





You choose a backhoe loader for its versatility You choose JCB because it's the best... it's the world's number one



They say imitation is the sincerest form of flattery. When others imitate you, it means you've set the standard they aspire to. It means you're doing something right. JCB invented the backhoe loader. We've always led the way. Since that day in 1953 when we built the world's first backhoe loader, innovation has been our foundation. And excellence in design has been our standard.

We have consistently improved on the original concept of a rugged, dependable backhoe loader in order to maintain our position as the world's leading backhoe loader manufacturer. The new 3CX and 4CX models feature the innovative EcoDig system, taking efficiency and productivity to a whole new level. JCB was the world's first, is the world's best selling and now the world's most efficient backhoe loader.



In 1953, Joseph Cyril Bamford, the man later to be known as Mr. JCB, built the first Major Loader using his own concept as the basis for the design. That first machine consisted of a tractor with a loader on the front and an excavator arm on the back. That simple machine evolved into what we know today as the backhoe loader. Mr. JCB's machines have revolutionized the construction job site for more than half a century.

Having pioneered the backhoe loader, JCB continued to improve on its first concept design. By employing advanced engineering principles, we expanded the machine's capabilities. Many of our leading innovations have since become standard features on backhoe loaders throughout the industry. Consider, for instance, four-wheel drive, extending dippers, torqueconverter drive, powershift transmissions and all-wheel steer.

JCB built its reputation as the world leader in backhoe loaders by making its machines increasingly productive, dependable and efficient on the job site, and by fostering a level of operator comfort unequalled by other manufacturers. As a result, the JCB backhoe loader has out sold all of its competitors globally.

And now, with the launch of its latest backhoe loader, JCB has crafted a machine that is more productive and more efficient than all other backhoes loaders on the market today. With nearly half of the worldwide market share, the JCB backhoe loader has proven

The JCB Major Loader



#### HISTORY OF INNOVATION





#### **BACKHOE LOADER RANGE**









# The World's most efficient backhoe

In today's challenging economic times, it makes good business sense to keep an eye on cash flow. The function of a backhoe loader is to dig trenches and move dirt. The new JCB 3CX & 4CX is the most efficient backhoe loader available today. It moves more dirt per gallon of fuel than any other backhoe on the market.

Never before has a system been incorporated into a backhoe loader that allows the operator to minimize engine speed for a lower fuel burn, and do so without sacrificing productivity or performance. The JCB EcoDig system achieves this by using a third hydraulic pump that provides key benefits:

CODIG BENEFITS

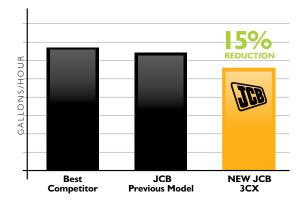
Improved fuel efficiency during excavation

Longer time between refueling, increases productivity
and decreases cost

Results in a 50% reduction of in cab noise levels Reduces carbon emissions by up to 15%, making the machine more environmentally friendly

Less component wear and tear, extending work life of the machine





The JCB EcoDig feature on the new backhoe loader gives up to a 15% fuel savings

# BACKHOE PERFORMANCE





# World's most productive loader

JCB backhoe loaders offer unrivaled performance with high lift capacities and breakout forces. Our exclusive EcoLoad feature encompasses multiple benefits for the operator.

The JCB DieselMax engine, with its high torque at low rpms, provides all the power required to push into the pile. Further, the machine's large front bucket moves more material with each pass. The net result is more dirt moved each hour.

The transmission disconnect redirects the hydraulic power from the engine to the loader arm cylinders for faster lifting. The parallel lift loader arm and Smooth Ride System (SRS) provide excellent load retention, while the limited slip differentials automatically provide additional traction when the machine is operating in adverse conditions or pushing into the pile. Finally, the structurally sound loader arm on the JCB backhoe loader is built to last.

All of these features make the JCB 3CX and 4CX the best performing backhoe loaders available today. Moving more dirt per gallon of fuel, makes them the most efficient loaders in their class.

