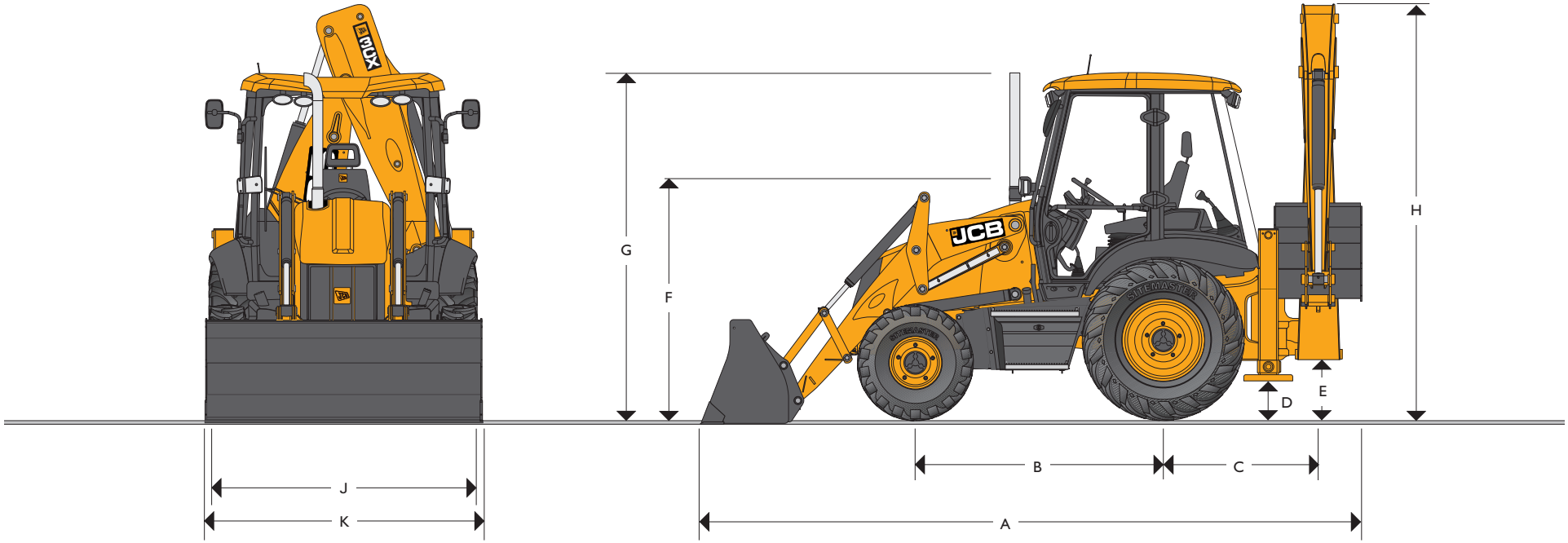
**3CX ECO** MAX. ENGINE POWER: 63kW (85hp) or 68.6kW (92hp) MAX. BACKHOE DIG DEPTH: 4.75 metres (15ft 7in) MAX. LOADER CAPACITY: 1.0m³ (1.32yd³)

**3CX ECO SITEMASTER** MAX. ENGINE POWER: 63kW (85hp) or 68.6kW (92hp) MAX. BACKHOE DIG DEPTH: 5.97 metres (19ft 7in) MAX. LOADER CAPACITY: 1.0m³ (1.32yd³)




## STATIC DIMENSIONS

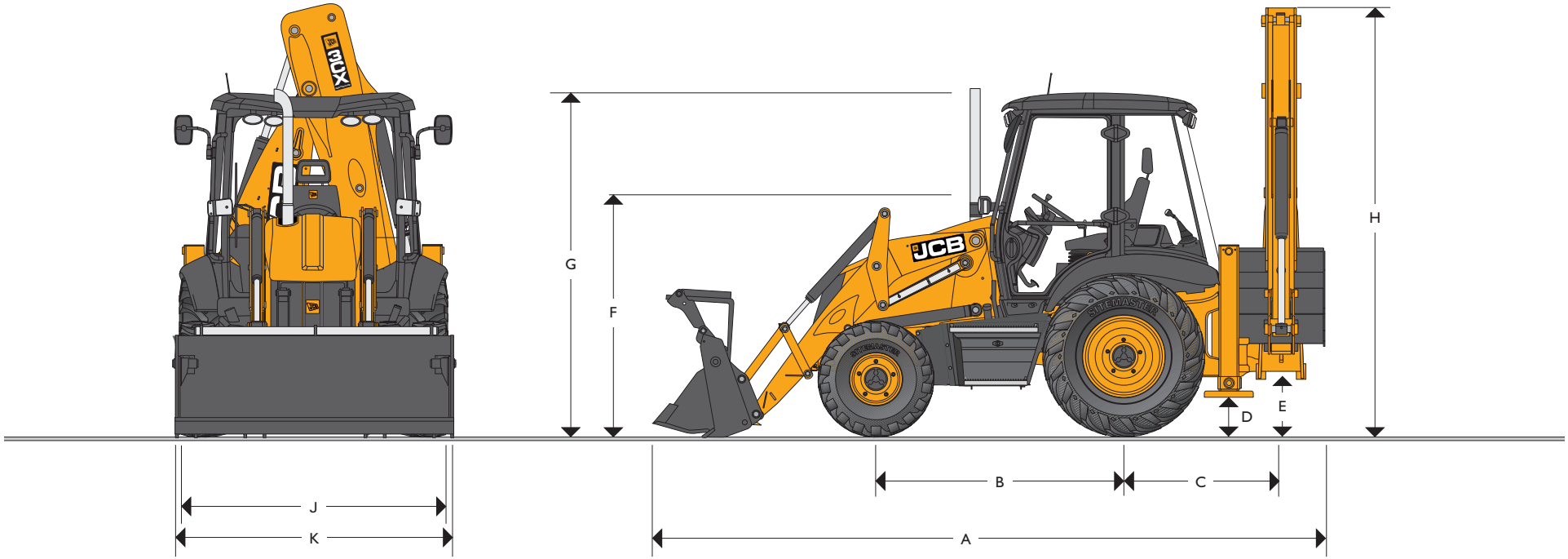
JCB Backhoe Loaders feature heavy duty one piece mainframe, componentised driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.

