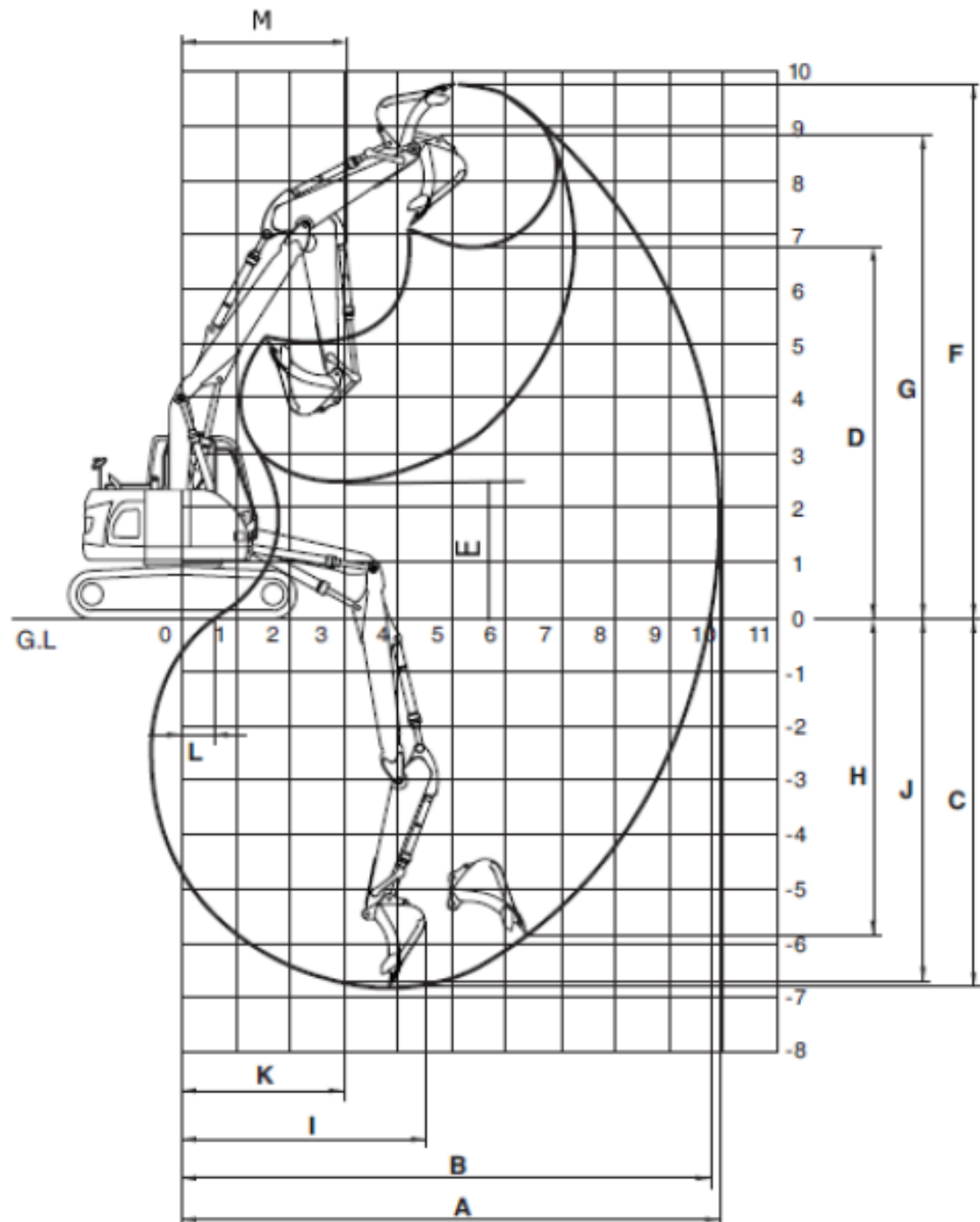
DX140LCR-7 working range



Working range DX140LCR-7 Monoboarm

BOOM TYPE (mm)			4600		
ARM TYPE (mm)			2500	2100	3000
BUCKET TYPE (SAE) (m ³)			0.51	0.51	0.51
MAX. DIGGING REACH	(mm)	A	8285	7815	8665
MAX. DIGGING REACH (GROUND)	(mm)	B	8140	7660	8530
MAX. DIGGING DEPTH	(mm)	C	5485	5085	5985
MAX. LOADING HEIGHT	(mm)	D	6855	6380	7080
MIN. LOADING HEIGHT	(mm)	E	2525	2890	2120
MAX. DIGGING HEIGHT	(mm)	F	9265	8760	9470
MAX. BUCKET PIN HEIGHT	(mm)	G	8075	7600	8300
MAX. VERTICAL WALL DEPTH	(mm)	H	4490	3705	4680
MAX. RADIUS VERTICAL	(mm)	I	5605	5745	5970
MAX. DEPTH TO 2500mm LINE	(mm)	J	5260	4780	5765
MIN. RADIUS 2500mm LINE	(mm)	K	2110	1995	2040
MIN. DIGGING REACH	(mm)	L	375	950	-130
MIN. SWING RADIUS	(mm)	M	1995	1825	2320
BUCKET ANGLE	(deg)	d	174	174	174