ECOLOAD BENEFITS

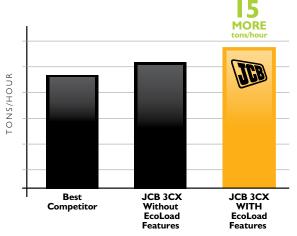
Largest loader bucket moves more material with each pass resulting in more productivity

JCB Dieselmax engine designed to have torque where needed to push into the pile

Limited Slip differentials as standard provide traction automatically when it is needed

Smooth Ride System maximizes load retention for increased productivity

Parallel lift loader arm keeps palletized loads level while raising and lowering



JCB has the most productive loader of any backhoe loader on the market

# LOADER PERFORMANCE





# Saving you money between jobs

Every backhoe loader was designed to dig and load, so driving it on the road from one job site to another doesn't sound like an economical practice. Actually, that's an ideal way to transport the JCB 3CX and 4CX to the work site. With the JCB EcoRoad system, there never has been a more efficient way of transporting a backhoe loader.

#### **Backhoe Across America**

The world's greatest earthmover recently completed a marathon, 3, 185-mile road trip from the Atlantic to Pacific oceans to demonstrate its ability to be driven long distances with minimal tire wear, while raising money for victims of the earthquake in Haiti.

The journey took 120 hours of driving time as the dependable JCB 3CX made its way from Savannah, Georgia, to the Santa Monica Pier in California. The 3CX made 14 stops as it wound its way across America's southern states in the spring of 2010.

The feat earned JCB a spot in the Guinness Book of World Records for the longest journey in an excavator/ digger. It also helped to establish JCB's reputation as the manufacturer of choice for work-tested, rugged and dependable construction equipment.

minimizing material spillage

Best JCB 3CX JCB 3CX Without WITH Competitor EcoRoad **EcoRoad Features Features** 

The hydraulic system automatically drops out two of the

Industry exclusive JCB Torquelock is standard with 6 speed

Autoshift transmissions giving an operator up to 25% fuel

savings and 10% reduction in travel time during roading

Power brakes further increase efficiencies while driving on

JCB Smooth Ride System keeps machine from bouncing

while driving at speed, enhancing operator comfort and

pumps to increase efficiencies while driving at speed

JCB backhoe loaders help you get to the next job faster, and at a lower cost

COROAD BENEFITS

JCB designs, develops and builds the entire drive-line for our backhoe loaders



# **ROADING PERFORMANCE**



# A comfortable operator is a productive operator

At JCB, we design our backhoe loaders around the operator. We believe in creating an environment that enables today's hard working operators to enjoy a fatigue free experience. The bottom line is that a comfortable operator is a more productive operator. More productivity equates to more profit on the bottom line.

With our latest generation backhoe loader, we have improved on our industry benchmark design and have now made it even better, setting the bar even higher. The deluxe environment is purposely designed to maximize comfort, control and safety.

The comfort begins the minute an operator sits down in the deluxe suspension seat. The automotive style interior is both functional and stylish. With strategically placed air vents throughout the cab, total comfort is assured no matter what the conditions outside. The deluxe cab is the biggest in the industry and has the most storage as well, insuring that you can keep all of your essential items close at hand.

Safety is assured with the standard ROPS and FOPS feature of both our cab and canopy configurations. The JCB operators environment offers best in class visibility, during both loader and backhoe operations, which makes an operator safer and more productive around the jobsite.

When utilizing the loader or backhoe, an operator is treated with low effort controls that are ergonomically positioned to enhance loading, roading and backhoe tasks. To further improve productivity and operator comfort, one can opt for the seat mounted JCB EasyControl system. These ultra low effort controls give the operator the feel they need and the productivity they demand, whether its during rear facing or non rear facing operation.

In addition to these standard features enjoyed by all of our operators, JCB offer some unique options that further enhance the operator experience with a JCB backhoe loader.



