

TRACKED EXCAVATOR



A Product of Hard Work





A machine for every application

There are 16 models in the JS Auto tracked range, with options of undercarriage and work equipment, so it comes as no surprise that JCB can supply the perfect excavator for virtually any task. Take the quarrying and aggregates industries. They are looking for high, consistent productivity, superb durability and excellent fuel efficiency offered on our over 20-tonne machines. For instance, the JS330, 360 and 460 offer fast, efficient cycle times, expected uptime of around 98% and a robust undercarriage and running gear. And the JS220LR, 260LR, 330LR and JS460LR feature

PRODUCTIVE AND DURABLE IN THE TOUGHEST CONDITIONS



long-reach boom and dippers to get to even the most inaccessible mineral deposits or for clearing irrigation canals or ditches.

When it comes to house building and general contracting, it's more about: ease of use so that different operators can quickly get to grips with the controls; good design with excellent all-round visibility for safe working in a busy environment; and versatility, with machines being required to carry, dig, grade, load and lift. Excellent choices here from our under 20-tonne range are the

JS115, 130LC and 145LC, plus the enhanced power and lift of the JS160, 180 and 190. These same machines also offer versatile, reliable performance in civil engineering, highway and rail construction and maintenance applications. We also provide specialist equipment for dedicated tasks in these industries. For example: the JS220LC TAB features high-lift capability for extracting trench boxes and removing sheet piling; and the JS330ME and JS360ME have optimised boom and arm configurations ideal for the mass extraction of bulk material.

Controllable power

Turbocharged Isuzu Tier 3 engines are quiet, powerful,
reliable, durable and highly fuel efficient

Increased hydraulic flow makes machine operation faster

More dipper force, drawbar pull and bucket dig
force enhance performance

Boom/slew priority as standard speeds up truck loading

Joystick-mounted track gear selection
makes changing travel speed easier



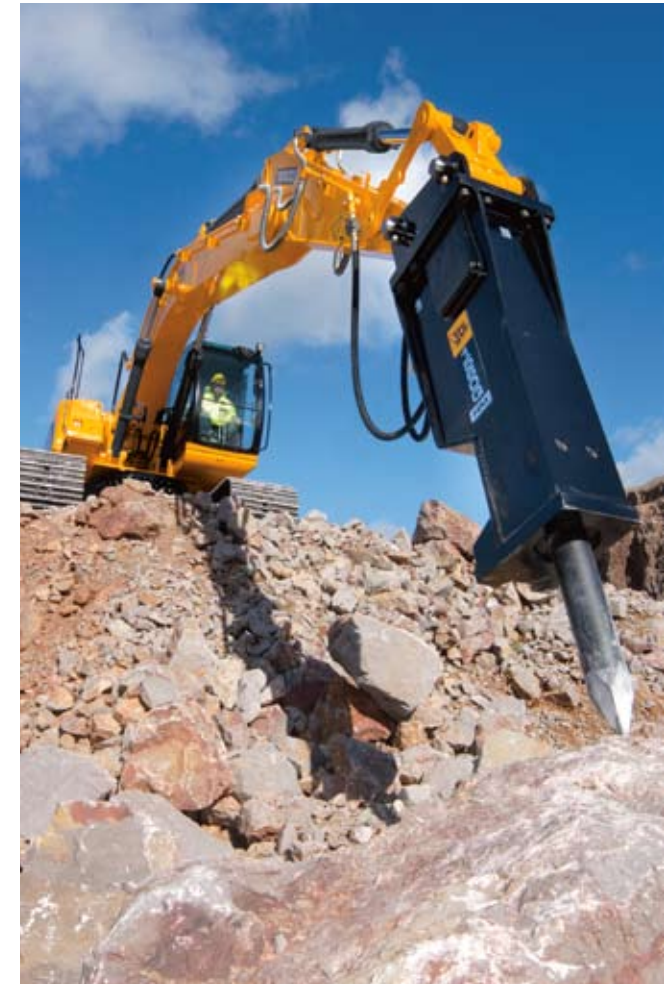
With the introduction of new legislation, the ongoing roll out of the new Tier 3 Isuzu engines continues across the entire JS Auto range, bringing with it a whole host of benefits: increased power and torque, reduced fuel consumption, increased productivity, and reduced noise and vibration, to name but a few. Plus you'll find these new engines also offer an electronic governor, charge air cooling and common rail high pressure injection for increased efficiency.

