



BACKHOE LOADER | 3CX/4CX ECO

Gross power: 63kW (85hp) – 74.2kW (100hp) Maximum dig depth: 4m – 6.14m Maximum shovel capacity: 1.0m³ – 1.3m³



BUILDING THE **ULTIMATE RANGE.**

Ever since JCB was founded by Joseph Cyril Bamford in a small garage in Staffordshire in 1945, innovation has driven our machines and our thinking. Of course we've grown since then – to employ over 10,000 people across 4 continents – but innovation remains at the heart of everything we do.

A history of innovation

We've been innovating since day one, and we've always cultivated a uniquely fearless approach to design. Indeed, we've invented whole new genres of machinery – the backhoe loader and the telehandler for example – and revolutionised others like the tractor or skid steer loader.

The best backup in the business

A key component of any JCB machine is peerless backup and support: our 2,000-strong global dealership and service network keeps the customer at the centre of everything we do, in over 150 countries worldwide. Our World Parts Centre, meanwhile, aims to deliver anywhere on earth within 24 hours.

Success by the million

Every JCB is designed and built to offer ultimate productivity, durability, efficiency, safety, comfort and reliability, so it's perhaps not surprising that we've just built our millionth machine. As you'd expect from such an innovative company though, we won't be resting on our laurels.





OVER SIXTY YEARS AND COUNTING.

AT MORE THAN SIXTY YEARS OF AGE, JCB'S ICONIC BACKHOE LOADER IS JUST AS FRESH AND INNOVATIVE TODAY AS IT WAS WHEN IT WAS FIRST CONCEIVED. BACK THEN, COMPANY FOUNDER JOSEPH CYRIL BAMFORD INVENTED THE ENTIRE BACKHOE LOADER CONCEPT WHEN HE COMBINED A LIGHTWEIGHT BACKHOE WITH A TRACTOR LOADER. FOR THE FIRST TIME, A SINGLE MACHINE COMBINED A FRONT SHOVEL AND REAR EXCAVATOR ARM.

Today's JCB continues to innovate and is the world's best selling backhoe.



THE 50'S. The JCB MKI Major Loader.



THE 60'S. The JCB I.



THE 70'S. The JCB 3CIII.

The world's first... and still the best.

Throughout the intervening years, JCB has continued to improve on this basic concept by using innovative thinking and advanced engineering principles. In the process, many of our innovations have become industry-standard features. Like four-wheel drive, for example, as well as extending dippers, torque converter drive, powershift transmissions, all-wheel steer, sideshift chassis, powerslide, and skid steer.

As a direct result of our innovative thinking and pioneering spirit, our backhoe loader range has led the world in terms of both features and sales. Today, we're the biggest-selling backhoe loader manufacturer on the planet, and have been for decades.

An innovative future.

We recognise that a large part of our success is down to the fact that we listen to what our customers want. And we'll be continuing this trend, always striving to build the most productive, dependable and efficient machines that technology will allow. In an increasingly tough market, we're already attaching particular importance to versatility, residuals and fuel efficiency, all of which you'll find in abundance on this latest range of backhoe loaders.



THE 80'S. The JCB 3CX.



THE 90'S. The JCB 3CX Sitemaster.



THE 00'S. The JCB 3CX Eco.



THE FUTURE?

COST OF OWNERSHIP AND EFFICIENCY.

THE LATEST 3CX AND 4CX BACKHOES DON'T JUST PROVIDE YOU WITH THE POWER TO GET THINGS DONE; THEY ALSO OFFER YOU COUNTLESS FEATURES TO ENSURE THAT PERFORMANCE IS EFFICIENT, AND OWNERSHIP COSTS ARE REDUCED.

An efficient drivetrain.

1 By producing high levels of power and torque even at engine speeds as low as 1,200rpm, DIESELMAX can provide fuel-efficient matching of transmission and hydraulics.

2 JCB EcoRoad technology is designed to provide the highest efficiency and productivity levels possible when roading. Featuring JCB's patented TorqueLock technology (the world's first lock-up torque converter fitted to a backhoe loader), EcoRoad actually reduces fuel consumption by up to 25% whilst increasing speed by up to 10%, and working area by up to 10%.

3 At the loader end of our ECO machines, thanks to EcoLoad along with high lift capacities and breakout forces, and of course the outstanding DIESELMAX engine, you can count on lifting and shifting more, faster - these are the most efficient loaders in their class.



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As the market leader, JCB sells around half of all the world's backhoe loaders.

JCB pioneered the backhoe loader in 1953. Since then, we've remained the market leader, inventing features like 4WD and the side-shift chassis.



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Residual benefits.

4 Our DIESELMAX engine can run on lower-grade fuels, which makes the 3CX and 4CX easily resalable across different territories. This, of course, boosts residuals.

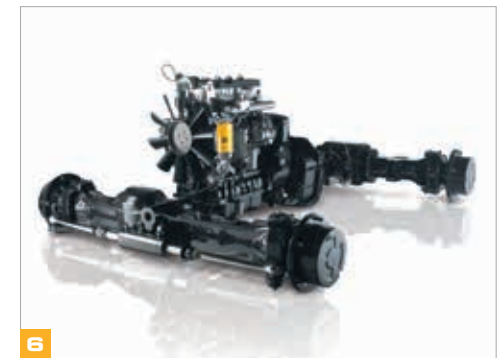
A JCB 3CX or 4CX is a great asset in many respects, not least financially – huge global demand, plus legendary productivity, plus superb build quality equals maximum resale value.

Added efficiency.

5 JCB's efficient design philosophy looks at every aspect of our machines, applying innovative technologies to squeeze the absolute maximum out of every drop of fuel and making the 3CX and 4CX ECO our most efficient backhoes ever.

The result of these innovations is that in typical roading, loading, excavating and idle cycles our backhoe loaders deliver an average fuel saving of up to 16%, plus lower emissions and noise levels.

6 High back-off brakes reduce viscous drag during roading and rehandling, which in turn improves economy by up to 2%.



QUALITY, RELIABILITY AND DURABILITY.

THE LATEST JCB 3CX AND 4CX ECO MACHINES ARE DESIGNED FOR HARD WORK. THEY'RE MADE USING ONLY THE VERY FINEST MATERIALS AND PROCESSES, WHICH ARE TESTED, TRIED AND PROVEN TO EXCEL. THEY'RE ALSO PROTECTED FROM THE INEVITABLE RIGOURS OF SITE LIFE.



