

ARTICULATED DUMP TRUCK



A Product of Hard Work





**An enviable reputation for strength,
power and performance**

WORKS HARDER. WORKS FASTER. WORKS LONGER



Since JCB introduced the popular 712 and 716 in the late 1980s, we've re-launched and expanded our Articulated Dump Truck (ADT) range, bringing you the 714, 718 and, more recently, the 722. The styling of the new range reveals a lot about the design and engineering processes that lie beneath. Built with underlying comfort, reliability and capability in mind, these machines have a justified reputation for strength, power and performance. They also have that unique identity that sets JCB ADTs aside from any others.

The ADT family is an integral part of the JCB Heavy Equipment Range. In line with our Excavators, and Wheeled Loading Shovels, our ADTs provide you with complete material handling solutions that have been tried, tested and proven over the years.

Whatever your need or application, wherever you are around the world, our ADT machines will always provide you with the power, reliability and efficiency you need to get the job done quickly, safely and profitably.

722 – New levels of power and performance

270hp turbocharged 6-cylinder engine

Constant 6-wheel drive and limited slip differentials on all drive axles

6-speed forward and 3 reverse gears with manual or automatic operation

A maximum speed of 46kph forward and 32kph in reverse improves cycle times

Dry disc dual braking on all wheels with exhaust brake

20 metric tonne payload capacity 25° scow angle and 74° body tipping give effective material discharge



It's all about supply and demand. The market demands a machine like this remarkable 22 US short ton ADT.

You asked for power. This machine gives you a 6.7-litre, 6-cylinder, 270-horsepower push. You wanted traction. The 722's constant 6-wheel drive, inclusive of limited slip differentials on all drive axles, makes sure you never get stuck in the mud.

And where would you be without speed? Along with its powerful engine, the 722 has a Smoothshift 6-speed forward, 3-speed reverse transmission so it can reach top speeds of 46kph in forward gear and a maximum of 32kph in reverse.

When you're going this fast you also need to know you can slow down. That's why we've incorporated dry disc braking, with single caliper actuation per disc on all wheels, and an exhaust brake.

When it comes to capacity, the 722 can accommodate up to 20 metric tonnes in its rear body. Add this to a combination of a 74° tipping angle, a 25° scow and a tipping time of 13 seconds fully laden, and you can see why this machine's extremely effective at material handling.

But all this hard work doesn't mean you have to sacrifice comfort. With front axle suspension and an A-frame bogie beam rear suspension, rider comfort on the 722 is second to none.

So, you've got power, control, comfort, the ability to operate where other heavier machines can't, plus simple management systems that are straightforward to monitor and maintain. It all makes the JCB 722 exactly what you've been asking for.





718 – A powerful mid-range performer

178hp turbocharged 6-cylinder engine

Selectable 2 or 4-wheel drive and limited slip differentials on all drive axles

6-speed forward and 3 reverse gears with manual or automatic operation

A maximum speed of 40kph forward and 27kph in reverse

Dry disc dual braking with single caliper actuation per disc on all wheels

18 US short ton payload capacity, 25° scow angle and 84° body tipping give effective material discharge



The 718 is unlike any other machine in the marketplace. It has the ability to carry a heavier payload (up to 16.33 metric tonnes in the back) than its smaller brother, the 714, but at the same time it's still a lot lighter than a number of its contemporaries. This gives you huge benefits in terms of superior manoeuvrability and minimal ground damage.

With a 6.7-litre, 6-cylinder turbocharged engine, producing 178hp, the 718 has the power. But it also allows you to achieve maximum traction control while on the move, thanks to 2 or 4-wheel drive selection at the touch of a button added to limited slip differentials on all drive axles.

To improve your cycle times, both on and off site, we've introduced a JCB Smoothshift transmission. This means that while roading unladen, the 718 can reach a top speed of 40kph in forward gear and 27kph in reverse. Safe and efficient stopping is achieved using effective dry disc braking on all four wheels. And, with an improved 84° tip angle, the 718 really does give you excellent material discharge.

