



## **BACKHOE LOADER** | 3CX/4CX

Gross power: 55kW (74hp) – 81kW (109hp) Maximum dig depth: 4m – 6.14m Maximum shovel capacity: 1.0m<sup>3</sup> – 1.3m<sup>3</sup>



## 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 Our most efficient 55kW (74hp) BHL requires no costly DPF or SCR. A flow on demand axle piston pump makes it not only unbeatable on fuel consumption, but also avoiding any additional after-treatment or servicing costs. This differentiates JCB from the competition.

2 By producing high levels of power and torque even at engine speeds as low as 1200rpm, EcoMAX can provide fuel-efficient matching of transmission and hydraulics.

JCB's unique TorqueLock system is now standard on 81kW (109hp) Powershift model 3CX and 4CX backhoes. Combined with our optional 6-speed Autoshift transmission, it can help save up to 25% on fuel and 10% on road travel time.

3 For ultimate efficiency, our unique new entry-level 55kW high torque (400Nm) engine provides excellent excavator performance with the fuel usage of a low power unit.



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### Residual benefits.

**4** A new stainless steel SCR replaces the current exhaust system on backhoes over 55kW (74hp).

We've met the strict regulations by reducing NOX emissions by 90%. The emissions of one Stage IV machine are equivalent to ten Stage IIIB machines, creating a substantially cleaner and safer environment, without detriment to fuel consumption, engine power or visibility.

### Added efficiency.

To reduce noise and save fuel, we've fitted the 3CX and 4CX with a viscous fan as standard; this only cuts in when it's needed, and doesn't draw engine power.

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

**6** Because the 3CX and 4CX are fitted with a Thatcham-approved security system (depending on territory), you could benefit from lower insurance premiums.

A high output variable flow pump reduces cycle times and saves fuel. On manual machines, it also provides lighter lever effort for easier control.



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## 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 these backhoes 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 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 fitted 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 new EcoMAX 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.



**EASY, EFFICIENT, AUTOMATE.**

**JCB AUTOMATE IS A NEW SUITE OF AUTOMATED FEATURES DESIGNED TO IMPROVE THE USABILITY AND FUEL EFFICIENCY OF YOUR JCB BACKHOE LOADER.**

INTRODUCING

# AUTOMATE

FOR THE WORLD'S NO1 BACKHOE LOADER

## 1 Auto Check.

- Make looking under the bonnet of your backhoe a thing of the past by having all routine engine checks automatically carried out at the start of every working day.

## 2 Auto Idle.

- Automatically returns engine rpm to idle saving time and effort.
- Adjustable time delay to suit operators and different applications.
- Potential fuel saving of £122 per year (based on a 1500hr cycle).

## 3 Auto Throttle.

- Returns engine speed to pre-set hand throttle position when work is resumed.
- Improves ease of use, saves time and reduces effort.
- Maintains idle until levers are activated.

## 4 Auto Drive.

- When your backhoe is roading, Auto Drive automatically maintains a chosen engine speed.
- The feature automatically disengages when you press the brake or the switch.
- Similar to automotive cruise control, the only difference being engine speed is locked rather than road speed, allowing the operator to remove their foot from the throttle pedal.



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**T4F IV**





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### 5 **Auto Smoothride System (SRS).**

- Set and forget technology means there's no operator input needed.
- Automatic activation and deactivation is carried out at a preset speed.
- This feature is designed to increase productivity, by providing increased load retention and roading speed, as well as increased operator comfort.



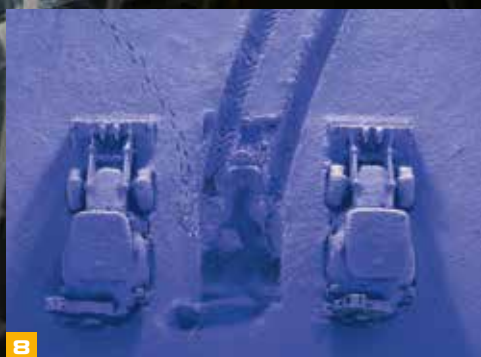
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### 6 **Auto Boomlock (servo only).**

- There's no boomlock cable to worry about.
- Automatic unlock is done via servo activation.

### 7 **Auto Stabiliser Up (servo only).**

- One touch levers reduce operator fatigue.
- Auto retraction provides ease of operation.
- Engine rpm automatically raises for reduced raise time and lowers back to idle.



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### 8 **Auto Pre-heat (optional).**

- Program your machine to automatically heat the engine block, cab and defrost the windscreen up to 30 minutes before use.



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### **AUTOMATE HOW TO.**

Take a look at the video below for an introduction to the latest Automate features on the JCB Backhoe Loader. You can also visit our YouTube Channel to watch the series of 'How to' videos and discover how you can get the most from your machine.