DX140LCR-7 working range



Working range DX140 LCR-7 Artiboom

BOOM TYPE (mm)			(TWO PIECE) 4980	
ARM TYPE	(mm)		2100	2500
BUCKET TYPE (SAE)	(m ³)		0.51	0.51
MAX. DIGGING REACH	(mm)	A	8260	8720
MAX. DIGGING REACH (GROUND)	(mm)	B	8115	8585
MAX. DIGGING DEPTH	(mm)	C	5250	5680
MAX. LOADING HEIGHT	(mm)	D	6580	7045
MIN. LOADING HEIGHT	(mm)	E	3210	2865
MAX. DIGGING HEIGHT	(mm)	F	8940	9445
MAX. BUCKET PIN HEIGHT	(mm)	G	7795	8265
MAX. VERTICAL WALL DEPTH	(mm)	H	3810	4005
MAX. RADIUS VERTICAL	(mm)	I	6250	6695
MAX. DEPTH TO 2500mm LINE	(mm)	J	5125	5565
MIN. RADIUS 2500mm LINE	(mm)	K	915	910
MIN. DIGGING REACH	(mm)	L		
MIN. SWING RADIUS	(mm)	M	2610	2820
BUCKET ANGLE	(deg)	d	174	174

DX140LC-7 Spécifications

DX140LCR-7 Options list	
Engine	
Doosan D34 G2 - Common rail 4 cylinders engine (3400 cc) with direct fuel injection and electronic control, 4 valves per cylinder, vertical injectors, water cooled, turbo charged with air-to-air intercooler. Stage V without EGR, selective catalyst reduction (SCR), diesel oxidation catalyst (DOC) and DPF. Power 86kW /115hp @2000rpm	std
No EGR	std
Auto-idle function	std
Auto shut-off	std
SPC3	std
Hydraulic system	
Boom and arm flow regeneration	std
fine swing mode, on or off from cabin	std
Swing anti-rebound valves	std
Spare ports (valve)	std
One-touch power boost function	std
double way line high flow + Breaker piping (PE3C)	std
Cylinder cushioning & contamination seals	std
Clamshell piping (diverter valve from bucket cylinder)	option
Hydraulic piping low flow for rotating or tilting tool (joystick control)	option
Hydraulic piping for quick-coupler	option
Double pump flow	option
floating boom	NA

Cab & Interior	
Pressurised sound-insulated and CabSus mounted cab	std
Fully adjustable air suspension seat with heater	std
Air conditioning with climate control	std
Pull-up type front window sun roller blind and removable lower front window	std
Sliding left window	std
Intermittent upper and lower windshield parralel wiper	std
Rain visor	std
Rear window defroster switch	std
Adjustable PPC wrist control levers for arm boom bucket and swing	std
Joysticks &pedals provide proportional control of auxiliary hydraulic lines	std
Pedal for auxiliary control 1 & 2 ways	std
Jog shuttle switch	std
New 8-inch color LCD gauge panel installed with touch-enabled	std
Attachment management system	std
Engine speed (RPM) control dial	std
Automatic travel speed	std
4 operating modes & 4 working modes	std
Multiple storage compartments (e.g. document holder under seat)	std
Storage area (tools etc.)	std
Hot and cool box	std
Flat spacious easy-to-clean floor	std
Keyless start (Smart key) & Remote Door lock/unlock	std
Anti-theft protection	std
12 V spare power socket	std
Serial communication port for laptop PC interface	std
Remote radio ON/OFF switch	std
Loudspeakers and connections for radio	std
RADIO+MP3(STEREO) with Bluetooth Streaming and Handsfree call	std
Rear and side view camera	std
360° Around View Camera	option
360° Around View Camera + ultra sonic detection	option
Fully adjustable air suspension seat (heating & cooling)	option

DX140LC-7 Spécifications

Safety	
Roll Over Protective Structure (ROPS)	std
Boom and arm cylinder safety valves	std
Overload warning device	std
Large guard rails on upper structure and steps	std
Rotating beacon	std
Punched metal anti-slip plates	std
Hydraulic safety lock lever	std
Safety glass	std
Hammer for emergency escape	std
Right and left rear-view mirrors	std
Lockable fuel cap and covers	std
Battery cut-off switch	std
Emergency engine stop switch and hydraulic pump control switch	std
Engine restart prevention system	std
Guard rails (ISO 2867:2011)	std
Parking brake	std
LED 9 Work lights (2 boom lamp, 5 body lamps, 2 additional lamps on cabin)	std
LED Work lights 4 additionnal lamps	option
FOGS cab - top and front cab guards (ISO 10262)	option
Front window upper and lower guards	option

DX140LCR-7 Spécifications

Other	
Doosan Connect Telematic system	std
Auto shut-off fuel filler pump	std
Double element air cleaner and pre-filtered Turbo dust separator	std
Fuel pre-filter with water separator sensor	std
Dust screen for radiator/oil cooler	std
Self-diagnostic function	std
Alternator (24 V 100 A) - Battery (2 × 12 V 100 Ah)	std
Hydrostatic drive with 2-speed power shift transmission	std
Remote greasing for swing circle and work group pivot points	std
4.60 m monoboam	std
2.50 m arm	std
2.10 m arm	option
3.00 m arm only for monoboam	option
Doosan buckets: full range of GP HD & Rock buckets	option
Doosan breakers and Doosan quick-couplers	option
Automatic lubrication system	option
Undercarriage	
Standard fixed undercarriage 2,590 mm with 600mm shoes	std
600 mm triple grouser shoes	std
500 mm triple grouser shoes	option
500 mm rubber shoes (road liner)	option
700 mm triple grouser shoes	option
Dozer blade for 500-600-700mm shoes	option

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