

SPECIFICATION



420X TRACKED EXCAVATOR
X-PECT MORE



420X-PECT MORE

This powerful 40 tonne X-Series machine has been designed to meet the toughest demands in a fiercely competitive market. A new 2.6 cubic metre bucket will load 30 tonnes in just a few passes, while its robust build and reliable components ensure complete reliability and longevity.



X-PECT MORE PERFORMANCE

Heavy duty slew ring increases slew torque, while powerful swing equipment and lift rams enable you to load more material per pass. Standard heavy-duty dig end structures provide increased breakout and 11% better lifting performance than the 370X.



X-PECT MORE PRODUCTIVITY

Featuring a new, JCB heavy-duty 2.6 cubic metre bucket and various dipper lengths, the 420X has 10% greater bucket capacity compared to its productivity partner, the 370X.



X-PECT MORE STRENGTH

Our heavy-duty structures deliver greater operating pressures, increased hydraulic flow rates, higher digging forces and increased tearout. This makes the 420X ideal for working in the most arduous conditions.



X-PECT MORE COMFORT

Along with the largest cab in its class and the lowest internal cab noise, a heated and ventilated seat as standard and fully adjustable seat and controls keep operators comfortable through the full shift.



X-PECT MORE RELIABILITY

Japanese hydraulic components with extended service intervals deliver outstanding performance in a durable and reliable package, giving you peace of mind in even the toughest environments.

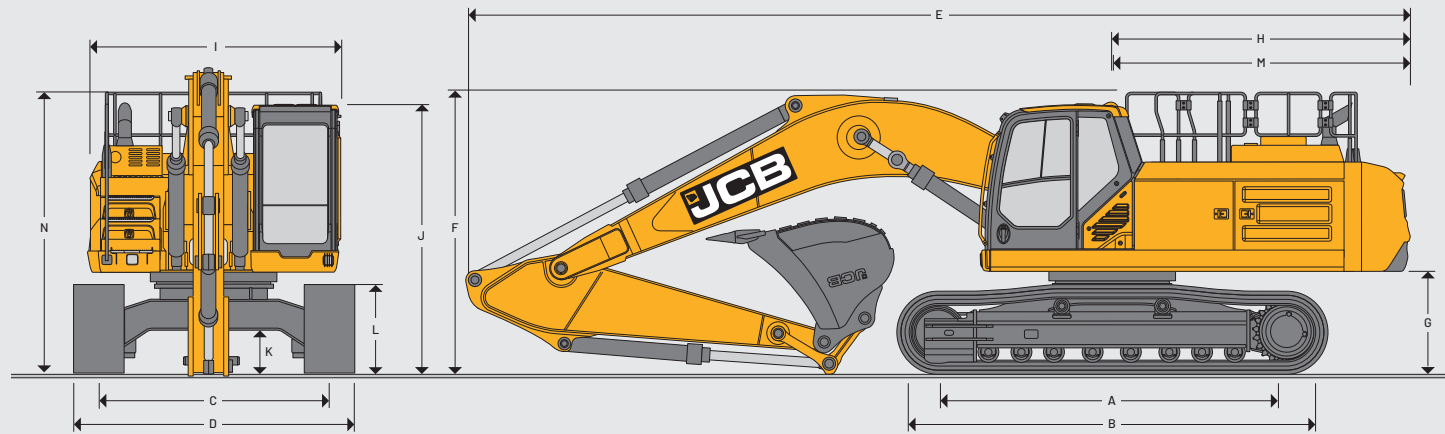
JCBUX

We've updated our spacious, class-leading JCB CommandPlus cab to give you even more comfort and control by introducing JCB UX. A new 10" full colour touch screen display, updated switchgear and new keyless start make operating easier and faster than ever, while a revised menu interface give you the ability to control functions via multiple inputs, for more productive and efficient working.



