

NEW

T4I JCB EXCAVATOR RANGE UPDATE



JCB EXCAVATOR RANGE

JS145 / JS160 / JS190 / JS220 / JZ235 / JS260 / JS330 / JS360



REDEFINING excavation

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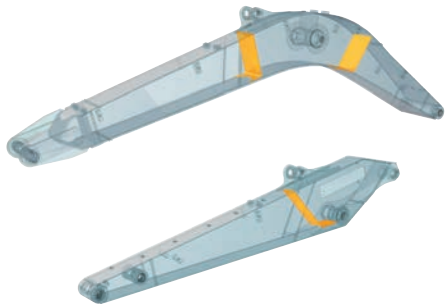


STRENGTH INSIDE AND OUT

BEFORE YOU BUY AN EXCAVATOR, YOU NEED TO KNOW IT'S GOING TO BE TOUGH ENOUGH TO PERFORM ANY JOB YOU ASK OF IT. FORTUNATELY, WITH A JCB EXCAVATOR STRENGTH AND DURABILITY COME AS STANDARD.



The new DIESELMAX 672 engine is based on our proven 4.8 litre unit; to further guarantee durability, there's a heavy-duty cast iron block, bedplate, cylinder head and forged crankshaft.



Boom and dipper

- 1 A JCB Excavators reinforced boom and dipper is made of high tensile strength steel, with internal baffle plates for long life durability. In addition we fit heavy duty wear strips at the dipper end for increased durability.
- 2 Our advanced manufacturing and assembly processes produce high precision and quality assembled components.

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Componentry

- 3 Our engine technology is tried and proven; we've built 200,000 DIESELMAX units since 2004. To ensure similar longevity, the JS145/ 160/ 190/ 220/ 260/ 330/ 360's EcoMAX T4i/Stage 3B engine has been tested for 110,000 hours in 70 different machines across the toughest applications and environments.
- 4 JCB Excavators boast the best components in the industry, including Berco running gear, Kawasaki pumps, Kayaba valve blocks and JCB EcoMAX engines.

We use finite element analysis with extensive rig and endurance testing to make key components last longer.



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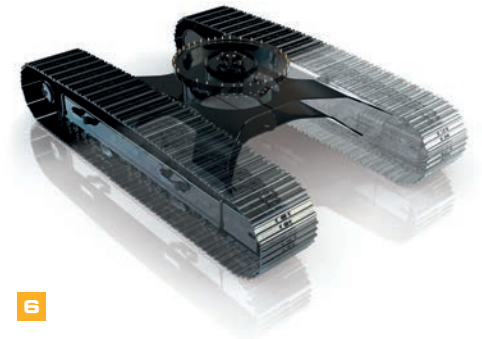


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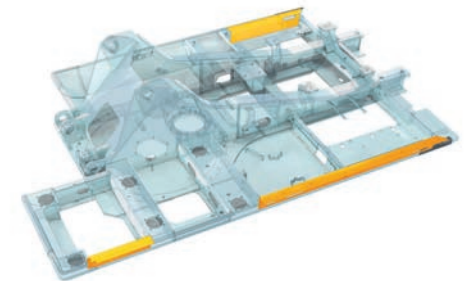
Structural strength

- Our stiff, durable door design gives great strength and rigidity.
- The high-strength undercarriage of a JCB uses a fully-welded X frame construction for long-term durability even in the most demanding applications.
- The high-strength rigid upper frame provides maximum durability and support.
- A closed box section revolving frame increases strength and reduces stress. It is also highly resistant to impact damage. stiff, durable door design gives great strength and rigidity.

UNEARTHED: KEY FACT
 The JS curret is welded to both the upper and lower undercarriage frame.



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MAXIMUM PRODUCTIVITY, MINIMUM SPEND

SAVING MONEY AND TIME IS MORE IMPORTANT THAN EVER, SO WE'VE MADE SURE THE NEW JCB JS RANGE COMPONENTRY – INCLUDING THE ECOMAX T4I ENGINE – WORKS IN PERFECT HARMONY. IN TURN, YOU GET THE MOST PRODUCTIVE AND EFFICIENT MACHINE.

