



DX140LCR

* Engine

• Model	Cummins QSB 4.5 "Common Rail" engine with direct fuel injection and electronic control, 4 valves per cylinder, vertical injectors, water cooled, turbo compressor and air-air cooling of the intake air. Two modes available: normal and economy.
• Number of cylinders	4
• Nominal flywheel power	71 kW (95 Hp) at 1.900 rpm (SAE J1349 net)
• Max torque	45,8 kgf.m at 1.400 rpm
• Piston displacement	4.500 cc
• Bore & stroke	102 x 138 mm
• Starter	24 V / 3,7 kW
• Batteries	2 x 12 V / 100 Ah
• Air cleaner	Double element and pre-filtered turbo with auto dust evacuation.

* Hydraulic system

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Two travel speeds offer either increased torque or high speed tracking.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

• Main pumps	> variable displacement axial piston pumps Max flow: 2 x 114 l/min
• Pilot pump	Gear pump – max flow: 27,75 l/min
• Main relief valves	Boom/arm/bucket: Normal mode: 330 kg/cm ² (324 bar) Power mode: 350 kg/cm ² (343 bar) Travel: 350 kg/cm ² (343 bar) Rotation: 270 kg/cm ² (265 bar)

* Weight

Room 4.600 mm • Arm 2.500 mm • Bucket 0,51 m³ (SAF)

	Shoe width (mm)	Operating weight (kg)	Ground pressure (kg/cm ²)
Triple grouser	500	14.600	0,49
	600 (std)	14.800	0,41
	700	15.000	0,35

* Weight with Dozer Blade

Std - Boom 4.600 mm • Arm 2.500 mm • Bucket 0,51 m³ (SAF)

	Shoe width (mm)	Dozer blade weight	Operating weight (kg)
Triple grouser	STD + 500 mm	2.500 mm : 590 kg	15.190
	STD + 600 mm	2.600 mm : 602 kg	15.402
	STD + 700 mm	2.700 mm : 615 kg	15.615

* Hydraulic cylinders

The piston rods and cylinder bodies are made of high-strength steel. A shock absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extend piston life.

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	110 x 75 x 1.103 mm
Arm	1	115 x 80 x 1.108 mm
Bucket	1	100 x 100 x 900 mm

* Undercarriage

Chassis are of very robust construction, all welded structures are designed to limit stresses. High-quality material used for durability. Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating seals. Tracks shoes made of induction-hardened alloy with triple grousers. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.

• Number of rollers and track shoes per side	
Upper rollers:	1
Lower rollers:	7
Shoes:	46
Total length of track:	3.755 mm

* Environment

Noise levels comply with environmental regulations (dynamic values).

• Sound level guarantee	101 dB(A) (2000/14/EC)
• Cab sound level	72 dB(A) (ISO 6396)

* Swing mechanism

- An axial piston motor with two-stage planetary reduction gear is used for the swing.
- Increased swing torque reduces swing time.
- Internal induction-hardened gear.
- Internal gear and pinion immersed in lubricant bath.
- The swing brake for parking is activated by spring and released hydraulically.

Swing speed: 0 to 10,8 rpm

* Drive

Each track is driven by an independent axial piston motor through a planetary reduction gearbox. Two levers with control pedals guarantee smooth travel with counter-rotation on demand.

• Travel speed (fast/slow)	5 / 3 km/h
• Maximum traction force	12.500 kgf
• Maximum grade	35° / 70 %

* Refill capacities

• Fuel tank	234 l
• Cooling system (Radiator capacity)	18 l
• Engine oil	11 l
• Swing drive	3,8 l
• Final drive	3 l (each)
• Hydraulic tank	93,5 l

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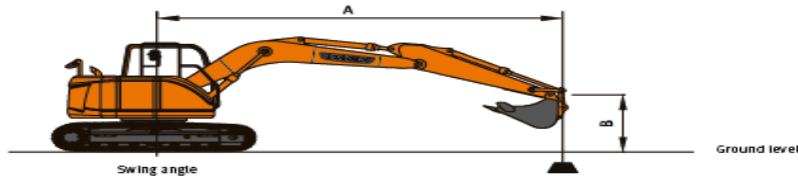
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Lifting capacity



