



JCB JS200

EXCAVATOR

F A S T • F A C T S

Computer Aided Power control System (CAPS II):

Constantly monitors control system to maximize productivity, fuel economy and control. Data printouts are available for the service technician.

Nephron filtration system:

Cleans hydraulic oil down to 1.5 microns for improved system reliability. Extends filter life for 1,000 hour changes and hydraulic oil for 5,000 hour changes.

Boom priority hydraulic system:

Increased operating speed for faster cycle times. Reduced down speed allows greater control.

Increased in-system pressure:

Booster provides 10% in-system pressure increase for improved bucket and dipper tearout forces.

Powerful swing system:

20 metric ton machine features smoother handling of large loads on steep inclines.

Durable build:

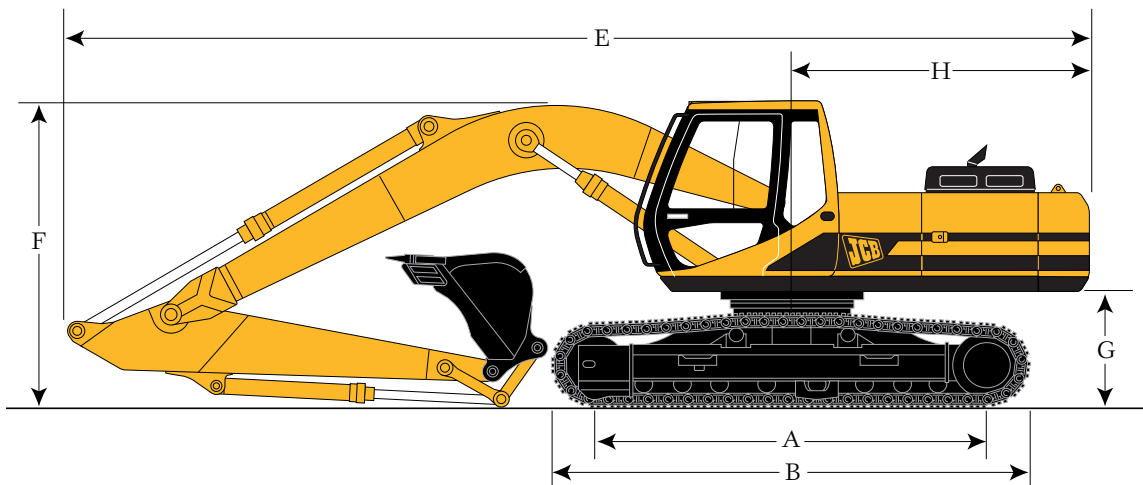
X-frame undercarriage with good ground clearance, large diameter swing ring and belly guards as standard.

Superb operator environment:

Features deluxe suspension seat, new shorter control levers, clear all-round visibility, cushion control and Auto Plus one-touch idle controls.

Low emission Isuzu engine:

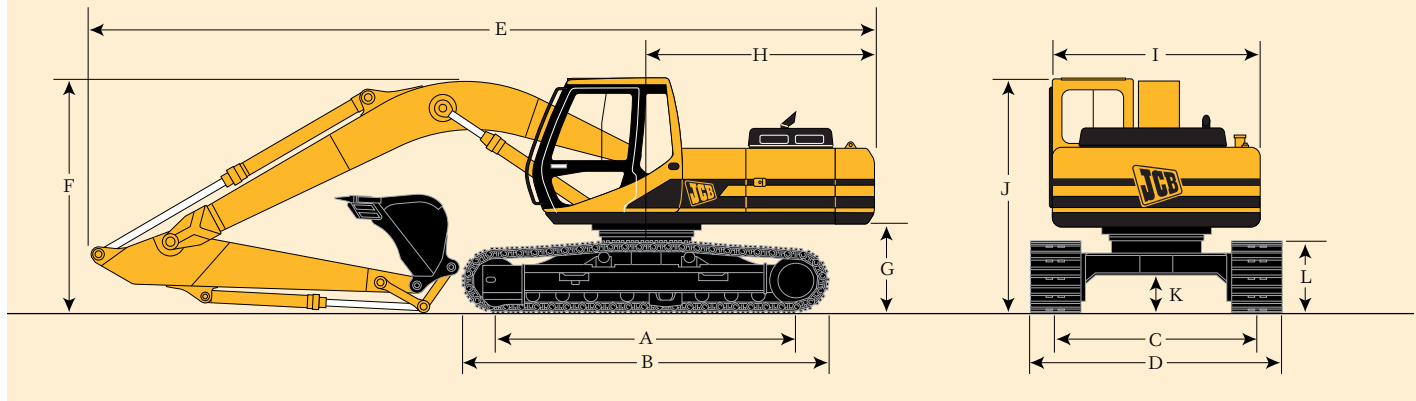
128 net HP and long-life reliability.