Components engineered in Japan have the edge when it comes to precision work, so that's where the main hydraulic components are from. They give you increased flow and pressure, which in turn increase available power and speed for improved dipper and bucket dig force, drawbar pull and work equipment speeds. It's also a regenerative system where oil is recycled resulting in faster cycle times and lower fuel consumption.

Moving on to the undercarriage, it's less about precision and more about sheer brute force. For that you need European engineering with the heavy duty X frame construction that's designed to perform in the toughest conditions. Plus, you get a higher tractive effort for climbing and manoeuvring in rough terrain and soft ground conditions.

Add it all together and you've got incredible power and performance. But these machines don't just stop there. Thanks to an enhanced Advanced Management System (AMS), they also put you in total control. This intelligent on-board computer is in charge of all the major functions, automatically giving you that extra power and precision just when you need it, while optimising fuel efficiency. We've also moved the track gear selector from the floor to the right joystick, allowing you to change speed at the same time as carrying out other machine functions.

From the smallest JS115 to our biggest, 46-tonne JS460, these machines give you incredible power along with the fine control you need for accurate and safe operation.





A machine for every application

JS330, 360 and 460 offer productive, reliable performance in tough extraction duties

JS220LR, 260LR, 330LR, 360LR, and 460LR long reach boom and dippers bring normally inaccessible areas within reach

Under-20-tonne machines are easy to use, safe and versatile, ideal for house building

JS220LC TAB extracts trench boxes and removes sheet piling with ease

JS330ME and 360ME optimise mass extraction boom and arm configurations maximising production rates



There are 16 models in the JS Auto tracked range, with options of undercarriage and work equipment, so it comes as no surprise that JCB can supply the perfect excavator for virtually any task.

Take the quarrying and aggregates industries. They are looking for the high, consistent productivity, superb durability and excellent fuel efficiency offered by our over 20-tonne machines. For instance, the JS330 and 460 offer fast, efficient cycle times, expected uptime of around 98% and a robust undercarriage and running gear.

And the JS220LR, 260LR, 330LR, 360LR and JS460LR feature long-reach boom and dippers to get to even the most inaccessible mineral deposits or for clearing irrigation canals or ditches.

When it comes to house building and general contracting, it's more about: ease of use so that different operators can quickly get to grips with the controls; a good compact design with excellent all-round visibility for safe working in a busy environment; and versatility, with machines being required to carry, dig, grade, load and lift. Excellent choices here from our under 20-tonne range are the JS115, 130LC and 145LC, plus the enhanced power and lift of the JS160, 180 and 190.

These same machines also offer versatile, reliable performance in civil engineering, and highway and rail construction and maintenance applications. But we also provide specialist equipment for dedicated tasks in these industries. For example: the JS460LR is purpose designed to give long reach at 24 metres, ideal for river and waterway maintenance, irrigation and swamp draining; the JS220LC TAB features high-lift capability for extracting trench boxes and removing sheet piling; and the JS330ME and 360ME have optimised boom and arm configurations ideal for the mass extraction of bulk material.





Comfort and visibility

Controls positioned within easy reach
result in effortless operation

Fully adjustable AMS monitor, seat and joysticks
give the best working position

Enhanced heating and air conditioning put
climate control at your fingertips

Low-level engine cover and modern
styling significantly improve visibility

Sliding both front screens overhead avoids damage



The new generation JS Autos offer our best cab yet. For a start, it's extremely spacious with a sleek interior design and all the ergonomically designed controls within easy reach. So every operator can find the most comfortable position, we have also ensured the upgraded suspension seat and AMS monitor are fully adjustable.