| Machine model | 3CX | 3CX Sitemaster |
|---|---|---|
| | m (ft-in) | m (ft-in) |
| A Total travel length | 5.62 (18-5) | 5.62 (18-5) |
| B Axle centreline distance | 2.17 (7-1) | 2.17 (7-1) |
| C Slew centre to rear axle centre distance | 1.36 (4-6) | 1.36 (4-6) |
| D Stabiliser feet clearance | 0.37 (1-2) | 0.37 (1-2) |
| E Kingpost clearance | 0.52 (1-8) | 0.52 (1-8) |
| F Steering wheel centre height | 1.94 (6-4) | 1.94 (6-4) |
| G Cab roof height | 3.03 (9-9) | 3.03 (9-9) |

| Machine model | 3CX | | 3CX Sitemaster | |
|---|---|---|---|---|
| | m (ft-in) | | m (ft-in) | |
| H Total travel clearance | 3.61 (11-10) | | 3.61 (11-10) | |
| J Rear frame width | 2.35 (7-8) | 2.24 (7-4)* | 2.35 (7-8) | 2.24 (7-4)* |
| K Shovel width | 2.35 (7-8) | 2.23 (7-4)* | 2.35 (7-8) | 2.23 (7-4)* |

* Narrow option

MAX. ENGINE POWER: 74.2kW (100hp) MAX. BACKHOE DIG DEPTH: 5.97 metres (19ft 7in) MAX. LOADER CAPACITY: 1.0m³ (1.32yd³)




## STATIC DIMENSIONS

JCB Backhoe Loaders feature heavy duty one piece mainframe, componentised driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.

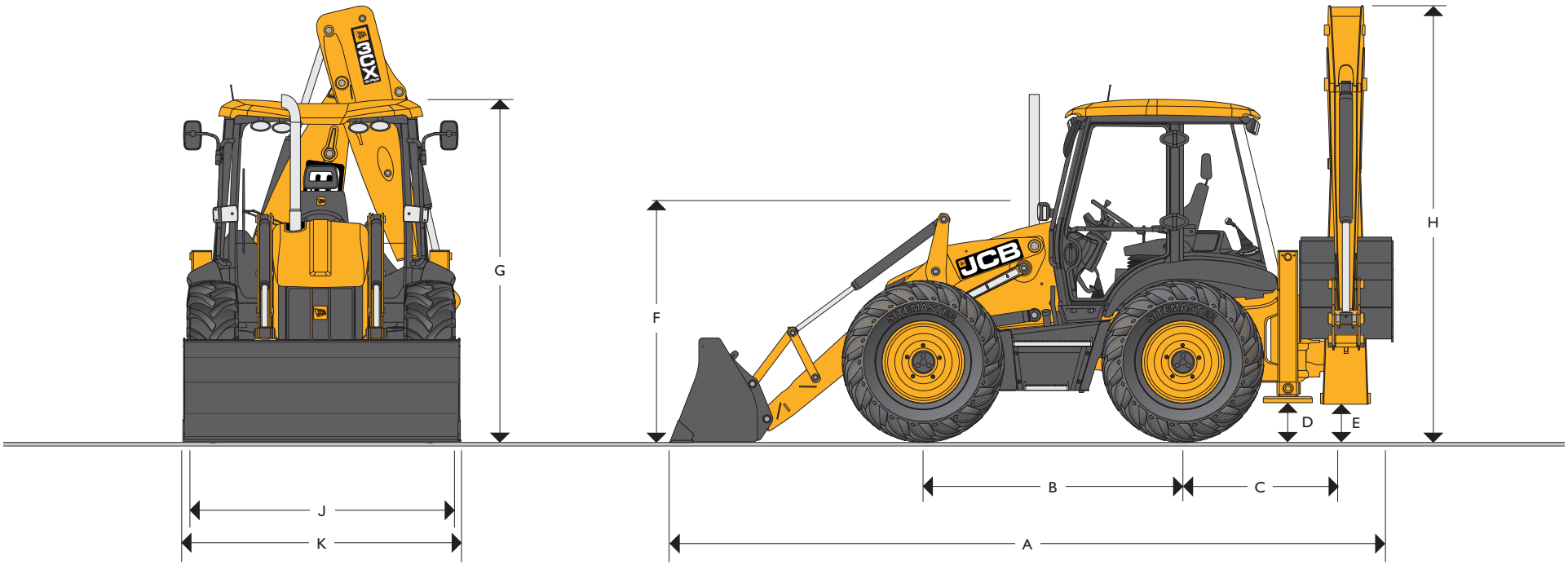
| Machine model | | 3CX Contractor |
|---|---|---|
| | | m (ft-in) |
| A | Total travel length | 5.62 (18-5) |
| B | Axle centreline distance | 2.17 (7-1) |
| C | Slew centre to rear axle centre distance | 1.36 (4-6) |
| D | Stabiliser feet clearance | 0.37 (1-2) |
| E | Kingpost clearance | 0.52 (1-8) |
| F | Steering wheel centre height | 1.94 (6-4) |
| G | Cab roof height | 3.03 (9-9) |

| Machine model | | 3CX Contractor | |
|---|---|---|---|
| | | m (ft-in) | |
| H | Total travel clearance | 3.61 (11-10) | |
| J | Rear frame width | 2.35 (7-8) | 2.24 (7-4)* |
| K | Shovel width | 2.35 (7-8) | 2.23 (7-4)* |

* Narrow option

**3CX ECO SUPER** MAX. ENGINE POWER: 68.6kW (92hp) MAX. BACKHOE DIG DEPTH: 4.72 metres (15ft 6in) MAX. LOADER CAPACITY: 1.0m³ (1.32yd³)

**3CX ECO SUPER SITEMASTER** MAX. ENGINE POWER: 68.6kW (92hp) MAX. BACKHOE DIG DEPTH: 5.93 metres (19ft 5in) MAX. LOADER CAPACITY: 1.0m³ (1.32yd³)




## STATIC DIMENSIONS

JCB Backhoe Loaders feature heavy duty one piece mainframe, componentised driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.

| Machine model | 3CX Super | 3CX Super Sitemaster |
|---|---|---|
| | m (ft-in) | m (ft-in) |
| A Total travel length | 5.91 (19-5) | 5.91 (19-5) |
| B Axle centreline distance | 2.22 (7-3) | 2.22 (7-3) |
| C Slew centre to rear axle centre distance | 1.36 (4-6) | 1.36 (4-6) |
| D Stabiliser feet clearance | 0.33 (1-1) | 0.33 (1-1) |
| E Kingpost clearance | 0.48 (1-7) | 0.48 (1-7) |

| Machine model | 3CX Super | 3CX Super Sitemaster |
|---|---|---|
| | m (ft-in) | m (ft-in) |
| F Steering wheel centre height | 1.86 (6-1) | 1.86 (6-1) |
| G Cab roof height | 2.98 (9-7) | 2.98 (9-7) |
| H Total travel clearance | 3.48 (11-5) | 3.56 (11-10) |
| J Rear frame width | 2.24 (7-4) | 2.24 (7-4) |
| K Shovel width | 2.23 (7-4) | 2.23 (7-4) |

