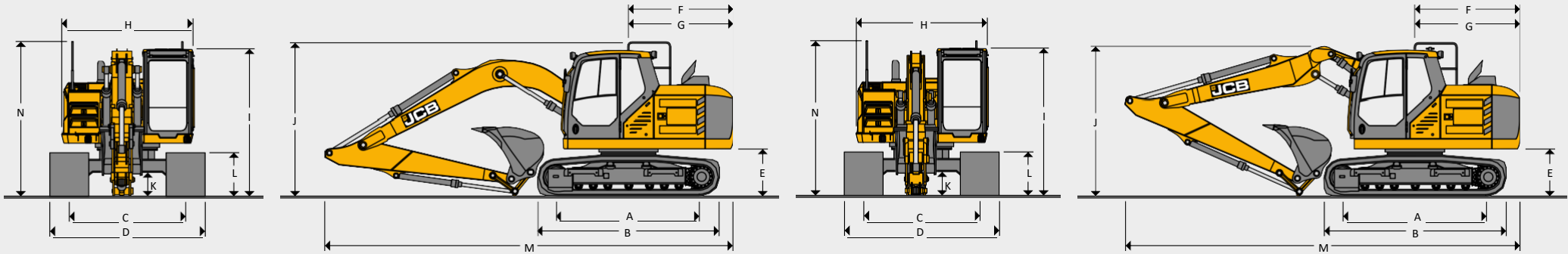


SPECIFICATION 140X/150X

STATIC DIMENSIONS



STATIC DIMENSIONS

Model	140X LC			150X LC			150X HD									
A Track length on ground	mm	2865		2865			3090									
B Undercarriage overall length	mm	3590		3590			3940									
C Track gauge	mm	1990		1990			2200									
D Width over tracks (500 mm trackshoes)	mm	2490		2490			-									
D Width over tracks (600 mm trackshoes)	mm	2590		2590			2800									
D Width over tracks (700 mm trackshoes)	mm	2690		2690			2900									
D Width over tracks (800mm trackshoes)	mm	-		-			3000									
D Width over tracks (850 mm trackshoes)	mm	2840		2840			-									
D Width over tracks (900 mm trackshoes)	mm	-		-			3100									
E Counterweight clearance	mm	905		905			1050									
F Tail length	mm	2103		2103			2103									
G Tail swing radius	mm	2150		2150			2150									
H Width of upper superstructure	mm	2490		2490			2490									
H Width of upper superstructure (with SIPS)	mm	2619		2619			2619									
I Height over cab	mm	2866		2866			2916									
I Height over cab (vandal guard – optional)	mm	3172		3172			3319									
I Height over cab (FOPS guard)	mm	2965		2965			3112									
J Height over grab rail	mm	3002		3002			3149									
K Ground clearance	mm	425		425			470									
L Track height	mm	811		811			880									
		Mono			Mono			T.A.B			Mono			T.A.B		
Dipper lengths		2.5m	2.7m	3.0m	2.5m	2.7m	3.0m	2.5m	2.7m	3.0m	2.5m	2.7m	3.0m	2.5m	2.7m	3.0m
M Transport length	mm	7659	7654	7604	7659	7654	7604	7726	7892	7628	7659	7654	7604	7726	7892	7628
N Transport height	mm	3002	3209	3289	3002	3209	3289	3002	2908	3236	3149	3356	3543	3149	3356	3543

ENGINE

	140X	150X
Model	13.1 rom	JCB Dieselmax 448 TCA EU Stage V
Swing speed		
Type	4-stroke, 4-cylinder in-line, common rail, direct injection, turbocharged and intercooled diesel	
Rated power	81kW (109 hp) at 2200rpm (ISO 14396)	
Piston displacement	4.765 litres	
Air filtration	Dry element with secondary safety element and in cab warning indicator	
Starting system	24 volt	
Batteries	2 x 12 volt	
Alternator	28 volt – 100 ampere	
Maximum torque	515Nm	

TRACK DRIVE

Type	Fully hydrostatic, two speed with autoshift	
Travel motors	Variable swash axial piston type, fully guarded within undercarriage frame	
Final drive	Planetary reduction, bolt-on sprockets	
Service brake	Hydraulic counter balance valve	
Park brake	Disc type, spring applied, automatic hydraulic release	
Gradeability	70% (35 deg) continuous	
Travel speed	140X LC/150X LC	150X HD
	High – 6.6 km/h	High – 4.3 km/h
	Low – 3.8 km/h	Low – 2.5 km/h
Tractive effort	116 kNm	194.3 kNm