SPECIFICATION

JCB JS200 TRACKED EXCAVATOR

STATIC DIMENSIONS



DIMENSIONS

A	Track length on ground	12ft. 0in. (3660mm)
B	Undercarriage overall length	14ft. 8in. (4460mm)
C	Track gauge	7ft. 10in. (2390mm)
D	Width over tracks (600 shoes)	9ft. 10in. (2990mm)
D	Width over tracks (700 shoes)	10ft. 2in. (3090mm)
D	Width over tracks (800 shoes)	10ft. 6in. (3190mm)
D	Width over tracks (900 shoes)	10ft.10in. (3290mm)
E	Transport length with Monoboom	31ft. 0in. (9440mm)
F	Transport height with Monoboom	9ft. 5 in. (2860mm)
G	Counterweight clearance	3ft. 6in. (1066mm)
H	Tailswing radius	9ft. 1in. (2770mm)
I	Width of superstructure*	8ft. 2in. (2500mm)
J	Height over cab	9ft. 6in. (2886mm)
K	Ground clearance	1ft. 7in. (486mm)
L	Track height	2ft. 11in. (885mm)

ENGINE

Model: Isuzu A-6BG1TQB-04.
 Type: Water cooled, 4-stroke, 6-cylinder in-line, direct injection, turbocharged diesel.
 Net power: (SAE J1349 and 80/1269/EEC) 128hp (95kW) at 1950RPM.
 Piston Displacement: 396 cu.in. (6.494 liters).
 Air Filtration: Dry element with secondary safety element and in cab warning indicator.
 Cooling: Water cooler via large capacity radiator with anti block "wavy" fins and protected by a separate fine mesh grille.
 Starting system: 24 volt.
 Batteries: 2 x 12 volt Heavy Duty.
 Alternator: 24 volt 40 amp.
 Refuelling pump: Electric type.

SWING SYSTEM

Swing motor: Axial piston type.
 Swing brake: Hydraulic braking plus automatic spring applied disc type parking brake.
 Final drive: Planetary reduction.
 Swing speed: 11.9RPM.
 Swing gear: Large diameter, internally toothed fully sealed grease bath lubricated.
 Swing lock: Multi position switchable brake.

OPERATOR STATION

Pressed steel cab frame conforming to ISO dimensional standards, noise and vibration isolated by six hydraulically damped resilient mountings. All safety glass windows with opening front windshield, removable lower shield and opening door windows and roof hatch. Fan forced fresh air ventilation and heater with windshield defogger and wash/wiper. Fully adjustable deluxe suspension seat with headrest, armrests and backrest recline. Seat and servo hand controls are trolley mounted for combined or independent adjustment - hand controls are forward and back adjustable. Radio cassette player with digital tuning, cigarette lighter, ashtray, digital clock, cup holder and storage box are standard.