420X TRACKED EXCAVATOR

STATIC DIMENSIONS



		LC - Long Carriage	
A	Track length on ground	mm	4020
B	Undercarriage overall length	mm	5140
C	Track Gauge	mm	2740
D	Width over tracks (600mm trackshoes)	mm	3340
D	Width over tracks (700mm trackshoes)	mm	3440
D	Width over tracks (800mm trackshoes)	mm	3540
G	Counterweight clearance	mm	1223
H	Tail length	mm	3550
I	Overall width of superstructure	mm	2990
J	Height over cab	mm	3230
K	Ground clearance	mm	538
L	Track height	mm	1085
M	Tail swing radius	mm	3600
N	Overall height of upper structure (height over grab rail)	mm	3381
Boom option		Mono 6.45m	
Arm lengths		2.63m HD	3.23m HD
E	Transport length	mm	11335
F	Transport height	mm	3820
			11238
			3500

420X TRACKED EXCAVATOR

ENGINE

Model	Cummins L9 Tier 4 Final / Stage V
Type	4 stroke, 6 cylinder in-line, direct injection, turbocharged diesel
Governed power (net) - engine	232 kW (310 hp) @ 2100 rpm
Rated power (net) - machine	240 kW (322 hp) @ 1750 rpm
Piston displacement	8.9 litres
Air filtration	Dry element with in cab warning indicator
Starting system	24 volt
Batteries	2 x 12 volt, 1000 CCA
Alternator	24 volt - 120 ampere
Maximum torque	1526 Nm @ 1400 rpm

SWING SYSTEM

Swing motor	Axial piston type
Swing brake	Hydraulic braking plus automatic spring applied disc type parking brake
Swing torque	131.8 kNm
Swing speed	9.4 rpm
Swing gear	Large diameter, internally toothed fully sealed grease bath lubricated
Swing lock	Switchable brake in cab

UNDERCARRIAGE

Carriage options	LC- Long Carriage		
Construction	Fully welded 'X' frame type with central belly guarding and sloping side members with dirt relief holes under top rollers		
Recovery point	Front and rear		
Upper & lower rollers	Heat treated, sealed and lubricated		
Track adjustment	Grease cylinder type		
Track idler	Sealed and lubricated, with spring cushioned recoil		
Track type	Sealed and lubricated		
Track shoe options	600mm	700mm	800mm
	LC		
No. of upper rollers (per side)	2		
No. of lower rollers (per side)	9		
No. of track guides (per side)	3 or full		
No. of track shoes (per side)	50		

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% (350) continuous
Travel speed	High - 5.34 km/h Low - 2.95 km/h
Tractive effort	345.7kN

HYDRAULIC SYSTEM

Pumps

Main pumps	2 variable displacement axial piston type
Maximum flow	2 x 311 l/min
Servo pump	Gear Type
Maximum flow	17 l/min

Control valve

A combined four and five spool control valve with auxiliary service spool as standard

Relief valve settings

		MonoBoom
Boom/Arm/Bucket	bar	350
With power boost	bar	380
Swing circuit	bar	292
Travel circuit	bar	350
Pilot control	bar	40

Filtration

In tank	105 micron, suction strainer
Main return 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
Boom	2	160	105
Arm	1	175	120
Bucket	1	150	105

SERVICE CAPACITIES

Fuel tank	litres	590
Engine coolant	litres	41
Engine oil	litres	24.5
Swing reduction gear	litres	6.8
Track reduction gear (each side)	litres	9
Hydraulic system	litres	400
Hydraulic tank	litres	175
DEF fluid	litres	73.6

420X TRACKED EXCAVATOR

WEIGHTS AND GROUND BEARING PRESSURES

2.6m³ bucket 2193kg, operator 75kg, full fuel tank and 2.63m HD arm

		600mm Double Grouser	600mm Triple Grouser	700mm Triple Grouser	800mm Triple Grouser
420X LC MonoBoom					
Machine weight	kg	41432	41322	41803	
Ground bearing pressure	kg/cm ²	0.83	0.83	0.72	

2.6m³ bucket 2193kg, operator 75kg, full fuel tank and 3.23m HD arm

		600mm Double Grouser	600mm Triple Grouser	700mm Triple Grouser	800mm Triple Grouser
420X LC MonoBoom					
Machine weight	kg	41540	41430	41911	42390
Ground bearing pressure	kg/cm ²	0.83	0.83	0.72	0.64

BUCKET AND ARM COMBINATION

	mm	915	1372	1524	1753	900	1350	1500	1700	1750	1700	1650	1800	1800	2200	2500
Bucket width	mm	915	1372	1524	1753	900	1350	1500	1700	1750	1700	1650	1800	1800	2200	2500
Bucket capacity	m ³	0.81	1.39	1.58	1.87	0.86	1.43	1.62	1.90	1.93	1.92	2.10	2.34	2.60	1.71	1.96
Bucket weight	kg	810	1037	1123	1245	928	1192	1271	2050	1431	2380	1946	2059	2206	1132	1256

420X LC

2.63m HD Quickhitch (No Quickhitch)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)
3.23m STD Quickhitch (No Quickhitch)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)
3.23m HD Quickhitch (No Quickhitch)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)	<input type="checkbox"/> (□)	<input checked="" type="checkbox"/> (□)	<input type="checkbox"/> (□)	<input type="checkbox"/> (X)	<input type="checkbox"/> (X)
4.03m STD Quickhitch (No Quickhitch)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)	X (X)

□ = Suitable for general excavating materials up to 2000kg/m³.

