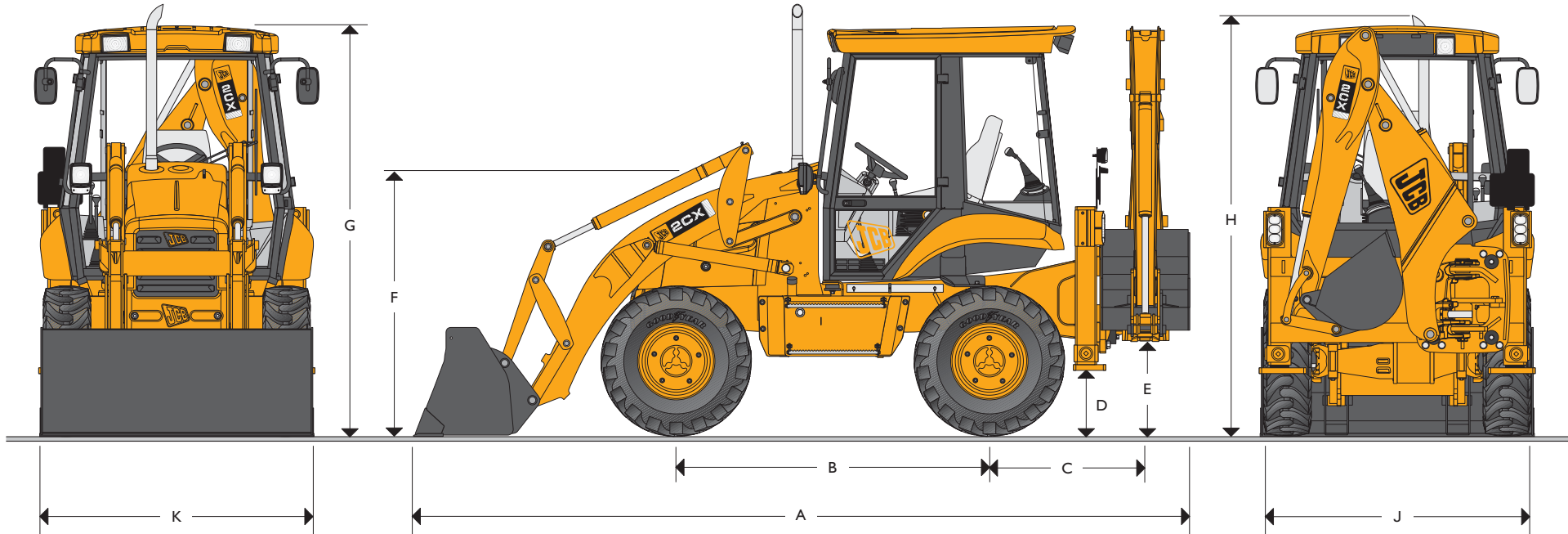




JCB BACKHOE LOADER | 2CX



MAX. ENGINE POWER 55.3kW (74.2hp)
 MAX. BACKHOE DIG DEPTH (STANDARD DIPPER): 3.05 metres (10ft)
 MAX. LOADER CAPACITY: 0.6m³ (0.785yd³)



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	2CX
	m (ft-in)
A Total travel length	5.13 (16-10)
B Axle centreline distance	1.99 (6-0)
C Slew centre to rear axle centre distance	1.13 (3-8)
D Stabiliser feet clearance	0.31 (1-0)
E Kingpost clearance	0.49 (1-7)

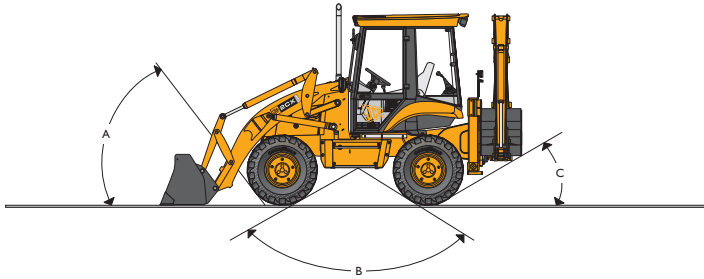
Machine model	2CX
	m (ft-in)
F Steering wheel centre height	1.76 (5-9)
G Cab roof height	2.65 (8-8)
H Total travel clearance (standard dipper)	2.72 (8-11)
J Rear frame width	1.85 (6-1)
K Shovel width	1.85 (6-1)



JCB BACKHOE LOADER | 2CX



GROUND LINE ANGLES



- A Approach angle 45°
- B Interference angle/ramp to ground plane 130°
- C Departure angle 27°

OPERATING WEIGHTS

Operating weight includes machine equipped with 610mm excavator bucket, Extradig 6-in-1 shovel with forks and full fuel tank.

