

JCB MIDI EXCAVATOR | 8065



A Product
of Hard Work

The new benchmark in 6-tonne midi performance

With a reputation built on constant innovation and on producing machines that are always working for you and your business, JCB unveils its latest 6-tonne midi excavator, the new 8065 RTS (reduced tailswing).

JCB midis have long been renowned for their performance, controllability, serviceability and versatility. The 8065 – successor to the extremely successful 8060 – continues this excellent pedigree, setting the new benchmark in midi performance and representing our most productive 6-tonne machine to date.

In addition to its new-style, class-leading cab which gives unrivalled operator comfort and visibility, the 8065 incorporates a new Isuzu Tier III engine for powerful performance and exceptional durability

Reduced tailswing of 183mm (versus conventional on the 8060) means that this 6584kg machine offers increased safety and protection in confined areas.

Plus, the 8065 also features a number of new options, including air conditioning, and low-flow and high-flow hydraulics for more precise control of attachments.

With its versatile kingpost design, best-in-class dig envelope and a huge range of complementary attachments, including compatibility with 3CX backhoe loader buckets, there is no doubt that the 8065 is in a class of its own.

THE MIDI EXCAVATOR



THAT'S IN A CLASS OF ITS OWN



FAST FACTS

- Reduced tailswing (RTS) design allows safe working in confined spaces with minimum risk of machine damage
- New Tier III turbo Isuzu engine position and grouped service points enhance serviceability
- New HD dipper offers excellent dig geometrics and a durable design*
- Improved engine and hydraulic bay layout make daily checks and routine services easy
- New auxiliary circuit options for more precise attachment control and versatility

* While compatibility with a wide selection of buckets and attachments increase versatility.



Excellent productivity, serviceability and versatility

At the heart of the 8065 is the new, powerful, 40.5kW (54.3HP), Tier III Isuzu engine. This, along with the switch from conventional to reduced tailswing (RTS), means the 8065 is even more productive when it comes to operating in confined spaces. Add the new heavy duty (HD) dipper (1900mm), and you get a more than capable midi performer designed to work in the most demanding environments.

In terms of dig end performance, you'll find that the 8065 offers improved dipper and bucket tearouts for superb productivity. In fact, with a max dig depth of 4350mm and dump height of 4271 mm, the 8065 provides a class-leading dig envelope. The single-piece wraparound dipper design reduces the need for weld points, increasing durability. And the easily accessible dig-end hoses are routed through the kingpost to protect against damage.

When it comes to the undercarriage, the 8065 incorporates a new, improved structure, using the proven system of JCB running gear and new upgraded Trasmital track motors. Supplying powerful dozing performance, excellent spin-turn performance and tracking speeds of 2.9/5.3km/h, the 8065 offers improved mobility and over 77kN of tractive effort, superb for tough conditions.

Moving round to the rear of the machine, the first visible development is that the bonnet is now protected by the protruding counterweight. Looking inside the hydraulic bay you will find a Rexroth 10-spool valve block as standard which enables low, high and proportional auxiliary flow circuits to be fitted for more precise attachment control. All service points are easily accessed for convenient daily and periodical checks. Serviceability is also enhanced by the engine positioning, and service intervals are set at 500 hours for reduced downtime.

To maximise the machine's earning potential, the 8065 is compatible with all 3CX buckets and other JCB attachments. While taking advantage of new hydraulic options also lets you power all sorts of additional attachments, such as a spin grab.







Class-leading comfort, quality and controllability

The JCB 8065 sets a new standard for cab environments by combining automotive levels of comfort and styling with excellence in excavator performance and technology.

The cab or canopy is isolated from the slew frame, reducing noise and vibration levels; something that is further enhanced on the fully glazed cab version by an isolated seat and pod structure. The cab also includes a high-backed seat and easy-to-operate controls that move with the operator for an ergonomic working position and day-long comfort, enhanced by optional air conditioning. Plus, all-round visibility and RTS for consummate safety is also superb.



When it comes to controllability, the 8065 is the clear leader in the 6-tonne market. The machine uses dual pilot operator controls for precise machine movement in confined areas and reduced operator fatigue, while an electronic throttle control with auto idle function improves fuel economy and ease of use.

Rexroth hydraulic pilot-operated track servo controls for straight-line tracking are fitted with band movement for improved controllability, enhanced operator safety and reduced operator fatigue. Plus, electronic proportional auxiliary control provides even greater precision when working in delicate or confined applications. The machine also features, as standard, load-sensing hydraulics with electronic throttle control for efficient and safe use of all functions, while auto return to idle improves fuel efficiency and results in lower wear and tear.