Versed in versatility

1 JCB's quick coupler system makes attachment changing fast and easy, and is purpose-designed for the JS range.

For ultra versatility, JCB offers a full list of auxiliary pipework options including hammer, auxiliary, and low flow.

2 An optional dozer blade increases versatility for grading.

Choose the optional rubber street pads and you can use the JS range on sensitive grounds like asphalt without causing damage.

3 For waterway maintenance and deep extraction, or any application where reach is paramount, a long reach excavator is the model of choice.



The JS range of machines are a versatile machine that's made all the more so by a big range of attachments, enabling you to carry out a wide range of tasks.

Maximum output

- 4 Simultaneous tracking and excavating is smooth and fast with an intuitive multifunction operation.
- 5 The JS range has a solid, stable work platform for fast cycle times.
- 6 With a massive bucket tearout and fast cycle times, the JS range is extremely productive in all applications.
- 7 JCB's innovative hydraulic regeneration system means oil is recycled across the cylinders for faster cycle times and reduced fuel consumption.

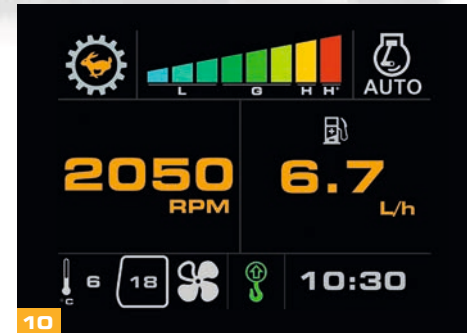
The efficient excavator

- 8 JCB's new EcoMAX T4i/Stage3B engine uses up to 10% less fuel than our Tier 3 units, saving you money. This is partly due to the fact that EcoMAX produces high torque at just 1500 -1600 rpm, making for improved fuel-efficient matching of the hydraulics.
- 9 To reduce noise pollution from unnecessary air flow, the engine-driven cooling fan has a proportional control system, maintaining optimum fan speed.
- 10 The variable power bands allow you to tailor performance – and therefore economy – to specific tasks.



To save fuel, JCB Auto-Idle technology automatically reduces engine speed when hydraulics aren't in use. To optimize fuel efficiency still further, the JS range benefits from advanced hydraulic technology, including optimized hydraulic pump settings, advanced spool design, and cutting edge electronic management software.

UNEARTHED: KEY FACT
A JS range has a cushioned boom and dipper ends to prevent shock loadings, protect your machine and increase operator comfort.



A COMFORTABLE FAVORITE

JCB EXCAVATORS ARE DESIGNED AROUND THE OPERATOR. AFTER ALL, GREAT COMFORT AND EASE OF USE EQUALS GREATER PRODUCTIVITY.

Visibly better

- 1 A 70/30 front screen split gives JCB JS's excellent front visibility. A clear view of the front right track provides easy, safe trench digging and maneuvering.
- 2 An innovative low-level hood provides excellent rearward visibility.

Comfortably in control

- 3 The 4" color multi-function display is easy to read in all light conditions, provides instant operational information, and has a customizable home screen.

The Tool Select feature can set up auxiliary hydraulic circuits quickly and accurately to match flow and pressure requirements of any attachment.

A large laminated glass roof window gives the JS range optimum visibility for working at height.

Light, intuitive and smooth controls improve comfort and productivity. The joystick-mounted power boost button gives extra hydraulic power fast.

A balanced slew and electronic/hydraulic controlled slew braking give speed and precision.





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The working environment

E The JS cab creates a quieter working environment inside and out. Because we've reduced noise levels to 70dB(A) inside and 99dB(A) outside, you can use the machine at any location, any time.

JCB cabs use 6 rubber mounts to minimize noise and vibration.

The positive pressure cab keeps out dirt and dust.

7 JCB's climate control option offers a precisely controlled cab temperature with fresh or recirculated air. Demisting/defrosting functions keep the front window clear.

E There's a spacious storage behind the operator's seat.

E A large floor area with large high grip pedals gives easy and precise tracking.



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The JS cab and controls are independently adjustable so that it's easy to find the perfect operating position.