Standard — Boom: 4.600 mm - Arm: 2.500 mm - Bucket: SAE 0,51 m³ (CECE 0,45 m³), weight: 418 kg - Shoe: 600 mm

Units: 1.000 kg

A (m)	2		3		4		5		6		Max. Reach		A(m)
	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡		
7					* 2,51	* 2,51					* 1,73	* 1,73	4,37
6					* 3,11	* 3,11	* 2,47	* 2,47			* 1,49	* 1,49	5,42
5					* 3,33	* 3,33	* 3,17	2,66	* 1,85	1,82	* 1,39	* 1,39	6,13
4			* 3,94	* 3,94	* 4,03	3,92	* 3,69	2,61	2,79	1,82	* 1,36	* 1,36	6,61
3			* 6,38	6,15	* 4,91	3,73	3,82	2,52	2,75	1,78	* 1,39	1,31	6,91
2			* 8,35	5,62	5,44	3,51	3,7	2,41	2,68	1,73	* 1,47	1,23	7,05
1			* 7,20	5,24	5,22	3,31	3,58	2,30	2,62	1,67	* 1,59	1,21	7,04
0 (ground)			* 7,38	5,09	5,08	3,19	3,49	2,22	2,57	1,62	* 1,80	1,25	6,89
-1	* 5,38	* 5,38	8,54	5,06	5,02	3,13	3,45	2,18	2,55	1,60	* 2,11	1,35	6,58
-2	* 7,68	* 7,68	8,59	5,1	5,02	3,13	3,44	2,17	2,56	1,61	2,50	1,57	6,09
-3	* 10,60	* 10,60	* 7,78	5,2	5,08	3,19	3,49	2,22			3,12	1,99	5,37
-4			* 5,75	5,39	* 4,45	3,33					* 3,59	2,99	4,29

Option — Boom: 4.600 mm - Arm: 2.500 mm - Bucket: SAE 0,51 m³ (CECE 0,45 m³), weight: 418 kg - Shoe: 600 mm - Dozer Blade

Units: 1.000 kg

A (m)	2		3		4		5		6		Max. Reach		A(m)
	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡		
7					* 2,41	* 2,41					* 1,56	* 1,56	4,69
6					2,80 *	2,80 *	2,36 *	2,36 *			1,40 *	1,40 *	5,68
5					3,02 *	3,02 *	2,86 *	2,86 *	2,04 *	2,04 *	1,33 *	1,33 *	6,36
4			3,39 *	3,39 *	3,54 *	3,54 *	3,37 *	3,37 *	2,74 *	2,74 *	1,32 *	1,32 *	6,82
3	8,06 *	8,06 *	5,63 *	5,63 *	4,59 *	4,59 *	4,02 *	3,83	3,39 *	2,82	1,35 *	1,35 *	7,11
2			7,64 *	7,64 *	5,58 *	5,28	4,57 *	3,68	3,99 *	2,74	1,42 *	1,42 *	7,25
1			5,19 *	8,14	6,46 *	5,02	5,09 *	3,53	4,28 *	2,65	1,55 *	1,55 *	7,25
0 (ground)	4,23 *	4,23 *	8,62 *	7,87	7,02 *	4,84	5,46 *	3,42	4,50 *	2,59	1,74 *	1,74 *	7,10
-1	5,67 *	5,67 *	5,41 *	7,78	7,21 *	4,75	5,61 *	3,36	4,56 *	2,55	2,03 *	2,03 *	6,80
-2	7,35 *	7,35 *	9,40 *	7,78	7,02 *	4,73	5,48 *	3,34	4,37 *	2,54	2,54 *	2,35	6,33
-3	9,44 *	9,44 *	8,43 *	7,87	6,40 *	4,77	4,96 *	3,37			3,54 *	2,83	5,63
-4	9,23 *	9,23 *	6,78 *	6,78 *	5,12 *	4,89					4,18 *	3,91	4,62