# 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.

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



## A productive drivetrain.

1 Choose from three engines to suit your requirements – with 55kW, 68kW and 81kW 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 differentials.

With a 150-litre fuel tank, the 3CX and 4CX ECO machines are designed to do a huge amount of work between refills.

Fast and responsive cycles are guaranteed, courtesy of an increased 165 l/min peak hydraulic flow.

## Innovative hydraulics.

There's more tractive effort at the pile than ever, thanks to new variable flow pump power management combined with our new EcoMAX engine.

3 The 3CX Contractor and 4CX's heavy-duty lift rams provide 3.87 tonnes of force for improved lifting performance.





### 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 As the largest, most productive backhoe model we produce, 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.



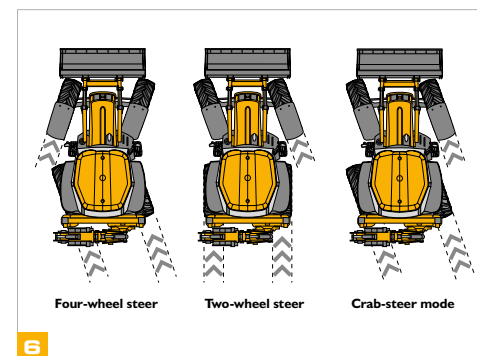
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## COMFORT AND EASE OF USE.

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 55kW (74hp) engine models offering the quietest operation.

**1** To help operators get to work quickly and safely, our optional heated front screen removes 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.

**4** Exclusive to JCB backhoe loader, we have integrated a hot drinks machine option into the cab to provide you with a delicious cup of hot tea or coffee throughout the day.







### 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.

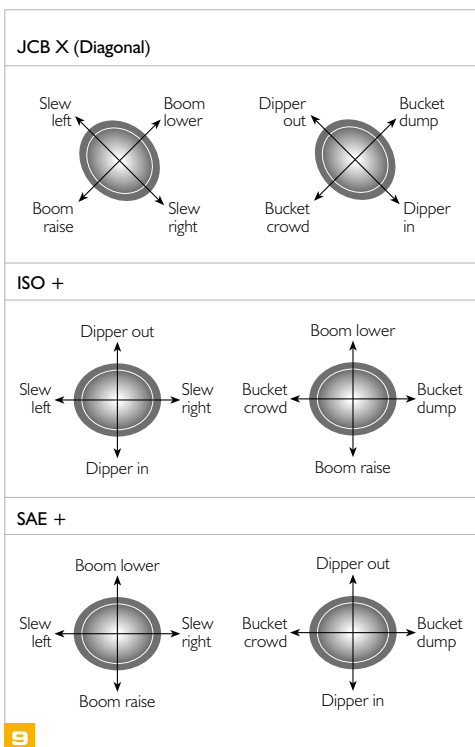
### Always in control.

**7** For a super-efficient backhoe experience, JCB's new multi-functional instrument control panel can provide current and average fuel consumption.

**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 manual control system as standard, with a choice of three control patterns – JCB X, SAE+ and ISO+.

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



## 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** A large 20 litre AdBlue® tank only requires filling every 4-5 fuel refills for minimal servicing downtime. Recommend fill up every time.





## Serviceability.

**6** Operators no longer need to perform daily under-bonnet checks on a 3CX or 4CX, because all checks are done automatically by the CANBUS engine management system. To save more time and effort, these backhoes are designed to offer grouped single-side servicing.

An in-cab monitor display provides operators with all the machine information they need, like service messages and early warnings to improve reliability and reduce downtime.

**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.

## MAX benefits.

**10** The JCB EcoMAX engine – as fitted to both the 3CX and 4CX ECO – features uprated engine and fuel filters to prevent engine wear and extend working life.

SCR has minimal system components to ensure a compact unit which is simple and cost effective to service.



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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.

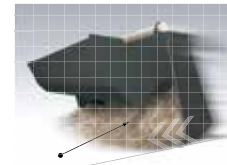
**3** This lifting kit means you can use a 3CX or 4CX ECO's excavator arm as a crane for object handling. A hose burst check valve (HBCV) on the boom, together with an audio warning alarm, are included.

## Hose reel.

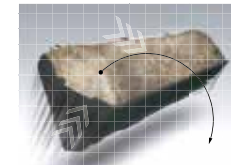
**4** The unique ability of a JCB backhoe to provide an independent hydraulic circuit for handheld tools is nothing new. But our latest 9m hose reel option means you get even greater working radius, while the reel design reduces the potential for on-site damage and protects the hose when it's not being 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.