Unrivaled visibility

Air suspension and heated seat to further enhance operator comfort

OPTIONS

JCB EasyControls were an industry first, allowing one to operate the backhoe facing either to the rear or to the side of the machine, providing for a better vantage point while operating

 Hot beverage machine, exclusive to JCB, allows the operator to enjoy a hot cup of coffee or tea during the work day

# **OPERATOR ENVIRONMENT**



# Minimizing your downtime

To ensure the JCB 3CX or 4CX is always ready to deliver top performance, we make sure that servicing each machine is quick and easy. The one-piece hood was designed for effortless lifting. All daily checks, along with oil and fuel refilling, can be carried out from ground level.

A sensor in the cab automatically indicates when the air filter becomes blocked and when it detects water in the fuel. An internal air precleaner reduces maintenance even further, while improving visibility. Adjusting wear pads on the Extradig is very simple and keeps the machine running at its best. And the one-piece, flat composite floor, hanging pedals and drainage channels prevent rust and make for easy cleaning or power washing, all the while insulating the operator from noise and vibration

At JCB, we stand behind our products. That's why we offer the industry's best warranty – a standard, two-year, full machine warranty and three-year structural warranty. For additional peace of mind, our coverage is backed by a 48-hour parts guarantee\*. Why do we offer such extensive warranties? Because we believe in our equipment.





# **SERVICE**



# World's most versatile tool

The most flexible and resourceful tool on the job site, the JCB backhoe loader can run a vast array of attachments, thus enhancing its versatility and keeping it working longer. Optional quick couplers located front and back make attachment changeover quick and easy to reduce time between tool changes. All attachments are JCB-approved to ensure the machine and the attachment work in conjunction with each other.

A new, optional combined hammer & bi-directional circuit

A Hand-Held Tool Circuit is available as an option. The circuit is an independent hydraulic supply for hand-held tools. In addition, JCB is also offering a 30 foot hose reel on all 2CX, 3CX and 4CX models. Some of the tools available for this circuit are: hand-held hammers, water pumps, chain saws and chop saws. Both the hand-held tool circuit and the excavator can be operated at the same time, thus increasing the productivity and versatility of the machine while eliminating the need for a power source for the hand-held tools.



Maximum versatility for maximum productivity

#### **ATTACHMENTS**



#### **QUICK COUPLERS**

- Enable quick interchange between backhoe attachments
- Options available on all backhoe loaders, from the ICX to the 4CX
- Hydraulic options available on 3CX and 4CX



#### **SPECIALTY BUCKETS**

• JCB offers a wide array of speciality buckets to include ditching and grading



#### HAMMERS

- JCB Hammermaster series incorporate high power ratings to ensure greater work speed
- Constant blow energy is maintained irrespective of hydraulic oil flow
- Quiet version available for work in urban areas
- Versions available on TCX through to 4CX models



#### SPECIALTY BACKHOE ATTACHMENTS

 Augers up to 36" in diameter are just an example of the specialty backhoe attachments offered by JCB



#### **SWEEPER**

- A range of brooms and sweeper collectors for all JCB backhoe loaders
- Allows JCB backhoe loaders to clean up after themselves at the end of the workday.



#### LOADER QUICKHITCH

- Hydraulic or mechanical options available, speeding up attachment changeover time on the ICX – 4CX
- Optional weld on conversion brackets available for most models
- JCB designed for maximum compatibility and durability



#### **6 IN I LOADER BUCKET**

- Total versatility in all material handling duties from simple loading to precision grading
- Sizes ranging from 0.3 cu.yd. on the TCX to 1.6 cu.yd. on the 4CX
- Direct mount or JCB Quickhitch compatible
- Drilled to accept cutting edge or teeth



#### GENERAL PURPOSE LOADER BUCKET

- JCB designed for maximum performance and durability
- Drilled to accept cutting edge or teeth
- Comprehensive range of sizes ranging from 0.3yd3 on the ICX to I.7yd3 on 4CX models
- Direct mount or JCB Quickhitch compatible







#### **EFFICIENT JCB DRIVELINE**

- JCB Dieselmax engine, designed, built and tested for the 3CX & 4CX backhoe loaders
- Two JCB transmission options 4 speed powershift or 6 speed autoshift with torque lock
- JCB axles are standard limited slip with outboard planetary hubs to provide the best push into the pile