■ = Suitable for light excavating materials up to 1600kg/m³.

● = Suitable for grading and loading materials up to 1200kg/m³.

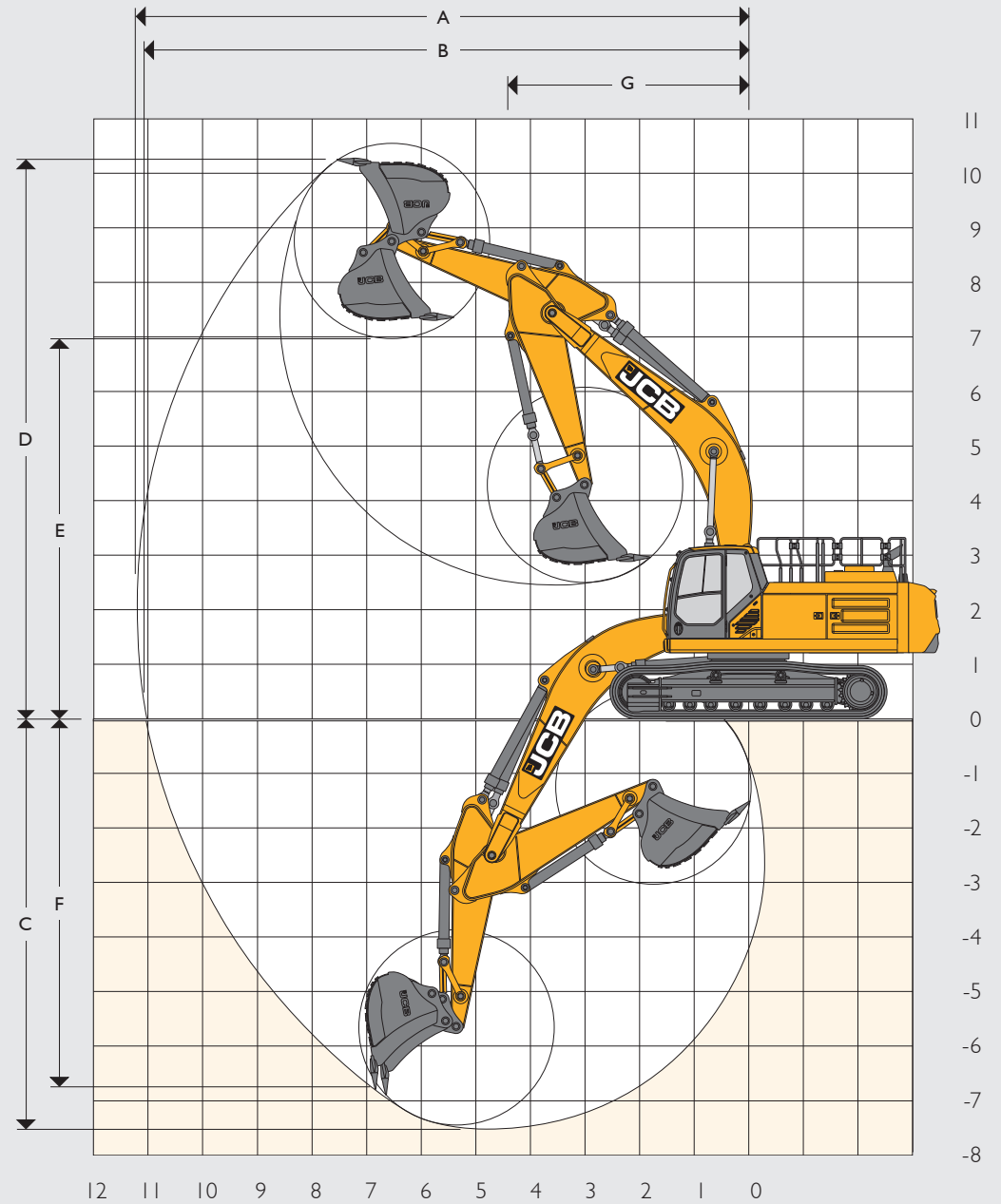
X = Not warranted

Please contact your distributor for the correct selection of buckets and attachments to suit the application.