Damage limitation.

1 To stop the 3CX or 4CX's kingpost hoses from snagging and sustaining damage, we enclose them in a flexible, robust guide.

2 The steering ram on the 3CX is protected from impact damage whilst loading, because it's mounted behind the front axle.

3 To protect boom and dipper hoses from the perils of trenchwork, we've enclosed them inside the rear structures of the machine.

4 The clam rams on our 3CX and 4CX machines are ultra-reliable because they're protected from debris when loading by optional JCB clam shovel ram guards.

5 To safeguard from impact damage on site, the 3CX and 4CX are now available with rear light guards.



Built to last.

6 For added rigidity – and to protect hoses from damage – a 3CX or 4CX has flat plate-depressed loader arms, while cat tail welds reduce stress concentrations.

7 The plastic fuel tank on the 3CX and 4CX is completely rustproof for ultimate fuel injection system protection.

8 The single-piece composite cab floor on these backhoes is also rustproof, and has moulded water channels.

9 JCB's robot welded single-piece chassis maximises strength and minimises weight.

Tested to the limits.

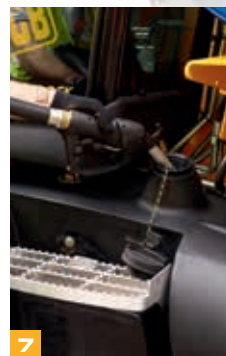
10 All the materials with which we construct our backhoe loaders are tested to the very max. By exposing those materials to extreme temperatures, chemicals, salt, oil and light, we know they'll survive the most hostile conditions.

11 To prove the durability of our DIESELMAX engines, we've tested them for 110,000 hours in 70 different machines across the toughest applications and environments.

The axles and transmissions of JCB 3CXs and 4CXs are built for a 12,000-hour life, with the heavyweight axles designed to withstand massive shock loads. The rear axle alone has a static load rating of 25,000kg, and a dynamic load rating of 12,500kg.



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PRODUCTIVITY AND PERFORMANCE.

JCB BACKHOES HAVE ALWAYS LED THE WAY IN POWER AND PERFORMANCE, AND OUR LATEST 3CX AND 4CX MODELS ARE NO EXCEPTION. IN EVERY RESPECT – FROM DIGGING TO LIFTING AND MANOEUVRING – THESE MACHINES WILL MAXIMISE YOUR PRODUCTIVITY.

A productive drivetrain.

1 Choose from three engines to suit your requirements – with 63kW, 68.6kW and 74.2kW options, you can balance ultra efficiency against ultimate performance.

2 To give your 3CX or 4CX even greater traction and performance, as well as reduced tyre wear, opt for our automatic limited slip differential traction control.

Innovative hydraulics.

3 EcoLoad also features a Hydraulic Speed Control (HSC) switch which – combined with high torque at low engine speed from our DIESELMAX engine – gives more tractive effort, faster cycle times, excellent pushing power and hill climbing performance.

For enhanced loading performance and smoother gear changes, we offer a 6-speed gearbox with low ratio first and second gears.



With a 160-litre fuel tank, the 3CX and 4CX ECO machines are designed to do a huge amount of work between refills.



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Digging further.

A 3CX or 4CX ECO's 4-ram self-levelling loader automatically adjusts the shovel on both raise and lower cycles without any need for manual adjustment. It also provides unhindered front shovel visibility, especially when loading at height.

The JCB return-to-dig feature means operators can quickly reset the shovel to dig.

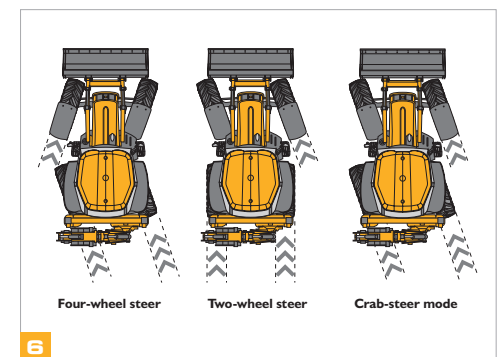
4 To ensure an extra 1.2m dig depth and reach – and to minimise repositioning – the 3CX and 4CX are fitted with our inner box design Extradig feature.

Both the 3CX and 4CX ECO boast high ground clearances of up to 370mm, together with 20° departure angles. This means operators can work easily on steep slopes and uneven ground at maximum productivity.

JCB 4CX: the ultimate backhoe loader.

5 Boasting unparalleled power, performance and versatility, the JCB 4CX ECO is the ideal machine for just about any application, from road-building to house-building, waste recycling and landscaping.

6 The 4CX ECO's large optional 1.3m³ shovel capacity along with 3 steering modes provide exceptional on-site productivity.



COMFORT AND EASE OF USE.

IN ORDER TO HELP YOU REAP THE MAXIMUM BENEFIT OF THE 3CX AND 4CX'S SUPERIOR PERFORMANCE, WE'VE DESIGNED THESE MACHINES TO BE ALL-DAY COMFY, ERGONOMIC AND EXTREMELY INTUITIVE FOR OPERATORS TO USE.

A great place to work.

All our ECO backhoes have low noise levels, with our 63kW (85hp) engine model offering the quietest operation.

1 To help operators get to work quickly and safely, our optional heated front screen/heated mirrors remove any built-up frost and ice without the need to climb across the machine on cold mornings. A cab pre-heating option can be set to warm the cab automatically without starting the engine.

2 There's storage aplenty in our 3CX and 4CX cabs; work tools are easy to carry, the cab environment is well-organised and, on A/C models, there's an in-cab cool box for food and drinks.

3 For added comfort and reduced material spillage, JCB's SmoothRide System minimises bounce during travel.



Maximum manoeuvrability.

5 JCB's new improved Powerslide features a larger hydraulic ram, which produces more power to reposition the excavator quickly and effortlessly.

The 3CX and 4CX have optional LSD to stop wheelspin in difficult ground conditions, inturn reducing tyre wear.

6 Efficient, safe stopping power requires minimal pedal effort because of the 3CX and 4CX ECO's power brakes.



Always in control.

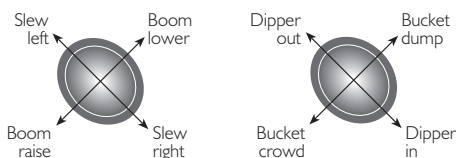
7 The EcoDig system is controlled by a two-position rocker switch on the main console in the cab. This control offers the operator a choice between an ECO mode, maximum efficiency and digging potential mode, or Lo mode, an ultimate machine control for fine grading, lifting and delicate groundworks profiling applications.

