

# EXCAVATORS



A Product of Hard Work



## You need an excavator for the toughest tasks

They'd be a lot tougher  
without a JCB excavator



### JCB manufacturing excellence

The JCB excavator range is a product of our drive to constantly make our machines better, more productive, more efficient. The result is a 25 machine line up that give you more earning power for your investment, along with the unsurpassed customer service that JCB is renowned for the world over.

Each of our 15 tracked, 6 wheeled and 3 zero tailswing models comes with 65 years' JCB manufacturing excellence as standard, and over 45 years of specialist excavator expertise. During this time, demand for the JCB excavator has become so great that we have now invested in a brand new, state-of-the-art factory where, our customers tell us, we are producing the best excavators we have ever built.

### New factory, new quality

The new JCB 42,000 square metre excavator factory has a current capacity of 8,000 excavators a year and is where advanced technology, meticulous design and rigorous testing are a given.

To guarantee unsurpassed excellence, we put all major fabrications through Finite Element Analysis to verify the designs and ensure long-lasting components; all new models go through a comprehensive development and testing programme; and every single component, down to the smallest bolt, is of the highest quality.

It is in this factory, with our team of industry experts and machine specialists, that we have designed and developed the heavy machinery of the future.





## **We make it easy to harness power and performance, for maximum productivity**

## **Superb comfort and fatigue-free working**



### **Productivity, manoeuvrability, control**

For optimum productivity, our Tier 3 engine provides plenty of torque, uniquely tuned and adapted for each excavator. Variable-flow, load-sensing hydraulics automatically achieve the most efficient flow. High hydraulic flow and pressure give class-leading arm and bucket tearout.

For effortless manoeuvrability, a tapered-section chassis on wheeled models reduces turning circle and increases torsional strength. On tracked models, refined track motors provide class-leading tractive effort. 3-speed tracking is controlled from the joystick so you can change speed at will.

For precision control, JCB's Advanced Management System (AMS) gives access to four working modes at the touch of a button. The AMS ensures maximum productivity at minimum operating cost by matching engine and hydraulic output to demand. Cushion control to boom and dipper services, as standard, also takes the effort out of hard work for easier, less tiring operation.

### **Comfort and visibility**

When we design our excavators, we put the operator in the driving seat, making sure that tapping into machine features is as easy, fast, safe and fatigue-free as possible.

One of the most spacious cabs on the market features a fully adjustable high-back seat and large storage area. Intuitive control layout is easy to get to grips with and avoids unnecessary twisting and reaching. Low-lever-effort joystick controls reduce fatigue even further, as do class-leading noise and vibration levels, superb airflow and climate control.

A large glass area gives clarity all around the machine; it's safer for on-site personnel, safer for the machine and the operator.



### Tracked excavators

For quarrying, demolition and civil engineering, our heavy range offers efficient cycle times, optimum uptime, and robust undercarriage and running gear. We offer ME (Mass Excavation) models for high output, XD (extra duty) for added protection in tough environments, an industry-specific HRD (High Reach Demolition) model. Plus, long reach work equipment allows clearing of irrigation canals and ditches.

For house building, construction, plant hire, engineering, rail construction and groundworks, mid-range models are easy to use and compact, with excellent visibility and boosted power and lift capabilities. In addition, our Wastemaster range is specifically designed for the demands of the waste industry and features a hydraulic raised cab for loadover visibility.



### Zero tailswing tracked excavators

Zero tailswing and best-in-class full-swing radius mean less chance of damage to buildings, equipment and machines; greater visibility over the rear; effective working in confined spaces; and the potential to work in a single lane of traffic for minimised disruption and cost. They're a solid investment for housing developments, forestry, rural road and highway construction, and groundworks.

Increased hydraulic flow gives fast production cycle times and improved attachment performance, coupled with the latest engines and management systems – for added precision and power when you need them. These models are versatile, reliable performers in construction, civil engineering... an endless list of applications.