UNDERCARRIAGE

Construction: Fully welded, "X" frame type with central bellyguarding and sloping sidemembers with dirt relief holes under top rollers. Recovery point: Front and rear.
 Track shoe options: 24in. (600mm), 28in. (700mm), 31in. (800mm), 35in. (900mm). Upper & lower rollers: Heat treated, sealed and lubricated. Track adjustment: Grease cylinder type.
 Track idler: Sealed and lubricated, with spring cushioned recoil.
 Quantity of track guides 1 per side
 Quantity of lower rollers 8 per side
 Quantity of upper rollers 2 per side
 Quantity of track shoes 49 per side

TRACK DRIVE

Type: Fully hydrostatic, three speed with autoshift. Travel motors: Variable swash axial piston type, fully guarded within undercarriage frame. Final drive: Planetary reduction, bolt-on sprockets. Service brake: Hydraulic counter balance valve to prevent overspeeding on gradients. Park brake: Disc type, spring applied, automatic hydraulic release. Gradeability: 70% (35 deg) continuous.
 Travel speed: High - 3.4 mph (5.5 km/h).
 Mid - 2.1 mph (3.3 km/h).
 Low - 1.4 mph (2.3 km/h).
 Tractive effort: 185.7kN (41234lbf, 18940kgf).

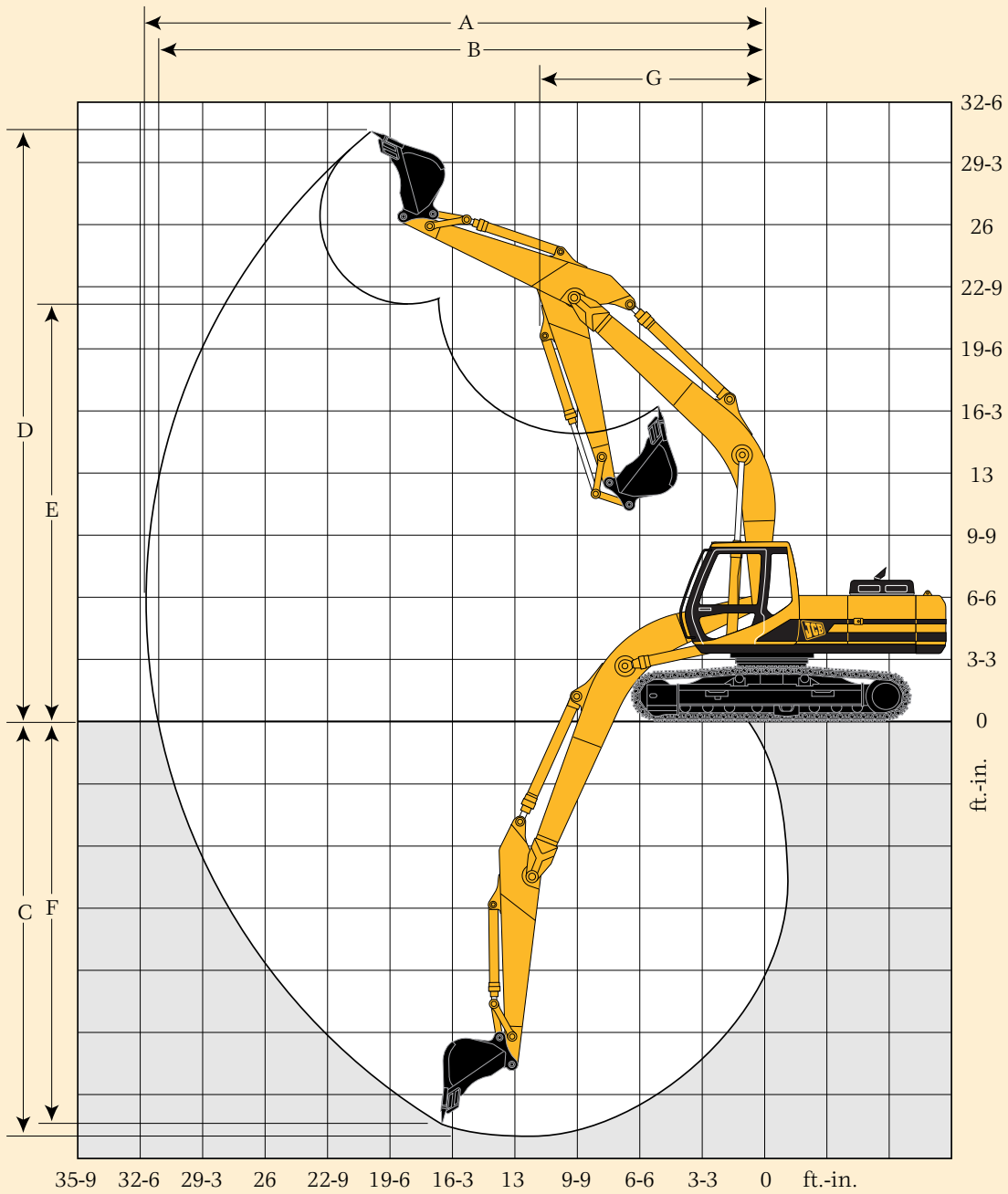
SERVICE CAPACITIES

Fuel tank	81.6 USgal (310.0 l)
Engine coolant	6.7 USgal (25.5 l)
Engine oil	5.1 USgal (19.5 l)
Swing reduction gear	1.3 USgal (5.0 l)
Track reduction gear (each side)	1.2 USgal (4.7 l)
Hydraulic system	52.6 USgal (200.0 l)