8 JCB's ergonomic seat-mounted excavator-style controls (a standard-fit on our Easy and Advance Easy Control machines) make for great manoeuvrability, fingertip control and supreme comfort.

9 So that operators feel right at home in the 3CX/4CX ECO, we fit a traditional JCB X manual control system as standard.

With joystick-controlled loader operations on Advanced EasyControl, it's comfortable, logical and easy to control the loader end of a 3CX or 4CX.

JCB X (Diagonal)



SECURITY AND SERVICEABILITY.

AS THE WORLD'S NUMBER ONE BACKHOES, THE 3CX AND 4CX ARE BLESSED WITH SUPREME POWER AND PRODUCTIVITY. TO BALANCE ALL THAT PERFORMANCE AND DESIRABILITY, THERE'S SAFETY, SECURITY AND SERVICEABILITY APLENTY TOO.



Safe and secure.

- 1** A stabiliser warning system* lets 3CX and 4CX operators know if the stabilisers aren't fully retracted when the machine is on the move.
- 2** The 3CX and 4CX ECO are safe machines to get in and out of, with large anti-slip steps of an open grille design to stop material build-up.
- 3** To keep operators safe even when using powered attachments, we fit an impact-protected rear screen* to these backhoes. This also makes glass replacement easy.
- 4** There's a large lockable toolbox onboard for safe storage.
- 5** Punctures are a fact of life on site, which is why the 3CX and 4CX feature optional liquid fill tyres for a fast repair.

* Optional



Safety.

6 An optional JCB keypad immobiliser adds to machine protection and allows the operator to key in a sequence of numbers to activate the starting of the machine. An alternative option to this is the unique JCB key featuring a built-in circuit chip – each backhoe loader can only be started by its' own, unique key.

Serviceability.

To save more time and effort, these backhoes are designed to offer grouped single-side servicing.

7 Our one-piece bonnet is easy to lift, and there's no need to remove extra side panels.

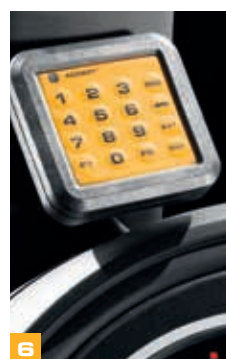
8 Refuelling of a 3CX or 4CX can be done from ground level.

We've got a patented rear stabiliser wear pad design, with fast and simple adjustment.

9 JCB LiveLink telematics can provide an array of information to optimise fleet management and machine reliability.



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THE OPTIONS LIST.

A BACKHOE LOADER IS, BY ITS VERY NATURE, A HIGHLY VERSATILE MACHINE, BUT OUR OPTIONAL EXTRAS MAKE IT ALL THE MORE SO, ALLOWING YOU TO TAILOR YOUR 3CX OR 4CX TO A HUGE ARRAY OF DIFFERENT APPLICATIONS.

6-in-1 shovel.

1 Equip your 3CX or 4CX with one of these and you can dig, doze, load, grab, grade and backfill without having to switch attachments.

Front bumper protection bars.

2 The 3CX can be equipped with front protection bars, protecting the bonnet and front grill from damage when loading into lorries and trailers.

Excavator lifting kit.

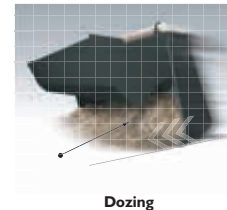
3 This lifting kit means you can use a 3CX or 4CX ECO's excavator arm as a crane for object handling. Optional hose burst check valve (HBCV) on the boom, together with an audio warning alarm, are available.

Hose reel.

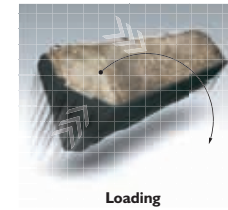
4 The unique ability of a JCB backhoe to provide an independent hydraulic circuit for handheld tools is nothing new. But our 9m hose reel option means you get even greater working radius, while the reel design reduces the potential for on-site damage and protects the hose when it's not being used. Handheld tools and the excavator can be operated simultaneously for increased productivity; this also removes the need for separate powerpacks – traditionally a theft risk. The hose reel meets EHTMA Class C tool operation standards and features low back pressures, 138 bar pressure and a 20 l/min flow rate.

Hydraulic thumb.

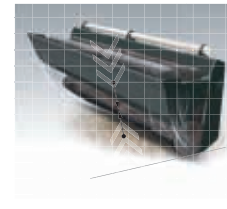
5 This feature increases the versatility of your 3CX or 4CX because its profiled edge is ideal for handling round objects and awkward materials – logs, pipes or scrap metal, for example.



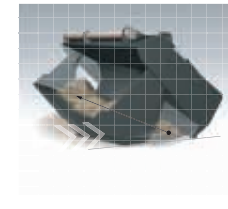
Dozing



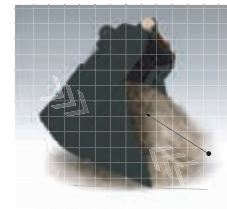
Loading



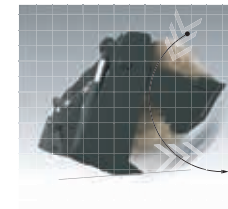
Grabbing



Grading



Digging



Backfilling

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Powerslide.

6 JCB Powerslide hydraulically sideshifts the backhoe for less effort and reduces the change of any site damage to tarmac or paved surfaces, making it ideal for the utilities sector.

Combined hammer and bi-directional unit.

7 Increasing attachment compatibility and versatility, this brand new option provides both low-flow and high-flow hydraulic power, with low back pressure maintaining optimum flow to the attachment. The circuit operates independently of the extending dipper and is capable of operating a wide range of single and double acting attachments. Hammer only, or hammer and bi-directional options are available.



Knuckleboom.