### Wheeled excavators

For general materials handling, our wheeled range offers high reach to load and unload trucks, along with maximum possible travel speeds. For house building and general contracting, ease of use, compact design and versatility are key. Also, and crucial in construction and civil engineering, these machines offer: increased hydraulic flow for improved attachment performance and production cycle times; effortless manoeuvring; all-round visibility; and an Advanced Management System (AMS) for precision and power when you need them.

The Wastemaster wheeled range provides the optimum uptime the industry demands, along with a robust chassis and axle configuration. Options include scrap handling or material handling booms, and a hydraulic raised cab to increase loadover visibility.





### **Class-leading productivity and tractive effort**

- Optimised Tier 3 engines with plenty of torque and high power
- Variable-flow, load-sensing hydraulics giving flow on demand
- Regenerative hydraulic system for faster cycles times and reduced fuel consumption
- High hydraulic flow and pressure for powerful arm and bucket tearout
- Large, highly engineered track and drive motors for better travel and working on steeper gradients
- Single-piece top and bottom plates on boom providing increased torsional strength
- Track links are greased and sealed for life, reducing operational noise and extending working life
- Tapered section chassis on wheeled models for increased torsional strength and reduced turning circle

### **Controlled, comfortable, stress-free working**

- Advanced Management System (AMS) with 4 working modes
- Ergonomic, intuitive controls easy for all operators to get to grips with
- Superb all-round visibility for increased safety and control
- Comfortable, fully adjustable high-back seat
- Low-lever-effort joystick controls
- Class-leading noise and vibration levels from viscous-rubber cab mounting and foam insulation
- Excellent airflow, ventilation and demisting, with optional climate control
- Cushion control for a more comfortable ride

### **Easy servicing, reduced downtime**

- Easy-access filters and oil gauges give for ground-level servicing, increasing operator safety
- Grouping of daily checks for reduced operator downtime
- Digital engine oil read out on AMS in cab
- One-piece bonnet on gas struts for quicker, easier checks
- Large, side-by-side cooling pack and fold-out air conditioning unit for easier cleaning
- Low-maintenance, carbon-impregnated phosphor bronze bushes on boom foot and dipper pivot pins allow for 1000-hour greasing intervals

### Maximising machine uptime

The key to efficient, safe servicing is ground-level accessibility and the grouping of daily checks. Plus, the one-piece bonnet is supported by gas struts for extra speed and safety. The **Advanced Management System (AMS)** provides a digital engine oil level read out so you don't have to waste time with manual checks. It gives you a complete picture of the machine's use that is invaluable when diagnosing problems.

JCB's dedication to minimising machine downtime doesn't stop here. Our **World Parts Centre** dispatches more than a million genuine parts and attachments a week, with an 'Anywhere in 24 hours' strategy. Our JCB-trained engineers provide excellent, expert customer care, whether it's routine servicing or something more urgent. And we are constantly looking at ways to help you get the most out of your machine.

One of these initiatives is **JCB LiveLink**, a software system that enables you to monitor and manage your machines remotely. 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 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.

Plus, 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.



		JSI 15	JSI 30	JSI 45
				
Operating weight	tonnes	11.8 – 12.2	12.7 – 13.2	13.9 – 15.0
Net engine power	kW (hp)	73 (98)	73 (98)	73 (98)
Dipper options	m	1.95 / 2.25 / 2.8	2.5 / 3.0	2.5 / 2.7 / 3.0
Undercarriage options		LC / LC DOZER	LC / LC DOZER	LC / LC DOZER / HD
Machine variants		MONO	MONO	MONO / TAB
Max. dipper tearout	kgf	5546	7515	7515
Max. bucket tearout	kgf	9375	9375	9375
Pump flow	ltr/min	2 x 112	2 x 124	2 x 124