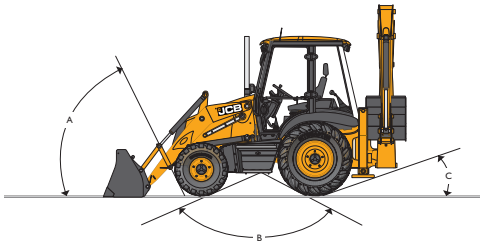
## GROUND LINE ANGLES

**3CX Super, 3CX Super Sitemaster**

A Approach angle 74°
B Interference angle/ramp to ground plane 118°
C Departure angle 19°

**3CX, 3CX Contractor, 3CX Sitemaster**

A Approach angle 66°
B Interference angle/ramp to ground plane 120°
C Departure angle 20°




## OPERATING WEIGHTS

Operating weight includes machine equipped with cab, 610mm excavator bucket and full fuel tank.

| Machine model | 3CX | 3CX Sitemaster | 3CX Contractor | 3CX Super | 3CX Super Sitemaster |
|---|---|---|---|---|---|
| | kg (lb) | kg (lb) | kg (lb) | kg (lb) | kg (lb) |
| Standard dipper and GP shovel | 7370 (16250) | – | – | 7725 (17000) | – |
| Extradig with 6-in-1 shovel and forks | 8070 (17800) | 8070 (17800) | 8070 (17800) | 8425 (18550) | 8425 (18550) |

## STEERING

Full power hydrostatic system utilising the main hydraulic pump via a steering priority valve. In the event of engine failure, emergency steering is maintained.

| Machine model | 3CX, 3CX Sitemaster, 3CX Contractor | 3CX Super, 3CX Super Sitemaster |
|---|---|---|
| Axles | Steer drive | Steer drive |
| Steering turns – lock to lock | 2¾ | 2¾ |
| | m (ft-in) | m (ft-in) |
| Kerb – kerb turning circle – unbraked | 8.1 (26-7) | 9.35 (30-8) |
| Loader clearance circle – unbraked | 10.4 (34-1) | 11.15 (36-7) |
| Kerb – kerb turning circle – braked | 6.9 (22-8) | 8.0 (26-3) |
| Loader clearance circle – braked | 9.5 (31-2) | 9.5 (31-2) |

(Depending on tyre size, ground conditions etc.)

## ENGINE SUPPORT SYSTEM

Engine support system is designed for ease of daily checks, routine maintenance and longer service intervals.

**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 14.5 psi (1.0 bar) suction fan. Pressurised recovery tank with integral filler neck.

## ENGINE (Stage II Emissions)

Direct injection diesel, belt driven water pump, cold start aid – territory dependent.

| Machine models | | 3CX 3CX Sitemaster | 3CX, 3CX Sitemaster, 3CX Super, 3CX Super Sitemaster | 3CX Contractor |
|---|---|---|---|---|
| Manufacturer | | JCB | JCB | JCB |
| Aspiration | | Naturally aspirated | Turbocharged | Turbocharged |
| Displacement | | 4.4 Ltr | 4.4 Ltr | 4.4 Ltr |
| 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 J1995 Gross) | kW (HP) | 63 (85) | 68.6 (92) | 74.2 (100) |
| **Maximum torque** | | | | |
| Rated ISO 14396 (SAE J1995 Gross) | Nm (lbf ft) | 320 (236) | 400 (295) | 425 (313.5) |
| Max. torque RPM | | 1200 | 1200 | 1300 |

## ENGINE (Stage III Emissions)

Direct injection diesel, belt driven water pump, cold start aid – territory dependent.

| Machine models | | 3CX 3CX Sitemaster | 3CX, 3CX Sitemaster, 3CX Super, 3CX Super Sitemaster | 3CX Contractor |
|---|---|---|---|---|
| Manufacturer | | JCB | JCB | JCB |
| Aspiration | | Turbocharged | Turbocharged | Turbocharged & Intercooled |
| Displacement | | 4.4 Ltr | 4.4 Ltr | 4.4 Ltr |
| 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 J1995 Gross) | kW (HP) | 63 (85) | 68.6 (92) | 74.2 (100) |
| **Maximum torque** | | | | |
| Rated ISO 14396 (SAE J1995 Gross) | Nm (lbf ft) | 362 (267) | 408 (301) | 440 (324.5) |
| Max. torque RPM | | 1200 | 1200 | 1300 |

## ELECTRICAL AND INSTRUMENTATION

12 volt negative ground, utilising wiring and connectors meeting IP69 water ingress test standard. Central fuse panel.

| | |
|---|---|
| **Gauges** | Tachometer, engine coolant temp, fuel level, hourmeter, clock. |
| **Warning system** | Audible and visual system for 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. |

## JCB TORQUE LOCK (Optional)

An industry exclusive, JCB Torque Lock enables an operator to dramatically reduce travel time and improve fuel efficiency during roading operations.

Torque Lock incorporates a clutch which, when engaged, enables a direct connection between the engine and gearbox. By "locking up" the torque converter slippage is eliminated. Torque Lock engages automatically in 4th gear (Powershift models) or "A" mode (Autoshift models).

Torque Lock reduces fuel consumption by up to 25%, maintains road speed up hills for longer and allows the machine to reach its destination quicker or increase its working radius.

Not available on Synchroshuttle models.

## REAR AXLE

JCB rear axles are designed and built specifically for backhoe loaders and accept a wide variety of tyre combinations.

| **Machine model** | **3CX, 3CX Contractor, 3CX Sitemaster** | **3CX Super, 3CX Super Sitemaster** |
|---|---|---|
| Type | JCB epicyclic hub reduction with torque proportional | JCB 4WD steer drive with torque proportional |
| Limited Slip | Option | Option |
| **Axle ratings** | **kg (lb)** | **kg (lb)** |
| Static load rating | 25000 (55116) | 25000 (55116) |
| Dynamic load rating | 12500 (27558) | 12500 (27558) |
| Steering ram | Powered track rod | Powered track rod |

## FRONT AXLE

JCB front axles are designed and built specifically for backhoe loaders and accept a wide variety of tyre combinations.

| **Machine model** | **3CX 2WD** | **3CX 4WD, 3CX Contractor, 3CX Sitemaster** | **3CX Super, 3CX Super Sitemaster** |
|---|---|---|---|
| Type | Flame cut bar | JCB steer drive with torque proportional | JCB 4WD steer drive with torque proportional |
| **Axle ratings** | **kg (lb)** | **kg (lb)** | **kg (lb)** |
| Static load rating | 16500 (36376) | 16500 (36376) | 25000 (55116) |
| Dynamic load rating | 8300 (18298) | 8300 (18298) | 12500 (27558) |
| Oscillation angle | 16° | 16° | 16° |
| Steering ram | Powered track rod | Powered track rod | Powered track rod |