Finally, to tailor the machine to your own specific needs, we also offer a large number of optional extras: steel tracks, vinyl or cloth suspension seat, dual-pattern controls, canopy, external lockable toolbox, radio, toolkit, and much, much more.

FAST FACTS

- Cab/canopy offers excellent comfort and visibility with optional air conditioning and is isolated from slew frame to reduce noise and vibration levels
- High-backed seat and controls that move with the operator give the most productive working position
- Dual pilot joysticks offer precision control, with options for low and high flow circuits and electronic proportional control for ease of use
- Electronic throttle control with auto idle function improves fuel economy and operator comfort and safety
- Load-sensing hydraulics with electronic throttle control result in efficient, safe use of all functions



8065 MACHINE

CAB AND CONTROLS

- All-round visibility
- Convenient front window opening
- Excellent styling and space
- Reduced sound and vibration for the operator
- Certified to ROPS and TOPS safety standard

SERVICE ACCESS

- Grouped access to routine checks and fills
- Fewer hydraulic joints for fewer potential leaks
- Easy access to major service tasks
- 500-hour service intervals
- Cab floor plate access to hydraulic services below

ENGINE AND HYDRAULICS

- Powerful Isuzu Turbo Tier III engine
- Large diesel tank for uninterrupted day's work
- Improved hydraulic pressures for optimum power and performance
- An array of auxiliary options to suit the needs of all applications and to power a range of JCB attachments
- Excellent engine and hydraulic layout for easy access



WALKAROUND



BOOM, DIPPER AND BUCKET

- Strong boom provides excellent operator visibility and strength
- Excellent dig envelope
- Hoses routed neatly for improved visibility and protection
- Boom reaches further back increasing load-over height
- Impressive break-out forces for this class of machine
- Wrap-around design for a more robust dipper

UNDERCARRIAGE

- Superb tractive effort
- Strong, rigid dozer blades fitted as standard
- Trasmital auto-kickdown track motors
- 2-speed tracking as standard

TRACKS

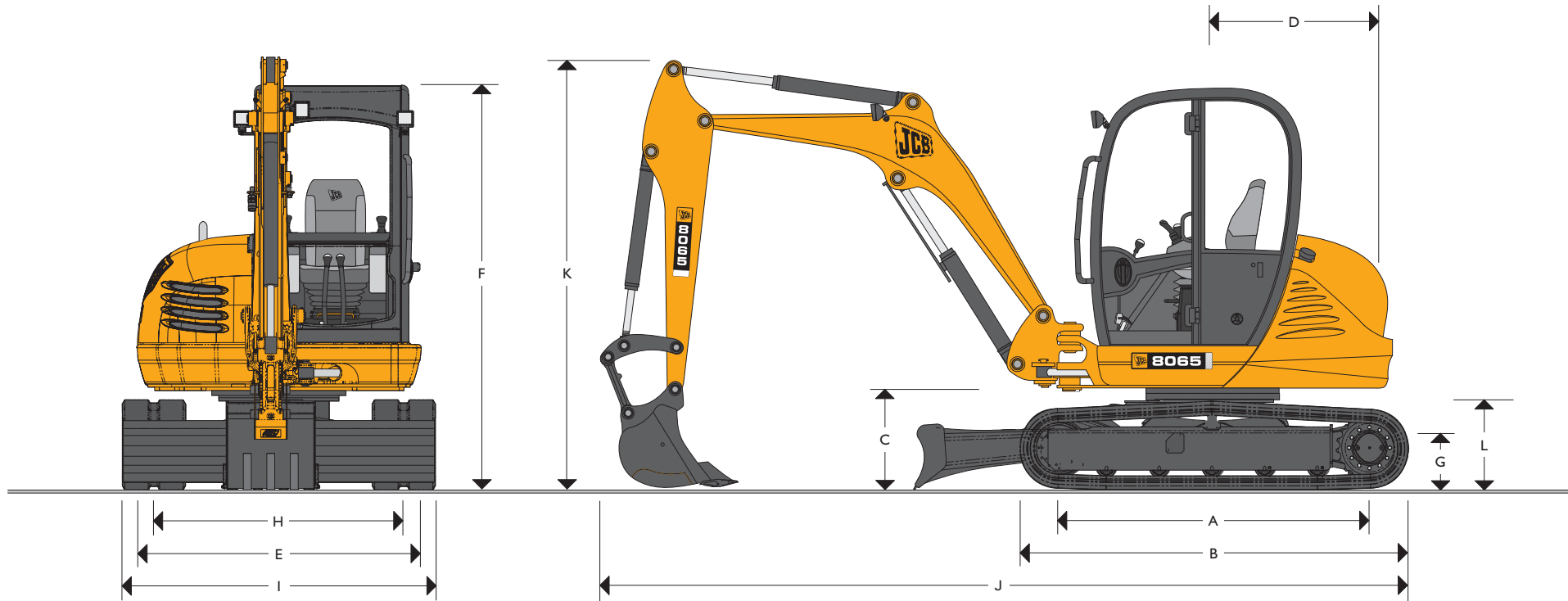
- Continuous steel chord rubber tracks fitted as standard
- Steel tracks available
- Easy change from rubber tracks to steel
- Top and bottom roller guides
- Fully protected hydrostatic track motors
- Electronic throttle control
- Excellent dozer performance