Option — Boom: 4.600 mm - Arm: 2.100 mm - Bucket: SAE 0,51 m³ (CECE 0,45 m³), weight: 418 kg - Shoe: 600 mm

Units: 1.000 kg

A (m)	2		3		4		5		6		Max. Reach		A(m)
	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡		
7			* 3,75	* 3,75							* 2,72	* 2,72	3,57
6			3,74	* 3,74	* 3,77						* 2,34	* 2,34	4,81
5			* 4,20	* 4,20	* 3,94	* 3,94		* 3,76	2,63		* 2,21	2,09	5,59
4	* 1,47	* 1,47	* 3,40	* 3,40	* 4,02	3,87	3,98	2,97	2,73	* 2,73	1,84	* 1,40	5,14
3			* 1,26	5,09	* 5,30	5,69	3,81	2,51	2,74	1,78	* 2,27	1,53	6,44
2					5,40	5,40	3,42	2,41	2,49	1,74	2,04	* 1,43	* 1,09
1					5,21	3,31	3,55	2,31	2,64	1,69	2,24	1,41	6,59
0 (ground)			* 7,37	5,10	5,10	3,24	3,52	2,25	2,60	1,65	2,33	1,44	6,43
-1	* 5,90	* 5,90	8,61	5,12	5,09	3,18	3,45	2,22	2,59	1,64	2,53	1,40	6,09
-2	* 9,00	* 9,00	* 5,51	5,20	5,09	3,20	3,51	2,24			2,96	1,89	5,55
-3	* 9,44	* 9,44	* 7,69	5,33	5,10	3,29					3,91	1,51	4,74
-4			* 1,75	* 3,75									3,57

Option — Boom: 4.600 mm - Arm: 3.000 mm - Bucket: SAE 0,51 m³ (CECE 0,45 m³), weight: 418 kg - Shoe: 600 mm

Units: 1.000 kg

A (m)	2		3		4		5		6		7		Max. Reach		A(m)
	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡	⚡		
7					* 2,71	* 2,71							* 1,75	* 1,75	4,97
6					* 2,80	* 2,80	* 2,62	* 2,62					* 1,50	* 1,50	5,91
5					* 2,87	* 2,87	* 2,91	* 2,91	* 2,44	2,21			* 1,51	* 1,51	6,57
4			* 4,97	* 4,97	* 3,47	* 3,47	* 3,30	3,02	* 4,95	2,18	* 1,53	* 1,53	* 1,50	* 1,50	7,11
3			* 5,35	* 5,35	* 4,48	4,23	* 3,93	2,91	3,13	2,12	* 2,29	1,59	* 1,53	1,46	7,29
2			* 7,50	4,34	* 5,00	3,98	4,13	3,08	3,05	2,05	2,34	1,55	* 1,40	1,38	7,43
1			* 8,13	5,88	5,05	3,76	3,99	2,66	2,97	1,98	2,30	1,51	* 1,23	1,36	7,42
0 (ground)			* 8,31	5,42	5,16	3,59	3,88	2,65	2,95	1,97	2,26	1,48	* 1,19	1,38	7,38
-1	* 5,30	* 5,30	* 9,10	5,53	5,44	3,5	3,84	2,49	2,88	1,88	2,24	1,47	* 1,22	1,47	6,99
-2	* 7,05	* 7,05	9,16	5,53	5,43	3,47	3,78	2,47	2,85	1,87			2,51	1,64	6,53
-3	* 9,31	* 9,31	* 8,64	5,60	5,46	3,50	3,00	2,49					2,19	1,97	5,66
-4	* 9,72	* 9,72	* 7,06	5,74	* 5,32	3,60							* 3,85	2,65	4,90

