

NEW



BACKHOE LOADER | 3CX POTHOLE MASTER

The long-lasting solution to pothole repairs



THE 3CX POTHOLE MASTER.

DEDICATED POTHOLE REPAIR MACHINES ARE TRADITIONALLY ONLY FOCUSED ON THE TASK OF FILLING HOLES IN ROADS. THE NEW JCB 3CX POTHOLE MASTER IS A VERY DIFFERENT PROPOSITION.

Fill any hole in your fleet.

Designed to provide a single-machine solution for permanent pothole repairs, the Pothole Master combines a powerful patch planer and sweeper collector with the facility to operate handheld tools. You can therefore clean and properly prepare any site before carrying out comprehensive road repairs and you can achieve all of that within a single coned-off carriageway. What's more, you can travel between sites quickly, reducing the need for additional equipment and manpower.

Best of all, this machine is far from limited to pothole repair work – being based on JCB's versatile 3CX Eco backhoe loader, you can make productive use of it all year round for everything from loading grit and clearing snow to helping with flood prevention. Add to that premium resale values, and the JCB 3CX Pothole Master could well be the best investment you make this year.



1. ROAD TO SITE | The ability to road at speeds up to 25mph/ 40kph.



2. START PLANNING | Precise planning up to a depth of 115mm.



3. BREAKING | Attach a handheld breaker to finish off and save time.



5. TIDY UP | Empty all debris into truck and move to next job.



4. SWEEP OUT | The sweeper collector picks up all debris, dirt and water.



A LONG-TERM REPAIR

6. LONG TERM SOLUTION | Job done. A quick permanent repair with minimum disruption.

MADE FOR THE JOB.

POTHoles CAN OPEN UP RAPIDLY, SO IT'S ESSENTIAL TO MAKE PERMANENT REPAIRS QUICKLY. BOASTING POWERFUL HYDRAULICS AND A VERSATILE HIGH PERFORMANCE PATCH PLANER ATTACHMENT, THE JCB 3CX POTHOLE MASTER IS SPECIALLY CUSTOMISED TO DO JUST THAT.

Plane sailing.

1 The 400mm cutting drum ensures that only a minimal cut is planed; this ensures cost-effective repairs and precise planing to a depth of up to 115mm for even the largest potholes.

Multiple guide wheels on the patch planer help to ensure accurate depth control and equal depth across separate repair strips. The configuration of these wheels allows planing right up to kerb edges.

2 Easily replaceable tooth picks allow operators to maintain high levels of productivity whilst achieving precise flat-bottomed vertical-sided planing.

Hydraulic performance.

3 With flow sharing hydraulics, flowing at a rate of 165 l/min (on the high-flow setting), it's easy to use the Potholemaster's standard-fit patch planer at the same time as the excavator arm.

4 Easy to use excavator style controls combined with JCB Powerslide makes repairs effortless.



1. Extended reach.

Your patch planer will be able to work a 10m² area at up to 115mm of depth without repositioning.

6. Saving time.

A standard mechanical excavator quickhitch reduces attachment-changeover times.

5. Maximum protection.

Both the road surface and your machine are well protected from potential damage, with streetpads fitted as standard.

2. Ease of use.

Advanced EasyControl provides simple excavator-style control of the planer.

3. Sideshift.

JCB's sideshift feature means you can plane the 3CX's full width without moving, allowing work to be carried out in a single coned-off carriageway.

4. Well positioned

Powerslide allows effortless repositioning of patch planers and other tools, with uncompromised visibility to the ground and the attachment. No risk to ground damage.

MAKING A THOROUGH REPAIR.

JCB'S NEW 3CX POTHOLE MASTER IS DESIGNED TO PROVIDE A LONG-LASTING POTHOLE REPAIR. ONCE THE PLANING HAS BEEN CARRIED OUT, IT'S ESSENTIAL TO PREPARE A CLEAN, TIDY ROAD SURFACE, WHICH IS WHERE THIS MACHINE'S STANDARD-FIT HEAVY DUTY SWEEPER COMES INTO ITS OWN.

Clean-up time.

1 To maximise machine uptime, we've fitted the Pothole Master with a sweeper collector; a high capacity hopper extends working stints.

