

THE JCB ARTICULATED DUMP TRUCK RANGE



A Product
of Hard Work

An enviable reputation for strength, power and performance

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 in the world, our ADT machines will provide you with the power, reliability and efficiency you need to get the job done quickly, safely and profitably.

THE JCB ARTI



CULATED DUMP TRUCK RANGE



A Product
of Hard Work

FAST FACTS

- 260hp 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-degree scow angle and 74-degree body tipping give effective material discharge



722 – New levels of power and performance

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, 260-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-degree tipping angle, a 25-degree 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

The 718 is unlike any other machine in the market-place. 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 5.9-litre, 6-cylinder turbocharged engine, producing 173hp, 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 26kph in reverse. Safe and efficient stopping is achieved using effective dry disc braking on all four wheels.



And, with an improved 84-degree 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.

FAST FACTS

- 173hp 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 26kph in reverse
- Dry disc dual braking with single caliper actuation per disc on all wheels
- 18 US short ton payload capacity, 25-degree scow angle and 84-degree body tipping give effective material discharge



FAST FACTS

- 150hp 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 48kph forward and 32kph 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-degree scow angle and 84-degree body tipping angle give effective material discharge



714 – Small machine, big performer

At the smaller end of the scale we bring you the ADT 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 degrees and body tipping angle of 84 degrees, it's hard to beat when it comes to material handling.

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

Driven by a 5.9-litre engine producing 150hp, 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 48kph, making sure you achieve excellent result 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.





ARTICULATED DUMP TRUCK

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



K MACHINE WALKAROUND



BODY

- 74 degree 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 degree 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

ARTICULATED DUMP TRUCK RANGE

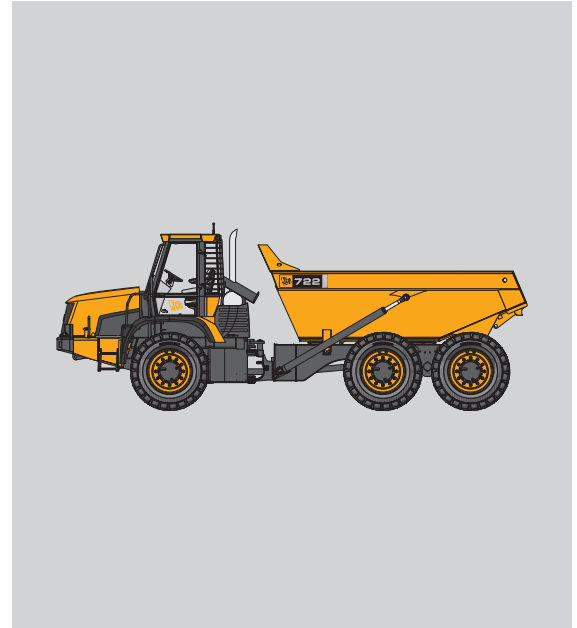
ADT 714



ADT 718



ADT 722



Gross Power to SAE J1995/ISO 14396	kW (hp)	112 (150)	129 (173)	194 (260)
Maximum Torque	Nm	617	786	990
Transmission		Smoothshift ZF 6WG I60	Smoothshift ZF 6WG I60	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	m ³ (yd ³)	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





The best back-up in the business

Always on hand to help

You demand more from your machines than ever before: more efficiency, more reliability, more performance. That's why superb product support has never been so vital.



Together with our extensive dealer network, at JCB we're as innovative and forward-thinking when it comes to customer care as we are in machine development. Our product support and after-sales service have one aim: to give you peace of mind.

The care and quality we offer is exceptional. All servicing is carried out by the best, factory-trained JCB engineers. Using the internet to pass vital information between on-site service personnel and our product support engineers, these professionals always have specialist information at their fingertips, so they can get you up and running again, faster.

Protect your machine and your cashflow

Everyone has individual needs and preferences. So we offer a range of service options all designed to help you cope with the unexpected and minimise costly downtime. Whether it's additional breakdown cover, an all-inclusive scheduled service programme, or servicing, we've got the best service option for you.



Finance packages, tailored to your needs

With ever-growing pressures on cashflows, the finance options available through JCB can provide a vital lifeline. Backed by JCB Finance, who can provide tax-efficient and cost-effective finance solutions, designed and tailored specifically to your needs.

Trust the genuine article

JCB parts are renowned worldwide for performance, reliability and safety. With replacement parts, we supply only the genuine

article, helping to safeguard the impressive residual values that you can expect in years to come.

As well as large stocks of parts engineered specifically for your machine, your JCB dealer also holds an extensive range of JCB: Filters, Lubricants, Grease, Wearparts, Tyres, Rubber Tracks and Service Exchange Components all manufactured to the same exacting standards. Your requirements can usually be supplied immediately by our dealers, but where this is not possible they can be ordered through the direct computer link between your dealer and JCB Service and processed through our impressive automated World Parts Centre warehouse. Despatch is normally the same day either to you or the dealer.

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.





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