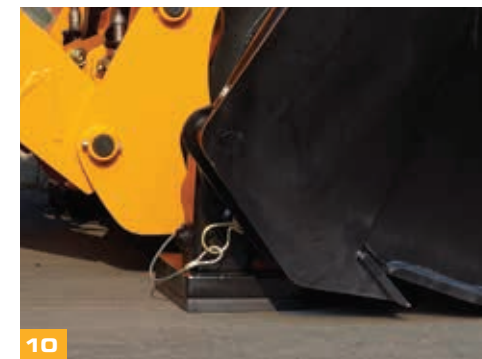
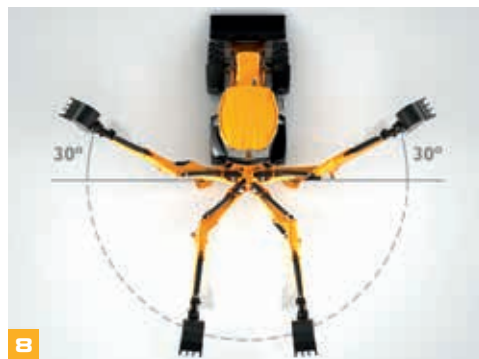
8 The 4CX ECO features a knuckleboom option (4CN) which has a 30° articulation angle between the boom and dipper giving a working envelope of 240°. This allows you to dig in areas simply not possible with a conventional backhoe, such as around objects like tress, telegraph poles or lamp posts; parallel alongside a road while keeping the machine on the road; or even towards the front of the machine.

Hydraulic quickhitch.

9 Our latest quickhitch makes attachment changing quick, safe and compliant with both current and future legislation.

Integral shovel street pads.

10 This new option prevents ground damage and, therefore, costly repairs.



LIVELINK, WORK SMARTER.

LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MANAGE JCB MACHINES REMOTELY – ONLINE, BY EMAIL OR BY MOBILE PHONE. ACCESS EVERYTHING FROM MACHINE ALERTS TO HISTORY INFORMATION, WITH ALL DATA STORED AT A SECURE CENTRE.

Productivity and cost benefits

You can monitor and manage your machines fuel level throughout the day using the analysis function. LiveLink has a comprehensive reporting tool allowing you to manage your machines up time and utilisation to get the most of your machine.



Maintenance benefits

Manage machine maintenance easily – accurate hours monitoring and service alerts improve maintenance planning, while real-time location data helps you manage your fleet. Critical machine alerts and maintenance history records are also available.



Security benefits

LiveLink's real-time geofencing alerts tell you when machines move out of predetermined zones, and real-time curfew alerts inform you of unauthorised usage, straight to your mobile phone. Further benefits include real-time location information, and LiveLink has its own internal battery and aerial.



Note: LiveLink features are model dependent, check machine specifications.



VALUE ADDED.

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.

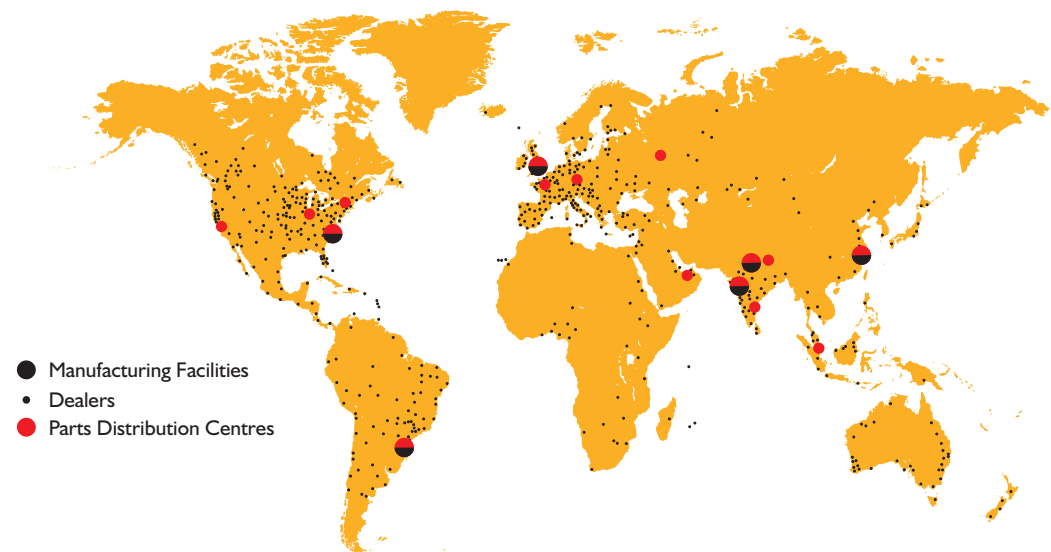


1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

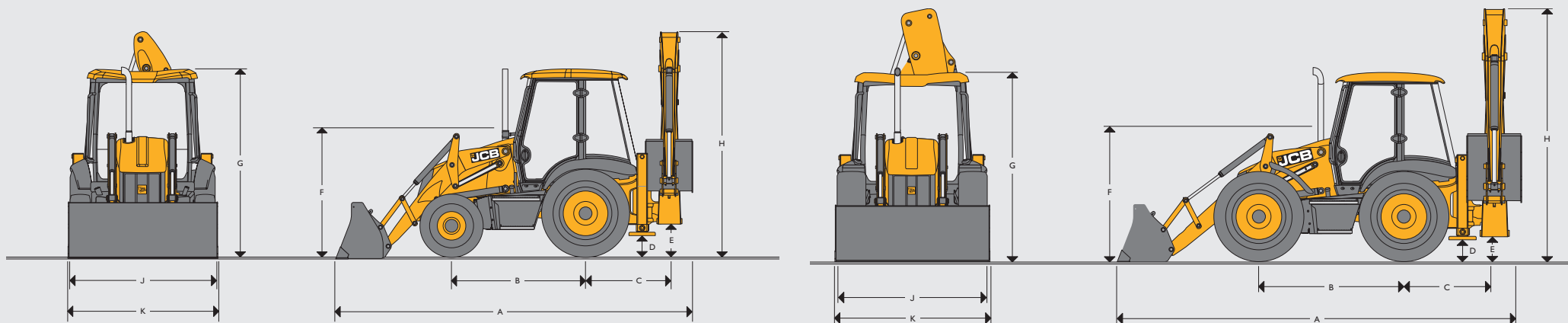
2 The global network of JCB Parts Centres is another model of efficiency; with 16 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