Then there's operator comfort. For the smoothest ride, the 718 is fitted with a patented JCB suspension system that also enables the machine to cope with the more demanding conditions associated with heavier loads.

Power, manoeuvrability, performance, comfort ... all in all, the mid-range 718 is just the job.





714 – Small machine, big performer

165hp turbocharged 6-cylinder engine

Selectable 2 or 4-wheel drive and
limited slip differentials on all drive axles

6-speed forward and 3 reverse gears with
manual or automatic operation

A maximum speed of 41kph forward
and 30kph in reverse improves cycle times

Dry disc dual braking with single caliper
actuation per disc on all wheels

14 US short ton payload capacity, 25° scow angle
and 84° body tipping angle give effective material discharge



At the smaller end of the scale we bring you the 714. It's an advanced, 14 US short ton machine that packs all the power, versatility and speed you need to get the job done.

With the ability to carry 12.7 metric tonne, the 714 is the perfect small machine to use where you need maximum manoeuvrability, often in access-restricted areas, but you also need to make sure there's minimum ground damage. The machine body is extremely strong and durable and, with a scow angle of 25° and body tipping angle of 84°, it's hard to beat when it comes to material handling.

This makes the 714 great for site preparation, hauling applications in urban developments, golf course construction, landscaping, land contouring and rental operations.

Driven by a 6.7-litre engine producing 165hp, the 714 also features optional 2 or 4-wheel drive that you can select on the move at the touch of a button, so you can always get out of awkward situations.

An incorporated Smoothshift transmission and powerful engine means the 714 can reach speeds up to 41kph, making sure you achieve excellent results in good time. Plus, you can slow down and stop in total safety thanks to caliper braking on all four wheels.

It all makes for a machine that's big on everything, except size. Add this compact performer to the mid range, powerful 718 and the innovative 722, and you can see that JCB have an ADT you can trust to get the job done efficiently, effectively and profitably, whatever the application.





Cab

2 man cab for safe operator training.

Air conditioning fitted as standard.

Simple controls ensure easy operation.

Excellent all round visibility for safe operation.

Optional reversing camera.

Service Access

Single piece engine cover hinged at cab for excellent service/maintenance access.

Hinged cooling pack simplifies maintenance and helps ensure maximum cooling efficiency.

Battery isolator located conveniently at cab access.

Ground level access to all grease points helps to encourage routine maintenance.

IP69 electrics maximising system integrity and protection.

EMS monitoring system.





Body

74° tip angle provides full discharge.

High tensile steel body ensures reduced wear and long life.

Optional, self-opening mechanical tailgate (718/722).

Fabrication

Robust and durable chassis design gives long service life.

45° articulation provides excellent manoeuvrability.

Oscillation of rear chassis independent of front for safety and positive ground engagement.

Front and rear recovery hitch points.

Driveline

Powerful engine – high power to weight ratio.

Fully automatic 'Smoothshift' transmission ensures simple operation machine drive to conditions.

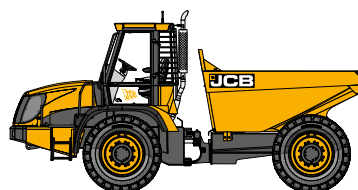
714/718 4- or 2-wheel drive, 722 6-wheel drive with lock up differentials.

Limited Slip Differential (LSD) axles standard ensuring excellent traction.

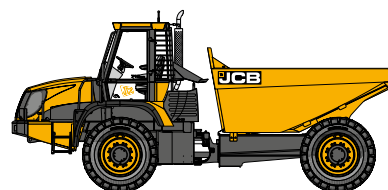
Fully suspended front axle (718/722) for comfort and speed.

Choice of tyre options to suit differing ground conditions and applications.