Machine model	2CX
	kg (lb)
Weight	6354 (14008)

ENGINE

Four cylinder, direction injection diesel. Belt driven water pump, spin-on oil and fuel filters, water separator, dual element air cleaner, cold start aid.

Machine model	2CX	
Displacement	4.4 Ltr	
No. of cylinders	4	
Bore size	mm	103
Stroke	mm	132
Rated engine RPM	2200	
Power ratings		
Gross ISO/TR 14396 and SAE J1995	kW (HP)	55.3 (74.2)
SAE net ISO 9249 (EEC 80/1269 and SAE J1349)	kW (HP)	51.5 (69.1)
Torque ratings		
Gross ISO/14396 and SAE J1995	Nm (lbf ft)	305 (225)
Net ISO/9249 (EEC 80/1269) and SAE J1349	Nm (lbf ft)	300 (221.3)
Max. torque RPM	1200	

STEERING

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

Machine model	2CX
Steering axles	Front and rear
Steering turns – lock to lock	4
	m (ft-in)
Kerb – kerb turning circle – unbraked – 4WS	6.85 (22-6)
Kerb – kerb loader clearance circle – unbraked – 4WS	8.71 (28-7)

(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 spin-on cartridge plus water/sediment separator.
Air cleaner	Dual, dry element cyclonic type.
Oil filter and lubrication	Full flow, spin-on type filter.
Cooling system	Hot climate specification, pressurised 17.4 psi (1.2 bar) suction fan. Pressurised recovery tank.

ELECTRICAL AND INSTRUMENTATION

12 volt negative ground, utilising wiring and connectors meeting IP69 water ingress test standard. Central fuse panel supplemented with main circuit breakers at battery positive terminal.

Gauges	Tachometer, engine coolant temp, fuel level, hourmeter clock.
Warning system	Audible and visual system for engine oil, transmission, park brake, battery, air cleaner, alternator.
Battery	850 CCA.
Pre-wire	Radio speakers (cab), beacon (all).
Horn	Controlled from both front and rear.
Alternator	95 amp.
Front working lights	2 twin beam fixed position.
Rear working lights	2 adjustable.



JCB BACKHOE LOADER | 2CX



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 production.

Machine model	2CX
Manufacturer	JCB
Type	Syncroshuttle
Torque converter	280mm (11")
Torque converter ratio	2.78:1
Gears forward/reverse	4/4
Gear selection	Manual
Shuttle control – F/R	Power shuttle
Travel speeds	kph (mph)
Tyres equipped – front 12.5x18	
Gear 1	6.1 (3.8)
Gear 2	10.4 (6.5)
Gear 3	21.3 (13.2)
Gear 4	34.2 (21.3)

FRONT AXLE

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

Machine model	2CX
Type	JCB Max-trac steer drive torque proportioning
Axle ratings	kg (lb)
Static load rating	5989 (13200)
Dynamic load rating	2995 (6600)
Oscillation angle	9.5°
Steering ram	Double acting

REAR AXLE

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

Machine model	2CX
Type	JCB Max-trac torque proportioning with outboard planetary drive
Limited slip	
Axle ratings	kg (lb)
Static load rating	5989 (13200)
Dynamic load rating	2995 (6600)

CAB

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

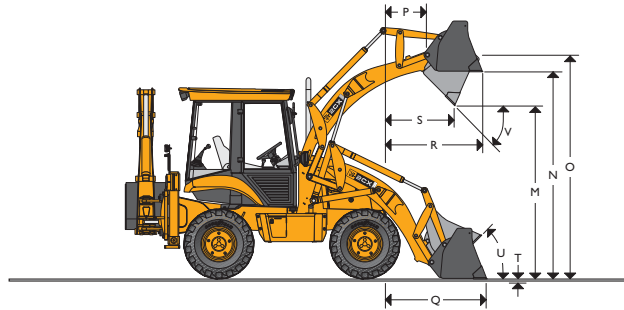
- A fully adjustable seat with lumbar support combines with ergonomically positioned controls to minimise operator fatigue.
- The in-cab noise levels are the lowest in the business for maximum operator comfort.
- A radio location is provided as standard plus twin speakers for stereo sound.
- Cab provides easy access through a left hand single door. Standard features include: lap seat belt, 3 speed fresh air/recycle heater, front and rear screen wash/wipers (cab), 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.
- Fixed steer column.
- Large opening rear window (cab).
- Static or mechanical suspension seat gives the operator a comfortable operating position.
- 12V power supply.



