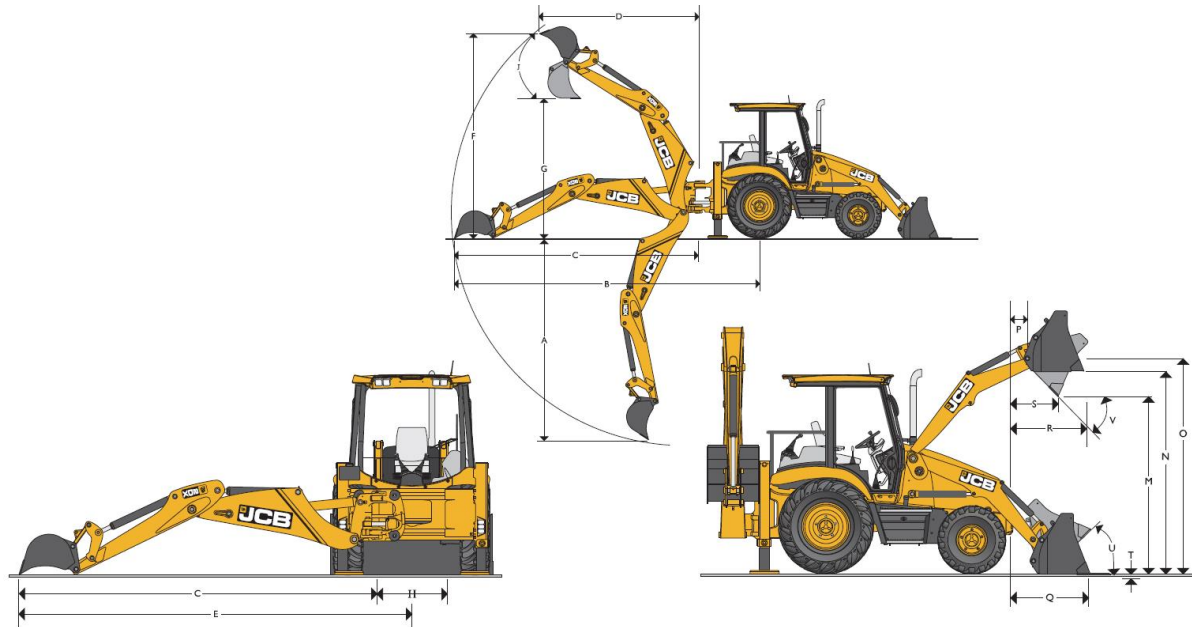
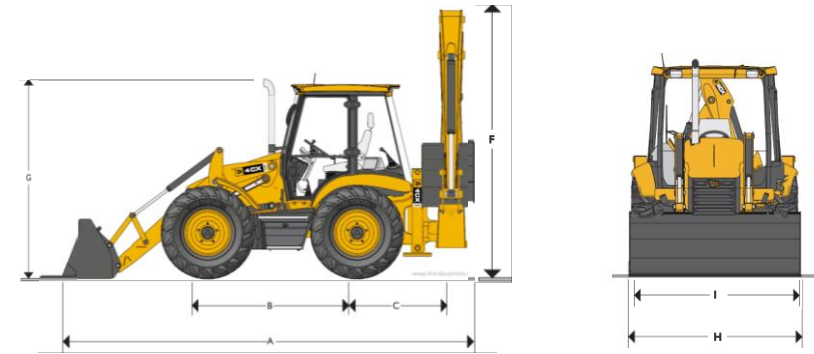