JCB MIDI EXCAVATOR | 8065 (RTS)



OPERATING WEIGHT: 6584 kg (14484.8 lbs)
 NETT ENGINE POWER: 38.1 kW (51.1 hp)



STATIC DIMENSIONS

Machine model	8065
	mm (ft-in)
A Sprocket idler centres – rubber	1991 (6-6)
Sprocket idler centres – steel	2006 (6-7)
B Undercarriage overall length – rubber	2516 (8-3)
Undercarriage overall length – steel	2531 (8-4)
C Kingpost clearance	682 (2-3)
D Tailswing radius	1183 (3-10)
E Overall width of superstructure	1800 (5-11)

Machine model	8065
	mm (ft-in)
F Height over cab	2563 (8-5)
G Ground clearance	340 (1-1)
H Track gauge	1600 (5-3)
I Width over tracks	2000 (6-7)
J Transport length with standard dipper	5426 (17-10)
K Transport height	2758 (9-1)
L Track height	650 (2-2)



JCB MIDI EXCAVATOR | 8065 (RTS)



ENGINE

Machine Model	8065	
Model	Isuzu 4LE-1T Tier III	
Fuel	Diesel	
Cooling	Water Cooled	
Gross power	kW (hp) @ 2600 rpm	40.5 (54.3)
Net power	kW (hp) @ 2600 rpm	38.1 (51.1)
Gross torque	Nm (lbf ft) @ 1800 rpm	182 (134.2)
Net torque	Nm (lbf ft) @ 1800 rpm	171.1 (126.2)
Displacement	cc	2179
Gradeability	degrees	35
Battery	volt/amps	12 / 75Ah
Alternator	amps	80 (120)

HYDRAULIC SYSTEM

Machine Model	8065	
Pump	74cc	
Nominal output (@ rated)	lpm	163
Nominal output	US gal/min	43
Excavator/track main relief	bar (psi)	230 (3626)
Slew main relief	bar (psi)	220 (3191)
Auxiliary hydraulic flow	litres (US gal)	90 (23.8)
Auxiliary low flow	litres (US gal)	25 (6.6)
Auxiliary high flow	litres (US gal)	140 (37)
Hydraulic motors	Piston	

UNDERCARRIAGE

Machine model	8065	
No of bottom rollers (per side)	5	
Track width	mm (in)	400 (15¾)
Ground bearing pressure	kg/cm² (psi)	0.396 (5.63)
Ground clearance	mm (in)	340 (1-1)
Track tensioning	Grease	
Travel speed – low	kph (mph)	2.9 (1.8)
Travel speed – high	kph (mph)	5.3 (3.3)
Tractive effort	kN (lbf)	775 (17422.69)



JCB MIDI EXCAVATOR | 8065 (RTS)



OPERATOR ENVIRONMENT

		External	Internal
Cab/canopy height with FOGS guard	mm (ft-in)	2658 (8-8½)	1556 (5-1)
Cab/canopy height no FOGS guard	mm (ft-in)	2623 (8-7¼)	1556 (5-1)
Cab height with air conditioning	mm (ft-in)	2768 (9-1)	1556 (5-1)
Cab height no air conditioning	mm (ft-in)	2623 (8-7¼)	1556 (5-1)
Cab/canopy length	mm (ft-in)	1328 (4-4)	1187 (3-11)
Cab/canopy width	mm (ft-in)	980 (3-2½)	933 (3-1)
Distance from seat base to roof	mm (ft-in)	1570 (5-2)	1570 (5-2)
Door aperture width	mm (ft-in)	564 (1-10)	564 (1-10)