Quality of sweeping.

2 The sweeper itself is a large diameter unit for high performance, with 50/50 steel and polypropylene bristles that are optimised to provide long-life sweeping of road planings.

Our sweeper design allows constant downward pressure on the broom, ensuring that all debris, dirt and water are collected from any width of patch.

Mounted on the kerb side (with its drive motor on the off-side), our sweeper is positioned for good kerb sweeping performance.

Clever sweeper design.

3 JCB's Pothole Master has a sufficiently wide sweeper – and long enough loader arms – to be able to fill trucks from the rear.

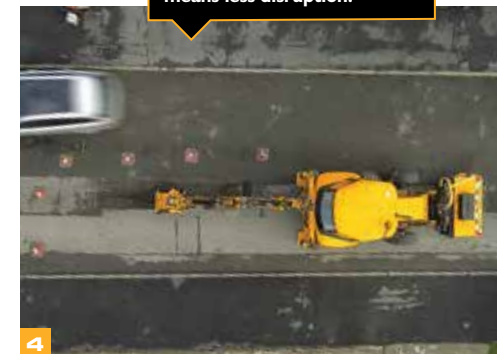
4 This setup can be carried out on a single carriageway with minimal disruption to traffic flow.

Material can be loaded directly into a truck, ready for transport to a recycling facility.

A JCB sweeper collector dramatically reduces clean-up time and ensures a tidy, safe site for the general public.



Single carriageway operations means less disruption.



1. In control.

Everything is controllable from the cab, with a single joystick for precise command of both the sweeper and loader arm functions.

2. Excellent visibility.

A low bonnet line provides excellent visibility to the loader end attachment.

4. Pipework.

High flow auxiliary pipework is fitted as standard to provide maximum flow to any high capacity attachments.

3. Added versatility.

Our hydraulic loader quickhitch makes attachment-changing safe and easy.

ON THE OPEN ROAD.

BECAUSE POTHOLES CAN OCCUR ANYWHERE, THE JCB 3CX POTHOLE MASTER IS DESIGNED TO TRAVEL FROM WORKSITE TO WORKSITE INDEPENDENTLY AND SAFELY. NO SEPARATE TRANSPORT TRUCKS ARE NECESSARY, SO THE MACHINE CAN BE DEPLOYED QUICKLY AND EASILY WHEREVER IT'S NEEDED.

Powerful and efficient.

1 The Pothole Master is equipped with a fuel-efficient 68kW (91hp) engine; for maximum productivity, opt for the 81kW (109hp) JCB EcoMAX low-emission unit.

Uniquely, we fit Torquelock as standard, along with Powershift. When combined with an optional Autoshift transmission, these features can help reduce fuel consumption by as much as 25%, and travel times by up to 10%.

Comfortably superior.

2 JCB Smoothride improves comfort and load retention by isolating the loader arms from the chassis via a suspension system. This allows operators to maintain higher road speeds in all conditions.

Our standard air suspension seat provides optimum comfort for even the longest working stints. The optional headrest can increase comfort (and therefore productivity) even further.

Advanced braking.

3 Efficient, safe stopping power requires minimal pedal effort because of JCB's power brake system.



1



A 25mph (40km/h) top speed guarantees swift travel between jobs. Factory-fit Torquelock reduces speed loss on hills, improves overall travel times, and increases working radius.



2



3

SAFER WORKING ENVIRONMENTS.

SAFETY IS A TOP PRIORITY ON ANY SITE, WHICH IS WHY THE 3CX POTHOLE MASTER IS DESIGNED TO PROTECT ITSELF, ITS OCCUPANTS AND ANY BYSTANDERS.

Safe and secure.

1 To keep site workers, the general public and road traffic safe, there's a standard-fit reversing alarm, as well as twin beacons, a fire extinguisher and high visibility livery improving visibility of the machine to other road users.

2 The 3CX Pothole Master is a safe machine to enter and exit, offering three points of contact to operators at all times. Cab steps are of a large anti-slip open grille design to prevent material build-up. Eight worklights keep any site well illuminated through night-time and other low-light working stints.

Damage limitation.