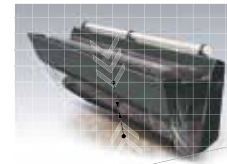
**5** This feature increases the versatility of your 3CX or 4CX because its profiled edge is ideal for handling round objects and awkward materials – logs, pipes or scrap metal, for example.



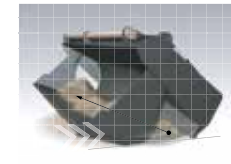
Dozing



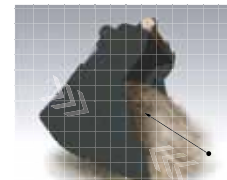
Loading



Grabbing

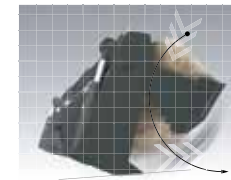


Grading



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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.





### 1. High versatility

With the combined hammer/bi-directional provide operation to a wide variety of single and double acting attachments.

### 2. Excellent visibility

No impact on the bonnet line with stage IV installation maintain excellent visibility to loader end.

### 3. Added protection

Shovel streetpads and rear stabiliser streetpads provide maximum protection when working on asphalt. Rear light guards project impact damage when on site.

### 4. Maximum traction

Switchable 4WD and optional automatic limited slip differential provide greater traction and maintain performance in soft ground conditions.

### 5. Easy repositioning

Powerslide allows the operator to sideshift the excavator across from left to right hydraulically, reducing ground damage and less repositioning of the machine therefore increasing productivity.



**4CX.** ENGINE SIZE: 81kW DIG DEPTH: 14, 15ft AFTER TREATMENT: Adblue and SCR (No DPF)

### 1. Ultimate power

Comes standard with our highest engine power – 81kW providing high levels of productivity at all levels.

### 2. High flotation

28" tyres provide less ground damage and make it easier to travel over soft ground.

### 3. Manoeuvrable

3 steer modes: 2 wheel steer, 4 wheel steer and crab steer provide excellent on-site manoeuvrability.

### 4. High ground clearance

Ideal for off terrain and heavy-duty applications.

### 5. Two machines in one

The ideal machine offering wheeled loader and excavator performance in one machine.



## LIVELINK, WORK SMARTER.

JCB LIVELINK USES THE LATEST SATELLITE TECHNOLOGY TO HELP YOU MONITOR AND MANAGE YOUR MACHINE REMOTELY ANYWHERE IN THE WORLD VIA WEB, EMAIL OR MOBILE. SO WHETHER YOU'RE AN OWNER OPERATOR OR RUN A FLEET, LIVELINK CAN RADICALLY IMPROVE THE EFFICIENCY AND SECURITY OF YOUR MACHINES.



### Machine efficiency.

**1** By providing information like idle time monitoring and fuel consumption, JCB LiveLink saves you money and improves productivity.

### Machine reliability.

**2** Accurate hours monitoring and service alerts improve maintenance planning and help rental companies with accurate charging. Technical alerts and maintenance history records help you manage your machines.

### Machine monitoring.

**3** Keep track of what your machine's been doing throughout the day with regular performance reports accessed via the LiveLink website.

### Machine security.

**4** LiveLink's real time geo-fencing alerts tell you when machines move out of predetermined zones. Curfew alerts inform you of unauthorised usage. JCB have a history of working with the police to recover stolen machines and tackle fuel theft.





## 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.

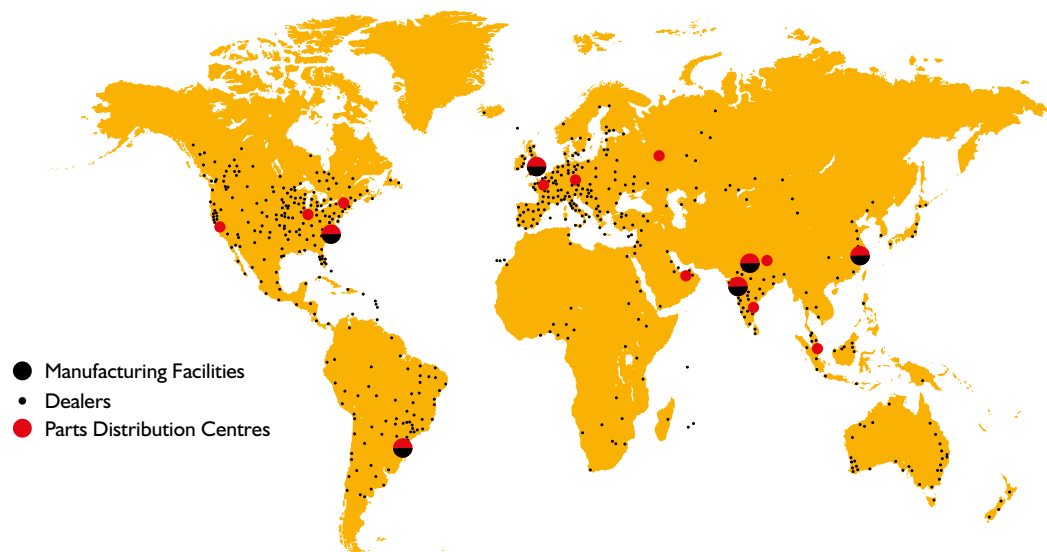
**2** The global network of JCB Parts Centres is another model of efficiency; with 16 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