## TRANSMISSION

The JCB Transmissions are designed and built specifically for JCB Backhoe Loaders. They feature synchronised shifting in all gears. Powershuttle between forward and reverse. Ground speeds are designed to maximise productivity.
Optional JCB 6-speed autoshift transmission features automatic upshift and downshift between 4th, 5th and 6th gear controlled by machine travel speed and incorporates a kickdown pedal to select first gear. The operator may use the Autoshift in manual mode when operator control of shift points is desired. The JCB Powershift transmission allows fast gear changing without losing speed or momentum on gradients. The integral torque converter and electrically operated reversing shuttle help this backhoe loader produce fast cycle times for real wheeled loader performance. Low 1st and 2nd gear ratios provide excellent tractive effort for loading and sitestripping. JCB transmissions feature a (SAHR) clutch park brake, hydraulic release, spring engaged.

| **Machine model** | **3CX Super, 3CX Super Sitemaster** | | **3CX, 3CX Sitemaster, 3CX Contractor** | | **3CX Contractor** |
|---|---|---|---|---|---|
| Manufacturer | JCB | JCB | JCB | JCB | JCB |
| Type | Syncroshuttle | Powershift | Syncroshuttle | Powershift | Autoshift |
| Torque converter | 305mm (12") | 305mm (12") | 305mm (12") | 305mm (12") | 305mm (12") |
| Torque converter ratio | 2.54:1 | 2.54:1 | 2.54:1 | 2.54:1 | 2.54:1 |
| Torque Lock | N/A | Option | N/A | Option | Option |
| Gears forward/reverse | 4/4 | 4/4 | 4/4 | 4/4 | 6/4 |
| Gear selection | Manual | Powershift | Manual | Powershift | Powershift |
| Shuttle control – F/R | Power shuttle | Power shuttle | Power shuttle | Power shuttle | Power shuttle |
| **Travel speeds** | **kph (mph)** | **kph (mph)** | **kph (mph)** | **kph (mph)** | **kph (mph)** |
| **Tyres equipped** | **16.9x24 Goodyear Sure Grip** | | **F: 12.5x18 R: 18.4x26 T219 JCB SM** | | **F: 12.5x18 R: 18.4x26 T219 JCB SM** |
| Gear 1 | 5.7 (3.5) | 4.9 (3.0) | 6.2 (3.9) | 5.4 (3.4) | 5.1 (3.2) F/6.8 (4.2) R |
| Gear 2 | 9.1 (5.7) | 8.6 (5.3) | 10.0 (6.2) | 10.0 (6.2) | 8.6 (5.3) F/8.4 (5.3) R |
| Gear 3 | 19.6 (12.2) | 19.8 (12.3) | 21.3 (13.2) | 22.5 (14.0) | 11.6 (7.2) F/22.8 (14.2) R |
| Gear 4 | 37.1 (23.1) | 37.1 (23.1) | 39.8 (24.7) | 38.3 (23.8) | 18.7 (11.6) F/29.5 (18.3) R |
| Gear 5 | – | – | – | – | 31.1 (19.3) F/– |
| Gear 6 | – | – | – | – | 38.3 (23.8) F/– |

## CAB

Excellent visibility (and safety) is provided by the extra large tinted glass areas of 6.4 sq m (70 sq ft). Cab frame is ROPS and FOPS approved for maximum operator protection. ISO standard 3471 and 3449 (SAE J1040 and J231).

- A fully adjustable seat with lumbar support combines with ergonomically positioned controls to minimise operator fatigue.
- The in-cab noise levels are the lowest in the business for maximum operator comfort.
- A radio location is provided as standard plus twin speakers for stereo sound.
- Cab provides easy access through a two door frame. Rear side windows open either partially or fully for extra ventilation. Standard features include: lap seat belt, 3 speed fresh air/recycle heater, front and rear screen wash/wipers, front and rear horn, exterior mirrors, and flat easy-clean floor.
- The instrument panel is positioned to the right-hand side for ease of viewing from either the loading or excavating position and has an optional lockable cover for vandal proofing. Engine speed, fuel and coolant temperature gauges, (and clock on cab builds) are mounted in the panel.
- A high performance air conditioning system is optionally available providing the operator with a cool working environment when working in high temperatures.
- Mechanical suspension seat gives the operator a comfortable operating position.
- An optionally available heated air suspension seat gives the operator the ultimate comfort with automatic compensation for weight.
- An in-cab hot drinks machine provides the operator with a hot beverage where site facilities don't exist.
- Optional heated front windscreen removes built up frost in minutes.
- Air-conditioning option further enhances operator comfort.

## EASYCONTROL (Optional)

JCB EasyControl offers smooth, low effort and productive backhoe operation, while reducing operator fatigue. Excavator control joysticks are integrated into the seat, providing increased legroom, improved visibility and hydraulic excavator ergonomics.
A proportional switch is mounted in the joystick to operate JCB's Extradig and optional auxiliary circuits are also available to operate various attachments. The low effort mechanical loader control incorporates a proportional switch to operate loader mounted attachments. Best in class hydraulic modulation combined with the greatest digging performance, means that the JCB EasyControl is unmatched in any backhoe loader. This option is available on 92hp and 100hp models.

## ADVANCED EASYCONTROL (Optional)

Advanced EasyControl is an alternative hydraulic control system available on select JCB 3CX and 4CX backhoe loaders. Building on the successful EasyControl system, it offers even higher levels of operator comfort, control and performance. Features include: seat mounted controls which operate both the excavator and loader; plus a telescopic steering column with integrated forward and reverse control for greater comfort. In addition, Advanced EasyControl boasts high output variable flow hydraulics which provides full flow on demand for increased fuel efficiency, faster digging cycles and maximum productivity and additional filtration for improved efficiency and reliability. This option available on 92hp and 100hp models only.

## POWER BRAKES

The JCB class leading hydraulic power brakes system is fitted as standard and ensures low effort, effective, fade-free braking. The self-adjusting, multi-disc arrangement is inboard mounted and is oil immersed for minimum maintenance and a long operating life.

- A 3 position switch allows the selection of 2 wheel drive with two wheel braking; 2 wheel drive with four wheel braking or 4 wheel drive with four wheel braking.
- Twin brake pedals provide tighter turning circle and enhanced steering control on slippery ground.
- Automatic compensation ensures 'straight' machine braking.
- Accumulator back-up provides maximum safety under all conditions and in the case of dead engine applies 4 wheel braking.
- Transmission logic and spring on / hydraulic release 4WD clutch means that the park brake is always applied to front and rear axles for effective braking.
- Increased back off in the brake packs reduces friction and saves fuel.
- Uses the main hydraulic system oil which eliminates the need for a separate brake oil reservoir which also reduces service costs.
- Class leading brakes have proportional braking effort throughout the pedal travel.
- Disc diameter: 220 mm (8.7 in). Friction area: 129,000 sq.mm (200 sq. in) per brake.
- For syncroshuttle transmissions, the independent parking brake is mounted on the input shaft of the rear axle and will hold the machine on 1:3 gradients. It is an over-centre type, adjustable within the cab, with transmission disconnect to prevent premature brake pad wear. Park brake disc diameter: 280mm (11 in). Friction area 5416 sq. mm (8.4 sq.in).
- For powershift transmissions, the integral park brake is a ball and ramp, oil immersed type located within the transmission and will hold the machine on 1:3 gradients. It is an over-centre type, adjustable within the cab, with transmission disconnect to prevent premature brake pad wear. There are 5 friction brake discs having an outside diameter of 127mm (5 in). Frictional area per brake disc is 47.65 sq. cm (7.39 sq. in) giving a total frictional area of 476.5 sq. cm (73.9 sq. in).