When you're actually sitting inside the cab you'll find it extremely comfortable. By viscous mounting the whole cab structure, we have been able to reduce noise and vibration levels, and the new Tier 3 engines are significantly quieter giving you a 1.5dB drop in a typical JS220 cab. The positive pressure design with ventilation system reduces dust ingress.

Plus, enhanced heating, optional climate control (standard on the JS330, 360 and 460) and opening front window and side windows let you achieve the optimum cab temperature.

We have also thought about all the essential extras that make your working life a bit easier. So there's a radio mute switch, a timed interior light you can switch on from ground level for access in the dark, an easy-close door, phone holder and charger, plenty of storage space and much more.

These amazing machines go a long way to reducing the stress and fatigue that come with the territory. But, thanks to incredible all-round visibility, they also make it easier and safer to do the job.

With large tinted glass areas on all sides, there is a clear view overhead, enhanced by the clever positioning of the wiper motor; and to both tracks, particularly to the edge of the front right track. To the rear, the new low-level engine cover gives excellent visibility and to the front you can securely store the lower screen inside the upper one before effortlessly sliding the whole lot overhead.





Complete controllability

AMS ensures maximum productivity
at minimum operating cost

Four selectable work modes give
ultimate operating efficiency

Increased diagnostics (no PC required)
make servicing easier and quicker

A full record of machine history aids
resale and pinpoints faults quickly

Cushion control protects the machine
and operator from shock loadings



We've talked about the ergonomic layout of controls in all new generation tracked JS cabs. To make controlling the incredible potential of these machines even easier, we have also introduced an enhanced Advanced Management System (AMS) as standard on all models.

This intelligent but easy-to-use system controls all the machine's major functions for maximum productivity and fuel efficiency, and minimum operating costs. A compact design with an anti-glare screen and clear, easy to use interface, the AMS has four operating modes:

AUTO automatically switches between maximum power and economy depending on hydraulic system loading.

ECONOMY gives you maximum fuel efficiency in normal digging conditions by reducing hydraulic pressure, hydraulic flow and engine rpm.

PRECISION further reduces hydraulic flow and engine rpm giving you more control and accuracy for fine work and grading.

LIFTING gives maximum power with reduced oil flow for controllability.

The AMS also alerts you the instant there's a problem and records all the machine's key operating data: the time it has spent in each mode, attachment hours used, tracking time, and much more. What you get is a picture of the machine's use that can be used to diagnose problems as well as a machine history that is invaluable when it comes to resale.

In addition to AMS, every tracked Auto excavator also features cushion control to the boom and dipper services. For convenience and efficiency, this is always on until deselected. It works to cushion the shock loadings to the machine (protecting your investment) and the operator (making life more comfortable).

Cushion control activated increases cycle times but provides greater controllability and reduces shock loadings. Cushion control de-activated results in faster cycle times for maximum productivity.





Build quality, service access and profit

Modern design reduces risk of damage to superstructure

1000-hour greasing intervals on boom-base and boom-to-dipper pins reduce service time and costs

Cushion control ensures smooth operation and reduces wear and tear

Isuzu Tier 3 engines coupled with JCB AMS maximise productivity while keeping fuel consumption to a minimum

Enhanced access makes field maintenance much easier and quicker for minimum downtime



Whether it's the heaviest digging work at the quarry face, or versatile performance on the construction site, JCB tracked excavators are designed to cost you less while making you more.

So first, these machines come with superb damage protection as standard: curved side skirts and a big clearance over the tracks reduce damage to the superstructure; guards shield the undercarriage from debris; and cushion control on boom and dipper services reduces wear and tear on machine parts at the same time as making things more comfortable for the operator.

Next, we have paid close attention to reducing the cost of running and servicing these machines. You'll find that the new Isuzu Tier 3 engine and AMS mean you can move more material for less fuel, your first engine oil and filter service is at 500 hours, we've moved greasing intervals on boom-base and boom-to-dipper pins from 50 to 1000 hours, and there is a large single engine oil filter instead of two. In addition, while you don't need a laptop to service the JS Autos, you can download the operating history from the AMS when you need it to make your service engineer's life easier.

