

MIDI EXCAVATOR



A Product of Hard Work





The best of both worlds

JCB midi excavators give you compact, versatile performance. They offer superb levels of quality and legendary JCB comfort. Power and control are impressive; weight for weight they have a real edge over the competition. And of course there's the side-mounted engine for excellent visibility. Quite simply no other midis come close. The 8055 ZTS/RTS and 8065 RTS machines offer superb high performance in tighter

RAISING THE STANDARD IN COMPACT EXCAVATORS



areas than conventional tailswing models. Like all JCB minis and midis, they are renowned for their comfort, controllability, reliability, serviceability and productivity. The JCB 8085 ZTS is an 8-tonne, zero tailswing excavator offering the increased performance of larger machines without losing the access advantage. It has a 2.2-litre engine that is powerful, clean and quiet, a full-size excavator style cab with new levels

of operator comfort and we've made it easier than ever to carry out vital service checks. The 8085 ZTS also has an Advanced Management System (AMS) for extra control, fuel efficiency and diagnostics at your fingertips. All three are compact and powerful, guaranteed to give you impressive levels of productivity, however hard you work them.

Operator comfort, all-round visibility

Isolated cab results in minimum vibration

Extremely spacious and stylish cab

Fully adjustable, deluxe suspension seat gives
the most comfortable working position

Lifting the control pod on all models isolates
servo and track lever controls for safer access

Reduced or zero tailswing increases
machine and site safety



Built to provide complete comfort, JCB midi excavators ensure optimum productivity all day long.

Inside the 8055 RTS/ZTS and 8065 RTS, you'll notice how big and accessible the cab is compared to other reduced and zero tailswing models. The seating position is fully adjustable for maximum comfort. Plus, the whole cab structure is isolated from the slew frame for minimum vibration and optional air conditioning lets you achieve optimum working conditions.

As you would expect from our biggest midi, the 8085 ZTS features the biggest cab; a full-size, isolated larger excavator-style cab that's stylish and spacious.

A fully adjustable, deluxe suspension seat and independently moving armrests provide the most comfortable position. Integral optional air conditioning equals a more productive atmosphere. Plus there are lots of handy extras, including a cool box, toolbox, optional radio with line-in function for mp3 players, sunblind, coathook, cup holder and 12v accessory socket.

But these machines are as much about safe working as comfort. So all-round visibility is excellent. To the left, you can see the whole track. To the right, our unique positioning of engine and hydraulic pump has allowed us to introduce a sloping side-engine cover to improve the view of the track. The hose routing on top of the boom rather than to the side means there's less to impede visibility, and the large front screen gives a superb view of the load up to dump height.

To prevent damage and improve 'down-the-trench' visibility, all models also feature an up-and-over front screen. Smooth and easy-to-use thanks to a gas-strut-assisted action. On the 8085 ZTS you can also store the lower screen behind the upper screen before sliding and securing both above the operator's head.





Complete, precise control

Load-sensed hydraulics improve performance and fuel efficiency, and prevent engine overload

Straight-line tracking lets you operate the excavator end whilst travelling for safe operation

Proportional servo controls allow precise metering of buckets and attachments

Light lever efforts reduce operator fatigue

AMS means you always use the right amount of power for maximum fuel efficiency – 8085 ZTS



If the view outside the midi cab is superb, the view inside is even better, with everything ergonomically placed for effortless control.

The load-sensed, flow-on-demand hydraulic system on all midis automatically controls flow and pressure, providing hydraulic oil to a service only when you need to use it. So the engine is never overworked, and is always running at peak efficiency, saving you fuel. Plus, because the system shares oil equally, all services can be supplied (and keep working) without starving any one function, for added productivity.

An additional benefit of load-sensed hydraulics is straight-line tracking. Particularly important for positioning next to obstacles or loading/unloading, this allows you to travel safely forwards or backwards without veering off to one side when a service is operated.

On all machines, proportional servo controls allow precise metering of the bucket and lever efforts are light reducing operator fatigue. Along with ergonomic operator positioning, this means JCB midis ensure all-day productivity.