420X TRACKED EXCAVATOR















WORKING RANGE

Boom length and style		Monoboom 6.45m		
Bucket		XHD Bucket 980/80301(1800mm)		
Arm length:		2.63m	3.23m	
A	Maximum digging reach	mm	10693	11263
B	Maximum digging reach (on ground)	mm	10488	11069
C	Maximum digging depth	mm	6911	7508
D	Maximum digging height	mm	10062	10325
E	Maximum dumping height	mm	6762	7024
F	Maximum vertical wall cut depth	mm	6162	6741
G	Minimum swing radius	mm	4536	4482
H	Minimum dumping height	mm	3080	2504
	Bucket rotation	degrees	185	185
	Maximum dipper tearout	kN	222.1	185.6
	Maximum bucket tearout	kN	249.4	249.4


















420X TRACKED EXCAVATOR

LIFT CAPACITIES 2.63M HD ARM, 600MM SHOE, NO BUCKET

Reach	3m		4.5m		6m		7.5m		9m		Capacity at Max. Reach				
															
Load Point Height	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	
8.5m													12261*	12261*	6091
8m													11961*	11045	6591
7m								11620*	10020				11532*	9134	7385
6m								11798*	9916				11332*	7995	7974
5m					14295*	14028		12296*	9706				10948	7263	8401
4m					15756*	13450		12965*	9441	10641	7035		10267	6787	8691
3m					17214*	12875		13678*	9162	10508	6914		9863	6495	8857
2m					18384*	12399		13840	8906	10373	6790		9680	6349	8907
1m					19079*	12070		13610	8701	10261	6688		9701	6339	8842
0m					19257*	11885		13455	8563	10194	6626		9937	6470	8659
-1m			22032*	19258	18939*	11817		13382	8498				10437	6772	8352
-2m	17305*	17305*	23463*	19390	18114*	11847		13400	8514				11309	7306	7905
-3m	25765*	25765*	21331*	19616	16676*	11972		12750*	8634				11916*	8215	7292
-4m			18297*	18297*	14305*	12219							11538*	9843	6465
-5m			13738*	13738*									10372*	10372*	5321

LIFT CAPACITIES 3.23M HD ARM, 600MM SHOE, NO BUCKET

Reach	3m		4.5m		6m		7.5m		9m		9.5m		Capacity at Max. Reach			
																
Load Point Height	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	
8.5m														8342*	8342*	6885
8m							10133*	10133*						8109*	8109*	7329
7m							10613*	10220						7816*	7816*	8050
6m							10929*	10076	8542*	7302				7686*	7161	8592
5m							11509*	9847	10621*	7231				7678*	6574	8989
4m			19810*	19810*	14670*	13732	12253*	9563	10724	7104	9787	6482		7776*	6181	9261
3m			23368*	20996	16248*	13123	13057*	9260	10559	6953	9666	6371		7979*	5933	9416
2m			16223*	16223*	17631*	12581	13809*	8972	10393	6802	9540	6255		8297*	5803	9463
1m			15057*	15057*	18613*	12170	13651	8729	10248	6669	9429	6153		8756*	5784	9402
0m			17536*	17536*	19106*	11904	13448	8548	10140	6570	9351	6081		9026	5879	9231
-1m	10633*	10633*	21866*	19076	19103*	11765	13326	8439	10084	6519				9407	6108	8944
-2m	16094*	16094*	24876*	19149	18604*	11733	13287	8404	10106	6539				10062	6513	8528
-3m	21881*	21881*	23080*	19322	17554*	11798	13342	8453						11138	7181	7964
-4m	27190*	27190*	20524*	19607	15780*	11966	11826*	8621						11188*	8307	7216
-5m			16836*	16836*	12798*	12283								10681*	10411	6216
-5.5m			14322*	14322*	10362*	10362*								10097*	10097*	5579



Lift capacity front and rear.



Lift capacity full circle.

Notes:

1. Lifting capacities are based on ISO 10567, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is the less. Lifting capacities marked* are based on hydraulic capacity.
2. Lift capacities assume that the machine is on firm, level ground.
3. Lift capacities may be limited by local regulations. Please refer to your dealer.







420X TRACKED EXCAVATOR

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