3 JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.

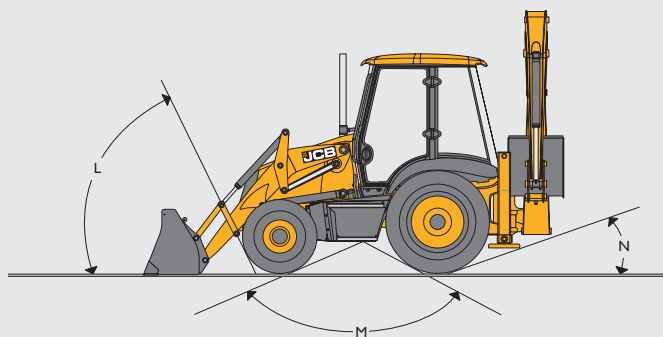


STATIC DIMENSIONS



Dimensions in mm		3CX Eco		3CX Eco Sitemaster		3CX Eco Super	4CX
A	Total travel length	5.62		5.62		5.91	5.91
B	Axle centreline distance	2.17		2.17		2.22	2.22
C	Slew centre to rear axle centre distance	1.36		1.36		1.36	1.36
D	Stabiliser feet clearance	0.37		0.37		0.33	0.34
E	Kingpost clearance	0.52		0.52		0.48	0.50
F	Steering wheel centre height	1.94		1.94		1.86	1.88
G	Cab roof height	3.03		3.03		2.98	3.03
H	Total travel clearance	3.61		3.61		3.48	3.54
J	Rear frame width	2.35	2.24*	2.35	2.24*	2.24	2.36
K	Shovel width	2.35	2.23*	2.35	2.23*	2.23	2.33
K	Shovel width - option	-	-	-	-	-	2.44

* Narrow option



GROUND LINE ANGLES

Machine model			3CX, 3CX Sitemaster	3CX Super	4CX
L	Approach angle	degrees	66°	74°	74°
M	Interference angle/ramp to ground plane	degrees	120°	118°	118°
N	Departure angle	degrees	20°	19°	19°

ENGINE (Stage II / Stage IIIA)

Model		3CX Eco, Sitemaster	3CX Eco, Sitemaster, Super	4CX
Engine standard		Stage II / IIIA	Stage II / IIIA	Stage II / IIIA
Manufacturer		JCB	JCB	JCB
Aspiration		Turbocharged	Turbocharged	Turbocharged & Intercooled
Displacement	litre	4.4	4.4	4.4
No. of cylinders		4	4	4
Bore	mm	103	103	103
Stroke	mm	132	132	132
Rated engine	rpm	2200	2200	2200
Power ratings				
Rated ISO 14396 (SAE J1195 Gross)	kW	63	68.6	74.2
Maximum torque				
Max. torque rpm	Nm	320/362	400/408	425/440
Max. torque rpm	rpm	1200	1400	1300

ELECTRICAL AND INSTRUMENTATION

Gauges	Tachometer, engine coolant temp, fuel level, hourmeter, clock
Warning system	Audible and visual system. Engine oil, water in fuel, transmission oil temperature and pressure, park brake, air cleaner, alternator
Battery	900 CCA/110 A/hr
Pre-wire	Radio speakers (cab), beacon (all)
Horn	Controlled from both front and rear
Alternator	95 amp standard
Front working lights	4 adjustable
Rear working lights	4 adjustable

ENGINE SUPPORT SYSTEM

Fuel type	Diesel
Fuel filter	Replaceable cartridge plus water/sediment separator prefilter
Air cleaner	Dual, dry element type, with self cleaning internal air intake precleaner
Oil filter and lubrication	Full flow, spin-on type filter
Cooling system	Hot climate specification, pressurised 1.0 bar suction fan. Pressurised recovery tank with integral filler neck

TRANSMISSION

Model	2WS 63kW	2WS 68.6kW			AWS 68.6kW		AWS 74.2kW	
Manufacturer	JCB	JCB	JCB	JCB	JCB	JCB	JCB	JCB
Type	Syncroshuttle	Syncroshuttle	Powershift	Autoshift	Syncroshuttle	Powershift	Powershift	Autoshift
Gear selection	Manual	Manual	Powershift	Powershift	Manual	Powershift	Powershift	Powershift
Torque lock	N/A	N/A	Optional	Optional	N/A	Optional	Standard	Optional
Gear 1	6.2	6.2	5.4	5.1	5.7	4.9	5.0	4.9
Gear 2	10.0	10.0	10.0	8.6	9.1	8.6	9.3	8.1
Gear 3	21.3	21.3	22.5	11.6	19.6	19.8	21.5	11
Gear 4	39.8	39.8	38.3	18.7	37.1	37.1	38.1	17.7
Gear 5	-	-	-	31.3	-	-	-	29.6
Gear 6	-	-	-	38.3	-	-	-	38.1

OPERATING WEIGHTS

Machine model		3CX	3CX Sitemaster	3CX Super	4CX
Fixed dipper	kg	7702	-	7999	8178
Extended dipper	kg	8102	8102	8399	8578

Measured with 6-in-1, 600mm bucket, full fuel tank and operator.
Actual weight will vary depending on machine options.

FRONT AXLE				
Model	3CX 2WD	3CX 4WD, 3CX Sitemaster	3CX Super	4CX
Type	Flame cut bar	JCB steer drive with torque proportional	JCB 4WD steer drive with torque proportio	JCB epicyclic hub reduction with torque proportional
Limited slip	-	-	-	Option
Axle ratings	kg	kg	kg	kg
Static load rating	16500	16500	25000	25000
Dynamic load rating	8300	8300	12500	12500
Oscillation angle	16°	16°	16°	16°

REAR AXLE			
Model	3CX, 3CX Sitemaster	3CX Super	4CX All models
Type	JCB epicyclic hub reduction with torque proportional	JCB 4WD steer drive with torque proportional	JCB epicyclic hub reduction with torque proportional
Limited slip	Option	Option	Option
Axle ratings	kg	kg	kg
Static load rating	25000	25000	25000
Dynamic load rating	12500	12500	12500

STEERING			
Model	3CX, 3CX Sitemaster	3CX Super	4CX All models
Axles	Steer drive	Steer drive	Steer drive
Steering turns - lock to lock	2¾	2¾	2¾
	m	m	m
Kerb – kerb turning circle - unbraked	8.1	9.35	9.1
Loader clearance circle - unbraked	10.4	11.15	10.7
Kerb – kerb turning circle - braked	6.9	8.0	8.0
Loader clearance circle - braked	9.5	9.5	9.5

(Depending on tyre size, ground conditions etc.)