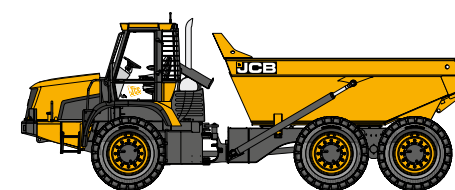
ADT 714



ADT 718



ADT 722



Gross power to SAE J1995/ISO 14396	kW (hp)	119 (160)	129 (173)	194 (260)
Maximum torque	Nm	732	800	990
Transmission		Smoothshift ZF 6WG160	Smoothshift ZF 6WG160	Smoothshift ZF 6WG210
Braking		Dual-circuit dry disc on all wheels	Dual-circuit dry disc on all wheels	Dual-circuit dry disc on all wheels / exhaust brake
Suspension – front		Fixed	4-bar parallel link with single acting struts	4-bar parallel link with double acting struts
Suspension – rear		Fixed	Fixed	A-frame with rocking beam
Body Volume – heaped	m³ (yd³)	7.35 (9.6)	9.6 (12.56)	12.0 (15.7)
Load capacity	tonnes (lb)	13.14 (28969)	16.33 (36000)	20 (44092)
Tipping angle	degrees	84	84	74
Articulation angle	degrees	36	40	45



Your machine – working efficiently, secure and in good health

JCB LiveLink and Guardian are
the key to all three



As part of our dedication to looking at new, innovative ways to help you get the most out of your machine, our latest development is JCB LiveLink: an advanced machine monitoring system that enables you to better protect your investment and accurately monitor and improve machine performance.

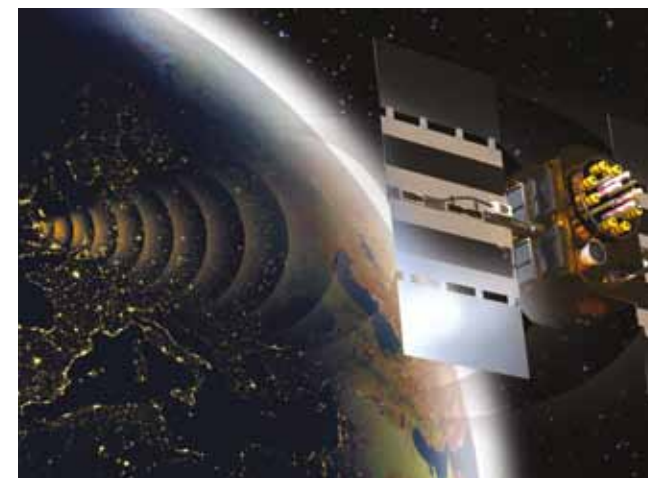
JCB LiveLink is a software system that enables JCB owners to monitor and manage their machines remotely. All you need is a PC connected to the internet. The LiveLink computer is built into the machine where it collects information from a number of sensors. This information is sent, using mobile communications technology, to JCB's secure data centre. Machine management information is then displayed to users via the LiveLink website, by email or via mobile phone.

By providing you with information on the usage and productivity of your fleet, JCB LiveLink enables you to keep track of each machine's efficiency, ensuring that you get the best value for money possible.

By providing information on the location, movement and activity of machines, the system can also assist in ensuring machines are operated at the correct times and helps to protect them from theft. And, JCB LiveLink helps machine owners to confirm that their machines are well maintained and in good health without having to travel around work sites inspecting machines.

In response to increasing concerns regarding machine security, we now also offer JCB Guardian as an option on every new JCB machine. JCB Guardian is a package of theft protection and monitoring systems that includes LiveLink telemetry along with *CESAR identification, immobiliser technology and a host of optional locks and guards. It's your peace of mind solution that can also result in considerable insurance premium savings.

**Territory specific*



JCB Assetcare

Flexible aftercare solutions

JCB Assetcare is a range of flexible service options designed to ensure you get the very highest standards of machine servicing, no matter what your budget. It guarantees you the optimum level of aftersales support, with highly skilled, factory-trained engineers using genuine JCB parts and lubricants to maintain maximum machine performance.

This allows your machine to be covered to maximise uptime and profitability throughout its operating life.