HYDRAULIC SYSTEM

Boom/Arm/Bucket	314 bar
With power boost	343 bar
Swing circuit	279 bar
Travel circuit	343 bar
Pilot control	40 bar
Filtration	
Pumps	
Main pumps	2 variable displacement axial piston type
Maximum flow	2 X 130 l/min
Servo pump	Gear type
Servo pump maximum flow	30 l/min
Control valve	
A combined four and five spool control valve with auxiliary service spool as standard	
Relief valve settings	
In tank	105 micron, suction strainer
Main return line	10 micron, glass fibre element
Pilot drain line	10 micron, glass fibre element
Pilot line	10 micron, glass fibre element
Hydraulic hammer return	10 micron, reinforced microform element

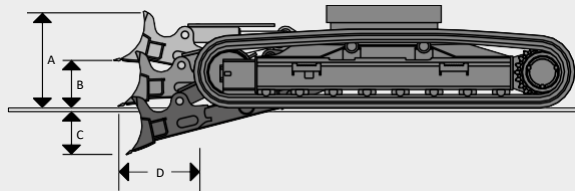
Hydraulic cylinders	Quantity	Bore mm	Rod diameter mm

SPECIFICATION 140X/150X

SERVICE CAPACITIES

Fuel tank	Litres	260
Engine coolant	Litres	19.7
Engine oil	Litres	14
Swing reduction gear	Litres	2.2
Track reduction gear (each side)	Litres	3.5
Hydraulic system	Litres	126
Hydraulic tank	Litres	133
DEF fluid	Litres	47.7

OPTIONAL BLADE



A	Blade height	mm	901
B	Blade lift above ground	mm	448
C	Blade cut below ground	mm	508
D	Blade forward of track	mm	412
	Dozer width – 500mm tracks	mm	2490
	Dozer width – 600mm tracks	mm	2610
	Dozer width – 700mm tracks	mm	2710
Additional machine weight with blade			
	500mm tracks	kg	806
	600mm tracks	kg	814
	700mm tracks	kg	821

SOUND LEVEL

Sound level in cab according to ISO 6396	67 dB LpA
External sound level according to ISO 6395 and EU Directive 2000/14/EC	100 dB LwA

UNDERCARRIAGE

Carriage options	LC – Long Carriage, HD – Heavy Duty Carriage.					
Construction	Fully welded 'X' frame type with central bellyguarding and sloping sidemembers with dirt relief holes under top rollers.					
Recovery point	Front and rear.					
Track type	Sealed and lubricated.					
Upper and lower rollers	Heat treated, sealed and lubricated.					
Track adjustment	Grease cylinder type.					
Track idler	Sealed and lubricated, with spring cushioned recoil.					
Track shoe options	500mm	600mm	700mm	800mm (HD only)	850mm	900mm (HD only)
No. of upper rollers (per side)	2					
No. of lower rollers (per side)	7					
No. of track guides (per side)	2 optional on 140X and 150X, 1 standard on 150X HD with 2 optional					
No. of track shoes (per side)	44 (43 on HD)					

TRIPLE GROUSER ◦
GEOGRIP
RUBBER SHOES ■

Figures include standard 442kg bucket, operator, full fuel tank and 2.5m dipper.

WEIGHTS AND GROUND BEARING PRESSURES	500mm shoes	600mm shoes	700mm shoes	800mm shoes	850mm shoes	900mm shoes
140X LC Monoboom						
Machine weight	kg	14521	14737	14952	-	15275
Ground bearing pressure	kg/cm ²	0.51	0.43	0.37	-	0.31
150X LC Monoboom						
Machine weight	kg	15121	15337	15552	-	15875
Ground bearing pressure	kg/cm ²	0.53	0.45	0.39	-	0.33
150X LC T.A.B.						
Machine weight	kg	15588	15803	16019	-	16342
Ground bearing pressure	kg/cm ²	0.54	0.46	0.40	-	0.34
150X HD Monoboom						
Machine weight	kg	-	16684	16920	17159	-
Ground bearing pressure	kg/cm ²	-	0.45	0.39	0.35	-
150X HD T.A.B.						
Machine weight	kg	-	17151	17387	17625	-
Ground bearing pressure	kg/cm ²	-	0.46	0.40	0.36	-