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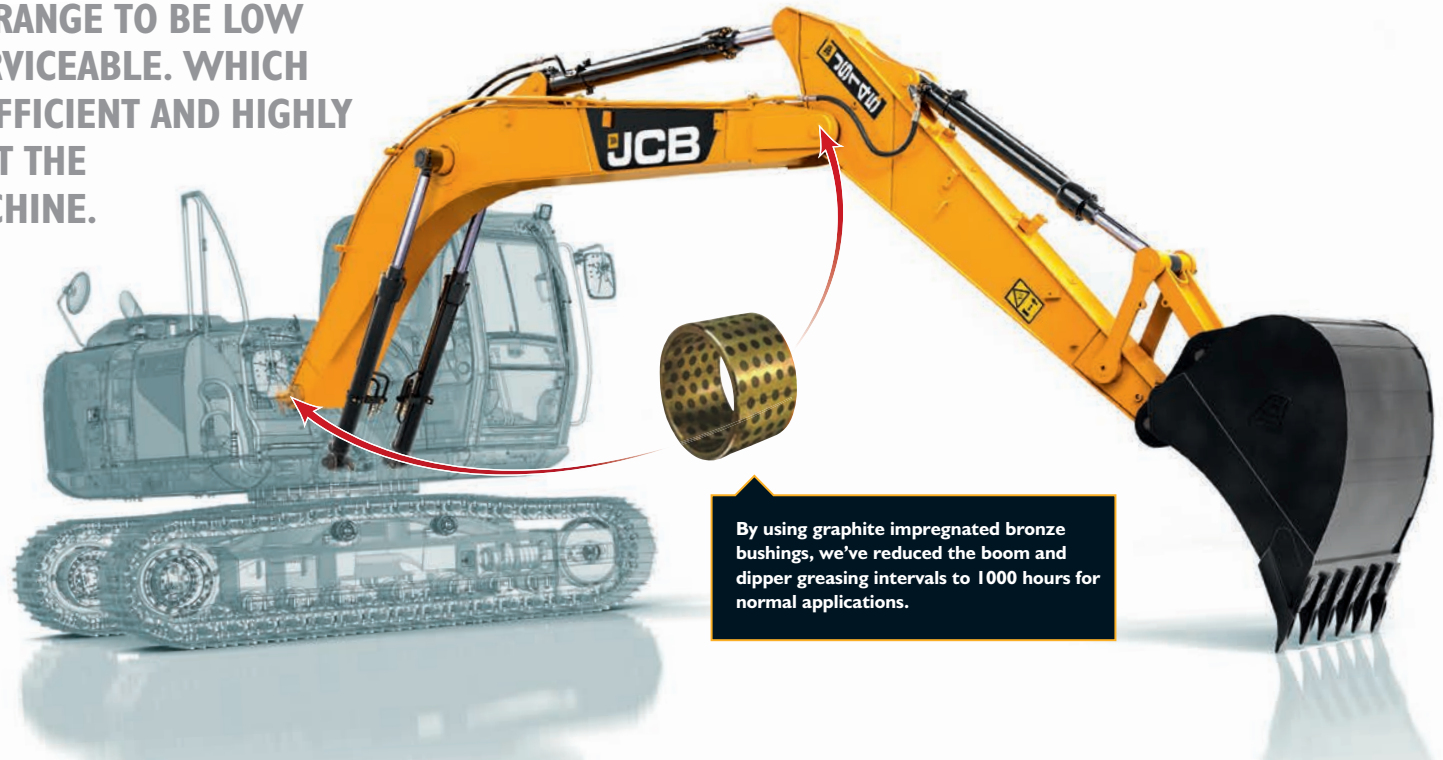
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We offer tailored seating options to suit many different applications.



LESS SERVICING, MORE SERVICE

WE'VE DESIGNED THE JCB JS RANGE TO BE LOW MAINTENANCE AND EASILY SERVICEABLE. WHICH MAKES THEM AFFORDABLE, EFFICIENT AND HIGHLY PRODUCTIVE. HELPING YOU GET THE BEST SERVICE FROM YOUR MACHINE.