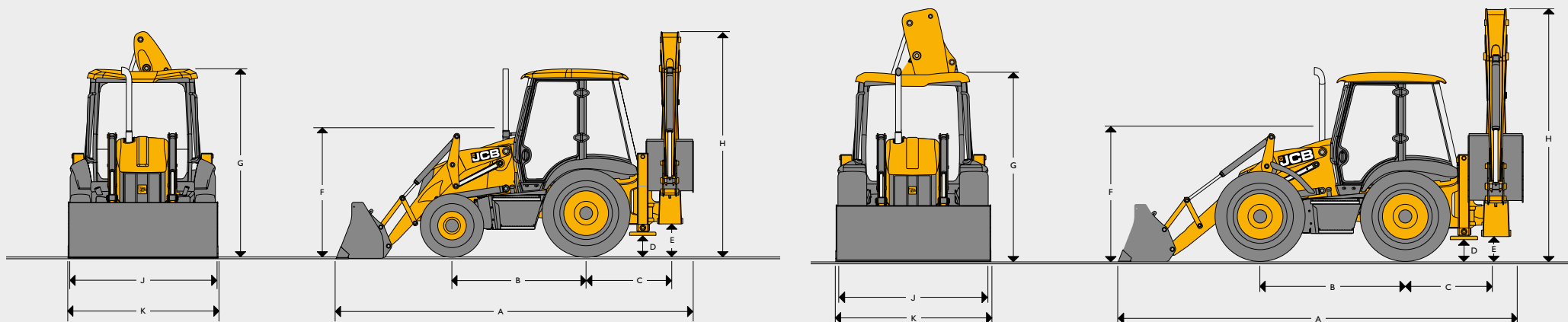
**3** JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast,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



*Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.*

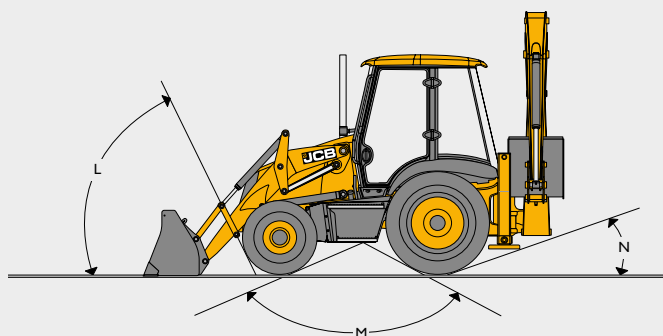


## STATIC DIMENSIONS



Dimensions in m		3CX Eco		3CX Eco Sitemaster		3CX Eco Contractor		3CX Eco Super	3CX Eco Super Sitemaster	4CX	4CX Sitemaster	4CX Super	4CX Super Sitemaster	4CN
A	Total travel length	5.62		5.62		5.62		5.91	5.91	5.91	5.91	5.91	5.91	7.53
B	Axle centreline distance	2.17		2.17		2.17		2.22	2.22	2.22	2.22	2.22	2.22	2.32
C	Slew centre to rear axle centre distance	1.36		1.36		1.36		1.36	1.36	1.36	1.36	1.36	1.36	1.20
D	Stabiliser feet clearance	0.37		0.37		0.37		0.33	0.33	0.34	0.34	0.34	0.34	0.41
E	Kingpost clearance	0.52		0.52		0.52		0.48	0.48	0.50	0.50	0.50	0.50	0.50
F	Steering wheel centre height	1.94		1.94		1.94		1.86	1.86	1.88	1.88	1.88	1.88	1.88
G	Cab roof height	3.03		3.03		3.03		2.98	2.98	3.03	3.03	3.03	3.03	3.03
H	Total travel clearance	3.61		3.61		3.61		3.48	3.56	3.54	3.62	3.97	3.97	3.91
J	Rear frame width	2.35	2.24*	2.35	2.24*	2.35	2.24*	2.24	2.24	2.36	2.36	2.36	2.36	2.36
K	Shovel width	2.35	2.23*	2.35	2.23*	2.35	2.23*	2.23	2.23	2.33	2.33	2.33	2.33	2.33
K	Shovel width - option	-	-	-	-	-	-	-	-	2.44	2.44	2.44	2.44	-