SPECIFICATION: PERFORMANCE DIMENSIONS



EXCAVATOR PERFORMANCE	2DX 4WD	3DX ECO/PLUS/PRO	3CX ECO	4CX ECO	LOADER PERFORMANCE	2DX 4WD	3DX ECO/PLUS/PRO	3CX ECO	4CX ECO
A Maximum dig depth m*	3.02	4.29	5.4/4.2	5.5/4.3	M Dump height m	2.20	2.91	2.74	2.69
B Reach – ground level to rear wheel centre m	5.18	6.67	7.9/6.7	7.9/6.7	N Load over height m	2.81	3.35	3.23	3.21
C Reach – ground level to slew centre m	3.93	5.33	6.5/5.4	6.5/5.4	O Pin height m	2.96	3.59	3.45	3.46
D Reach at full height to slew centre m	1.98	1.94	3.7/2.7	3.8/2.8	P Pin forward reach m	0.44	0.21	0.36	0.41
E Side reach to centre line of machine m	4.36	5.85	7/5.94	7.16/6	Q Reach at ground m	1.46	1.33	1.42	1.42
F Maximum working height m	3.88	5.23	6.4/5.5	6.3/5.5	R Maximum reach at full height m	1.31	1.0	1.2	1.21
G Maximum load over height m	2.82	3.57	4.7/3.8	4.7/3.8	S Reach at full height – bucket dumped m	0.91	0.68	0.83	0.82
H King post travel m	0.86	--	1.16	1.16	T Below ground level dig depth m	0.10	0.06	0.07	0.14
J Bucket rotation – speed degrees	--	203	201	201	U Rollback at ground degrees	45	45	45	45
Bucket tearout force kgf	3120	--	6228	6228	V Dump angle degrees	46	39	43	45
Dipper tearout force kgf	1750	--	3225	3903	Bucket breakout force kgf	2610	6010	6170	6227
Lift capacity of bucket pivot at full reach (no bucket fitted) kg	850	--	1451	1885	Loader arm breakout force kgf	1600	--	4942	5936
* Ext/Ret					Shovel capacity cu.m	0.55 GP	1 (6-in-1)	GP shovel	

STATIC DIMENSIONS



DIMENSIONS	2DX 4WD	3DX ECO/PLUS/PRO	3CX ECO	4CX ECO
A Overall length m	5.5	5.96	5.62	5.91
B Wheelbase m	1.99	2.25	2.17	2.22
C Slew centre to rear axle centre m	-	1.32	1.36	1.36
D Minimum ground clearance m	0.33	0.31	0.37	0.34
E Slew ground clearance m	0.51	0.53	0.52	0.5
F Total travel clearance m	--	3.61	3.61	3.54
G Height to top of cab m	2.65	2.88	3.03	3.03
H Shovel width m	1.88	2.23 (6-in-1)	2.35	2.35
I Rear frame width m	--	2.24	2.35	2.35

ENGINE	2DX 4WD	3DX ECO	3DX PLUS	3DX PRO	3CX ECO	4CX ECO
Model (diesel engine)	KOEL 4R810, water cooled, Naturally aspirated	JCB 448, water cooled, Naturally aspirated	JCB 444, water cooled, Turbocharged		JCB, Turbocharged	JCB, Turbocharged & Intercooled
No. of cylinders	4	4	4		4	4
Displacement	3.2 litres	4.8 litres	4.4 litres		4.4 litres	4.4 litres
Gross power @ 2200 rpm	49.5 hp*	56 kW (76 hp)	68.6 kW (92 hp)		68.6 kW*	74.2 kW*
Gross torque	203 Nm @ 1400 rpm	305 Nm @ 1100 rpm	408 Nm @ 1200 rpm		400/408 Nm @ 1400rpm	425/440 @ 1300 rpm

*(ISO 14396/SAE J1995)

TRANSMISSION	
2DX 4WD	JCB Synchro-shuttle transmission: 4-speed, full synchromesh gearbox with integral torque convertor and electrically operated reversing power shuttle.
3DX ECO/PLUS/PRO	JCB Synchro-shuttle transmission: 4-speed, full synchromesh gearbox with integral torque convertor and electrically operated reversing power shuttle.
3CX ECO	JCB Synchro-shuttle transmission: 4-speed, full synchromesh gearbox with integral torque convertor and electrically operated reversing power shuttle.
4CX ECO	JCB Synchro-shuttle transmission: 4-speed, full synchromesh gearbox with integral torque convertor and electrically operated reversing power shuttle.

HYDRAULIC SYSTEM	2DX 4WD	3DX ECO	3DX PLUS	3DX PRO	3CX ECO	4CX ECO
Main relief valve, bar	180	228	228	270	251 bar	
Pump type	Gear, two section	Gear		Variable flow piston	Piston pump	
Flow l/min @2200 rpm	69	108	123	125	165	165
OPERATING WEIGHT kg	4530	7800		8102	8578	
SERVICE CAPACITIES						
Hydraulic system, l	60	120		117	117	
Fuel tank, l	60	128		160	160	
Engine coolant, l	13.5	20		18.5	18.5	
Engine oil, l	8	20		15	15	
Transmission, l	16	20		16	16	
Rear axle, l	11	20		16	16	