And finally, service access is a whole lot better too. A hinged belly plate makes getting to the engine sump much simpler and there is a quick-fit drain pipe for use on engine-oil and fuel-tank drain plugs. All the steps and top covers are fitted with non-slip, heavy duty panels, and with the new Tier 3 engine comes true ground level servicing, including a digital display as part of the in-cab AMS for engine oil checks, and remote engine oil and fuel filters. When you look inside the bays, you'll see the finish is extremely high quality, there's plenty of space and it's well laid out for easy access to serviceable parts.

Reliable, economical and durable, these machines make you more profit on each job and give you a higher resale value... if you can bear to part with them.





Excavator

1 000-hour greasing on boom base and dipper pins.

Boom, dipper and bucket hydraulic regeneration circuits.

Boom and dipper pre-configured for
aftermarket installation of hammer.

Short, medium and long dipper options.

Triple-articulated-boom (TAB) option available.

Hydraulics

Proven reliability of Japanese major components.

Efficient proportional flow to lever movement for greater control.

Plexus filter system.

Regenerative circuits, increased ram speed and better flow efficiency.

Cushion control on boom and dipper as standard.

External noise level reduced

Variable speed cooling fan for a quicker warm up.

Noise levels reduced, cooling fan only runs as required – 102dB.

Single face cooling pack for increased efficiency,
slower fan speed and reduced noise.





Cab and Controls

Excellent all-round visibility.

Gas-strut-assisted front window.

AMS (Automatic Management System).

Servo excavator controls.

Plenty of storage space.

Climate control option.

Superstructure

Easy access to all components.

Low bonnet line for excellent visibility.

Perforated plate steel walkways.

Prominent customer signage area.

Curved high track clearance and side skirts for reduced damage.

Undercarriage

Large diameter slew ring and turret with grouped lubrication panel.

Track motor guards and protected hoses.

Central under guards as standard.

Large recovery point at front and rear.

Excavator

1 000-hour greasing on boom base and dipper pins.

Boom, dipper and bucket regeneration circuits.

Boom and dipper pre-configured for aftermarket installation of hammer pipework.

Short, medium and long dipper options.

Triple-articulated-boom, long-reach booms and dippers, and demolition specification options.

Hydraulics

Proven reliability of Japanese components.

Efficient proportional flow to lever movement for greater control.

Plexus filter system.

Regenerative circuits, increased ram speed and better flow efficiency.

Cushion control on boom and dipper as standard.

External noise level reduced

Variable speed cooling fan for a quicker warm up.

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Cab and Controls




- Excellent all-round visibility.
- Gas-strut-assisted front window.
- AMS (Automatic Management System).
- Climate control option.
- Servo excavator controls.
- Plenty of storage space.




Superstructure




- Easy access to all components.
- Low bonnet line for excellent visibility.
- Perforated plate steel walkways.
- Prominent customer signage area.
- Curved high track clearance and side skirts for reduced damage.




Undercarriage

- Single track guides as standard.
- Large diameter slew ring and turret with grouped lubrication panel.
- Track motor guards and protected hoses.
- Central under guards as standard.
- Large recovery point at front and rear.

		JSI15	JSI30LC	JSI45
				
Operating weight	tonnes	11.8 – 12.2	12.7 – 13.0	13.9 – 15.0
Net engine power	kW (hp)	67.2 (90)	70 (94)	70 (94)
Dipper options	m	1.95 / 2.25 / 2.8	2.1 / 2.5 / 3	2.1 / 2.5 / 3.0
Undercarriage options		LC	LC	LC
Machine variants		DOZER	DOZER	TAB / DOZER / HD
Max. dipper tearout	kgf	5546	7515	7515
Max. bucket tearout	kgf	9375	9375	9375
Pump flow	ltr/min	2 x 100	2 x 128	2 x 128