\* Narrow option



## GROUND LINE ANGLES

Machine model			3CX, 3CX Sitemaster, 3CX Sitemaster	3CX Super, 3CX Super Sitemaster	4CX All models
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 IIb Emissions)**

Model		3CX Eco, Sitemaster	3CX Eco, Sitemaster, Super, Super Sitemaster	3CX Eco Contractor	4CX All models
Engine standard		Stage IIb	Stage IV	Stage IV	Stage IV
Manufacturer		JCB	JCB	JCB	JCB
Aspiration		Turbocharged	Turbocharged	Turbocharged & Intercooled	Turbocharged & Intercooled
Displacement	litre	4.4	4.4	4.4	4.4
No. of cylinders		4	4	4	4
Bore	mm	103	103	103	103
Stroke	mm	132	132	132	132
Rated engine	rpm	2200	2200	2200	2200
<b>Power ratings</b>					
Rated ISO 14396 (SAE J1995 Gross)	kW	55	68	81	81
<b>Maximum torque</b>					
Max. torque rpm	Nm	400	433	516	516
Max. torque rpm	rpm	1200	1500	1500	1500

**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	1000 CCA (120 amp)
Pre-wire	Radio speakers (cab), beacon (all)
Horn	Controlled from both front and rear
Alternator	95 amp (55kW) 150 amp (68kW/109kW)
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 55kW	2WS 68kW			2WS 81kW		AWS 68kW		AWS	
Manufacturer	JCB	JCB	JCB	JCB	JCB	JCB	JCB	JCB	JCB	JCB
Type	Syncroshuttle	Syncroshuttle	Powershift	Autoshift	Powershift	Autoshift	Syncroshuttle	Powershift	Powershift	Autoshift
Gear selection	Manual	Manual	Powershift	Powershift	Powershift	Powershift	Manual	Powershift	Powershift	Powershift
TorqueLock	N/A	N/A	Optional	Optional	Standard	Optional	N/A	Optional	Standard	Optional
Gear 1	5.8	5.8	5.4	5.1	5.4	5.1	5.1	4.9	5.0	4.9
Gear 2	9.4	9.4	10.0	8.6	10.0	8.6	8.3	8.6	9.3	8.1
Gear 3	20.2	20.2	22.5	11.6	22.5	11.6	17.7	19.8	21.5	11
Gear 4	41.8	41.8	41.8	18.7	41.8	18.7	36.7	36.7	38.1	17.7
Gear 5	-	-	-	31.1	-	31.1	-	-	-	29.6
Gear 6	-	-	-	41.8	-	41.8	-	-	-	38.1

**OPERATING WEIGHTS**

Machine model		3CX	3CX Sitemaster	3CX Contractor	3CX Super	3CX Super Sitemaster	4CX	4CX Sitemaster	4CX Super	4CX Super Sitemaster	4CN
Fixed dipper	kg	7702	-	-	7999	-	8178	-	8394	-	-
Extended dipper	kg	8135	8135	8135	8435	8435	8585	8585	8880	8880	8846

Operating weight to ISO 6016 includes machine with 6-in-1 shovel, 24" excavator bucket and a full fuel tank and operator.  
Actual weight will vary depending on machine options.

FRONT AXLE				
Model	3CX 2WD	3CX 4WD, 3CX Sitemaster, 3CX Contractor	3CX Super, 3CX Super Sitemaster	4CX All models
Type	Flame cut bar	JCB steer drive with torque proportional	JCB 4WD steer drive with torque proportional	JCB epicydic 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 Contractor, 3CX Sitemaster	3CX Super, 3CX Super Sitemaster	4CX All models
Type	JCB epicydic hub reduction with torque proportional	JCB 4WD steer drive with torque proportional	JCB epicydic 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 Contractor, 3CX Sitemaster	3CX Super, 3CX Super Sitemaster	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	150	150
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

HYDRAULIC SYSTEM	
Open centre systems (piston pump) @ 2200rpm	l/min
Manual and EasyControl	165
Closed centre systems (piston pump) @ 2200rpm	l/min
Advanced EasyControl	165
	bar
System relief pressure	251