3 The Pothole Master is equipped with front protection bars; these guard the bonnet and front grill against damage when loading lorries and trailers.

4 Damage can occur on any site, so we fit rear light guards as standard for added impact protection.

Visible differences.

5 A large glass area provides operators with excellent visibility across the entire working area. Front and rear screens are protected as standard.



VERSATILITY IS AT HAND.

THE POTHOLE MASTER IS BASED ON JCB'S 3CX ECO. AS SUCH, IT'S A HIGHLY VERSATILE MACHINE, MADE ALL THE MORE SO BY ITS UNIQUE HANDHELD TOOL CIRCUIT AND COMPREHENSIVE OPTIONS LIST.

Handheld tools.

- 1 There's an optional hose reel so you won't need any hose connections to use handheld tools. The reel offers a generous 9m working radius, and has an auto-retract system for added convenience. Its reel design reduces the potential for on-site damage and protects the hose when it's not in use.
- 2 You can operate handheld tools at the same time as the excavator, improving productivity. This also means you don't have to buy separate powerpacks, which are often prone to theft.
- 3 Choose from a huge selection of JCB-approved handheld tools like breakers, pumps, earth drills, disc cutters, core drills and rotary impact drills.



THE OPTIONS LIST.

Ripper tooth.

1 For breaking hard surfaces such as frozen or compacted ground, tarmac or fragmented concrete, the ripper tooth is perfect. You can mount it on the excavator quickly, with or without a quickhitch.

Snow Blade.

2 Turn your 3CX Pothole Master into a snowplough with this full-width rubber-edged blade. It can be angled left or right hydraulically and rides on jockey wheels to follow road contours.

Hydraulic thumb.

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

Kerbmaster.

4 The JCB Kerbmaster allows fast and accurate positioning of kerbs, offering a safe and simple operation which is fully compliant with manual handling regulations.

Compactor.

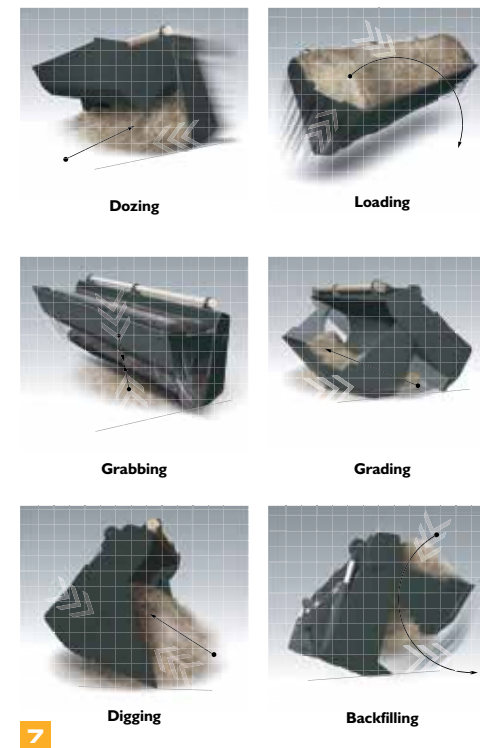
5 Mounted on the excavator for full operator protection against harmful vibrations, this tool can be specified with an optional bolt-on extension leg for even deeper trench compaction. It can also be directly or quickhitch-mounted for added versatility.

Quickhitch.

6 An optional hydraulic excavator quickhitch dramatically reduces machine downtime during attachment-changing for improved productivity.

6-in-1 Shovel.

7 JCB's 6-in-1 shovel with integrated streetpads enables you to dig, doze, load, grab, grade and backfill, all with just one attachment.



MORE FOR YOUR MONEY.

AS WITH SO MANY JCB MODELS, THE 3CX POTHOLE MASTER CAN PERFORM FAR OUTSIDE ITS MAIN OPERATING REMIT. SO AS WELL AS GETTING A DEDICATED ROAD REPAIR SOLUTION, YOU'LL ALSO GET A MACHINE THAT'S HIGHLY PRODUCTIVE ACROSS A HUGE RANGE OF OTHER APPLICATIONS.

All-year-round working.

1 This machine is highly versatile and by no means limited to pothole repair work; it can be used all-year round for everything from winter snow clearing to summer flood protection, thus ensuring maximum return on your investment.

