

# Doosan DX140 LC

## Hydraulic Excavator



### ENGINE

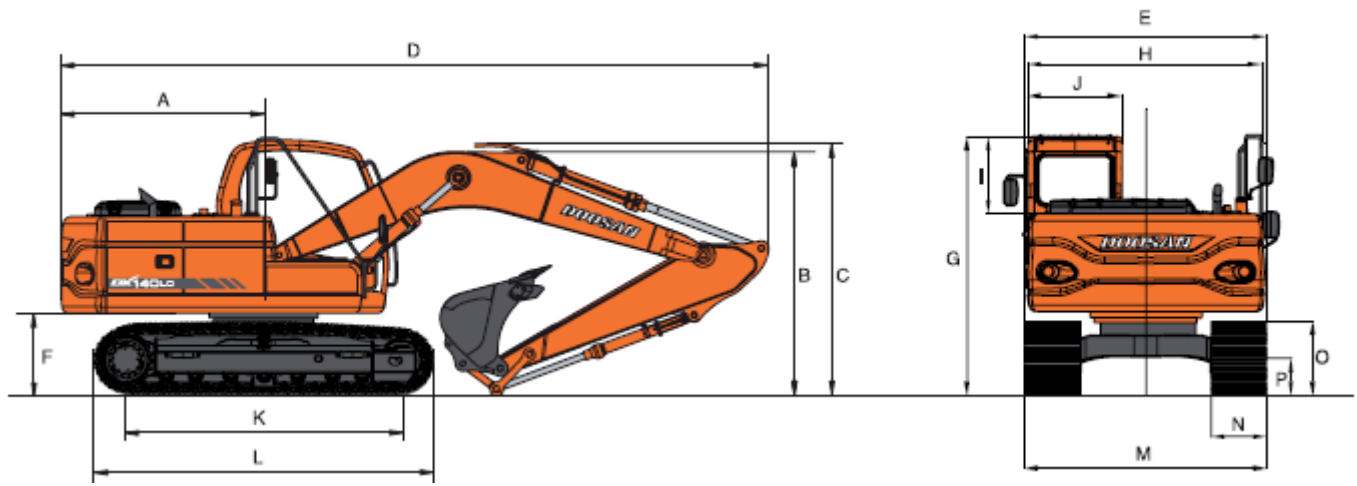
<b>Model</b>	DOOSAN DL06
	“Common Rail” engine with direct fuel injection and electronic control, 4 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for Phase III.
<b>Number of cylinders</b>	6
<b>Nominal flywheel power</b>	71 kW (96 Ps) at 1.850 rpm (DIN 6271 net) 71 kW (95 Hp) at 1.850 rpm (SAE J1349 net)
<b>Max torque</b>	44,5 kgf.m (446 Nm) at 1.400 rpm
<b>Piston displacement</b>	5.890 cc
<b>Bore &amp; stroke</b>	100 mm x 125 mm
<b>Starter</b>	24 V / 4,5 kW
<b>Batteries</b>	2 x 12 V / 100 Ah
<b>Air cleaner</b>	Double element with auto dust evacuation

### HYDRAULIC SYSTEM

<b>Main pumps</b>	2 variable displacement axial piston pumps Max flow: 2 x 114 l/min
<b>Pilot pump</b>	Gear pump – max flow: 27,75 l/min
<b>Main relief valves</b>	
<b>Boom/arm/bucket:</b>	Normal mode: 330 kg/cm <sup>2</sup> (324 bar) Power mode: 350 kg/cm <sup>2</sup> (343 bar) Travel: 330 kg/cm <sup>2</sup> (324 bar) Rotation: 245 kg/cm <sup>2</sup> (240 bar)

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## DIMENSIONS

<b>A</b>	Tail Swing Radius	2,200mm
<b>C</b>	Overall Height	3,090mm
<b>D</b>	Overall Length	7,640mm
<b>F</b>	Clearance under counterweight	894mm
<b>G</b>	Overall height of cabin	2,773mm
<b>H</b>	Overall width of upper structure	2,540mm
<b>J</b>	Overall width of Cabin	960mm
<b>K</b>	Tumbler Distance	3,034mm
<b>L</b>	Track Length	3,755mm
<b>M</b>	Overall width	2,590mm
<b>N</b>	Track Shoe width	600mm
<b>P</b>	Ground Clearance	410mm

## HYDRAULIC CYLINDERS

### Cylinders Quantity Bore x Rod diameter x stroke

<b>Boom</b>	2	110 x 75 x 1.085 mm
<b>Arm</b>	1	115 x 80 x 1.108 mm
<b>Bucket</b>	1	100 x 70 x 900 mm

## SWING MECHANISM

<b>Swing Speed</b>	0 to 10.7rpm
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## DRIVE