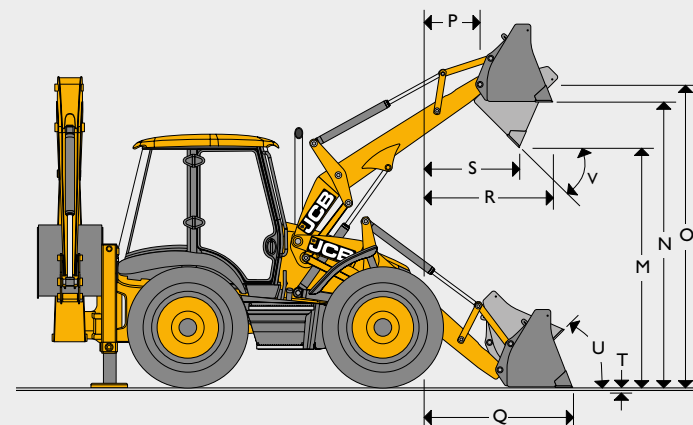
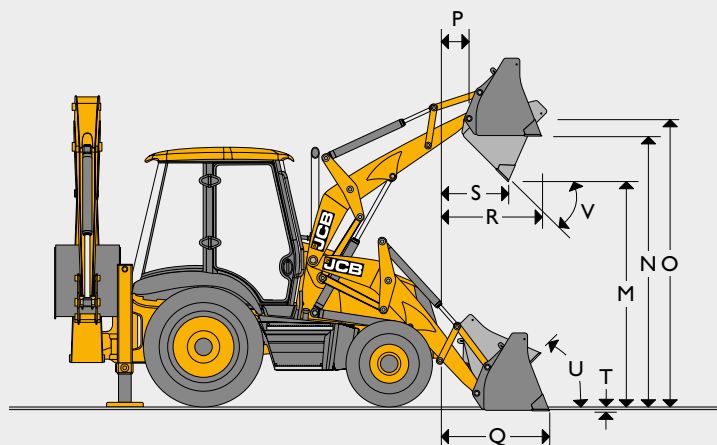
OPTIONAL ACCESSORIES	
<b>Tyres</b> - Michelin brand of tyres with a selection of traction/industrial tread in a crossply/radial construction, Sitemaster brand.	
<b>Transmission</b> - Powershift/Autoshift transmissions, JCB TorqueLock	
<b>Machine features</b> - JCB Power Slide, Grid heaters, Eberspacher cold start, Black and yellow trim kits	
<b>Machine and site protection</b> - Front bumper protection, Fuel tank guards, Stabiliser street pads, Shovel street pads, Rear light guards, Lubricity filter, Shovel clam ram guards, Reverse alarm, Biodegradable oil	
<b>Attachments</b> - Standard excavator buckets (300mm to 900mm), Deep profile excavator bucket (300mm to 940mm), Ditching buckets (1542mm to 1828.8mm), General purpose 6-in-1 front shovel (1 m³ to 1.3m³), Manual/hydraulic front quickhitch, Manual/hydraulic rear quickhitch, 3/8" Loader arm pipework, 5/8" Loader arm pipework, Hammer pipework, Bi-directional pipework, Hand-held tool circuit, 9m hose reel, Excavator lifting kits for EN474 and non-EN474 territories, Loader/excavator HBCV, Electric refuelling pump	
<b>Safety and security</b> - Reverse alarm.	

CAB CONFIGURATION		
Seat and comfort		Visibility
Mechanical suspension seat	●	Exterior mirrors ●
Air suspension seat	○	Interior rear view mirror ○
Seat head rest	○	Front wind screen heater ○
Arm rest	●	8 working lights ●
Seat belt	●	<b>Roof</b>
Heater	●	Yellow roof (Standard on Sitemaster) ●
Air conditioning	○	Black roof (Standard on 3CX Contractor) ○
Air conditioning (including In-cab cool box)	○	Beacon ○
Rasio speaker kit	●	<b>Controls</b>
<b>Doors and windows</b>		Dual pattern controls (ISO/SAE changeover) ○
Tinted glass	●	<b>Security</b>
Front windscreen wiper	●	Instrumental panel vandal guard ○
Rear windscreen wiper	●	Fire extinguisher ○
Rear one peace opening window	●	Key and keypad immobiliser (standard in UK) ○
Door ajar stays	○	Liveline (region specific) ●
<b>Steering column</b>		<b>Storage</b>
Tilted steering column	●	Side storage ●
Steering wheel knob	●	
Telescopic steering column	○	
● Standard ○ Option		

NOISE AND VIBRATION LEVELS		
Internal dB(A)	74dB(A) - (55 to 68kW engine)	75dB(A) - (81kW engine)
External dB(A)	102	
Vibration	Hand arm vibration 2.5m/s² - Whole body vibration 0.5m/s²	