		JSI60	JSI80	JSI90
				
Operating weight	tonnes	16.9 – 17.9	18.8 – 19.5	19.4 – 20.0
Net engine power	kW (hp)	92 (123)	92 (123)	124 (166)
Dipper options	m	2.25 / 2.7 / 3.05	2.25 / 2.7 / 3.05	2.25 / 2.7 / 3.05
Undercarriage options		LC / NLC	LC / NLC	LC / NLC
Machine variants		TAB	TAB	TAB
Max. dipper tearout	kgf	8754	8754	8754
Max. bucket tearout	kgf	11839	11839	11839
Pump flow	ltr/min	2 x 138	2 x 138	2 x 140

JS200	JS210	JS220	JS235HD	JS240
				
19.85 – 21.2	21.1 – 21.7	21.1 – 23.5	24	23.75 – 24.62
128 (172)	128 (172)	128 (172)	128 (172)	147 (197)
1.91 / 2.4 / 3.0	1.91 / 2.4 / 3.0	1.91 / 2.4 / 3.0	1.91 / 2.4 / 3.0	2 / 2.44 / 3.09 / 3.53
NC / SC / LC	LC	NC / SC / LC	–	NC / SC / LC
–	–	XD / TAB / LONG REACH	TAB	–
14610	14610	14610	14610	18272
15800	15800	15800	15800	19574
2 x 214	2 x 214	2 x 214	2 x 214	2 x 226

JS260	JS290	JS330	JS360	JS460
				
24.92 – 27.19	30.48 – 31.24	31.9 – 32.6	36.5 – 38.0	45.05 – 46.8
147 (197)	161 (216)	202 (270)	202 (270)	228 (305)
2 / 2.44 / 3.09 / 3.54	2.5 / 3.1 / 3.7	2.21 / 2.63 / 3.23 / 4.03	2.21 / 2.63 / 3.23 / 4.03	2.5 / 3.36 / 4 / 4.76
NC / SC / LC	NLC / LC	LC / NLC	LC / NLC	LC
XD / TAB / LR	TAB / XD	XD / ME / TAB / LR / HRD	XD / ME / TAB / LR / HRD	LR
18272	16713	20000	24940	54800
19574	23045	19500	27350	60500
2 x 226	2 x 250	2 x 276	2 x 310	2 x 340



MECHANICAL QUICKHITCH

Screw locking mechanism complete with lock plate cover over the screw head

Owners manual and appropriate safety certificate offers additional peace of mind

Available from JS130 – JS220



MPG QUICKHITCH

Hydraulic operation from within the cab makes the MPG easy to use

Hydraulic check valve and manual locking pin ensure additional safety

Allows bucket mounting in face shovel mode



BUG QUICKHITCH

Full hydraulic operation from within the cab makes the BUG easy to use

Hydraulic check valve and automatic locking device ensure additional safety

Allows bucket mounting in face shovel mode



BUCKETS

Optimum tooth spacing provides maximum protection of the toeplate and improves penetration

Additional horizontal wear strips add strength and extend bucket life in hard and abrasive materials

Weld in sidecutters improves strength and durability, increasing bucket life

Choice of wearparts available



HEAVY-DUTY BUCKETS

Additional weld in Esco sidecutters assist breakout force protecting the bucket shell and extending bucket life

Two-part Esco tooth system selected to optimise digging performance

Side shrouds provide added protection for the bucket shell, extending bucket life

Double-skinned shell increases bucket life and side-plate reinforcements give strength and rigidity



SCOOP BUCKETS

General purpose, heavy-duty and extra heavy-duty models available

Higher productivity from 100% fill factor design

Class-leading tear out force from low-profile design and sunken pins

No interference with machines boom or cab



HAMMERMASTER

Hard-hitting range with long piston stroke for increased breaking performance

Auto-stop function ensures no damage to the breaker from idle blows

Energy recovery gives enhanced performance

JCB Autogrease fitted as standard

Durable housing incorporates heavy-duty rock claw



MULTIPROCESSOR

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

360° hydraulic rotation with break back protection



A history of innovation



Sir Anthony Bamford – Chairman

A family business. JCB is no ordinary business. From the dreams of one pioneering man, Joseph Cyril Bamford, we have grown into the world's biggest privately owned construction equipment company by volume – a globally recognised brand with a reputation for innovation. Since 1945, the same attention to detail, passion for progress and committed family spirit has taken us from strength to strength.