By using graphite impregnated bronze bushings, we've reduced the boom and dipper greasing intervals to 1000 hours for normal applications.



1

Easy does it

- 1 The air filter on a JS is easily accessible, and a double-element construction simplifies cleaning.
- 2 JCB's Plexus Oil Filter System extends oil life to 5000 hrs by constantly filtering hydraulic fluid down to 2 microns, reducing risk of contamination.
- 3 The filters on the JS (engine oil, hydraulic oil and fuel) are centrally located for fast, easy servicing.

	SERVICE INTERVALS
Engine oil and oil filter	Every 500 hours
Hydraulic oil	Every 5000 hours
Hydraulic oil filter	Every 1000 hours



2



3



UNEARTHED: KEY FACT
Grease points are centralized for safe and easy access to high level pivots.



Here to help

- 4 JCB's Smart Control automatically checks the engine oil and engine coolant level on machine start up.
- 5 Because they're mounted side by side, the engine radiator, hydraulic cooler and intercooler can be serviced individually and cleaned easily.
- 6 Service your JCB excavator with your local dealer and our trained engineers can minimize downtime. Order genuine JCB parts online and, in 95% of cases, they'll be with you next day. For extra security and machine protection, opt for a package like JCB LiveLink remote machine monitoring.



THE SAFE CHOICE

ON-SITE SAFETY IS CRUCIAL, SO WE'VE DESIGNED THE JCB EXCAVATORS TO INCORPORATE AS MANY CUTTING EDGE SAFEGUARDS AS POSSIBLE. IN SHORT, YOUR OPERATORS ARE IN SAFE HANDS.



1 The JS range service hood opens front-to-rear for easy and safe engine service access.

2 For extra peace of mind, JCB Excavator cabs are available with an optional integral Rollover Protection Structure (ROPS) and level 2 Falling Objects (FOPS)

3 JCB's Safety Level Lock fully isolates hydraulic functions to avoid unintended movements.

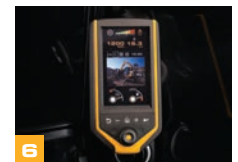
4 JS excavators have a large glass area and low service hood line for superb visibility.

5 Steps and platforms have anti-slip punched steel plates for optimum grip, even in wet or icy conditions. Bolt-on plates have recessed bolts to reduce trip hazards.

6 Our standard rear view and optional side view camera display uninterrupted rear and sideways views on the smart controller display.



We've fitted as standard a bulk head heat shield between the pumps and the engine to guard against heat and noise.



7 Equipped with a full set of side and rear view mirrors for all round visibility and safety compliance.

8 JCB 2GO system means a JCB can only be started in a safe locked position via two separate inputs.

9 There's no need to climb onto the excavator to check oil levels; all routine servicing can be done from ground level.

10 Optional safety rails protect operators from falls when they're on the upper structure of the excavator.

11 Optional beacons can improve on-site safety still further.

12 Choose LED work lights for an even better field of vision on the JCB excavator.



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FULL RANGE OF MACHINES & ATTACHMENTS

		JS145	JS160	JS190	JS220
					
Operating Weight	lb (Kg)	30,757 (13,951)	37,930 (17,205)	43,087 (19,544)	49,470 (22,440)
Net Engine Power	hp (kW)	98 (73)	123 (92)	172 (128)	172 (128)
Dipper Options	ft-in (m)	8-2 (2.5) / 9-10 (3.0)	7-5 (2.25) / 8-10 (2.7) / 10-0 (3.05)	7-5 (2.25) / 8-10 (2.7) / 10-0 (3.0)	6-2 (1.9) / 7-10 (2.4) / 9-10 (3.0)
Machine Variants		Dozer / Rubber Track	LC / NLC	LC / NLC	XD / LONG REACH
Max. Dipper Tearout	lbf (kgf)	14,720 (6,680)	19,259 (8,754)	19,259 (8,754)	32,210 (14,610)
Max. Bucket Tearout	lbf (kgf)	20,667 (9,375)	26,104 (11,839)	26,104 (11,839)	34,835 (15,800)
Max. Dig Depth	ft-in (m)	19-10 (6.05)	20-7 (6.3)	21-8 (6.6)	21-8 (6.62)