BUCKET AND ARM COMBINATION																						140X	
Bucket options		GP Bucket								HD Bucket						Ditch Maintenance		HD Bucket					
Bucket width	mm	450	600	700	800	900	1000	1250	1350	458	610	762	915	991	1219	1524	1836	600	700	800	1000	1200	1300
Bucket capacity	m ³	0.21	0.35	0.42	0.50	0.54	0.66	0.81	0.89	0.20	0.26	0.34	0.43	0.50	0.61	0.65	0.79	0.35	0.42	0.50	0.66	0.81	0.89
Bucket weight	kg	307	342	366	401	425	460	506	542	275	310	357	402	424	493	475	535	336	364	402	455	520	547
140X LC																							
2.5 m Quickhitch (No Quickhitch)		<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (■)	<input type="checkbox"/> (■)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (■)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (■)	<input type="checkbox"/> (■)
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3.0 m Quickhitch (No Quickhitch)		<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (■)	<input type="checkbox"/> (■)	<input type="checkbox"/> (● (X))	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (■)	<input type="checkbox"/> (■)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (■)	<input type="checkbox"/> (■)	<input type="checkbox"/> (● (X))
140X LCD																							
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BUCKET AND ARM COMBINATION																						150X	
Bucket options	GP Bucket									HD Bucket						Ditch Maintenance		HD Bucket					
Bucket width	mm	450	600	700	800	900	1000	1250	1350	458	610	762	915	991	1219	1524	1836	600	700	800	1000	1200	1300
Bucket capacity	m ³	0.21	0.35	0.42	0.50	0.54	0.66	0.81	0.89	0.20	0.26	0.34	0.43	0.50	0.61	0.65	0.79	0.35	0.42	0.50	0.66	0.81	0.89
Bucket weight	kg	307	342	366	401	425	460	506	542	275	310	357	402	424	493	475	535	336	364	402	455	520	547
150X LC																							
2.5 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (■)
2.7 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (■)
3.0 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)
150X LCD																							
2.5 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (■)
2.7 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)
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150X HD																							
2.5 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (■)
2.7 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)
150X LC T.A.B.																							
2.5 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (■)	■ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (■)	■ (☐)
2.7 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (☐)	● (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	■ (☐)	● (☐)
3.0 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)	● (X)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (■)	■ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)	● (X)
150X LCD T.A.B.																							
2.5 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (☐)
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150X HD T.A.B.																							
2.5 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)
2.7 m Quickhitch (No Quickhitch)		☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (☐)	☐ (■)	■ (■)

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WORKING RANGE - MONOBOOM 4.7M **150X HD**

Dipper length:		2.5m	3.0m
A	Maximum digging reach	mm 8385	8841
B	Maximum digging reach (on ground)	mm 8225	8689
C	Maximum digging depth	mm 5484	5983
D	Maximum digging height	mm 9240	9561
E	Maximum dumping height	mm 6764	7087
F	Maximum vertical wall cut depth	mm 5018	5512
G	Minimum swing radius	mm 2212	2575
H	Minimum dumping height	mm 2473	2055
I	Maximum swing height	mm 6787	7114
J	Minimum swing height	mm 3188	2710
	Maximum dipper tearout	Kgf 6587	5986
	Maximum bucket tearout	Kgf 10452	10452

WORKING RANGE - MONOBOOM 4.7M **140X LC AND 150X LC**

Dipper length:		2.5m	2.7m	3.0m
A	Maximum digging reach	mm 8385	8564	8841
B	Maximum digging reach (on ground)	mm 8240	8422	8704
C	Maximum digging depth	mm 5564	5764	6063
D	Maximum digging height	mm 9164	9288	9503
E	Maximum dumping height	mm 6684	6806	7007
F	Maximum vertical wall cut depth	mm 5098	5295	5592
G	Minimum swing radius	mm 2212	2506	2575
H	Minimum dumping height	mm 2393	2267	1975
I	Maximum swing height	mm 6707	6833	7034
J	Minimum swing height	mm 3108	2922	2630
	Maximum dipper tearout	Kgf 6587	6445	5986
	Maximum bucket tearout	Kgf 10452	10452	10452