Ours has been a history of groundbreaking developments. In 1953 we were the first to introduce the revolutionary backhoe loader, now a market leader across the globe. From the first ever full-suspension tractor, to the safety landmark of the side-entry skid steer, we have kept on leading and innovating ever since.

We know how vital it is to get ideas to market fast, so our customers have the very best equipment at their fingertips, and because we are still the family-run business we have always been, we can make bold long-term decisions about things we believe in.

A truly global company. Nowadays JCB operates across all five continents, manufacturing at 18 factories in the UK, Brazil, Germany, China, North America and India. Over 1,500 dealerships sell our products in over 150 countries, employing over 8,000 highly trained people. We are one of the world's top three manufacturers of construction equipment, with some of the finest engineering facilities and a £27 million World Parts Centre sending out over a million genuine parts and attachments every week – most reaching our major markets within 24 hours.

We pair this global perspective with keen local knowledge. Our people have an in-depth understanding of the conditions and characteristics of the countries in which they work, enabling us to tailor our technology and service to meet specific local needs. It all means that, from the heat of the desert to the frozen Arctic, we are helping businesses the world over to work more productively and more profitably.

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. We continue to invest heavily in research and development as the key to our progress. This commitment not only enables us to find new solutions for new markets, but also to constantly improve practices, keep manufacturing lean, minimise environmental impact and make our machines more productive, powerful and profitable.

We have won numerous awards for our innovative designs and are renowned for cutting-edge systems and product excellence. We are now proud to offer over 300 machines – we are the global number one in backhoe loaders and telescopic handlers, we have the world's largest range of compact equipment and we now offer the advanced JCB Vibromax compaction range. Every machine we make is continuously enhanced to ensure our products remain cutting-edge and class-leading.





A commitment to our customers that goes on and 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 a complete solution.

But legendary service is about more than responsiveness. It's about anticipating new needs, offering solutions and exceeding expectations. With that in mind, we are always seeking out improvements that guarantee quality in everything from our products to our working practices.

JCB Dieselmax engine: a great engineering achievement. Evidence of our focus on innovation, customer needs and global thinking 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.

With a highly advanced combustion system, JCB Dieselmax complies with all the latest emissions regulations. Its pioneering spirit typifies what makes us the company we are today and is a true testimony to British engineering. More than that, the record – set in the extreme conditions of the Bonneville Salt Flats environment – proves the inherent strength and durability of the engine which is now being incorporated into an increasingly diverse range of JCB machines.

State-of-the-art manufacturing for new standards in quality. JCB Heavy Products manufactures a range of 25 excavators, including conventional tracked, zero tailswing tracked and wheeled variants from 7 to 46 tonnes. In 2008, the company moved into a purpose-built 450,000 sq ft factory, increasing production capacity by more than 60%. The brand new manufacturing plant demonstrates our commitment to the global excavator market, with a £40 million investment in state-of-the-art production facilities which set new standards in quality and working conditions.



The best back-up in the business

Wherever you are, we are. Our mission to provide world-class support and deliver 100% satisfaction reaches into more than 1,500 dealer depots, spanning 150 countries across five continents. The aim? To bring you global expertise at a local level. We truly believe no other manufacturer does more to understand the subtle differences between one region of the world and another. It's a degree of attention that we maintain at every level of the company and an assurance to our customers that wherever they are in the world, JCB will fulfil their needs.

Trust the genuine article. At the heart of the support network is our impressive World Parts Centre, a state-of-the-art facility operating 24/7 to dispatch more than a million genuine parts and attachments every week to our dealers and international distribution centres. Because we understand the need to minimise downtime, we utilise the latest logistics and warehouse management systems and have committed to an 'Anywhere in 24 hours' strategy.