JCB BACKHOE LOADER | 2CX



LOADER DIMENSIONS



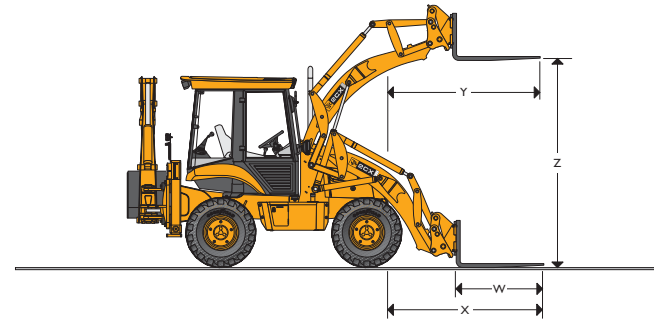
LOADER DIMENSIONS

	GP shovel	6-in-1 shovel
	m (ft-in)	m (ft-in)
Overall width with bucket	2.00 (6-7)	2.00 (6-7)
M Dump height	2.49 (8-2)	2.48 (8-2)
N Load over height	2.99 (9-10)	2.99 (9-10)
O Loader hinge pin height	3.24 (10-8)	3.24 (10-8)
P Pin forward reach	0.33 (1-1)	0.33 (1-1)
Q Reach at ground (toe plate horizontal)	1.43 (4-8)	1.44 (4-9)
R Max. reach at full height	1.13 (3-9)	1.14 (3-9)
S Reach at full height fully dumped	0.71 (2-4)	0.71 (2-4)
T Dig depth	0.10 (0-4)	0.10 (0-4)
U Roll back at ground	degrees 45°	45°
V Dump angle	degrees 45°	45°
Jaw opening width	n/a	0.70 (2-3)

LOADER DIMENSIONS – Forklift Performance Data

	Quickhitch mounted forks	
	m (ft-in)	
W Forks – tine length	1.20 (3-11)	
Forks – tine width	0.1 (0-4)	
X Forks reach at ground level	1.02 (3-4)	
Y Forks reach at full height	0.71 (2-4)	
Z Forks lift height – max.	3.04 (9-11)	
Fork spacing – min	0.15 (0-6)	
Fork spacing – max	1.28 (4-2)	
SWL @ 500mm load centres	kg (lb)	1600 (3526)
Max. rollback at ground	degrees	10°

LOADER ATTACHMENTS



LOADER ATTACHMENTS – Direct Mount

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

G.P. Shovel		
	Capacity SAE	
Width mm (in)	Rated m ³ (yd ³)	Struck m ³ (yd ³)
1850 (72)	0.6 (0.7)	0.49 (0.59)
6-in-1 Clamshovel		
	Capacity SAE	
Width mm (in)	Rated m ³ (yd ³)	Struck m ³ (yd ³)
1850 (72)	0.6 (0.7)	0.49 (0.59)

LOADER

JCB loaders provide parallel lift self levelling on the up and down cycle enhancing load retention and use of optional pallet forks. High capacity buckets combined with high lift and breakout forces maximise productivity.

	G.P. Shovel	6-in-1 Clamshovel
Bucket breakout force	kgf (lbf) 3600 (7921)	5063 (11162)
Loader arm breakout force	kgf (lbf) 3850 (8471)	3691 (8137)
Lift capacity to full height (1850mm wide)	kg (lb) 2200 (4844)	2100 (4624)



JCB BACKHOE LOADER | 2CX



BRAKES

The JCB braking system ensures 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.

- Twin brake pedals provide tighter turning circle and enhanced steering control on slippery ground.
- Automatic compensation ensures 'straight' machine braking.
- Disc diameter: 165 mm (6.5 in). Friction area: 130502 sq.mm (202 sq. in) per brake.
- The independent parking brake is mounted on the input shaft 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: 285 mm (11.2 in). Friction area: 74984 sq.mm (116 sq. in).