#### **EFFICIENT HYDRAULIC SYSTEM**

- New "ECODIG" system consists of a three gear pump system, giving a fuel savings of up to 15%
- All hydraulic cylinders are manufactured by JCB with the same strength and durability throughout the life of the machine
- Optional JCB Easycontrols are servo controls with the same feel and speed which can be found in a manually controlled machine, but with the ease and comfort of two joysticks mounted at the operator's seat



#### MOST PRODUCTIVE LOADER IN THE BUSINESS

- Standard 1.4 cubic yard bucket, which is the largest in its class for high productivity
- Heavy duty loader arm design with box frame construction and one piece torque tube
- Four cylinder geometry giving parallel lift as standard
- Can lift up to 9,231 pounds of material with the optional heavy lift cylinder



#### COMFORTABLE OPERATORS ENVIRONMENT

- Quietest operators cab in the industry with a one piece composite "suregrip" floor which aids in sound dampening, heat absorption, as well as in cleaning
- Large open area to give a comfortable working area for the operator
- Seven position, fully adjustable suspension seat as standard, with optional heated air suspension seat



#### STRONGEST MAINFRAME AROUND

- Mainframe has a design life in excess of 24,000 hours
- Two inches of steel on top and bottom rear frame plates to take all digging forces
- Mainframe parts formed rather than welded to ensure maximum durability 10'10" outrigger spread provides for a very stable machine during backhoe digging operation.



#### PRODUCTIVE BACKHOE-EXCAVATOR

- Extremely durable boxed design with equal length boom and dipper which allows operator to be more productive when digging a trench without having to reposition the machine as often
- Massive kingpost design which distributes forces throughout the machine when digging
- Boom and dipper with slim design so as not to impede upon operator's visibility to the work area

MACHINE SPECIFICATIONS	ICX	MIDI CX	2CX	3C-14
Operating Weight lbs. (Kg.)	6,150 (2,790)	8,598 (3,900)	12,544 (5,690)	14,990 (6,799)
Steer mode	2WS	2WS	2WS,4WS,CRAB	2WS
Length ft. in. (m)	11'-2" (3.4)	20'-1" (6.14)	17'-9" (5.40)	23'-0" (7.01)
Width Across tires ft.in. (m)	5'-1" (1.56)	4'-9" (1.51)	6'-0" (1.84)	7'-3" (2.21)
Cab height ft.in. (m)	7'-4" (2.25)	7'-4" (2.25)	8'-8" (2.65)	9'-3" (2.82)
Engine Power Gross HP (Kw)	50 (37.2)	51 (37.2)	75 (56)	92 (68.6)
Max Hydraulic flow gal./min. (lit./min.)	11.9 (45.1)	19.8 (74.9)	17 (64.4)	29 (109.8)
LOADER SPECIFICATIONS	ICX	MIDI CX	2CX	3C-14
Loader lift capacity lbs. (Kg.)	5,290 (2,400)	3,478 (1,578)	4,624 (2,097)	6,750 (3,062)
Loader bucket breakout lb./ft. (N/m)	5,179 (2,349)	5,830 (2,644)	7,935 (3,599)	11,730 (5,321)
Bucket capacity yds. <sup>3</sup> (m <sup>3</sup> )	.30 (.23)	.46 (.35)	l (.77)	1.10 (.84)
Loader Arm Design	Parallel Lift	Anti-Spill	Parallel Lift	Anti-Spill
SPECIFICATIONS	ICX	MIDI CX	2CX	3C-14
Backhoe dig depth - retracted ft.in. (m)	8'-4" (2.55)	10'-0" (3.05)	12'-0" (3.66)	14'-7" (4.45)
Backhoe dig depth - extended ft.in. (m)	N/A	N/A	N/A	18'-0" (5.49)
Bucket breakout force lb./ft. (N/m)	4,852 (2,201)	6,025 (2,733)	9,259 (4,200)	11,470 (5,203)
Dipper breakout force lb./ft. (N/m)	3,280 (1,488)	4,548 (2,063)	5,483 (2,487)	7,000 (3,175)
Dipper lift @ 6' from ground ft.in. (m)	N/A	3,400 (1,542)	2,425 (1,100)	3,970 (1,801)