## LOADER DIMENSIONS



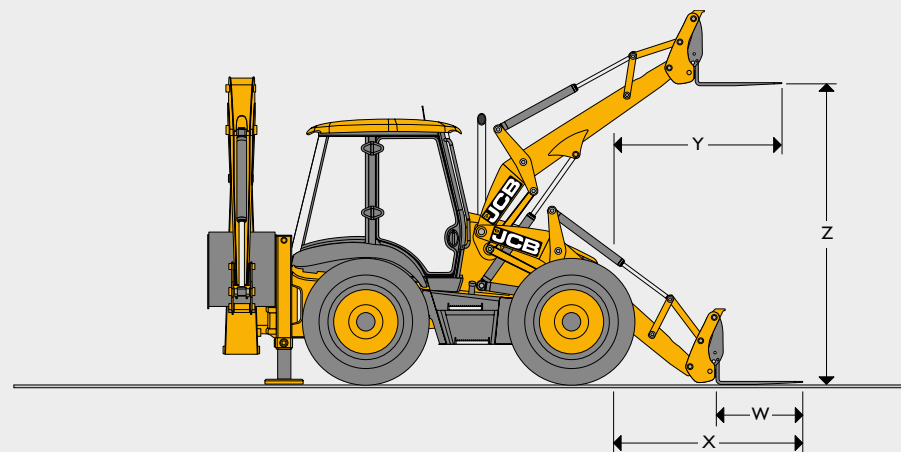
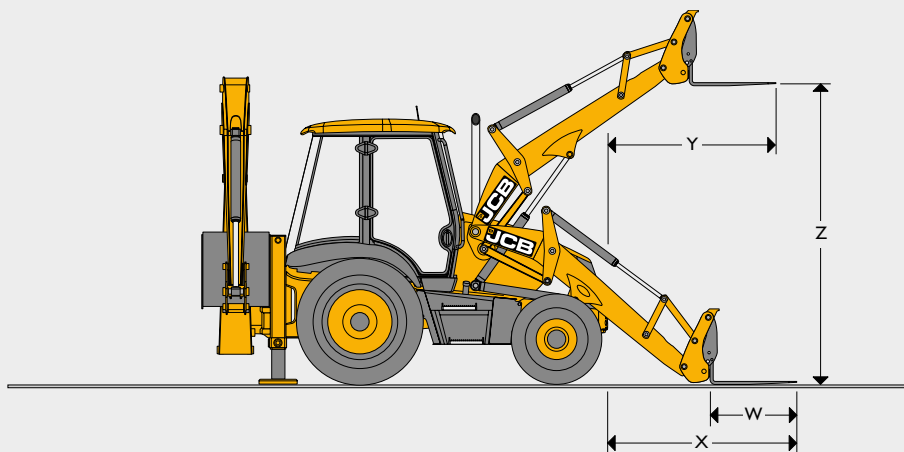
			3CX, 3CX Contractor, 3CX Sitemaster		3CX Super, 3CX Super Sitemaster		4CX, 4CX Super		4CX All models	
			GP shovel	6-in-1 shovel	GP shovel	6-in-1 shovel	GP shovel	6-in-1 shovel	GP shovel	6-in-1 shovel
M	Dump height	m	2.74	2.72	2.64	2.64	2.69	2.69	2.69	2.69
N	Load over height	m	3.23	3.20	3.16	3.13	3.21	3.18	3.21	3.18
O	Loader hinge pin height	m	3.45	3.45	3.41	3.41	3.46	3.46	3.46	3.46
P	Pin forward reach	m	0.36	0.36	0.47	0.47	0.41	0.41	0.41	0.41
Q	Reach at ground (toe plate horizontal)	m	1.42	1.37	1.52	1.50	1.42	1.39	1.42	1.39
R	Max. reach at full height	m	1.20	1.15	1.26	1.22	1.21	1.17	1.21	1.17
S	Reach at full height fully dumped	m	0.83	0.78	0.88	0.82	0.82	0.76	0.82	0.76
T	Dig depth	m	0.07	0.10	0.18	0.23	0.14	0.18	0.14	0.18
U	Roll back at ground	degrees	45°	45°	45°	45°	45°	45°	45°	45°
V	Dump angle	degrees	43°	43°	44°	44°	45°	45°	45°	45°
	Jaw opening width	m	-	0.95	-	0.95	-	0.95	-	0.95

## LOADER PERFORMANCE

Model		3CX		3CX Super, 3CX Super Sitemaster	3CX Super	3CX Sitemaster, 3CX Contractor (Standard lift)	4CX, 4CX Super		4CX All models	
		GP shovel	6-in-1 shovel	6-in-1 shovel	GP shovel	6-in-1 shovel	GP shovel	6-in-1 shovel	GP shovel	6-in-1 shovel
Loader breakout – shovel	kgf	6170	6531	6590	6227	6531	6227	6590	6227	6590
Loader breakout – arms	kgf	4942	4732	5730	5936	4732	5936	5730	5936	5730
Rated operating capacity 7'4"*	kgf	3479	3229	4378	4638	3229	–	–	–	–
Rated operating capacity 7'8"*	kgf	3439	3169	–	–	3169	–	–	–	–
Rated operating capacity	kg	–	–	–	–	–	4638	4378	4638	4378
Clamping force	kgf	–	2940	2945	–	2940	–	2945	–	2945