SERVICE CAPACITIES

Machine model		8065
Fuel tank	litres (US Gal)	73 (19.3)
Engine coolant	litres (US Gal)	13.5 (3.56)
Engine oil	litres (US Gal)	9 (2.3)
Hydraulic system	litres (US Gal)	105 (30)
Hydraulic tank	litres (US Gal)	59 (25)

MACHINE WEIGHTS

Machine model		8065
Operating weight*	kg (lb)	6584 (14515.22)
Transport weight	kg (lb)	6508 (14319.8)
With canopy	kg (lb)	-80.0 (-176.0)
With FOGS guard	kg (lb)	+25 (+55)

*Operating weight to ISO 6016 including cab, rubber tracks, standard dipper, 460mm (18in) bucket, full tanks and a 75kg (165lb) operator.

DOZER BLADE

Machine model		8065
Max height (above ground)	mm (ft-in)	432 (1-5)
Dig depth (below ground)	mm (ft-in)	553 (1-9¾)
Approach angle	degrees	27.5
Width	mm (ft-in)	2020 (6-7½)
Height	mm (ft-in)	411 (1-4)
Reach in front of tracks	mm (ft-in)	721.4 (2-4½)

8065 LIFT CAPACITIES – Standard Dozer, 400mm (16in) Rubber Tracks, 1900mm (6ft 3in) dipper, No bucket.

Reach from slew centre

Load Point	2.5m (8ft 2½in)			3m (9ft 10in)			4m (13ft 1½in)			5m (16ft 6in)			Capacity at maximum reach		
Height	Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down	
m (ft-in)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
2.5 (8-2½)							1272*	1322*	1227*	817	1335*	723	723	1364*	625
2.0 (6-6)				1298*	1746*	1702*	1367*	1479*	1018	838	1391*	723	698	1401*	600
1.5 (4-11)	2755*	2965*	2010	2096*	2290*	1586	1163	1679*	1001	803	1462*	705	666	1415 *	579
1 (3-3)	2145	3671*	1840	1693	2740*	1463	1105	1879*	959	803	1544*	677	657	1442 *	567
0.5 (1-8)	2092	4002*	1841	1649	3095*	1394	1080	2040*	915	776	1633*	668	662	1488*	563
Ground Level	1958	4152*	1685	1608	3363*	1343	1074	2245*	909	773	1698*	669	686	1541*	584
- 0.5 - (1-8)	1891	4051*	1671	1547	3396*	1293	1061	2358*	889	778	1722*	654	710	1579*	606
- 1 - (3-3)	1523	3389*	1632	1204	2745*	1304	874	1984*	894			669	731	1622*	656

Lift capacity front and rear:

Lift capacity full circle.

- Notes:**
- Lifting capacities are based on ISO 10567, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is the less. Lifting capacities marked* are based on hydraulic capacity.
 - Lift capacities assume that the machine is on firm, level ground and equipped with an approved lifting point.
 - A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities.
 - Lift capacities may be limited by local regulations. Please refer to your dealer.