On the 8085 ZTS there's also the Advanced Management System (AMS). Operated from a clearly visible console, it lets you select three digging modes (heavy, standard and light) so you always use the right amount of power for maximum fuel efficiency. AMS also offers an auto-idle function, with manual override, that can be set in 5-second blocks, a programmable intermittent wiper, an automatic re-fuelling cut-off switch, a visual audible warning system and more.

It all results in an easier life for the operator, with less stress and more productivity.





Build quality, superb service access

Hoses routed on top of the boom for damage protection and optimum visibility

Quick release couplers on auxiliary pipework prevent oil leaks and contamination

2-speed track motors and hoses are completely enclosed within the undercarriage for protection

Easy access to all service points and 500-hour service intervals

Removable floor plate for access to hydraulics



All JCB midi excavators boast superb build quality, with a robust undercarriage and superstructure designed for maximum reliability, minimum downtime and with the operator and service teams in mind.

Hoses are routed on top of the boom for damage protection; the auxiliary pipework features quick release couplers to prevent oil leaks when connecting attachments; and high levels of filtration prevent blockages.

The undercarriage gives optimum protection against site damage. The two-speed track motors (manual or automatic) and the hoses are completely enclosed within the undercarriage, preventing damage. And the sloped track frame encourages dirt to slide off, preventing build-up that could cause problems.

In direct response to customers, all our midis now also boast unrivalled access for easier servicing, along with increased service intervals to 500 hours. You can check the oil from ground level, the fuel filter system features a combined sediment, filter and primer so you can prime the system if it runs out of fuel, and you can change the filter without extra tools. Under the rear cover, a moulded fuel tank has a larger capacity for longer working hours and it's easy to get to all of the service points.

The side-mounted engines and rear-mounted valve blocks both give unparalleled access for carrying out daily checks and regular services, while grouped service points and ground level access make maintenance easier.

Then there is AMS on the 8085 ZTS, which gives an at-a-glance guide to operational status and history; highlights potential requirements and issues (eg a loss in oil pressure or a service is due) before they become big problems; and can be used to download diagnostic and service information.



8055 ZTS/RTS engine bay.



8085 ZTS rear service compartment.



The 8055 RTS/ZTS and 8065 RTS

Load-sensed hydraulics give impressive
tearout forces and tractive effort

Auto kickdown saves time and the need
for operator intervention

X-frame undercarriage ensures debris doesn't
build up and impede performance

Curved dozer profile forms into a roll,
increasing productivity

Single-acting (optional double-acting) auxiliary pipework
to the dipper for powering attachments



The JCB 8055 RTS/ZTS and 8065 RTS offer superb levels of power for this class of excavator. The 8055 RTS/ZTS features a highly efficient Tier 3 Perkins 33.1kW (45hp), with a Turbo Isuzu 38kW (51hp) engine in the 8065 RTS. This larger engine also means the 8065 RTS uses a higher capacity hydraulic system along with increased counterweight for even greater productivity and working capacity.

All this power is transferred into superb digging and tracking performance via the load-sensed hydraulic system (on all models), giving you impressive tearout forces, and high levels of tractive effort and tracking speeds.

For operating on a variety of surfaces, rubber tracks are provided as standard, with optional steel tracks or Geogrip track pads for more arduous applications. The two-speed track motors provide high tracking speeds. Plus, when you select high speed, auto kickdown automatically senses the pressure increase and changes down to a low gear; when the pressure decreases, it automatically changes back up again to high speed for faster travel.

When it comes to dozing, you'll find excellent tractive effort and a unique JCB dozer design featuring an improved curved profile. This forms material into a roll that then keeps moving away from the machine rather than building up. As well as being more rigid, the X-frame undercarriage design also features sloped exit points, again keeping the tracks from clogging and reducing wear on parts.

For ready-to-go versatility, both machines feature single-acting auxiliary pipework to the dipper as standard for powering breaker attachments. Options also include double-acting pipework, for powering earth drills and other attachments.

The 8055 RTS/ZTS is compatible with 8040 and 8045 ZTS buckets (40mm pins) with the option to take the older 2DX and some 3CX buckets (45mm pins), while the 8065 RTS uses 3CX buckets (45mm pins) as standard.