FRONT AXLE	2DX 4WD	3DX ECO/PLUS/PRO	3CX ECO	4CX ECO
Type	2WD steer axle, centrally pivoted	4WD, Steer axle, centrally pivoted	JCB steer drive with torque proportional	JCB epicyclic hub reduction with torque proportional
Limited slip	N/A	N/A	---	Option
Oscillation angle	16°	16°	16°	16°
REAR AXLE				
Type	Drive axle rigidly mounted	Drive axle rigidly mounted	JCB epicyclic hub reduction with torque proportional	
Limited slip	N/A	N/A	Option	Option
STEERING				
	Front wheel full power hydrostatic system utilising the main hydraulic pump via a steering priority valve		Front & rear wheels full power hydrostatic system utilizing the main hydraulic pump via a steering priority valve	
BRAKES				
	Service: Hydraulically actuated dual line, self adjusting, oil immersed, multi-disc type on the rear axle, well protected from dirt, water etc. requiring no maintenance.		Service: Hydraulically actuated dual line, self adjusting, oil immersed, multi-disc type on the rear axle, well protected from dirt, water etc. requiring no maintenance. Parking: Hand operated, disc brake on rear axle input disc. Brake pedal: Two independently operable foot pedals enable machine to manoeuvre in tight spaces. Pedals are linked together for normal use.	
	Parking: Electrically operated by switch, dust proof, self-adjusting, oil immersed sealed parking discs inside the gearbox. Brake pedal: Two independently operable foot pedals enable machine to manoeuvre in tight spaces.		Parking: Hand operated, disc brake on rear axle input disc. Brake pedal: Two independently operable foot pedals enable machine to manoeuvre in tight spaces. Pedals are linked together for normal use.	

ELECTRICALS	2DX 4WD	3DX ECO/PLUS/PRO	3CX ECO	4CX ECO
	100 Ah 12 V battery system with alternator and full road lighting.	12 V negative ground. Central fuse panel. Bluetooth radio. Battery: 130 Ah, 900 CCA. Alternator: 90 amp. Front working lights: 2 fixed. Rear working lights: 2 fixed and 2 adjustable LED lights.	Battery 900 CCA (110 Ah) Horn Controlled from both front and rear Alternator 95 A Front working lights 4 adjustable Rear working lights 4 adjustable	
TURNING CYCLE				
Inner wheels braked: Outside loader bucket	9.7m	10.4 m	9.5 m	9.50m
Outside wheels	7.44m	7.21 m	6.9 m	6.90m
Inner wheels not braked: Outside loader bucket	11m	11,5 m	10.4 m	10.40m
Outside wheels	7.9m	8,32 m	8.1 m	8.10m
TYRES				
Front:	7.5x16-16PR	12.5x18-12 ply	4WD 12.5x18-12 ply	4WD 12.5x18-12 ply
Rear:	14.9x24-12 PR	16.9x28-12 ply	16.9x28-12 ply	16.9x28-12 ply

CABS	
2DX 4WD	Canopy. Front glass with wiper. 'Walk through' access. Floor mats. Adjustable seat. Soft touch steering wheel. Seatbelt. Large convex rear view mirror. Hazard warning system. Lockable toolbox. Helper seats (2+1). Instrumentation panel on the right.
3DX PRO	Fully adjustable seat and soft touch steering wheel • 'Walk through' two door access • Seat belt, large convex rear view mirror, interior light front screen wiper, horn, hazard warning system, tool box • Instrumentation panel includes engine speed, engine hours, speedometer, fuel level, water temperature gauge and 12v connection • Audible and visual fault warning system for alternator charge, coolant temperature, engine oil pressure, blocked air filter, transmission oil pressure and temperature, and hand brake on • Air conditioning standard
3CX ECO 4CX ECO	Mechanical suspension seat (Air suspension seat option) • Exterior mirrors • Interior rear view mirror • Seat head rest option • Arm rest • 10 LED working lights option • Seat belt • Reverse alarm • Heater • Air conditioning option • Servo controls (ISO/SAE changeover) • Tinted glass • Instrumental panel vandal guard • Front windscreen wiper • Fire extinguisher option • Rear windscreen wiper • Immobiliser option • Rear one piece opening window • Livelihood (region specific) • Door ajar stays • Rear light guards • Steering column Front bumper protection • Tilted steering column • End boom damping • Steering wheel knob • Telescopic steering column option • Radio • Automatic cab interior light • (Bluetooth, USB aux, SD) & speakers, integrated hands free phone system