SERVICE CAPACITIES			
Model		3CX All models	4CX All models
Cooling system	ltr	18.5	18.5
Fuel tank	ltr	160	160
Engine oil with filter	ltr	15	15
Gearbox with filter	ltr	16	16
Rear axle	ltr	16	16
Front drive axle	ltr	16	16
Hydraulic system incl. tank	ltr	117	117

OPTIONAL ACCESSORIES
Key/keypad immobiliser, Sitemaster, Michelin or Goodyear Brands of tyres with a selection of traction/industrial tread in a crossply/ radial construction, Powershift/Autoshift transmissions, JCB TorqueLock, JCB Powerslide, Standard excavator buckets (300mm to 900mm), Deep profile excavator buckets (300mm to 940mm), Ditching buckets, General purpose/6-in-1 front shovels, Manual/ hydraulic front quickhitch, Manual/hydraulic rear quickhitch, 3/8" loader arm pipework/5/8" loader arm pipework, Hammer/ bi-directional pipework, Hand held tool circuit, 9m hose reel, Excavator lifting kits for EN474 and non-EN474 territories, Loader/ excavator HBCV's, Electric refuelling pump, Heated front screen, Heated mirrors, Reverse alarm, Coffee machine, Grid heaters, Eberspacher cold start kits, Front bumper protection, Fire extinguisher, Fuel tank guards, Air suspension seat, Seat headrest, Biodegradeable oil, Black/yellow trim kits, Instrument panel vandal guard, Different size front counterweights, Stabiliser streetpads, Shovel streetpads, Rear light guards, Lubricity filter, Shovel clam ram guards, Dual pattern controls (ISO/SAE changeover), Extendable steer column, Air conditioning, SRS.

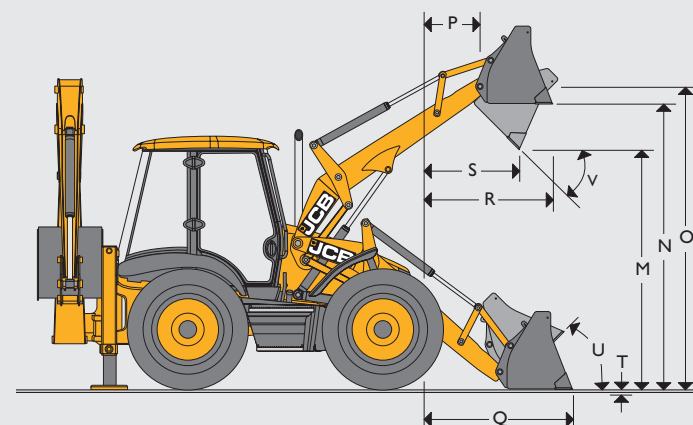
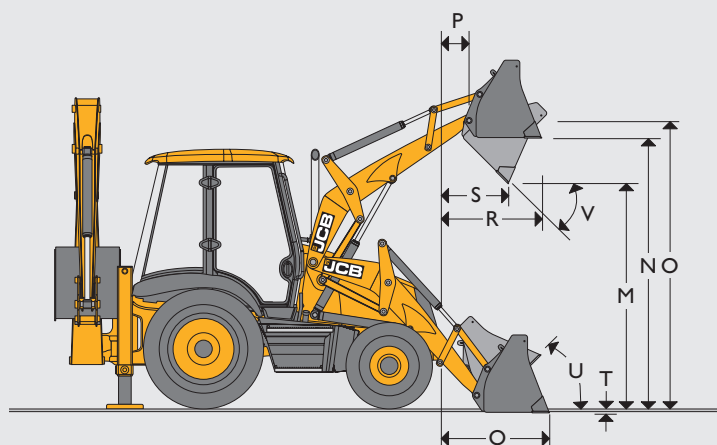
HYDRAULIC SYSTEM - 3CX		
Pump flows*	3CX, 3CX Sitemaster	3CX, 3CX Super, 3CX Sitemaster
Open centre systems (Gear pumps) @ 1750 rpm	l/min	l/min
Manual Control (Gear pump)		
Pump 1	58	63
Pump 2 & 3	71	81
EasyControl		
Pump 1	-	63
Pump 2 & 3	-	81
Closed centre systems (Piston pump) @ 2200 rpm	l/min	l/min
Advanced EasyControl	-	165 (32.3)
	bar (lbf/sq in)	bar (lbf/sq in)
System relief pressure	251 (3650)	251 (3650)

*Optimum flow **Territory specific

HYDRAULIC SYSTEM - 4CX		
Pump flows*	4CX**	4CX**
Open centre systems (Gear pumps) @ 1700 rpm	l/min	l/min
Manual Control (Gear pump)		
Pump 1 & 3	82	80
Pump 2	73	64
EasyControl		
Pump 1 & 3	82	80
Pump 2**	73	64
Closed centre systems (Piston pump) @ 2200 rpm	l/min	l/min
Advanced EasyControl	165	165
	bar (lbf/sq in)	bar (lbf/sq in)
System relief pressure	251 (3650)	251 (3650)