2 With an impressive 3.23m dump height and a 1.2m reach at full height, you can easily load gritter lorries and other high sided vehicles.

3 Because the Pothole Master can self-deploy, it's ideally suited to all manner of emergency callouts, from broken kerbs and crash barriers to fallen trees, traffic accident damage and remedial work.

4 We've equipped the 3CX Pothole Master with integrated forks as standard; the 2-tonne capacity tools are built into the hydraulic loader quickhitch, so you can load and stack, as well as move palletised loads.



LIVELINK, WORK SMARTER.

JCB LIVELINK TELEMATICS TECHNOLOGY CAN HELP TO MAKE SURE THAT YOUR 3CX POTHOLE MASTER STAYS SAFE AND MAINTAINS OPTIMUM PERFORMANCE LEVELS.



Looking after your investment.

Standard-fit JCB LiveLink provides accurate machine location; amongst other things, this can help with job planning. Your machine is electronically trackable, so in the event of theft it can be recovered swiftly. If you need to order emergency road repairs, LiveLink makes it simple to locate the most conveniently placed machine for the job.

Our technology can provide a wealth of information to optimise fleet management and reliability, including real-time machine health updates, service reminders, and even carbon emissions data to help meet eco-friendliness targets.

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.

JCB Premiercover 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.



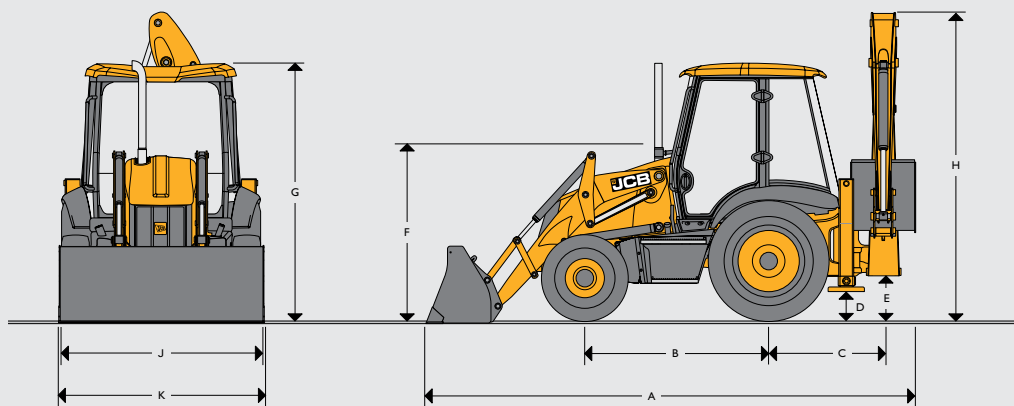
2 The global network of JCB Parts Centres is another model of efficiency; with 15 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.

STATIC DIMENSIONS

Gross Power: standard 68kW (91hp), optional 81kW (109hp)

JCB 3CX Pot Hole Master feature a 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 Pothole Master	
A	Overall length	m	5.62
B	Axle centreline distance	m	2.17
C	Slew centre to rear axle centre distance	m	1.36
D	Stabiliser feet clearance	m	0.37
E	Kingpost clearance	m	0.52
F	Steering wheel centre height	m	1.94
G	Cab roof height	m	3.03
H	Total travel clearance	m	3.61
J	Rear frame width	m	2.35
K	Shovel width	m	2.35

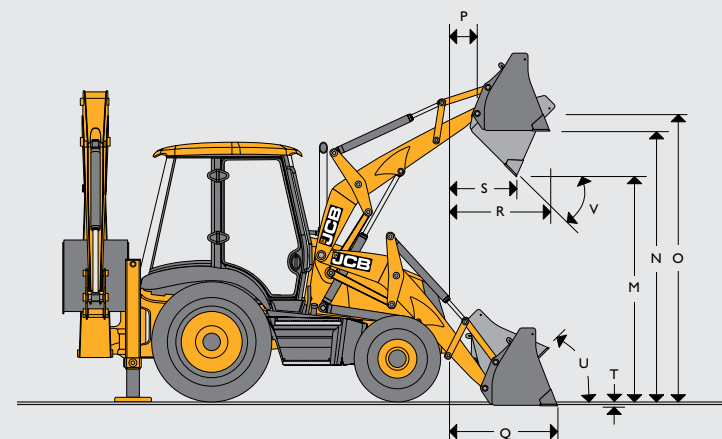
ENGINE (STAGE IIIB EMISSIONS)