		JZ235	JS260	JS330	JS360
					
Operating Weight	lb (Kg)	49,590 (22,444)	59,450 (25,790)	72,816 (33,029)	82,829 (37,571)
Net Engine Power	hp (kW)	172 (128)	197 (147)	271 (202)	271 (202)
Dipper Options	ft-in (m)	6-2 (1.9) / 7-10 (2.4) / 9-10 (3.0)	6-0 (2.0) / 10-2 (3.09) / 11-7 (3.53)	7-3 (2.2) / 8-7 (2.63) / 10-7 (3.23) / 13-2 (4.0)	7-3 (2.2) / 8-7 (2.63) / 10-7 (3.23) / 13-2 (4.0)
Machine Variants		DOZER	XD / LONG REACH	XD / LONG REACH	XD / LONG REACH
Max. Dipper Tearout	lbf (kgf)	32,210 (14,610)	40,285 (18,272)	44,719 (20,284)	54,893 (24,940)
Max. Bucket Tearout	lbf (kgf)	34,835 (15,800)	43,154 (19,574)	43,000 (19,500)	60,296 (27,350)
Max. Dig Depth	ft-in (m)	21-7 (6.57)	23-8 (7.23)	26-11 (8.19)	26-6 (8.0)



STANDARD / HEAVY DUTY BUCKETS

- GP Buckets are available in a variety of widths to increase machine versatility
- A rolled top section increases structural integrity
- Sideplate reinforcement offers additional strength and rigidity
- Replaceable wearparts increase durability and extend the working life



JCB HAMMERS

- Auto stop function ensures no damage to breaker from idle blows
- Silenced as standard for work in urban areas
- Energy recovery gives enhanced performance in hard applications
- JCB Autogrease system fitted to the breaker housing



HYDRAULIC QUICK COUPLERS

- Provides greater safety and less effort for the operator to change buckets and attachments
- Durable design, with hardened steel jaws to minimize wear
- The safety locking pin prevents accidental loss of bucket or attachment



CUTTERS / CRUSHERS

- Supplied with universal jaws as standard with optional steel shear jaws
- Hydraulic speed valves reduce cycle times and ram guards protect piston rods
- Twin ram, single jaw pivot design eliminates displacement forces



DITCHING BUCKETS

- Bolt-on edge available for longer life
- Abrasion resistant "Double Bottom" for longer bucket life
- Center gusset available for most models
- Ideal for storm ditch cleaning applications



MAIN PIN HYDRAULIC THUMBS

- Integrated design on side plates and fingers for greater strength
- Special finger serration for increased holding ability
- Minimal welding required for installation onto the machine
- Linkage allows a rotation (depending on machine make/model) of up to 140° for maximum grappling



CRUSHER BUCKET

- A cost effective solution for turning demolition rubble and site waste into useable material, eliminating hauling and disposal costs
- Powered by the excavator and travels with the excavator
- Eliminates the need to transport, hire or purchase and maintain separate mobile crushing equipment



ROCKWHEEL

- Accurately cuts different materials creating clean trench and tunnel profiles
- Depth and width of cut is also precise reducing excavation and back fill times
- Low vibration levels prevent damage to existing foundations and services
- Exceptionally low noise level makes the attachment ideal for use in urban areas

VALUE ADDED

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.

1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

2 The global network of JCB Parts Centres is another model of efficiency; with 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.

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

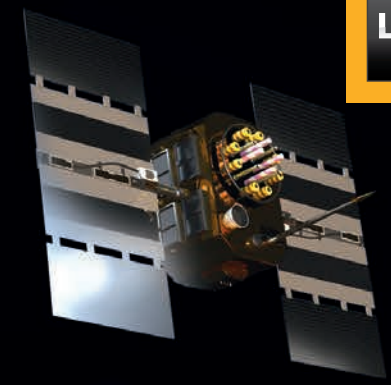
Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.



LIVELINK, KNOWLEDGE IS POWER

JCB LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MONITOR AND MANAGE YOUR MACHINES REMOTELY – ONLINE, BY EMAIL OR BY MOBILE PHONE.