<b>Travel speed (fast/slow)</b>	4,7 / 3 km/h
<b>Maximum traction force</b>	7.300 / 11.800 kgf
<b>Maximum grade</b>	35° / 70 %

## UNDERCARRIAGE

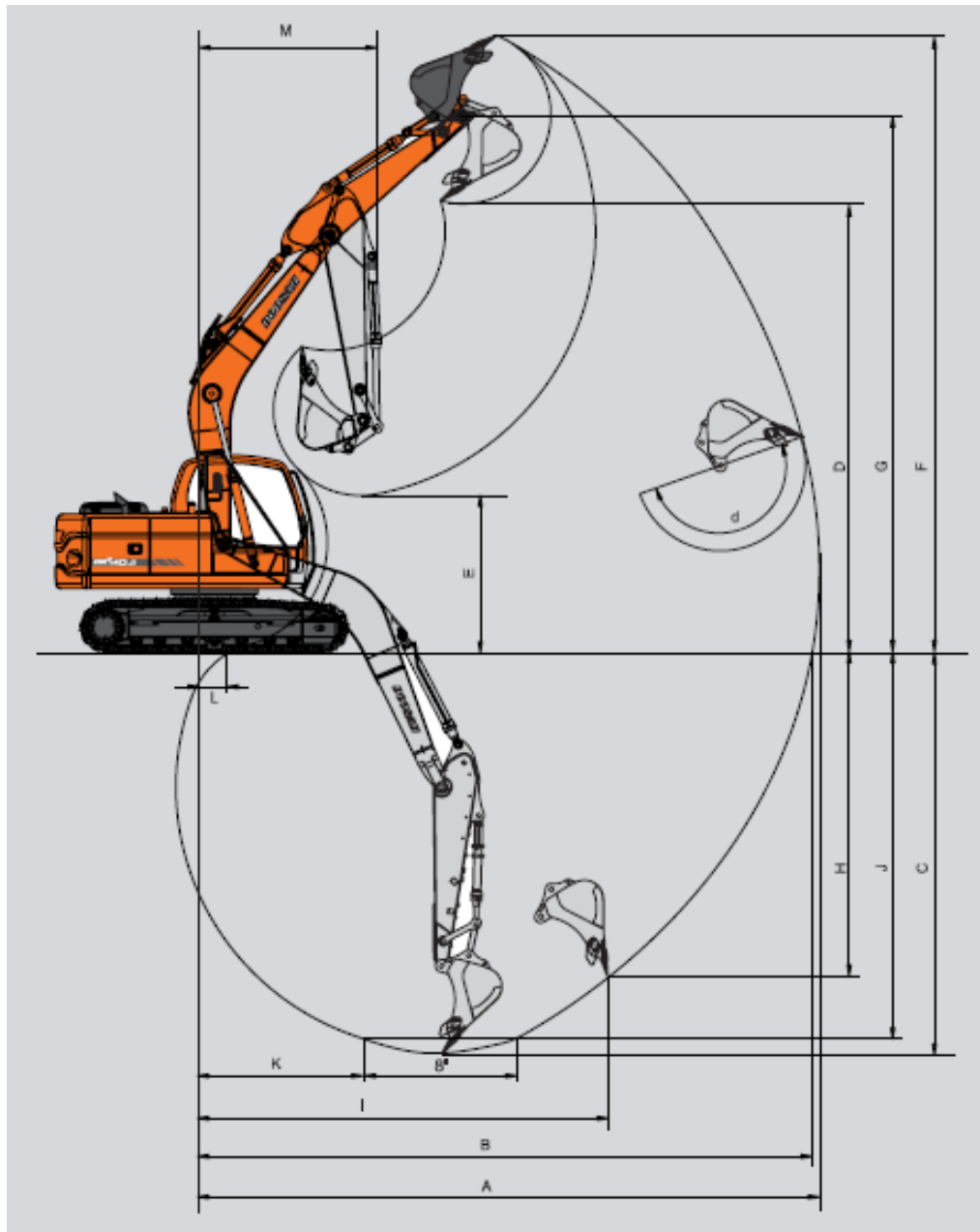
### Number of rollers and track shoes per side