Manufacturer		JCB	
Aspiration		Turbocharged & Intercooled	
Displacement	litres	4.4	
No. of cylinders		4	
Bore	mm	103	
Stroke	mm	132	
Rated engine	rpm	2200	
Power ratings			
Rated ISO 14396 (SAE J1995 Gross)	kW (hp)	68 (91) / 81 (109)	
Maximum torque			
Rated ISO 14396 (SAE J1995 Gross)	Nm	433 / 516	
Max. torque rpm	rpm	1400 / 1500	

SERVICE CAPACITIES

Cooling system	ltr	18.5
Fuel tank	ltr	160
Engine oil with filter	ltr	15
Gearbox with filter	ltr	16
Rear axle	ltr	16
Front drive axle	ltr	16
Hydraulic system incl. tank	ltr	117

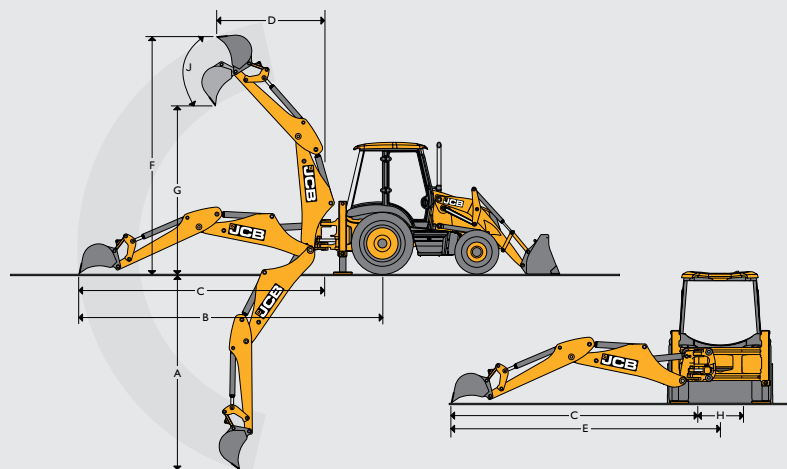
LOADER PERFORMANCE



		6-in-1 shovel	
M	Dump height	m	2.72
N	Load over height	m	3.23
O	Loader hinge pin height	m	3.45
P	Pin forward reach	m	0.36
Q	Reach at ground (toe plate horizontal)	m	1.37
R	Max. reach at full height	m	1.15
S	Reach at full height fully dumped	m	0.78
T	Dig depth	m	0.10
U	Roll back at ground	degrees	45°
V	Dump angle	degrees	43°
	Jaw opening width	m	0.95
	Loader breakout – shovel	kgf	6531
	Loader breakout – arms	kgf	4732
	Rated operating capacity 7'4"*	kgf	3229
	Rated operating capacity 7'8"*	kgf	3169
	Clamping force	kgf	2940

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

EXCAVATOR / LOADER DIMENSIONS



A	SAE max dig depth	Ext	m	5.46
		Ret	m	4.24
	SAE 2ft flat bottom	Ext	m	5.43
		Ret	m	4.21
	Maximum dig depth with deep profile bucket	Ext	m	5.97
		Ret	m	4.75
B	Reach – ground level to rear wheel centre	Ext	m	7.87
		Ret	m	6.72
C	Reach – ground level to slew centre	Ext	m	6.52
		Ret	m	5.37
D	Reach – at full height to slew centre	Ext	m	3.66
		Ret	m	2.74
E	Side reach – to centre line of machine	Ext	m	7.09
		Ret	m	5.94
F	SAE operating height	Ext	m	6.35
		Ret	m	5.53
G	Maximum loadover height	Ext	m	4.72
		Ret	m	3.84
	SAE loadover height	Ext	m	4.32
		Ret	m	3.4
H	Total kingpost travel		m	1.16
			m	1.05
J	Bucket rotation		degrees	201°
	SAE loadover height	Ext	kgf	5385
		Ret	kgf	6228
	Bucket tearout	Ext	kgf	2255 / 2729*
		Ret	kgf	3225 / 3903*
	Lift capacity of bucket pivot at full reach	Ext	kgf	719 / 1082*
		Ret	kgf	1451 / 1885*