## TYRES

| | 3CX, Sitemaster | Contractor | Super, Super Sitemaster |
|---|---|---|---|
| Front | 12.5 x 18 x 10 Traction or Industrial | 16 x 20, 10PR Traction or Industrial | 14.9/14 x 24, 12PR Industrial |
| | 400/70 R18 Traction or Industrial | 400/70 R20 Traction or Industrial | 16.9/14 x 24, 12PR Industrial |
| | 340/80 R18 Traction | 12.5 x 20 x 10 Industrial | 460/70 x 24, Radial Traction |
| Rear | 16.9 x 28, 12PR Traction or Industrial | 18.4 x 26, 12PR Traction or Industrial | 14.9/14 x 24, 12PR Industrial |
| | 18.4 x 26, 12PR Traction or Industrial | 19.5L – R28 Traction | 16.9/14 x 24, 12PR Industrial |
| | 440/80 R28, Traction | 500/70 R28 Traction | 460/70 x 24, Radial Traction |
| | 480/80 x R26, Radial Industrial | | |

JCB branded traction and industrial, Michelin XMCL and Power CL, Goodyear IT520 and IT530 tyres.

## JCB SMOOTH RIDE SYSTEM (Optional)

The JCB Smooth Ride System (SRS) consists of a dry nitrogen and oil filled accumulator installed in line with the loader lift cylinders. When activated, the Smooth Ride System allows the loader arms to float. This action counteracts variations in road or site surfaces and provides the operator with a smooth ride. The JCB Smooth Ride System is manually controlled, via a rocker switch on the instrument panel, for maximum benefit and user flexibility.

## JCB POWERSLIDE (Optional)

Exclusive to JCB, this factory fit option enables the excavator's sideshift carriage to be hydraulically powered across the rearframe by the operation of a pedal or joystick mounted proportional switch (EasyControl and Advanced EasyControl) in the cab.
With this feature there is no need to "push" the carriage across with the bucket avoiding ground damage and the need to relocate the whole machine.

## SERVICE CAPACITIES

| Machine model | All models |
|---|---|
| | ltr (gal) |
| Cooling system | 18.5 (4.1) |
| Fuel tank | 160 (35.2) |
| Engine oil with filter | 15 (3.3) |
| Gearbox with filter | 16 (3.5) |
| Rear axle | 16 (3.5) |
| Front drive axle | 16 (3.5) |
| Hydraulic system incl. tank | 132 (29) |

## AUXILIARY CIRCUITS

The JCB hydraulic hand-held tool circuit, an industry exclusive, can run a variety of tools including breakers, pumps, and disc cutters, eliminates the need for separate power packs – also available is a 9m retractable hose reel.

Meets the EHTMA Class C tools operation.
Pressure 138 bar
Maximum flow 20 lpm

The JCB Hammer circuit has the ability to switch between low-flow and high-flow circuits to operate single flow attachments such as hammers, patch planers and compactors.

A combined hammer and bi-directional circuit is also available with the ability to switch between low-flow and high-flow circuits to operate the full range of attachments for incredible versatility.

## HYDRAULIC SYSTEM

The Open Centre system uses three gear pumps and Hydraulic Speed Control (HSC) with a power modulation valve that automatically varies hydraulic power to match digging conditions for extra performance, control and power.

- In the EcoDig mode the innovative three pump design allows excavating at lower RPM (up to 1700 RPM) to reduce fuel consumption and engine emissions by up to 15%, without reducing performance. (Manual and EasyControl machines only).
- A Power Modulation Valve automatically varies the hydraulic power to match digging conditions to improve performance and efficiency – automatically dumps one pump when 4th gear selected on powershift models.
- The HSC switch enables controlled use of hydraulic response depending upon application.
- An independent pump powers the Extradig dipper so that it can extend or retract without breaking the digging cycle. This allows faster cycle times and simultaneous use of the telescopic and normal excavator actions in operations such as grading and bank dressing.

The alternative Closed Centre system uses a single variable flow axial piston pump. This load sensing system matches flow to work demand improving productivity and efficiency. Both systems incorporate:

- Ergonomically positioned levers allowing excellent control of the loader and backhoe.
- A full flow 10 micron filter ensures that oil stays free of contaminants.

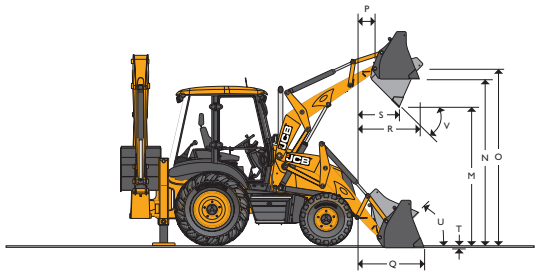
| Pump flows* | 3CX, 3CX Sitemaster | 3CX, 3CX Super, 3CX Sitemaster, 3CX Super Sitemaster 3CX Contractor | 3CX Contractor** |
|---|---|---|---|
| **Open centre systems (Gear pumps) @ 1700 rpm** | **l/min** | **l/min** | **l/min** |
| Manual Control (Gear pump) | | | |
| Pump 1 & 3 | 73 | 80 | 81 |
| Pump 2 | 51 | 64 | 73 |
| EasyControl | | | |
| Pump 1 & 3 | – | 80 | 81 |
| Pump 2 | – | 64 | 73 |
| **Closed centre systems (Piston pump) @ 2200 rpm** | **l/min** | **l/min** | **l/min** |
| Advanced EasyControl | – | 165 (32.3) | 165 (32.3) |
| | **bar (lbf/sq in)** | **bar (lbf/sq in)** | **bar (lbf/sq in)** |
| System relief pressure | 251 (3650) | 251 (3650) | 251 (3650) |

*Optimum flow **Territory specific

## OPTIONAL ACCESSORIES

- Front bumper bars – protect the front bonnet when loading into high sided lorries.
- Heated front windscreen.
- Stabiliser street pads.
- Eberspacher cold climate heater.
- Reverse alarm.