*Optimum flow **Territory specific

LOADER DIMENSIONS



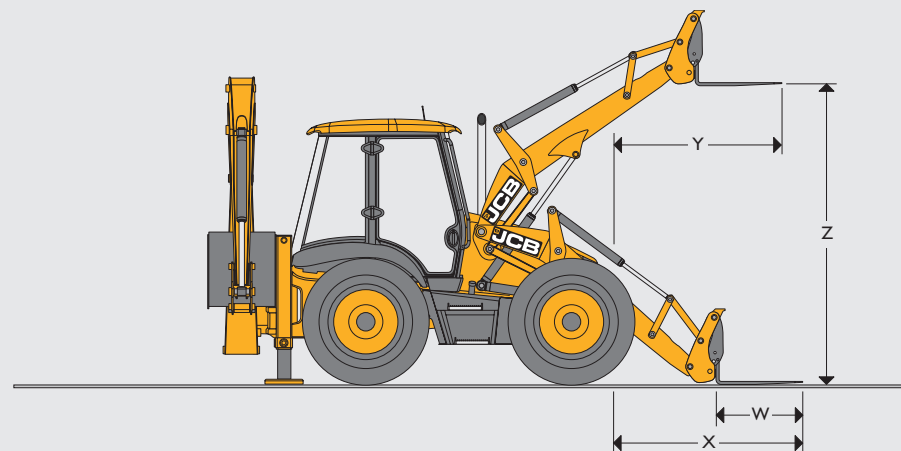
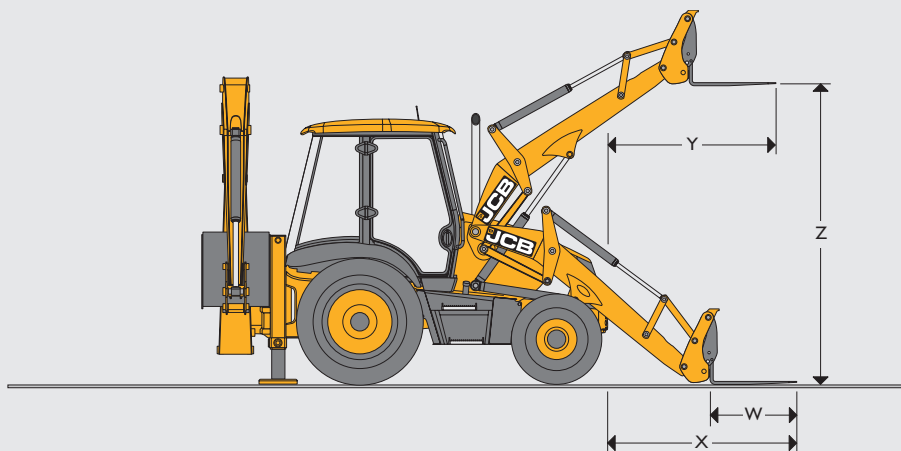
Model			3CX, 3CX Sitemaster		3CX Super		4CX	
			GP shovel	6-in-I shovel	GP shovel	6-in-I shovel	GP shovel	6-in-I shovel
M	Dump height	m	2.74	2.72	2.64	2.64	2.69	2.69
N	Load over height	m	3.23	3.20	3.16	3.13	3.21	3.18
O	Loader hinge pin height	m	3.45	3.45	3.41	3.41	3.46	3.46
P	Pin forward reach	m	0.36	0.36	0.47	0.47	0.41	0.41
Q	Reach at ground (toe plate horizontal)	m	1.42	1.37	1.52	1.50	1.42	1.39
R	Max. reach at full height	m	1.20	1.15	1.26	1.22	1.21	1.17
S	Reach at full height fully dumped	m	0.83	0.78	0.88	0.82	0.82	0.76
T	Dig depth	m	0.07	0.10	0.18	0.23	0.14	0.18
U	Roll back at ground	degrees	45°	45°	45°	45°	45°	45°
V	Dump angle	degrees	43°	43°	44°	44°	45°	45°
	Jaw opening width	m	-	0.95	-	0.95	-	0.95

LOADER PERFORMANCE

Model		3CX, 3CX Sitemaster		3CX Super		4CX	
		GP shovel	6-in-I shovel	6-in-I shovel	GP shovel	GP shovel	6-in-I shovel
Loader breakout – shovel	kgf	6170	6531	6590	6227	6227	6590
Loader breakout – arms	kgf	4942	4732	5730	5936	5936	5730
Rated operating capacity 7'4"	kgf	3479	3229	4378	4638	–	–
Rated operating capacity 7'8"	kgf	3439	3169	–	–	–	–
Rated operating capacity	kg	–	–	–	–	4638	4378
Clamping force	kgf	–	2940	2945	–	–	2945

*Rated operating capacity as determined according to ISO 14397: 2007

LOADER ATTACHMENTS – Forklift Performance Data

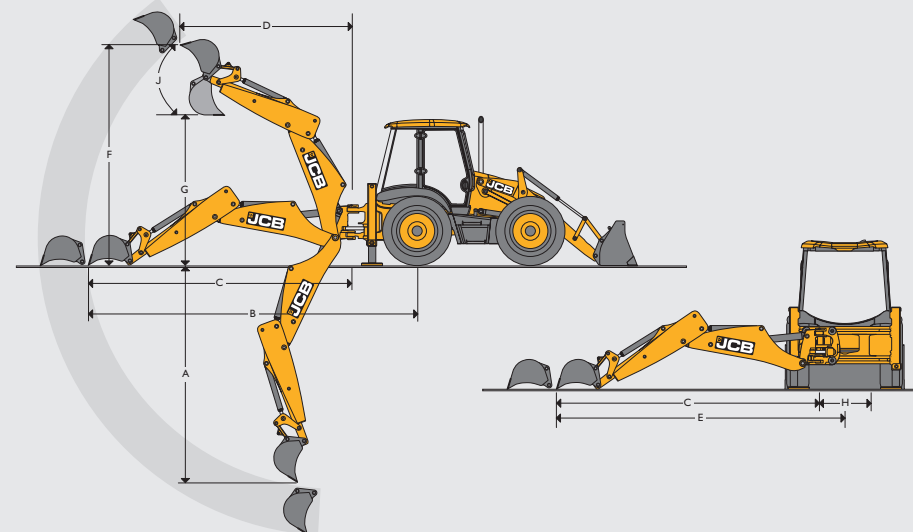
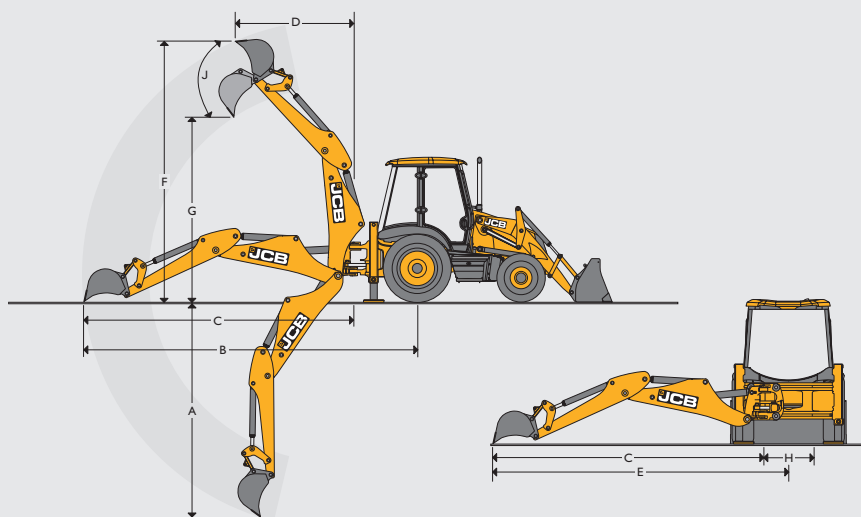