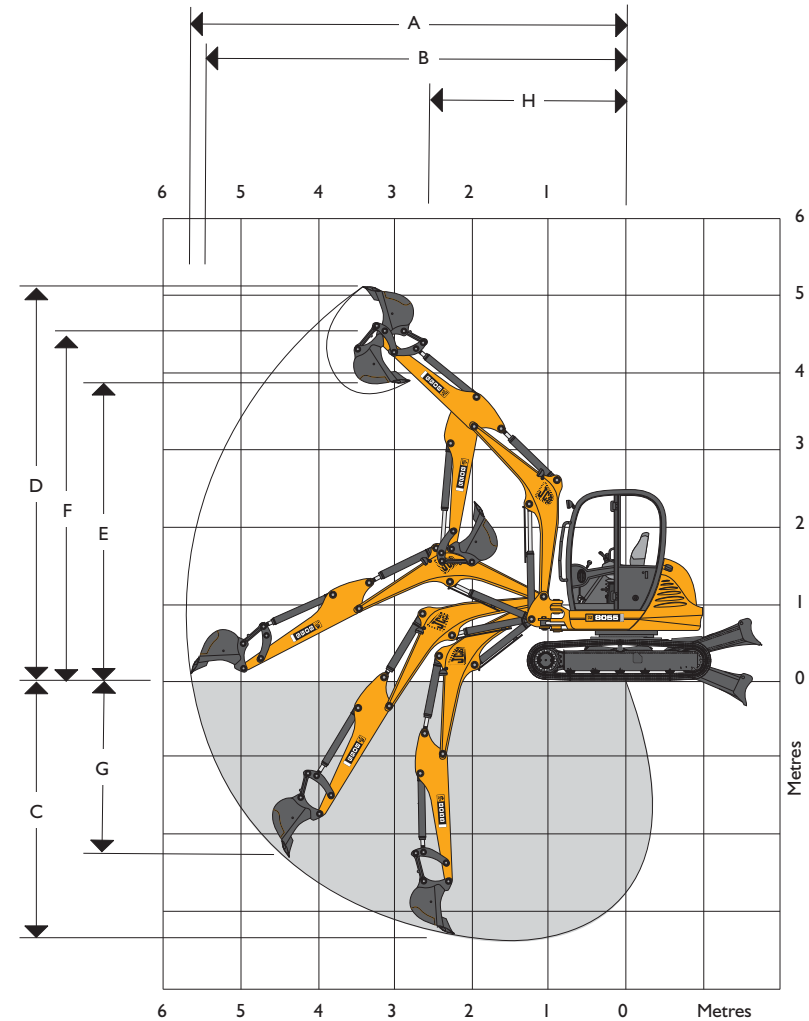
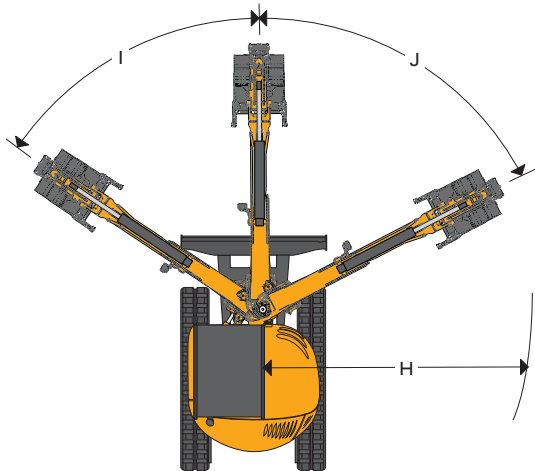


JCB MIDI EXCAVATOR | 8065 (RTS)



WORKING RANGE

Machine model		8065
Dipper length	mm (ft-in)	1900 (6-3)
A Max digging reach	mm (ft-in)	6624 (21-8)
B Max digging reach on ground	mm (ft-in)	6514 (21-4)
C Max digging depth – dozer up	mm (ft-in)	4068 (13-4)
D Max digging depth – dozer down	mm (ft-in)	4350 (14-3)
E Max digging height	mm (ft-in)	6004 (19-8)
F Max dump height	mm (ft-in)	4271 (14-0)
G Max height to dipper nose pivot pin	mm (ft-in)	5085 (16-8)
H Max vertical wallcut depth	mm (ft-in)	2689 (8-9)
I Min. front swing radius (no offset)	mm (ft-in)	2695 (8-10)
H Min. front swing radius (fully offset)	mm (ft-in)	2373 (7-10)
I Boom swing left	degrees	60
J Boom swing right	degrees	65
Bucket rotation	degrees	197
Dipper rotation	degrees	123
Bucket tearout	kN (lbf)	41.1 (9239.65)
Dipper tearout	kN (lbf)	29.7 (6676.83)
Slew speed	rpm	10



JCB attachments



HAMMERMASTER

- Sealed-for-life accumulator for minimum maintenance
- Solid body protects the power cell and aids sound reduction
- Oval double tool retainers reduce tool rotation and extend tool and bush life
- Large diameter tool of 65mm offers higher tolerance to side stresses and better transfer of blow energy
- Supplied complete and ready to use



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



QUICKHITCH

- Proven reliability – heavy-duty casting
- Ready to use, supplied with one set of bucket pins
- Manual version
- Off pins



GRADING BUCKET

- Additional wear strips fitted to the rolled back shell offer additional strength and rigidity
- Central reinforcing plate gives added strength and rigidity
- Drainage holes reduce weight/density during operation



EARTHDRILL

- For accurate and precise drilling
- Standard 2" hexagon drive
- Maximum torque drilling power 6000Nm
- Choice of standard or heavy duty-flights
- Replacement teeth and pilot bits available for greater service life



BUCKETS

- Complete range including off-pin and dedicated buckets: general purpose, ditching/grading
- Compatible with 3CX backhoe loader buckets
- Range of widths and duty to suit most applications
- Designed to maximise machine productivity
- Replaceable wear-part system

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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