## LOADER DIMENSIONS – 3CX, 3CX Contractor, 3CX Sitemaster



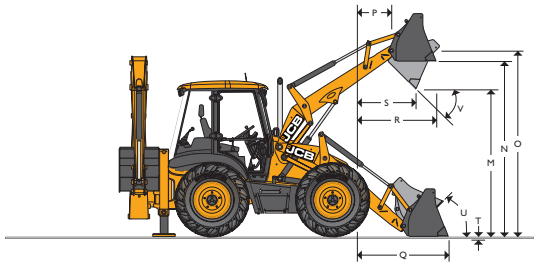

## LOADER DIMENSIONS – 3CX, 3CX Contractor, 3CX Sitemaster

| | | GP shovel | 6-in-1 shovel |
|---|---|---|---|
| | | m (ft-in) | m (ft-in) |
| M | Dump height | 2.74 (9-0) | 2.72 (8-11) |
| N | Load over height | 3.23 (10-7) | 3.20 (10-6) |
| O | Loader hinge pin height | 3.45 (11-4) | 3.45 (11-4) |
| P | Pin forward reach | 0.36 (1-2) | 0.36 (1-2) |
| Q | Reach at ground (toe plate horizontal) | 1.42 (4-8) | 1.37 (4-6) |
| R | Max. reach at full height | 1.20 (3-11) | 1.15 (3-9) |
| S | Reach at full height fully dumped | 0.83 (2-9) | 0.78 (2-7) |
| T | Dig depth | 0.07 (0-3) | 0.10 (0-4) |
| U | Roll back at ground | 45° | 45° |
| V | Dump angle | 43° | 43° |
| | Jaw opening width | – | 0.95 (3-1) |

## LOADER DIMENSIONS – Forklift Performance Data – 3CX, 3CX Contractor, 3CX Sitemaster

| | | | 6-in-1 shovel mounted forks | Quickhitch mounted forks |
|---|---|---|---|---|
| | | | m (ft-in) | m (ft-in) |
| W | Forks – tine length | | 1.1 (3-7) | 1.1 (3.7) |
| | Forks – tine width | | 0.08 (0-3.1) | 0.08 (0-3.1) |
| X | Forks reach at ground level | | 2.66 (8.9) | 2.03 (6-8) |
| Y | Forks reach at full height | | 2.25 (7-5) | 1.72 (5-8) |
| Z | Forks lift height – max. | | 2.92 (9-7) | 3.27 (10-9) |
| | Fork spacing – min | | 0.2 (0-8) | 0.2 (0-8) |
| | Fork spacing – max | | 2.17 (7-3) | 1.03 (3-4) |
| | SWL @ 500mm load centres | kg (lb) | 1000 (2205) | 2000 (4410) |

## LOADER DIMENSIONS – 3CX Super, 3CX Super Sitemaster




## LOADER DIMENSIONS – 3CX Super, 3CX Super Sitemaster

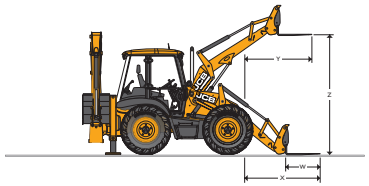
| | | G.P. shovel | 6-in-1 shovel |
|---|---|---|---|
| | | m (ft-in) | m (ft-in) |
| M | Dump height | 2.64 (8-8) | 2.64 (8-8) |
| N | Load over height | 3.16 (10-4) | 3.13 (10-3) |
| O | Pin height | 3.41 (11-2) | 3.41 (11-2) |
| P | Pin forward reach | 0.47 (1-6) | 0.47 (1-6) |
| Q | Reach at ground (toe plate horizontal) | 1.52 (5-0) | 1.50 (4-11) |
| R | Max. reach at full height | 1.26 (4.2) | 1.22 (4-0) |
| S | Reach at full height fully dumped | 0.88 (2-10) | 0.82 (2-8) |
| T | Dig depth | 0.18 (0-7) | 0.23 (0-9) |
| U | Rollback at ground | 45° | 45° |
| V | Dump angle | 44° | 44° |
| | Jaw opening width | – | 0.95 (3-1) |

## LOADER ATTACHMENTS – Direct Mount – All models

Loader buckets are listed according to size and application. All buckets are drilled to accept optional auxiliary cutting edge or teeth. Flat top box section provides rigidity and assists in bucket levelling.

| | Capacity SAE | |
|---|---|---|
| Width mm (ft-in) | Rated $m^3$ ($yd^3$) | Struck $m^3$ ($yd^3$) |
| | G.P. shovel | |
| 2235 (7-4) | 1.0 (1.32) | 0.83 (1.09) |
| 2350 (7-8) | 1.1 (1.44) | 0.91 (1.19) |
| | 6-in-1 shovel | |
| 2235 (7-4) | 1.0 (1.32) | 0.76 (1.00) |
| 2350 (7-8) | 1.0 (1.32) | 0.76 (1.00) |

## LOADER ATTACHMENTS



## LOADER ATTACHMENTS – Forklift Performance and Data – 3CX Super, 3CX Super Sitemaster

| | | 6-in-1 Shovel mounted forks | Quickhitch mounted forks |
|---|---|---|---|
| | | m (ft-in) | m (ft-in) |
| W | Fork length | 1.1 (3-7) | 1.1 (3-7) |
| | Section width | 0.08 (0-3⅛) | 0.08 (0-3⅛) |
| X | Reach at ground | 2.78 (9-1) | 2.18 (7-2) |
| Y | Reach at full height | 2.38 (7-10) | 1.81 (5-11) |
| Z | Fork lift height | 2.85 (9-4) | 3.23 (10-7) |
| | Fork spacing – min | 0.2 (0-8) | 0.2 (0-8) |
| | Fork spacing – max | 2.17 (7-3) | 1.03 (3-4) |
| | SWL @ 500mm load centres kg (lb) | 1000 (2205) | 2000 (4410) |

Integrated Quickhitch and Forks are unique to JCB and speeds up attachment changeover times and increases productivity. Mechanical or hydraulic Quickhitch versions are available and with the shovel removed, the flip over forks maximise fork lift capacity to 2000kg and increases visibility to the load.