		JS220	JS235HD	JS240
				
Operating weight	tonnes	21.1 – 23.5	24	23.75 – 24.62
Net engine power	kW (hp)	128 (172)	128 (172)	147 (197)
Dipper options	m	1.91 / 2.4 / 3.0	1.91 / 2.4 / 3.0	2.02 / 2.44 / 3.09 / 3.53
Undercarriage options		NLC / SC / LC	LC	NLC / SC / LC
Machine variants		MONO / TAB / XD / LONG REACH	MONO / TAB	MONO
Max. dipper tearout	kgf	14610	14610	18272
Max. bucket tearout	kgf	15800	15800	19574
Pump flow	ltr/min	2 x 214	2 x 214	2 x 226

JS160	JS180	JS190	JS200	JS210
				
16.9 – 18.4	18.8 – 19.9	19.4 – 20.5	19.85 – 21.2	21.1 – 21.7
92 (123)	92 (123)	124 (166)	128 (172)	128 (172)
2.25 / 2.7 / 3.05	2.25 / 2.7 / 3.05	2.25 / 2.7 / 3.05	1.91 / 2.4 / 3.0	1.91 / 2.4 / 3.0
LC / NLC	LC / NLC	LC / NLC	NLC / SC / LC	LC
MONO / TAB	MONO / TAB	MONO / TAB	MONO	MONO
8754	8754	8754	14610	14610
11839	11839	11839	15800	15800
2 x 138	2 x 138	2 x 140	2 x 214	2 x 214

  

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)
2.02 / 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 / 4.0 / 4.76
NLC / SC / LC	NLC / LC	LC / NLC	LC / NLC	LC
MONO / TAB / XD / LR	MONO / XD	MONO / TAB / XD / ME / LR / HRD	MONO / TAB / XD / ME / LR / HRD	MONO / LR
18272	16713	20284	24940	24900
19574	23045	19500	27350	27500
2 x 226	2 x 250	2 x 290	2 x 310	2 x 340

		JSI30W	JSI45W	JSI60W
				
Operating weight	kg lb	14460 (31880)	14645 (32290)	17320 (38184)
Gross power	kW (hp)	73 (98)	92 (123)	92 (123)
Max. dig depth	mm (ft-in)	5675 (18-7)	5675 (18-7)	6451 (21-2)
Max reach at ground level	mm (ft-in)	8585 (28-2)	8585 (28-2)	9163 (30-1)
Max loadover height	mm (ft-in)	7400 (24-3)	7400 (24-3)	7174 (23-6)
Travel speed (high)	km/h (mph)	30 (19)	30 (19)	30 (19)
Machine variants		MONO / TAB	MONO / TAB	MONO / TAB

		JZI40	JZ235	JZ255
				
Operating weight	tonnes	14 – 15.9	23.2 – 23.7	24.4 – 24.8
Net engine power	kW (hp)	73 (98)	128 (172)	128 (172)
Dipper options	m	2.1 / 2.5 / 3	1.91 / 2.4 / 3	1.91 / 2.4 / 3
Undercarriage options		LC / LC DOZER	LC / LC DOZER	LC / LC DOZER / NLC / NLC DOZER
Machine variants		MONO / TAB / HD	MONO / TAB	MONO / TAB
Max. dipper tearout	kgf	7515	13450	13450
Max. Bucket tearout	kgf	9375	14550	14550
Pump flow	ltr/min	2 x 124	2 x 208	2 x 208

## JS175W



## JS200W



## JS200W WASTEMASTER MH



## JS200W WASTEMASTER SH



17520 (38625)	22809 (50285)	25825 (54355)	25712 (54582)
128 (172)	128 (172)	128 (172)	128 (172)
6451 (21-2)	6370 (20-10)	N/A	N/A
9163 (30-1)	9850 (32-3)	10250 (33-7)	11000 (36-1)
7174 (23-6)	6980 (23-0)	12000 (39-4)	12250 (40-2)
30 (19)	30 (19)	30 (19)	30 (19)
MONO / TAB	MONO / TAB	MATERIALS HANDLER	SCRAP HANDLER



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