TYRES

12.5 x 18 x 10 Continental
 12.5/80 x 18 x 10 Goodyear
 335 x 18R Michelin
 12.5 x 18 x 10 Goodyear
 15.5 55 x R18 Dunlop
 405 70 x R20 Michelin
 14.5 x 20 x 10 Continental
 12.5 x 20 x 10 Goodyear
 335/65 x R18 Michelin
 14.5 80 x 18 Continental
 340/80 R18 Goodyear

HYDRAULIC SYSTEM

The Open Centre system uses gear pumps with a power modulation valve that automatically varies hydraulic power to match digging conditions for extra performance and power.

- Open centre hydraulic system using simple and reliable high efficiency gear pump.
- Single pump system with priority valve to ensure metered supply to steering and main hydraulic system.
- Easily used, ergonomically positioned levers give excellent control of the loader and backhoe, thus reducing operator fatigue.
- A full flow 10 micron filter ensures that oil stays free of contaminants.

Machine model	2CX
Pump flows at 2200rpm	l/min (gal/min)
Main pump output	79 (17.4)
System working pressure	bar (lbf/sq in)
Backhoe and loader	230 (3336)

SERVICE CAPACITIES

Machine model	2CX
	ltr (gal)
Cooling system	18 (4)
Fuel tank	83 (18)
Engine oil with filter	15 (3.3)
Transmission with filter	17 (3.74)
Rear axle	9.0 (2.0)
Front drive axle	9.0 (2.0)
Hydraulic system incl. tank	83 (18)



JCB BACKHOE LOADER | 2CX



BACKHOE ATTACHMENTS – Standard Profile Bucket

JCB backhoe buckets are designed specifically for use on JCB machines with pin positions to maximize tearout, load retention and straight wall digging characteristics.

Width mm (in)	Capacity SAE m ³ (ft ³)	
	m ³ (ft ³)	m ³ (ft ³)
230 (9)	0.028 (1.0)	0.022 (0.79)
300 (12)	0.03 (1.07)	0.03 (1.07)
350 (14)	0.04 (1.43)	0.03 (1.07)
400 (16)	0.05 (1.79)	0.04 (1.43)
450 (18)	0.06 (2.14)	0.05 (1.79)
600 (24)	0.09 (3.21)	0.07 (2.50)
750 (30)	0.11 (3.93)	0.09 (3.21)

BACKHOE ATTACHMENTS – Grading Bucket

Width mm (in)	Capacity Rated m ³ (ft ³)
1200 (48)	0.16 (5.71)

BACKHOE ATTACHMENTS – Hammermaster 260L Rockbreaker

Required oil flow	20 – 68 ltrs per minute
Strike rate	300 – 1675 blows per minute
Tool diameter	63mm
Joules per blow	350
Working weight	230kg (506lb)