* Heavy lift excavator

LOADER	- Sweeper Collector - Parallel lift loader Arms - Hydraulic Quickhitch With Integrated Flip Over Forks 5/8" High Flow Loader Pipework - Hi-Visibility Highway Maintenance Decals - Smoothride System (SRS) - Return To Dig - Shovel Float
EXCAVATOR	- Patch Planer - High Output Variable Displacement Pump 14' Extending Dipper Excavator End - Powerslide - Hammer Pipework With Hose Extensions - Manual Quickhitch - Boom Ram Cushioning - Hi-Visibility Boom Decals
CAB	- Seat Mounted Excavator Style Servo Controls - Heated Air Suspension Seat - Large Internal Storage - Rear Screen Impact Protection - Fire Extinguisher - Twin Beacons - Immobiliser - Liveline - Coffee Machine - Auto Daily Checks
DRIVELINE/ CHASSIS	68kW (91hp) Tier 4 Interim Engine 40 kph 4-speed Powershift Transmission - Torque Lock 18" Front Wheels (Crossply/Radial) - Stabiliser Streetpads - Rear Light Guards - Reverse Alarm - Front Bumper Bars - Hi-Visibility Stabiliser Chevrons
HYDRAULIC SYSTEM	Closed centre vari flow pump, 165 l/min @ 2200
OPTIONS	81kW (109hp) Ecomax Tier 4 Interim Engine 6-Speed Autoshift Transmission - Bi-Directional Auxiliary Hydraulics - Air Conditioning - Heated Front Screen - Auto Preheat - Lifting Kit 6-in-1 Quickhitch Mounted Shovel With Streetpads and Clam Ram Guards - Handheld Tool Circuit (HHTC) With Hose Reel - Large Selection Of Hand Held Tools - Hydraulic Excavator Quickhitch - Hydraulic Thumb - Kerb Grabs - Compactors - Range Of Excavator Buckets With Toeplate - Snow Blades - Ripper Tooth

OPERATING WEIGHTS

Weight	kg	8102
--------	----	------

Operating weight includes machine with 6-in-1 shovel, 610mm excavator bucket, extended dipper, full fuel tank and operator.

Actual weight will vary depending on machine options.

NOISE & VIBRATION LEVELS

Internal dB(A)	74dB(A) - (55 to 68 kW)	
External dB(A)	102	
Vibration	Hand Arm Vibration 2.5m/s ² - Whole Body Vibration 0.5 m/s ²	

SWEEPER COLLECTOR

Overall width	mm	2110
Oil flow min/max.	lpm	60 - 120
Brush Composition	50/50 Wire and Polypropylene	
Options	Dust Suppression	
Frame options	JCB QFIT Quickhitch	

PATCH PLANER

Width	mm	400
Cutting depth	mm	1 - 115
Number of picks	47	
Weight	kg	540
Hydraulic flow range	l/min	90 - 200
Hydraulic pressure range	bar	140 - 210



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

BACKHOE LOADER 3CX POT HOLE MASTER

The long lasting solution to pot hole repairs

JCB Sales Limited, Rocester, Staffordshire, United Kingdom ST14 5JP.

Tel: +44 (0)1889 590312 Email: salesinfo@jcb.com

Download the very latest information on this product range at: www.jcb.com

©2009 JCB Sales. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB Sales. All references in this publication to operating weights, sizes, capacities and other performance measurements are provided for guidance only and may vary dependant upon the exact specification of machine. They should not therefore be relied upon in relation to suitability for a particular application. Guidance and advice should always be sought from your JCB Dealer. JCB reserves the right to change specifications without notice. Illustrations and specifications shown may include optional equipment and accessories. The JCB logo is a registered trademark of J.C. Bamford Excavators Ltd.