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

## LOADER ATTACHMENTS – Forklift Performance Data

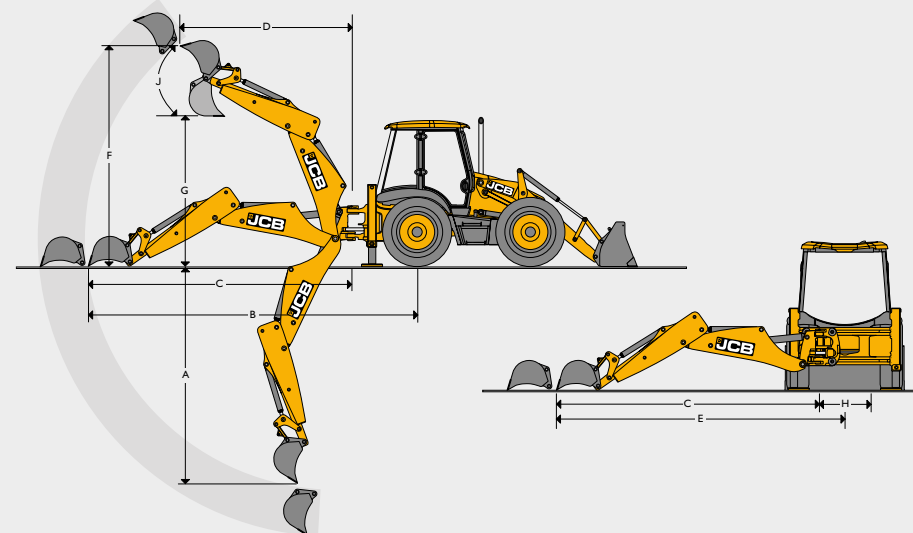


		3CX, 3CX Contractor, 3CX Sitemaster		3CX Super, 3CX Super Sitemaster		4CX Super, 4CX Sitemaster 4CX Super Sitemaster		4CX All models	
		6-in-1 shovel mounted forks	Quickhitch mounted forks	6-in-1 shovel mounted forks	Quickhitch mounted forks	6-in-1 shovel mounted forks	Quickhitch mounted forks	6-in-1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

## LOADER ATTACHMENTS – Direct Mount

Capacity SAE				
Width mm (ft-in)	G.P. Shovel		6 in 1	
	Rated m <sup>3</sup>	Struck	Rated m <sup>3</sup>	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			●	



[illegible]

## BACKHOE PERFORMANCE

			3CX, 3CX Sitemaster, 3CX Super, 3CX Super Sitemaster		3CX Contractor	4CX	4CX, 4CX Sitemaster	4CX Super, 4CX Super Sitemaster	4CN
			Standard Dipper	Extradig	Extradig	Standard Dipper	Extradig	Standard Dipper	Standard Dipper
Bucket tearout	kgf	Speed	543 l	5385	5385	543 l	5385	5387	6047
		Power	6324	6228	6228	6324	6228	6230	6929
Dipper tearout	kgf	Ext	—	2255	2255/ 2729*	—	2729	2675	—
		Ret	32 l7	3225	3225/ 3903*	3893	3903	3722	3893
Lift capacity of bucket pivot at full reach	kg	Ext	—	719	719/ 1082*	—	1082	1199	—
		Ret	1584	145 l	145 l/ 1885*	2046	1885	1556	1733

\* Heavy lift excavator

## BACKHOE ATTACHMENTS – Standard Profile Bucket

3CX & 4CX All models				
Width*	Capacity SAE		Weight (+ Teeth)	
mm	Rated m <sup>3</sup>	Rated m <sup>3</sup>	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	
mm	Rated m <sup>3</sup>	Struck m <sup>3</sup>	kg	Rated m <sup>3</sup>	Struck m <sup>3</sup>
1525	0.22	0.155	150	0.22	0.16
1830	0.26	0.186	172	0.26	0.19

## TAPERED BUCKETS – 3CX &amp; 4CX All models

Width*	Capacity SAE			
mm	Rated m <sup>3</sup>	Struck m <sup>3</sup>	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 m <sup>3</sup>	Struck m <sup>3</sup>	kg	Teeth		Rated m <sup>3</sup>	Struck m <sup>3</sup>	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 (1 in).

† Capacity in cu.yd.









**ONE COMPANY, OVER 300 MACHINES.**

Your nearest JCB dealer

### **3CX/4CX Backhoe Loader**

Gross power: 55kW (74hp) – 81kW (109hp) Maximum dig depth: 4m – 6.14m

Maximum shovel Capacity: 1.0m<sup>3</sup> – 1.3m<sup>3</sup>

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