## LOADER PERFORMANCE

| | 3CX | 3CX | 3CX Super, 3CX Super Sitemaster |
|---|---|---|---|
| | kgf (lbf) | kgf (lbf) | kgf (lbf) |
| Shovel type | GP shovel | 6 in 1 | 6 in 1 |
| Loader breakout – shovel | 6170 (13603) | 6531 (14398) | 6590 (14498) |
| Loader breakout – arms | 4942 (10895) | 4732 (10432) | 5730 (12606) |
| Rated operating capacity 7'4"* | 3479 (7670) | 3229 (7119) | 4378 (9631) |
| Rated operating capacity 7'8"* | 3439 (7582) | 3169 (6986) | – |
| Clamping force | – | 2940 (6480) | 2945 (6479) |
| | 3CX Super | 3CX Sitemaster, 3CX Contractor (Standard lift) | 3CX Contractor (Heavy lift) |
| Shovel type | GP shovel | 6 in 1 | 6 in 1 |
| Loader breakout – shovel | 6227 (13699) | 6531 (14398) | 6531 (14398) |
| Loader breakout – arms | 5936 (13059) | 4732 (10432) | 6203 (13675) |
| Max. lift capacity 7'4" | 4638 (10203) | 3229 (7119) | 4308 (9498) |
| Max. lift capacity 7'8" | – | 3169 (6986) | 4248 (9365) |
| Clamping force | – | 2940 (6480) | 2940 (6480) |

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

## BACKHOE ATTACHMENTS – Standard Profile Bucket

| Width* | Capacity SAE | | Weight (+ Teeth) | |
|---|---|---|---|---|
| mm (in) | Rated m³ (ft³) | Struck m³ (ft³) | kg (lb) | Teeth |
| 229 (9) | 0.04 (1½) | 0.03 (1) | 95 (209) | 0 |
| 305 (12)† | 0.06 (2⅛) | 0.05 (1¾) | 102 (225) | 3 |
| 356 (14)† | 0.075 (2½) | 0.06 (2) | 105 (231) | 3 |
| 400 (16)† | 0.09 (3) | 0.07 (2½) | 109 (240) | 3 |
| 457 (18)† | 0.12 (4¼) | 0.09 (3) | 116 (256) | 3 |
| 610 (24)† | 0.17 (6) | 0.13 (4½) | 140 (310) | 4 |
| 800 (32)† | 0.24 (8½) | 0.17 (6) | 162 (355) | 5 |
| 950 (37)† | 0.30 (10½) | 0.21 (7¼) | 198 (435) | 5 |

* Including sidecutters. Width less sidecutters deduct 25mm (1in).
† Available with additional wear strips to give added strength and rigidity.

## DITCHING BUCKETS

| Width* | Capacity SAE | | Weight |
|---|---|---|---|
| mm (in) | Rated m³ (ft³) | Struck m³ (ft³) | kg (lb) |
| 1525 (60) | 0.22 (7¾) | 0.155 (5½) | 150 (330) |
| 1830 (72) | 0.26 (9) | 0.186 (6½) | 172 (379) |

## BACKHOE ATTACHMENTS – Deep Profile Bucket

| Width* | Capacity SAE | | Weight (+ Teeth) | |
|---|---|---|---|---|
| mm (in) | Rated m³ (ft³) | Struck m³ (ft³) | kg (lb) | Teeth |
| 305 (12) | 0.09 (3) | 0.07 (2½) | 102 (225) | 3 |
| 356 (14) | 0.11 (4) | 0.09 (3¼) | 117 (257) | 3 |
| 457 (18) | 0.16 (5½) | 0.13 (4½) | 122 (269) | 3 |
| 610 (24) | 0.23 (8) | 0.18 (6¼) | 142 (314) | 4 |
| 800 (32) | 0.30 (10½) | 0.24 (8½) | 163 (359) | 5 |
| 950 (37) | 0.38 (½)† | 0.30 (10½) | 183 (403) | 5 |
| 1100 (43) | 0.48 (⅜)† | 0.34 (12) | 203 (448) | 6 |

* Including sidecutters. Width less sidecutters deduct 25mm (1in). † Capacity in cu.yd.

## TAPERED BUCKETS

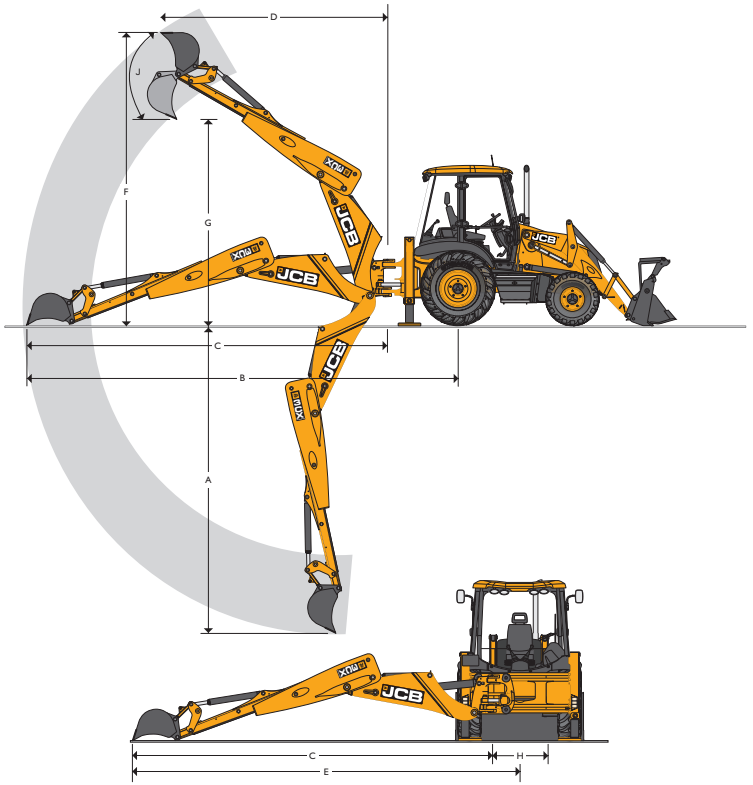
| Width* | Capacity SAE | | | |
|---|---|---|---|---|
| mm (in) | Rated m³ (ft³) | Struck m³ (ft³) | Angle degrees | Teeth |
| 381–1676 (15–66) | 0.07 (2½) | 0.06 (2) | 30 | 2 |
| 305–1067 (12–42) | 0.12 (4½) | 0.10 (3½) | 60 | 2 |