# **SPECIFICATIONS**

3C-LL	3CX-14	3CX-15	3CX-17	4CX-14	4CX-15	4CX-17
13,146 (5,963)	16,977 (7,701)	18,223 (8,266)	18,701 (8,483)	16,986 (7,705)	18,765 (8,512)	18,968 (8,604)
2WS	2WS	2WS	2WS	2WS,4WS,CRAB	2WS,4WS,CRAB	2WS,4WS,CRAB
18'-1" (5.50)	23'-7" (7.19)	24'-7" (7.49)	24'-7" (7.49)	24'-2" (7.37)	24'-6" (7.47)	24'-6" (7.47)
7'-3" (2.21)	7'-3" (2.21)	7'-4 1/2" (2.25)	7'-4 1/2" (2.25)	7'-3 1/2" (2.22)	7'-3 1/2" (2.22)	7'-3 1/2" (2.22)
9'-3" (2.82)	9'-9" (2.87)	9'-9" (2.87)	9'-9" (2.87)	9'-9" (2.87)	9'-9" (2.87)	9'-9" (2.87)
92 (68.6)	92 (68.6)	100 (74.6)	100 (74.6)	100 (74.6)	100 (74.6)	100 (74.6)
29 (109.8)	39 (147.6)	41 (155.2)	41 (155.2)	38 (143.8)	41 (155.2)	42 (155.2)
3C-LL	3CX-14	3CX-15	3CX-17	4CX-14	4CX-15	4CX-17
5,511 (2,500)	7,670 (3,479)	10,225 (4,638)	10,225 (4,638)	10,225 (4,638)	10,225 (4,638)	10,225 (4,638)
11,730 (5,321)	13,603 (6,170)	14,498 (6,576)	14,498 (6,576)	13,728 (6,227)	13,728 (6,227)	13,728 (6,227)
1.10 (.84)	1.4 (1.07)	1.4 (1.07)	1.6 (1.22)	1.4 (1.07)	1.4 (1.07)	1.4 (1.07)
Anti-Spill	Parallel Lift	Parallel Lift	Parallel Lift	Parallel Lift	Parallel Lift	Parallel Lift
3C-LL	3CX-14	3CX-15	3CX-17	4CX-14	4CX-15	4CX-17
N/A	14'-7" (4.45)	16'-3" (4.95)	17'-7" (5.36)	14'-7" (4.45)	16'-3" (4.95)	17'-7" (5.36)
N/A	18'-6" (5.63)	20'-1" (6.12)	21'-6" (6.55)	18'-6" (5.63)	20'-1" (6.12)	21'-6" (6.55)
N/A	13,730 (6,228)	16,387 (7,433)	16,387 (7,433)	13,730 (6,228)	16,387 (7,433)	16,387 (7,433)
N/A	8,605 (3,903)	10,245 (4,647)	10,690 (4,849)	8,605 (3,903)	10,245 (4,647)	10,690 (4,849)
N/A	7,390 (3,352)	6,197 (2,811)	9,167 (4,158)	7,390 (3,352)	6,197 (2,811)	9,167 (4,158)

# A few words about JCB



Sir Anthony Bamford, the son of Mr. JCB, still runs the company today.

#### A family company on a global scale.

JCB is no ordinary company. From the dreams of one man, Joseph Cyril Bamford, we have grown into the world's biggest privately owned construction equipment company by volume. Since 1945, the same attention to detail, passion for progress and family spirit has taken us from strength to strength. Nowadays, JCB operates across all five continents, manufacturing at 17 factories in the UK, Brazil, Germany, China, North America and India. With 1,500 dealerships and depots selling and supporting our products in over 150 countries, we are one of the top three manufacturers of construction equipment with some of the finest engineering facilities in the world.