LIVELINK GIVES YOU ACCESS TO A WHOLE HOST OF USEFUL DATA, INCLUDING MACHINE ALERTS, SERVICE DATA AND EVENT HISTORY INFORMATION. ALL YOUR MACHINE INFORMATION IS HANDLED AT A SECURE DATA CENTRE FOR YOUR PEACE OF MIND.



Productivity and cost benefits

Machine location information can improve fleet efficiency and you may even enjoy reduced insurance costs courtesy of the added security that LiveLink brings.

Note : Please consult your local dealer for Livelink availability

Maintenance benefits

JCB LiveLink makes it easy to manage machine maintenance. Accurate hours monitoring and service alerts improve maintenance planning, and real-time location data helps you manage your fleet. You'll also have access to critical machine alerts and maintenance history records.



Security benefits

Keep your machine operating safely with JCB LiveLink. Real-time geofencing alerts tell you when machines move out of predetermined operating zones, and real-time curfew alerts inform you if machines are being used when they're not supposed to be. Real time location information helps you store your machines in the safest places.

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 largest 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 22 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 Dieselmix engine. Having grabbed the headlines when it smashed the world land speed record at 350.092 mph, 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 downtime. 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 JCB-trained technicians provide excellent, expert customer care, whether it's routine servicing or something more urgent.



Almost 1 out of every 2 backhoe loaders sold in the world is a JCB.

1940's



Joseph Cyril Bamford builds his first two-wheeled 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 capabilities. 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.

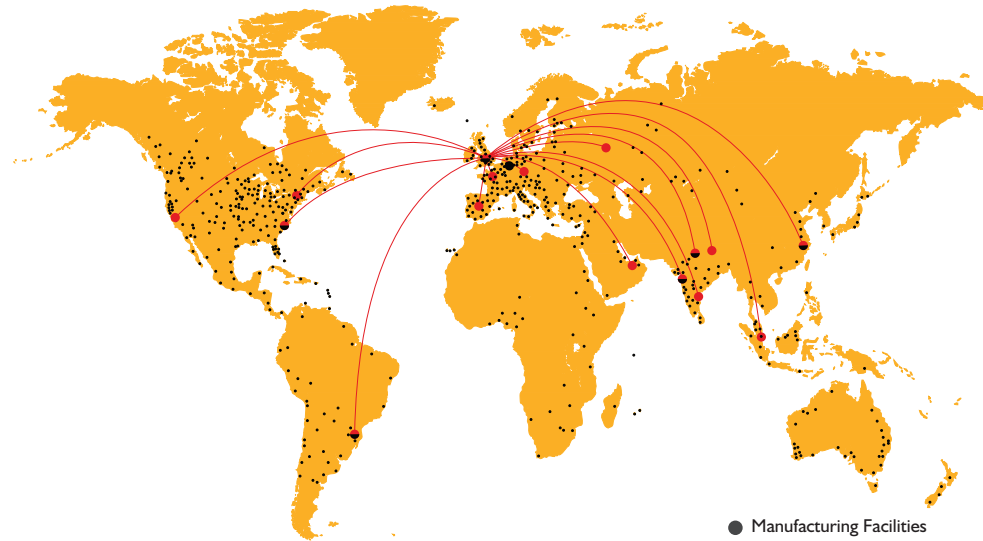


Built in 2000, the JCB North American Headquarters in Savannah, Georgia supports all United States and Canadian dealers and manufactures the world's safest skid steer and compact tracked loader.

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.



- Manufacturing Facilities
- Parts Distribution Centers
- Dealers

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.

2 YEAR WARRANTY

Protection comes standard

- Industry best standard 2-year warranty
- Includes 3-year structural warranty
- Full JCB machine range covered
- First year warranty covers unlimited hours, second year covers up to 2000 hours

JCB is committed to the best aftersales support in the industry. The 2 year standard warranty can be serviced by any authorized JCB dealership and is transferable during the standard 2 year period.



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 its unique side-door entry.

2000's



JCB builds its 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.



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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.