Hydraulic tank	31.6 USgal (120.0 l)

* with cab handrail removed

JCB JS200 TRACKED EXCAVATOR

WORKING RANGE













Boom length: 18ft. 7in.	6ft. 3in. (1.91m)	7ft. 10in. (2.40m)	9ft. 9in. (3.00m)
A Maximum digging reach	29ft. 2in. (8.89m)	30ft. 8in. (9.34m)	32ft. 5in. (9.87m)
B Maximum digging reach (on ground)	28ft. 7in. (8.70m)	30ft. 1in. (9.16m)	31ft. 10in. (9.70m)
C Maximum digging depth	18ft. 2in. (5.53m)	19ft. 9in. (6.02m)	21ft. 8in. (6.60m)
D Maximum digging height	29ft. 4in. (8.95m)	30ft. 2in. (9.20m)	30ft. 10in. (9.40m)
E Maximum dumping height	20ft. 8in. (6.31m)	21ft. 5in. (6.53m)	22ft. 2in. (6.75m)
F Maximum vertical wall cut depth	16ft. 1in. (4.90m)	17ft. 11in. (5.47m)	19ft. 11in. (6.07m)
G Minimum swing radius	12ft. 4in. (3.76m)	12ft. 2in. (3.71m)	11ft. 10in. (3.60m)
Bucket rotation	183°	183°	183°
Dipper tearout	35948lbs (16340kgf)	28820lbs (13100kgf)	22990lbs (10450kgf)
Dipper tearout with boost	38940lbs (17700kgf)	30800lbs (14000kgf)	24794lbs (11270kgf)
Bucket tearout	25894lbs (11770kgf)	25894lbs (11770kgf)	25894lbs (11770kgf)
Bucket tearout with boost	27962lbs (12710kgf)	27962lbs (12710kgf)	27962lbs (12710kgf)











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LIFTING CAPACITIES











Mono Boom: Dipper Length: 6.3 ft. (1.91m), Track Shoe: 27.6 in. (700mm) Triple Grouser. 1.50 cu. Yd. (1.14 cu. M.) Bucket - 1587 lbs. (720 kgs.)