The 8085 ZTS

Up to 22% more fuel efficient than the competition,
with reduced emissions and operating costs

Load-sensed, flow-on-demand hydraulics match flow to pressure
for unbeatable productivity and profitability

ZTS and kingpost design make hard work easy, even in confined spaces

2-speed track motors give maximum tracking, dozing,
spin-turn and straight line performance

Our wide range of buckets and new electronic proportional
auxiliary control option equal superb versatility

Undercarriage X-frame design gives maximum strength, while track motors
and hoses are fully enclosed for extra protection



The most efficient midi excavator we've ever built – in fact the most efficient midi excavator anyone's ever built – the JCB 8085 ZTS is an impressive combination of sound economics and incredible capability.

Thanks to JCB's efficient design philosophy and EcoDig technologies, fuel consumption is up to 22% lower than the competition. Add in significantly reduced emissions, and you've got one lean machine. But that doesn't mean we've compromised on productivity.

In fact the 8085 leaves the competition way behind on that front too. It provides all the power, performance, comfort and control of a larger excavator, in a compact, versatile, zero-tailswing-overhang, kingpost design that lets you work up against walls and in confined spaces where larger machines just can't go.

Its new Isuzu 2.2-litre, 43kw (57.6hp) water-cooled, 4-stroke, direct-injected turbo engine makes this the most powerful compact excavator in our range. And as well as great fuel efficiency, it's got a whole range of features which keep the cost of ownership down, like our Advanced Management System digging modes, auto return to idle and electronic throttle controls. So, it's designed to use the power you need, only when you need it, saving you money every day.

The 8085 ZTS is also now available with optional thumb-operated electronic proportional auxiliary controls. Used in conjunction with the double-acting or low-flow circuits and bucket to grab changeover valves, these provide real precision control and dexterity. This allows you to specify your machine with a huge range of attachments and configurations, making it both a highly versatile digging machine and an invaluable tool and materials carrier.

Add to all of this a sleek design, robust build quality, fantastic service access and 360° visibility – and you'll see we've designed and built the 8085 ZTS to give you the power, performance and profitability you need for even the toughest of jobs.





Engine and hydraulics

500 hour service intervals.

Tier 3 emission standards.

Large diesel tank for an uninterrupted day's work.

Excellent access to all daily service points.

Service access

Grouped access to routine checks and fills via gullwing doors.

Side-mounted engine and rear-mounted hydraulics.

Easy access to battery for charging.

Protected hose routing, colour coded for ease of maintenance.

IP69 electronics are fully dust and pressure washer proof.

Tracks

Standard-fit, steel-band continuous rubber tracks

Steel track options available.

Easy change from rubber tracks to steel.

Top and bottom roller guides.

Low ground bearing pressures.





Cab and Controls

Large class-leading cabs.

Superb all-round visibility.

Excellent visibility to all machine dig envelopes.

Non-slip track pedals.

Servo controls with option of ISO or SAE.

Boom and Dipper

Versatile kingpost design.

Superb digging performance and geometry.

Huge excavating bucket range.

Single-acting auxiliary pipework as standard.

Hoses neatly routed over boom for greater protection.

Undercarriage

X-frame undercarriage.

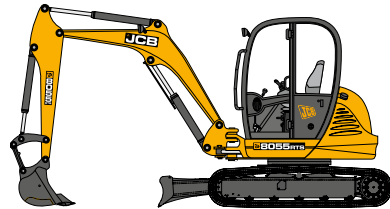
Grease tensioning.

Proven sealed-for-life rollers.

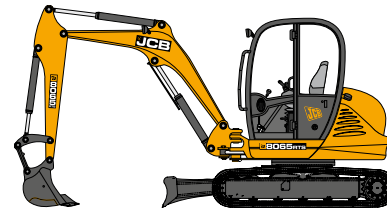
2-speed electronic auto kickdown (on 8055/8065).

Fully protected hydrostatic track motors.