Keeping you up and running. Just as important as genuine JCB parts are the people who fit and maintain them. Our JCB-trained technicians in all of those 1,500-plus dealer depots provide excellent, expert customer care, whether it's routine servicing or something more urgent. If there is an emergency breakdown situation, we need to act fast. This is why all our dealers operate their own fleets of support vehicles, enabling parts to be delivered quickly and fitted expertly, and fulfilling our promise to keep our customers working.

Advanced technology. At JCB, we are constantly looking at new, innovative ways to help you get the most out of your machine. Our latest development is JCB LiveLink, an advanced telematics system using satellite and cellular technology that enables you to better protect your machine and accurately monitor and improve its performance. Using JCB LiveLink can benefit your business in many ways, from increasing the

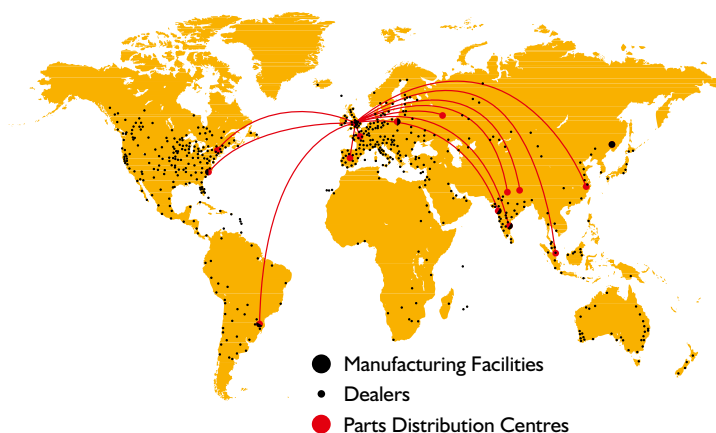
security of your machines to improving fleet utilisation. It can also enable your JCB dealer to view your machine and guarantee timely servicing of your fleet, improving uptime.

Maximising earning potential. We grow as our customers grow. That's why, at JCB, we are committed to offering expert financial advice and support to help customers maximise their earning potential.

Finance options* are available for new and used machinery, all part of our dedication to helping customers preserve their working capital while spreading costs in the most effective and tax-efficient way.

And as well as financial help, we are also happy to offer JCB Insurance.* We specialise in construction and industrial insurance and in offering Insurance Premium Finance facilities.

* Please check individual countries for available services.





Environmental and social responsibility



Committed to a cleaner world. At JCB we recognise that the climate and the environment are changing. 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. We have introduced the world's first automatic lock-up torque converter, cutting fuel consumption by up to 25%. Further to this development we are also investigating and researching a number of alternative drive technologies to complement our B20 biofuel capability.

In addition to developing cleaner and more efficient machines, we have a commitment to ensuring our manufacturing facilities meet the highest environmental standards.

Sustainability in all we do. We search every part of our business to find areas for improvement, whether that's monitoring water usage, managing energy, minimising hazardous materials or supplier development. We currently recycle over 80% of all waste generated and we are aiming for zero to landfill by 2010. 80% of materials supplied are from ISO 14001 accredited companies. 95% of all machines are designed to be remanufactured for future use. It's all part of our pledge to minimise the need for raw materials and reduce waste.

Taking care. Companies don't operate in a vacuum, they're an integral part of communities big and small, local and international. JCB understands that we have the opportunity to improve people's lives, not only with our world-class products but also through our actions as good neighbours and responsible corporate citizens. We make sure that wherever JCB has a presence, it's a positive one. All our factories are built in harmony with the surrounding environment. In addition, our Lady Bamford Trust Center has provided better school facilities for children in rural India.

We have provided an instantaneous response to devastating disasters, such as earthquakes in Turkey, Pakistan and China, mudslides in Mexico and the Asian tsunami – for which JCB provided more than £2m worth of machinery to support relief efforts.







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

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