#### A history of world-class innovation.

Our business has always been driven by innovation, using only the most advanced technology, components and processes, meticulous design and rigorous testing. Evidence of this doesn't come much more powerful than our revolutionary JCB Dieselmax engine. Having grabbed the headlines when it smashed the world land speed record at 350.092mph, it is now providing our customers with tomorrow's performance today.

#### Sustainability in all we do.

As a manufacturer of working machinery, operating in both established and emerging markets, we accept the challenge of helping to deliver economic and environmental sustainability. Product innovations that provide the right solutions to our customers have been a vital part of our history and will be key to our sustainable future. But in addition to developing cleaner and more efficient machines, we have a commitment to ensuring our manufacturing facilities meet the highest environmental standards.

#### A commitment to our customers that goes on.

That's a fact we remind ourselves of constantly, and it's the reason our customers are at the heart of everything we do. Whatever a customer needs, we make it our mission to provide world-class support and 100% satisfaction. At the heart of this is a dedication to minimizing machine down-

time. So our state-of-the-art World Parts Center dispatches more than a million genuine parts and attachments every week, with an 'Anywhere in 24 hours' strategy. Our JCBtrained technicians provide excellent, expert customer care, whether it's routine servicing or something more urgent.



Almost I out of every 2 backhoe loaders sold in the world is a JCB.

1940's

Joseph Cyril Bamford builds his first twowheeled tipping

trailer using a war-surplus Jeep axle and wheels in this rented garage in the United Kingdom.

1950's

JCB continues to expand its

product line and moves its factory to larger quarters. By inventing the first backhoe loader, JCB revolutionizes the construction industry by giving contractors access to simple, powerful earthmovers.

1960's

JCB expands its factory, virtually doubling production capabili-

ties. The company launches the forerunner of today's Jet Visit Program, acquiring an airplane and flying in customers for factory tours.

1970's

As demand for JCB products soars, the

company exports its machines to Germany, Holland, Italy, Spain

and Canada. JCB's Loadall Telescopic Handler revolutionizes the building industry by enabling bricks to be lifted on pallets.



Built in 2000, the JCB North American Headquarters in Savannah, Georgia supports all United States and Canadian dealers and manufactures the world's safest skid steer and compact tracked loader.

#### JCB in North America

JCB has been in North America for over 40 years, but made a huge commitment to the market in 2000, when the North American business and manufacturing center was built in Savannah, Georgia. From this 500,000 square foot facility, JCB supports over 120 dealers in the United States and Canada, providing parts, training and expertise. The Savannah manufacturing floor produces the world's safest skid steer and compact tracked loader.

From Savannah, we are also proud to manufacture the High Mobility Engineer Excavator (HMEE), a high-speed fully armored backhoe loader currently in use by the U.S. Army in Iraq and Afghanistan.



To find out more about the full range of JCB construction equipment, and to find the dealer nearest you, please visit www.jcbna.com.



Built in Savannah, the fully armored JCB High Mobility Engineer Excavator (HMEE) is the world's toughest backhoe. The JCB HMEE is currently deployed by the U.S. Army in Iraq and Afghanistan.

## 1980's

JCB expands its product range to wheeled and tracked excavators. The company develops the first – and still the only – true, high-speed tractor, the Fastrac. JCB launches its telescopic handler in the U.S.

## 1990's

The revolutionary monoboom skid steer is introduced to the

compact range of equipment, quickly heralded as the safest skid steer on the market because of it's unique side-door entry.

## 2000's

JCB builds it's North American headquarters near Savannah.

The JCB Dieselmax engine breaks the land speed record. The company begins manufacturing its own diesel engines. The U.S. Army contracts 800 HMEES, to be built in Savannah.

#### Tomorrow

JCB's commitment to be 'Never Content' will remain. We will continue to develop innovative machines that will better help our customers get the job done. Our family of dealers will continue to grow, insuring you the world-class service and support no matter where you operate your JCB.



### Connect with JCB



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JCB reserves the right to change specifications without notice. Some machines shown within this brochure are fitted with optional equipment which may vary between dealerships.