Load Point Height	Reach from Swing Center																				
	10 ft. (3m)				15 ft. (4.5m)				19.5 ft. (6m)				25 ft. (7.5m)				Capacity at Max. Reach				
																					
lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs
19.5 ft. (6m)								10606	4810	9856	4470										
15 ft. (4.5m)					17023	7720	15435	7000	13803	6260	9592	4350	9041	4100	6395	2900					
10 ft. (3m)					21455	9730	14156	6420	14509	6580	9085	4120	9989	4530	6262	2840					
5 ft. (1.5m)					22447	10180	13142	5960	13958	6330	8600	3900	9768	4430	6064	2750	8754	3970	5402	2450	
0 ft. (0m)					22072	10010	12811	5810	13627	6180	8291	3760	9614	4360	5931	2690					
- 5 ft. (1.5m)	22050	10000	22050	10000	22138	10040	12877	5840	13561	6150	8247	3740									
-10 ft. (3m)	31355	14220	26967	12230	22381	10150	13186	5980	13847	6280	8489	3850									
- 15 ft. (4.5m)																					


Mono Boom: Dipper Arm: 8.0 ft. (2.40m), Track Shoe: 27.6 in. (700mm) Triple Grouser. 1.37 cu. Yd. (1.05 cu. M.) Bucket - 1496 lbs. (679 kgs.)

Load Point Height	Reach from Swing Center																				
	10 ft. (3m)				15 ft. (4.5m)				19.5 ft. (6m)				25 ft. (7.5m)				Capacity at Max. Reach				
																					
lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs
19.5 ft. (6m)								11400	5170	10077	4570										
15 ft. (4.5m)					15347	6960	15347	6960	12877	5840	9812	4450	10297	4670	6593	2990					
10 ft. (3m)					20661	9370	14597	6620	14729	6680	9283	4210	10121	4590	6395	2900					
5 ft. (1.5m)					22866	10370	13495	6120	14134	6410	8754	3970	9856	4470	6152	2790	8070	3660	4983	2260	
0 ft. (0m)					22226	10080	12943	5870	13737	6230	8401	3810	9658	4380	5976	2710					
- 5 ft. (1.5m)	23682	10740	23682	10740	22138	10040	12899	5850	13583	6160	8269	3750	9614	4360	5931	2690					
-10 ft. (3m)	34045	15440	26681	12100	22403	10160	13098	5940	13715	6220	8379	3800									
- 15 ft. (4.5m)	27210	12340	27210	12340	19316	8760	13671	6200													

Mono Boom: Dipper Arm: 10 ft. (3.00m), Track Shoe: 27.6 in. (700mm) Triple Grouser. 1.34 cu. Yd. (1.03 cu. M.) Bucket - 1554 lbs. (705 kgs.)

Load Point Height	Reach from Swing Center																				
	10 ft. (3m)				15 ft. (4.5m)				19.5 ft. (6m)				25 ft. (7.5m)				Capacity at Max. Reach				
																					
lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs	lbs.	kgs
19.5 ft. (6m)																					
15 ft. (4.5m)								11488	5210	9945	4510	10386	4710	6659	3020						
10 ft. (3m)	27474	12460	27474	12460	18368	8330	15016	6810	13914	6310	9415	4270	10165	4610	6417	2910					
5 ft. (1.5m)	13406	6080	13406	6080	22800	10340	13781	6250	14244	6460	8842	4010	9856	4470	6130	2780	5402	2450	4410	2000	
0 ft. (0m)	14751	6690	14751	6690	22337	10130	13010	5900	13737	6230	8401	3810	9592	4350	5909	2680					
- 5 ft. (1.5m)	22469	10190	22469	10190	22028	9990	12767	5790	13495	6120	8181	3710	9459	4290	5777	2620					
-10 ft. (3m)	34288	15550	26173	11870	22138	10040	12877	5840	13517	6130	8181	3710									
- 15 ft. (4.5m)	30958	14040	26901	12200	21565	9780	6637	3010	13892	6300	8533	3870									

 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 and bucket with dozer blade up.
 - Lift capacities may be limited by local regulations. Please refer to your dealer.

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WEIGHTS AND GROUND BEARING PRESSURES

Figures include 1.48 cu.yd (1.14cu.m) bucket, operator and full fuel tank.