*“For complete peace of mind
and cost predictability
choose JCB Assetcare.”*

JCB Assetcare offers you the following options, which can be tailor-made to meet your specific requirements including excellence as standard:

For complete peace of mind and total budget predictability, your JCB dealer can offer a **Full Repair and Maintenance package**, with a fixed monthly sum covering all regular maintenance and necessary repairs including **Flexicare** for excavators and wheeled loading shovels, to give a pay by the hour alternative.

A **JCB Service Agreement** allows you to plan and manage your maintenance budget over a period of hours, or years of machine use, as determined by you. The price is maintained for the duration of the agreement and includes all parts, lubricants, labour and travel to maximise your machine performance.

JCB Sure Price Service (pay as you go) includes all genuine JCB lubricants, filters, greases and other parts and is carried out as you require it. The all-inclusive price also covers labour, 100 point check and any travel. Service intervals are hours based (usually every 500 hours) and no prior agreement is required; simply advise your dealer when the machine reaches the recommended service interval for great value for money.

JCB Machinery Protection Plan protects you against any unexpected failure for up to 2, 3, 4 or 5 years or up to 10,000 hours depending on machine type. You can take up a Machinery Protection Plan at any time during the first three months of ownership, and the package is transferable on the initial machine sale. Coverage options are 500, 1000, 1500 or 2000 hours per year (model dependent).

JCB Driveline Protection Plan – sign up to a Service Agreement on Backhoe or Loadall mechanical transmission machines and get FREE Driveline Protection for every 1,000 hours you commit to (covers Engine, Transmission and Axle).

For the full terms and conditions of the above programmes please speak to your local dealer.



A few words about JCB

A groundbreaking, world class family business with a commitment to supporting our customers and protecting the environment



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. Since 1945, the same attention to detail, passion for progress and family spirit has taken us from strength to strength.

Nowadays JCB operates across five continents, manufacturing at 18 factories in the UK, Brazil, Germany, China, North America and India. With 1,500 dealer depots selling and supporting our products in over 150 countries, we are the global market leader for backhoe loaders and telescopic handlers.

A history of world-class innovation. Our business has always been driven by innovation, using only the most advanced technology, meticulous design, precision engineering and rigorous testing. Evidence of this commitment to innovation is illustrated in our revolutionary JCB Dieselmix engine. Having grabbed the headlines when it smashed the world diesel land speed record at 350.092mph, it is now providing our customers with tomorrow's performance today.



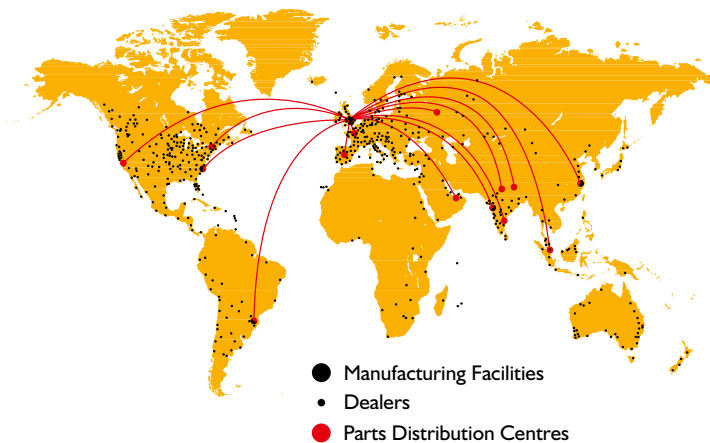
Doing things more efficiently, more sustainably. Since 2007 we have reduced our carbon emissions by 20%. We are continually working to further reduce the carbon footprint of our operations and, in partnership with our suppliers, our whole supply chain. We are also committed to designing our products to be sustainable during manufacturing, over the life of the machine and through end-of-life recycling. Our new Eco machines, for example, offer significant fuel and carbon savings; an average of 16% on the Eco backhoes and 22% on the 8085 Eco.





The best back-up in the business

Whether we're providing you with support, parts or finance, we aim for 100% satisfaction. It's all part of our promise to put you, the customer, first



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.