## BACKHOE DIMENSIONS

| Model | | 3CX<br>3CX Sitemaster<br>3CX Contractor | 3CX<br>3CX Sitemaster<br>3CX Contractor |
|---|---|---|---|
| | | Standard Dipper | Extradig |
| | | m (ft-in) | m (ft-in) |
| A SAE max dig depth | Ext | – | 5.46 (17-11) |
| | Ret | 4.24 (13-11) | 4.24 (13-11) |
| SAE 2ft flat bottom | Ext | – | 5.43 (17-10) |
| | Ret | 4.21 (13-10) | 4.21 (13-10) |
| Maximum dig depth with deep profile bucket | Ext | – | 5.97 (19-7) |
| | Ret | 4.75 (15-7) | 4.75 (15-7) |
| B Reach – ground level to rear wheel centre | Ext | – | 7.87 (25-10) |
| | Ret | 6.72 (22-1) | 6.72 (22-1) |
| C Reach – ground level to slew centre | Ext | – | 6.52 (21-5) |
| | Ret | 5.37 (17-7) | 5.37 (17-7) |
| D Reach – at full height to slew centre | Ext | – | 3.66 (12-0) |
| | Ret | 2.74 (9-0) | 2.74 (9-0) |
| E Side reach – to centre line of machine | Ext | – | 7.09 (23-3) |
| | Ret | 5.94 (19-6) | 5.94 (19-6) |
| F SAE operating height | Ext | – | 6.35 (20-10) |
| | Ret | 5.53 (18-2) | 5.53 (18-2) |
| G Maximum loadover height | Ext | – | 4.72 (15-6) |
| | Ret | 3.84 (12-7) | 3.84 (12-7) |
| SAE loadover height | Ext | – | 4.32 (14-2) |
| | Ret | 3.4 (11-3) | 3.4 (11-3) |
| H Total kingpost travel | | 1.16 (3-10) | 1.16 (3-10) |
| Narrow rear frame option | | 1.05 (3-5) | 1.05 (3-5) |
| J Bucket rotation | Speed | 201° | 201° |

## BACKHOE PERFORMANCE – 3CX, 3CX Sitemaster, 3CX Super, 3CX Super Sitemaster

| | | Standard Dipper | Extradig |
|---|---|---|---|
| | | kgf (lbf) | kgf (lbf) |
| Bucket tearout | Speed | 5431 (11948) | 5385 (11847) |
| | Power | 6324 (13912) | 6228 (13701) |
| Dipper tearout | Ext | – | 2255 (4961) |
| | Ret | 3217 (7077) | 3225 (7095) |
| | | kg (lb) | kg (lb) |
| Lift capacity of bucket pivot at full reach | Ext | – | 719 (1582) |
| | Ret | 1584 (3485) | 1451 (3192) |

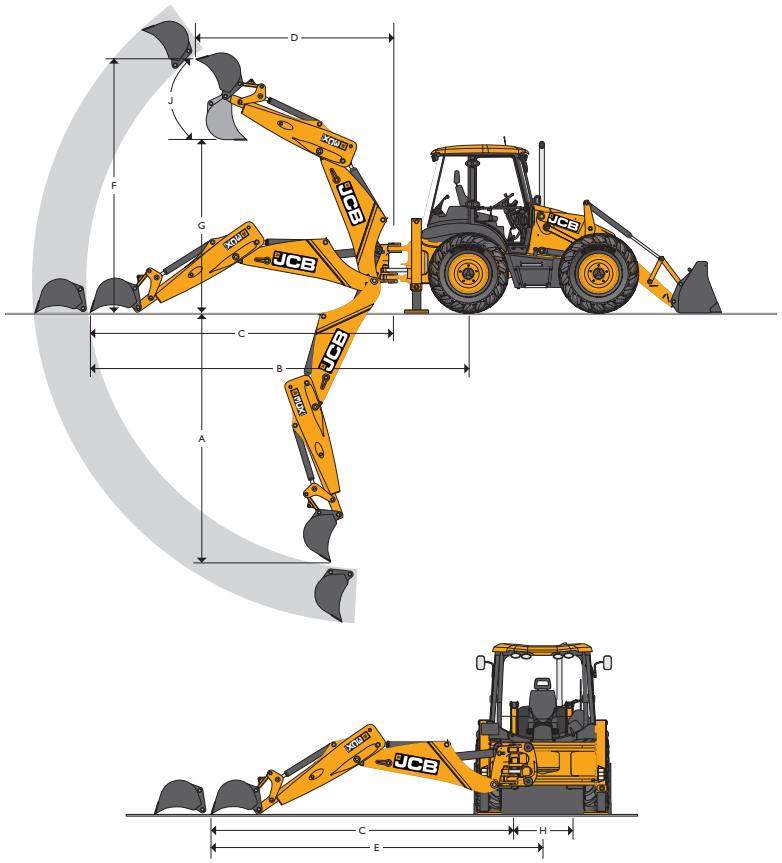



## BACKHOE PERFORMANCE – 3CX Contractor

| | | kgf (lbf) |
|---|---|---|
| Bucket tearout | Speed | 5385 (11847) |
| | Power | 6228 (13701) |
| Dipper tearout – standard lift excavator | Ext | 2255 (4961) |
| | Ret | 3225 (7095) |
| Dipper tearout – heavy lift excavator | Ext | 2729 (6004) |
| | Ret | 3903 (8587) |
| Lift capacity of bucket pivot at | Ext | 719 (1582) |
| Full reach – standard lift excavator | Ret | 1451 (3192) |
| | | kg (lb) |
| Lift capacity of bucket pivot at full reach – | Ext | 1082 (2380) |
| heavy lift excavator | Ret | 1885 (4147) |

## BACKHOE DIMENSIONS

| Model | | 3CX Super | 3CX Super & 3CX Super Sitemaster |
|---|---|---|---|
| | | Standard dipper | Extradig |
| | | m (ft-in) | m (ft-in) |
| A SAE max dig depth | Ext | – | 5.58 (18-4) |
| | Ret | 4.37 (14-4) | 4.37 (14-4) |
| SAE 2ft flat bottom | Ext | – | 5.55 (18-3) |
| | Ret | 4.34 (14-3) | 4.34 (14-3) |
| Maximum dig depth with deep profile bucket | Ext | – | 5.93 (19-5) |
| | Ret | 4.72 (15-6) | 4.72 (15-6) |
| B Reach – ground level to rear wheel centre | Ext | – | 7.88 (25-10) |
| | Ret | 6.74 (22-1) | 6.74 (22-1) |
| C Reach – ground level to slew centre | Ext | – | 6.54 (21-5) |
| | Ret | 5.40 (17-9) | 5.40 (17-9) |
| D Reach – at full height to slew centre | Ext | – | 3.75 (12-4) |
| | Ret | 2.82 (9-3) | 2.82 (9-3) |
| E Side reach – to centre line of machine | Ext | – | 7.09 (23-3) |
| | Ret | 5.94 (19-6) | 5.94 (19-6) |
| F SAE operating height | Ext | – | 6.20 (20-4) |
| | Ret | 5.39 (17-8) | 5.39 (17-8) |
| G Maximum loadover height | Ext | – | 4.67 (15-4) |
| | Ret | 3.78 (12-5) | 3.78 (12-5) |
| SAE loadover height | Ext | – | 4.22 (13-10) |
| | Ret | 3.33 (10-11) | 3.33 (10-11) |
| H Total kingpost travel | | 1.05 (3-5) | 1.05 (3-5) |
| J Bucket rotation | Speed | 201° | 201° |



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By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in the world.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with a global sales and service network of more than 650 dealers and agents, we aim to deliver the best customer support in the industry.

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