Model			3CX, 3CX Sitemaster		3CX Super		4CX	
			6-in-1 shovel mounted forks	Quickhitch mounted forks	6-in-1 shovel mounted forks	Quickhitch mounted forks	6-in-1 shovel mounted forks	Quickhitch mounted forks
W	Forks – tine length	m	1.1	1.1	1.1	1.1	1.1	1.1
	Forks – tine width	m	0.08	0.08	0.08	0.08	0.08	0.08
X	Forks reach at ground level	m	2.66	2.03	2.78	2.18	2.68	2.13
Y	Forks reach at full height	m	2.25	1.72	2.38	1.81	2.30	1.76
Z	Forks lift height – max	m	2.92	3.27	2.85	3.23	2.90	3.28
	Fork spacing – min	m	0.2	0.2	0.2	0.2	0.2	0.2
	Fork spacing – max	m	2.17	1.03	2.17	1.03	2.17	1.03
	SWL @ 500mm load centres	kg	1000	2000	1000	2000	1000	2000

LOADER ATTACHMENTS – Direct Mount

Width mm (ft-in)	Capacity SAE			
	G.P. Shovel		6-in-1	
	Rated m ³	Struck	Rated m ³	Struck
2235 (7-4)	1.0	0.83	1.0	0.76
2350 (7-8)	1.1	0.91	1.2	1.02
2350 (7-8) 4CX model only	1.3	1.19	1.2	1.02
2440 (8-0) 4CX model only	-	-	1.3	1.19
3CX All models	●		●	
4CX	●			
4CX Super	●		●	
4CX Sitemaster	●		●	
4CX Super Sitemaster			●	

BACKHOE DIMENSIONS



Model				3CX	3CX, 3CX Sitemaster	3CX Super	3CX Super	4CX	4CX
				Standard Dipper	Extradig	Standard Dipper	Extradig	Standard Dipper	Extradig
A	SAE max dig depth	m	Ext	—	5.46	—	5.58	—	5.53
			Ret	4.24	4.24	4.37	4.37	4.32	4.32
	SAE 2ft flat bottom	m	Ext	—	5.43	—	5.55	—	5.50
			Ret	4.21	4.21	4.34	4.34	4.29	4.29
	Maximum dig depth with deep profile bucket	m	Ext	—	5.97	—	5.93	—	5.88
			Ret	4.75	4.75	4.72	4.72	4.67	4.67
B	Reach – ground level to rear wheel centre	m	Ext	—	7.87	—	7.88	—	7.88
			Ret	6.72	6.72	6.74	6.74	6.74	6.74
C	Reach – ground level to slew centre	m	Ext	—	6.52	—	6.54	—	6.54
			Ret	5.37	5.37	5.40	5.40	5.40	5.40
D	Reach – at full height to slew centre	m	Ext	—	3.66	—	3.75	—	3.75
			Ret	2.74	2.74	2.82	2.82	2.82	2.82
E	Side reach – to centre line of machine	m	Ext	—	7.09	—	7.09	—	7.16
			Ret	5.94	5.94	5.94	5.94	6.02	6.02
F	SAE operating height	m	Ext	—	6.35	—	6.20	—	6.26
			Ret	5.53	5.53	5.39	5.39	5.45	5.45
G	Maximum loadover height	m	Ext	—	4.72	—	4.67	—	4.73
			Ret	3.84	3.84	3.78	3.78	3.84	3.84
	SAE loadover height	m	Ext	—	4.32	—	4.22	—	4.28
			Ret	3.4	3.4	3.33	3.33	3.39	3.39
H	Total kingpost travel	m		1.16	1.16	1.05	1.05	1.16	1.16
			Narrow rear frame option	1.05	1.05	—	—	—	—
J	Bucket rotation	Speed		201°	201°	201°	201°	201°	201°

BACKHOE PERFORMANCE					
Model		3CX, 3CX Sitemaster, 3CX Super		4CX	
		Standard Dipper	Extradig	Standard Dipper	Extradig
Bucket tearout	kgf	Speed	5431	5431	5385
		Power	6324	6324	6228
Dipper tearout	kgf	Ext	–	–	2729
		Ret	3217	3893	3903
Lift capacity of bucket pivot at full reach	kg	Ext	–	–	1082
		Ret	1584	2046	1885

* Heavy Lift excavator

BACKHOE ATTACHMENTS – Standard Profile Bucket				
	3CX & 4CX All models			
Width*	Capacity SAE		Weight (+ Teeth)	
mm	Rated m³	Struck m³	kg	Teeth
229	0.04	0.03	95	0
305 †	0.06	0.05	102	3
356 †	0.075	0.06	105	3
400 †	0.09	0.07	109	3
457 †	0.12	0.09	116	3
610 †	0.17	0.13	140	4
800 †	0.24	0.17	162	5
950 †	0.30	0.21	198	5

* Including sidecutters. Width less sidecutters deduct 25mm.

† Available with additional wear strips to give added strength and rigidity.

DITCHING BUCKETS						
	3CX All models			4CX All models		
Width*	Capacity SAE		Weight	Capacity SAE		Weight
mm	Rated m³	Struck m³	kg	Rated m³	Struck m³	kg
1525	0.22	0.155	150	0.22	0.16	150
1830	0.26	0.186	172	0.26	0.19	172

TAPERED BUCKETS – 3CX & 4CX All models				
Width*	Capacity SAE			
mm	Rated m³	Struck m3	Angle degrees	Teeth
381–1676	0.07	0.06	30	2
305–1067	0.12	0.10	60	2

BACKHOE ATTACHMENTS – Standard Profile Bucket								
	3CX All models				4CX All models			
Width*	Capacity SAE		Weight (+ Teeth)		Capacity SAE		Weight (+ Teeth)	
mm	Rated m³	Struck m³	kg	Teeth	Rated m³	Struck m³	kg	Teeth
305	0.09	0.07	102	3	0.09	0.07	102	3
356	0.11	0.09	117	3	0.11	0.09	117	1
457	0.16	0.13	122	3	0.16	0.13	122	3
610	0.23	0.18	142	4	0.23	0.18	142	4
800	0.30	0.24	163	5	0.30	0.24	163	5
950	0.38 †	0.30	183	5	0.38	0.30	183	5
1100	0.48 †	0.34	203	6	0.48	0.34	203	6

* Including sidecutters. Width less sidecutters deduct 25mm (1in).

† Capacity in cu.yd.





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Your nearest JCB dealer

3CX/4CX Eco Backhoe Loader

Gross power: 63kW (85hp) – 74.2kW (100hp) Maximum dig depth: 4m – 6.14m

Maximum shovel capacity: 1.0m³ – 1.3m³

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