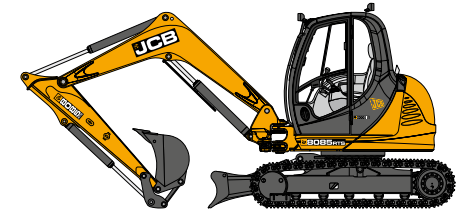
8055 RTS/ZTS



8065 RTS



8085 ZTS



| | | | | |
|--------------------------------|---------|-----------|---------|---------|
| Operating weight std. dipper | kg | 5500/5177 | 6584 | 8026 |
| Net engine power | kW (hp) | 33 (45) | 38 (51) | 40 (53) |
| Dipper length | mm | 1900 | 1900 | 2000 |
| Dig depth std. dipper | mm | 3760 | 4068 | 4195 |
| Ground level reach std. dipper | mm | 6022 | 6514 | 6887 |
| Dump height std. dipper | mm | 4102 | 4271 | 4580 |
| Fuel tank capacity | Ltr | 68 | 73 | 103 |
| Bucket tearout | kN | 42.2 | 41.1* | 50.0* |
| Dipper tearout | kN | 27.8 | 29.7 | 36.0 |
| Pump flow | Ltr/min | 163 | 163 | 170 |
| Machine width | mm | 2000 | 2000 | 2300 |

*Figures quoted using 3CX size bucket



AUGER

Accurate ground removal, minimal reinstatement
 Compact design with 50mm hex output shaft
 All hydraulic components are well protected
 High torque rating for better performance
 Full range of flights, standard, heavy and rock duty
 Replaceable wear part system



QUICKHITCH

Proven reliability – heavy-duty casting
 Ready to use, supplied with one set of bucket pins
 Manual and hydraulic* versions
 Off pins
 *8080 only



GRADING BUCKET

Ditch maintenance/grading buckets have a central reinforcing plate that gives added strength and rigidity
 Drainage holes to reduce weight/density during operation



KERBMASTER

Designed for accurate and safe placement of kerb edges
 Incorporates hose-burst check valve for operator safety
 Heavy-duty nylon face plate and nylon rollers eliminate damage to the kerb stone faces
 Available with manual or full hydraulic rotation
 Reduces health risks associated with manual handling



BUCKET RANGE

Hardened steel pivot pins and replaceable wear parts
 All buckets in this range are quickhitch compatible, allowing rapid changeover of the bucket or attachment
 Spring steel brushes prevent excessive wear to the bucket bosses
 The addition of grease nipples enables regular lubrication to be carried out
 Sizes available from 0.04 cu.m to 0.29 cu.m



JCB HAMMER

A range of dipper mounted hydraulic breakers to complete a wide range of tasks
 Solid body design is less prone to leaks and offers a more robust and reliable breaker
 Matched piston and tool diameter transfers maximum breaking force to the material being broken
 Oval tool retainers prevent tool rotation which extends tool and bush life
 Supplied complete with hoses, couplings etc, ready for use

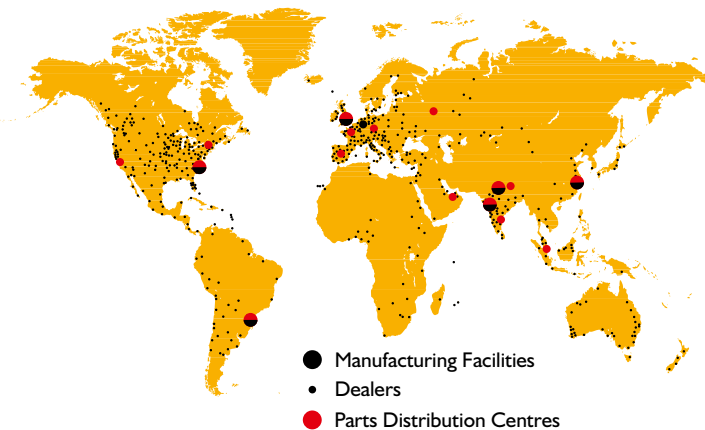


TRAPEZOIDAL BUCKETS

Ideal for forming drainage ditches
 Choice of angles for steep or shallow ditch sides
 Standard JCB wear parts
 Rugged construction with box section cross beam

A few words about JCB

A groundbreaking, class-leading 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 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 Dieselmex 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.



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 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 world-class support and 100% satisfaction.

At the heart of this is a dedication to minimising machine downtime. So our state-of-the-art World Parts Centre 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. And we are constantly looking at new, innovative ways to help you get the most out of your machine.





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

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