BACKHOE DIMENSIONS

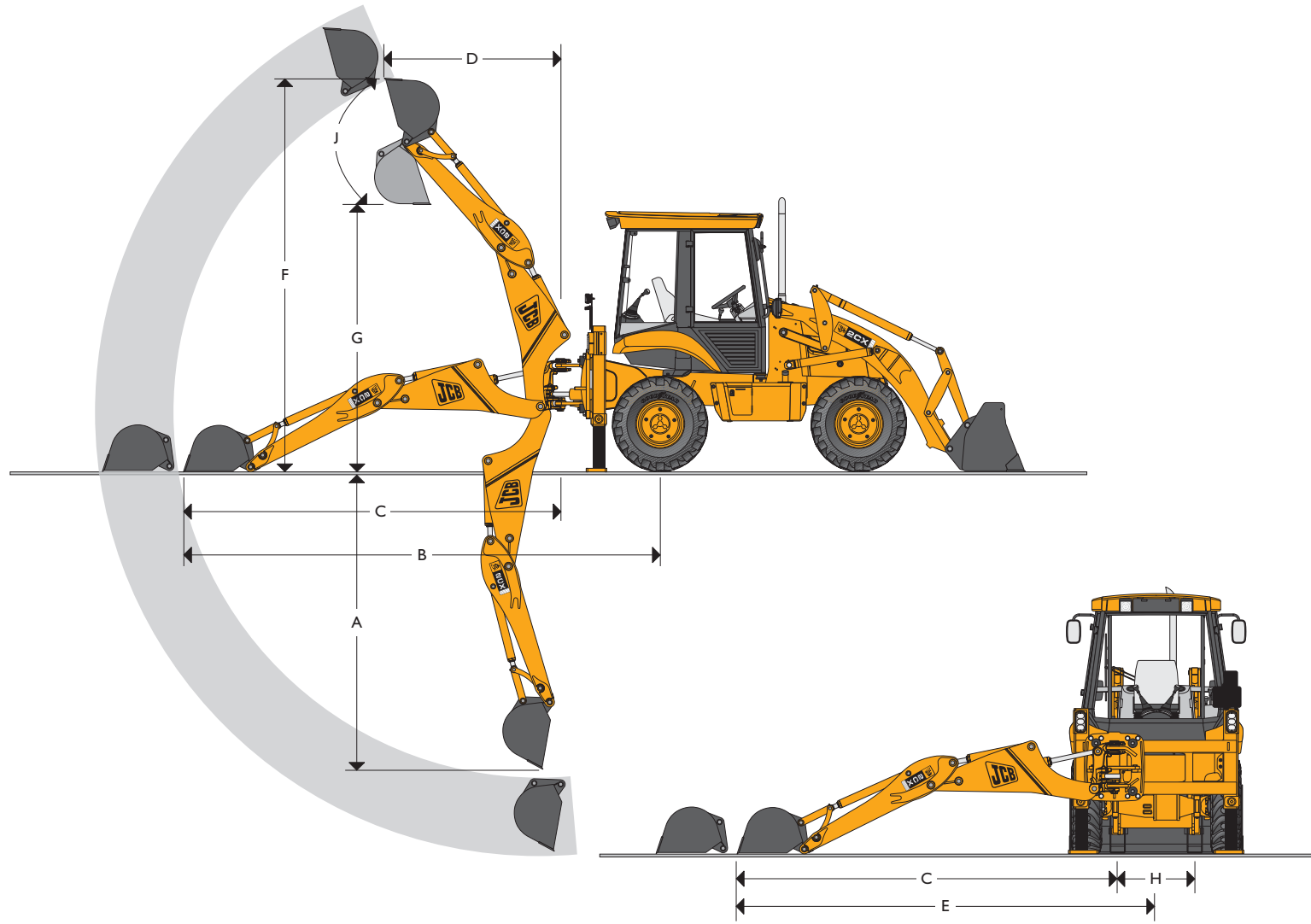
		Standard Dipper	Extradig
		m (ft-in)	m (ft-in)
A SAE max dig depth	Ext	3045 (10-0)	3701 (12-2)
	Ret	–	3053 (10-0)
SAE 2ft flat bottom	Ext	3020 (9-11)	3675 (12-1)
	Ret	–	3026 (9-11)
B Reach – ground level to rear wheel centre	Ext	5114 (16-9)	5727 (18-9)
	Ret	–	5107 (16-9)
C Reach – ground level to slew centre	Ext	3987 (13-1)	4600 (15-1)
	Ret	–	3980 (13-1)
D Reach – at full height to slew centre	Ext	1406 (4-7)	1897 (6-3)
	Ret	–	1406 (4-7)
E Side reach – to centre line of machine	Ext	4428 (14-6)	5045 (16-7)
	Ret	–	4432 (14-6)
F SAE operating height	Ext	4073 (13-4)	4454 (14-7)
	Ret	–	4028 (13-3)
G Maximum loadover height	Ext	2772 (9-1)	3235 (10-7)
	Ret	–	2809 (9-3)
H Total kingpost travel	Ext	894 (2-11)	894 (2-11)
	Ret	–	894 (2-11)
J Bucket rotation		187°	187°

BACKHOE PERFORMANCE

		Standard Fixed Dipper	Extradig
		kgf (lbf)	kgf (lbf)
Bucket tearout		4200 (9259)	4200 (9259)
Dipper tearout	Ext	–	1733 (3821)
	Ret	2253 (4967)	2284 (5035)
Lift capacity of bucket pivot at full reach		kg (lb)	kg (lb)
	Ext	–	729 (1607)
Ret	980 (2161)	821 (1810)	



JCB BACKHOE LOADER | 2CX





A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into Britain's largest privately owned manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders and tractors.

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

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 over 400 distributors and agents, the company exports over 70% of its production to all five continents.

Through setting the standards by which others are judged, JCB has become one of Britain's most impressive success stories.