<b>Upper rollers</b>	1
<b>Lower rollers</b>	7
<b>Shoes</b>	46

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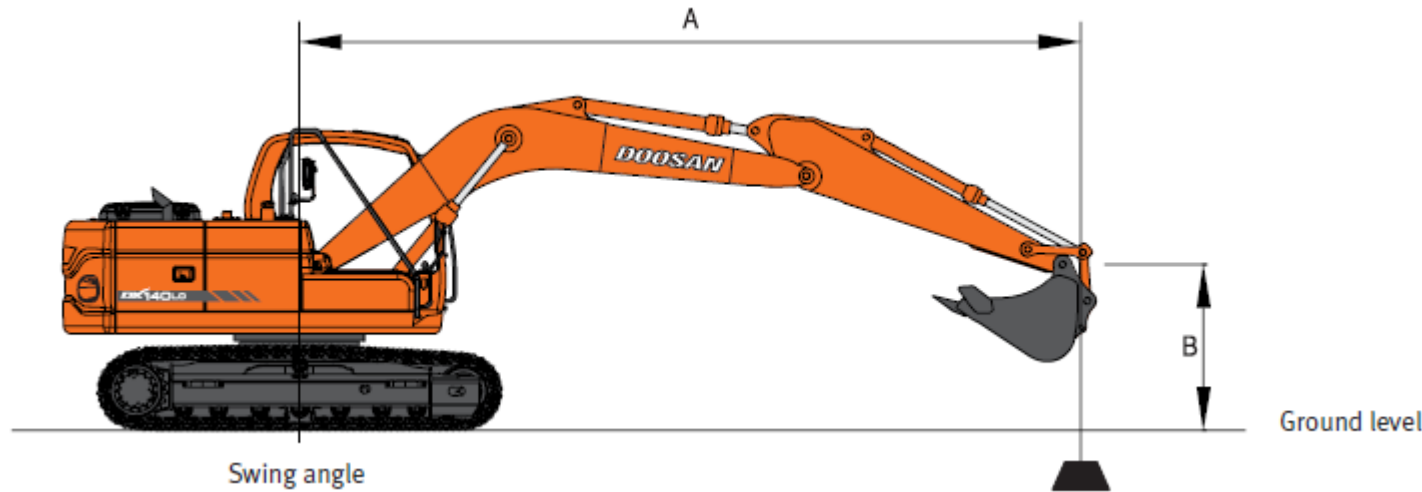
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DIMENSIONS		
<b>Boom Length</b>		4,600mm
<b>Arm Length</b>		3,000mm
<b>Type of Bucket</b>		0.39m <sup>3</sup>
<b>A</b>	Max digging reach	8,680mm
<b>B</b>	Max digging reach at ground level	8,540mm
<b>C</b>	Max digging depth	6,150mm
<b>D</b>	Max dumping height	6,415mm
<b>E</b>	Min dumping height	1,700mm
<b>F</b>	Max digging height	8,745mm
<b>G</b>	Max bucket pin height	7,645mm
<b>H</b>	Max vertical wall height	4,830mm
<b>I</b>	Max vertical radius	5,860mm
<b>J</b>	Max digging depth	5,920mm
<b>K</b>	Min radius 8' line	1,855mm
<b>L</b>	Min digging reach	305mm
<b>M</b>	Min swing radius	2,585mm
<b>d</b>	Bucket angle	173deg

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## LIFTING CAPACITY



Option — Boom: 4.600 mm - Arm: 3.000 mm – Bucket: SAE 0,51 m<sup>3</sup> (CECE 0,45 m<sup>3</sup>), weight: 418 kg - Shoe: 600 mm

Units: 1.000 kg

B (m)	A (m)		2		3		4		5		6		7		Max. Reach		A(m)
	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	🏗️	
7															*2,44	*2,44	4,93
6									*3,18	3,06					*2,20	*2,20	5,88
5									*3,24	3,06	*3,20	2,24			*2,09	1,90	6,54
4					*3,61	*3,61	*3,62	3,03	3,53	2,23					*2,06	1,69	6,99
3			*5,76	*5,76	*4,74	4,24	*4,21	2,97	3,50	2,20	2,70	1,68			*2,08	1,56	7,28
2					*5,99	4,10	4,64	2,89	3,45	2,16	2,68	1,67			*2,14	1,50	7,41
1					6,61	3,96	4,56	2,82	3,41	2,12	2,66	1,65			*2,25	1,49	7,41
o (ground)			*5,12	*5,12	6,51	3,87	4,50	2,76	3,37	2,09	2,64	1,63			*2,43	1,53	7,27
-1			*6,60	6,04	6,45	3,82	4,46	2,73	3,35	2,07					2,65	1,63	6,98
-2	*5,23	*5,23	*9,26	6,05	6,44	3,82	4,45	2,72	3,35	2,06					2,95	1,83	6,52
-3	*8,09	*8,09	*10,28	6,11	6,47	3,84	4,47	2,74							3,51	2,18	5,85
-4	*12,22	*12,22	*8,69	6,21	*6,48	3,91									*4,70	2,91	4,88

1. The nominal forces are based on the SAE J1097 standard.
2. The load point is the hook at the rear of the bucket.
3. \* = The nominal loads are based on hydraulic capacity.
4. The nominal loads do not exceed 87% of the hydraulic capacity or 75% of the capacity of the swing.

🏗️ : Nominal force  
 🏗️ : Nominal force at the side or 360°

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