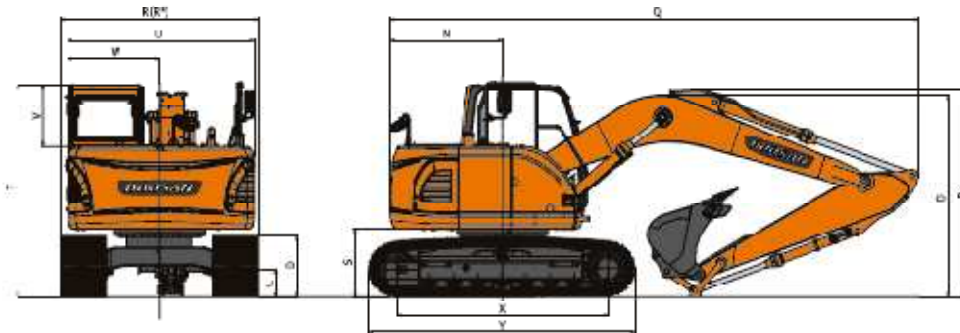


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Dimensions and working ranges



Dimensions – Boom: 4.600 mm - Arm: 2.500 mm - Shoe: 600 mm - Std.

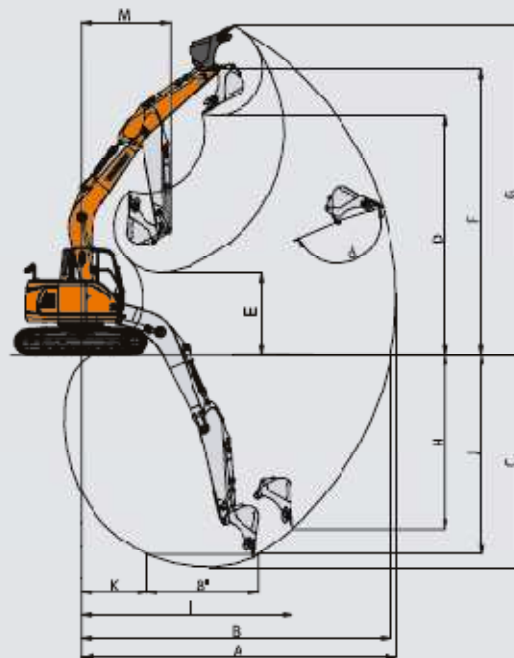
* Dimensions

U	Overall width of upper structure	2.420 mm	
W	Overall width of cabin	1.190 mm	
T	Overall height of cabin	2.795 mm	
N	Tail swing radius	1.480 mm	
P	Overall height	2,1 m 2,5 m (std) 3,2 m	2.585 mm 2.710 mm 3.094 mm
S	Clearance under counterweight	895 mm	
C	Ground clearance	410 mm	
X	Tumbler distance	3.035 mm	
Y	Track length	3.755 mm	
	Track shoe width	600 mm	
Q	Overall length	2,1 m 2,5 m (std) 3,2 m	7.245 mm 7.230 mm 7.195 mm
R	Overall width	2.590 mm	

* Digging forces (ISO)

Arm	2,1 m	2,5 m	3,2 m
Duct digging force*	11.100 kgf 109 kN	11.100 kgf 109 kN	11.100 kgf 109 kN
Arm digging force*	7.700 kgf 76 kN	6.500 kgf 64 kN	6.000 kgf 59 kN

* Max. force



* Working range

		4.500 mm	
Boom length		4.500 mm	
Arm length		2.100 mm	2.500 mm 3.000 mm
Type of bucket (PCSA)		0,51 m ²	0,51 m ² 0,39 m ²
A.	Max. digging reach	mm	7.845 8.300 8.680
B.	Max. digging reach at ground level	mm	7.690 8.155 8.540
C.	Max. digging depth	mm	5.100 5.500 6.000
D.	Max. dumping height	mm	6.390 6.840 7.055
E.	Min. dumping height	mm	2.895 2.505 2.085
F.	Max. digging height	mm	8.800 9.280 9.470
G.	Max. bucket pin height	mm	7.695 8.185 8.370
H.	Max. vertical wall height	mm	3.810 4.555 4.735
I.	Max. vertical radius	mm	5.690 5.555 5.925
J.	Max. digging depth (R' level)	mm	4.410 4.900 5.480
K.	Min. radius B' line	mm	1.360 1.360 1.360
L.	Min. digging reach	mm	-52 350 850
M.	Min. swing radius	mm	1.885 1.995 2.290
d.	Bucket angle (deg)	°	173 173 173