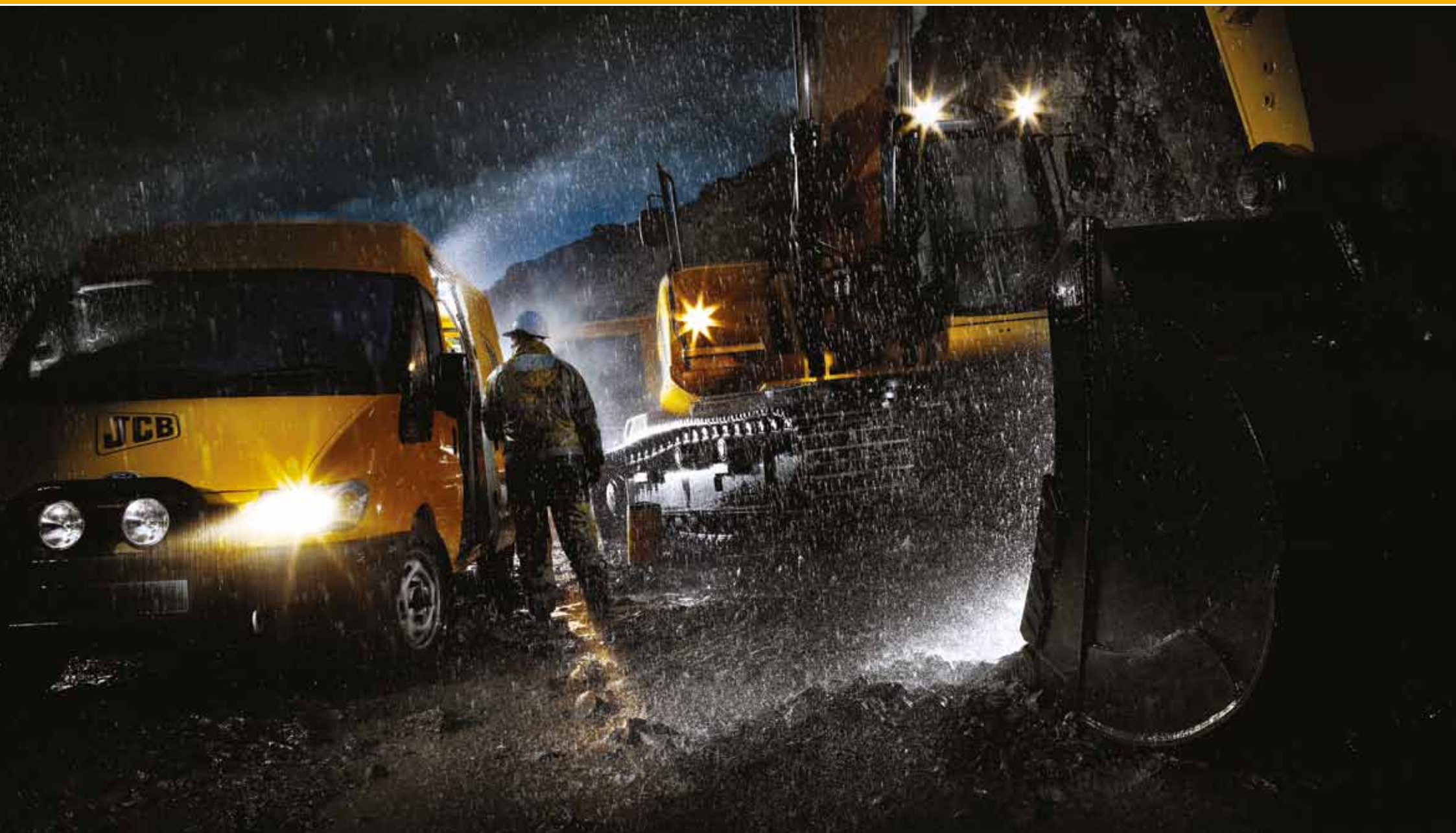
Maximising earning potential. We grow as our customers grow. That's why, at JCB, we are committed to offering expert financial advice and support to help customers maximise their earning potential.

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.*







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

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