Undercarriage & shoe width	Weight/Ground bearing pressure
LC 700mm	45621lb (20690kg) 5.25lb/sq.in (0.37kg/sq.cm)

HYDRAULIC SYSTEM

A variable flow load sensing system with flow on demand, variable power output and servo operated, multi-function open center control.

Pumps

Main pumps: 2 variable displacement axial piston type. Maximum flow: 2 x 51.5 GPM (2 x 196 L/min). Servo pump: Gear type. Maximum flow: 5.32 GPM (20 L/min).

Control valve

A combined four and five spool control valve with auxiliary service spool as standard. When required twin pump flow is combined to boom, dipper and bucket services for greater speed and efficiency.

Relief valve settings

Boom/Arm/Bucket	4500psi (320 bar)
With power boost	4980psi (350 bar)
Swing circuit	4050psi (285 bar)
Travel circuit	4980psi (350 bar)
Pilot control	569psi (40 bar)

A separate Cushion Control valve in the servo system provides cushioning of the boom and dipper spools selection and quick warm-up of the servo system.

Hydraulic cylinders

Double acting type, with bolt-up end caps and hardened steel bearing bushes. End cushioning is fitted as standard on boom, dipper and bucket rams.

Dimensions:

Boom

Bore	4.9in. (125mm)
Rod	3.3in. (85mm)
Stroke	49.6in. (1259mm)

Dipper

Bore	5.3in. (135mm)
Rod	3.9in. (100mm)
Stroke	62.2in. (1580mm)

Bucket

Bore	4.7in. (120mm)
Rod	3.1in. (80mm)
Stroke	39.8in. (1012mm)

Filtration

The hydraulic components are protected by the highest standard of filtration to ensure long hydraulic fluid and component life. In tank: 150 micron, suction strainer. Main return line: 10 micron, fiberform element. Nephron Bypass line: 1.5 micron, paper element. Pilot line: 10 micron, paper element. Hydraulic hammer return: 10 micron, reinforced microform element.

Cooling

Worldwide cooling is provided via a full return line air blast cooler with anti-block wavy cooling fins and separate easy clean fine mesh grille.

GENERAL PURPOSE EXCAVATING BUCKETS

All buckets are JCB – Escro fully welded steel, with sealed, hardened steel pivot pins and replaceable wear parts.

Max. Width	Capacity (SAE heaped)	Weight
24in. (600mm)	0.52cu.yd. (0.40cu.m)	1067lb (484kg)
36in. (900mm)	0.93cu.yd. (0.71cu.m)	1312lb (595kg)
39in. (1000mm)	1.06cu.yd. (0.81cu.m)	1382lb (627kg)
47in. (1200mm)	1.35cu.yd. (1.03cu.m)	1555lb (705kg)
53in. (1350mm)	1.37cu.yd. (1.05cu.m)	1497lb (679kg)
57in. (1450mm)	1.49cu.yd. (1.14cu.m)	1588lb (720kg)
59in. (1500mm)	1.56cu.yd. (1.19cu.m)	1618lb (734kg)

CONTROLS

Excavator: All servo lever operated, to ISO control pattern, independently adjustable to the seat. Tracks: individually servo operated by foot pedal or hand lever. Speed selection via foot operated switch with autoshift override. Auxiliary: Via servo operated foot pedal. Low flow: via switch in RH servo lever. Controls isolation: Gate lock lever at cab entrance. Engine speed: Dial type throttle control plus servo lever mounted one-touch control and separate selectable auto-idle. Engine stop: Ignition key operated and separate shut-down button. Power boost: Via servo lever mounted button. Horn: Operated via servo lever mounted button.

Instrumentation

CAPS II – Computer Aided Power control System (2nd generation), with engine speed sensing for 100% engine power usage, controls the power and flow output of the hydraulic system via four operator selectable work modes – H (Heavy), S (Standard), L (Light) and F (Fine). Auto engine and hydraulics warm-up is provided on initial start-up together with S (Standard) mode and Cushion Control selection. The computer controller monitors all critical machine functions and operator selections which are displayed via a written LCD message monitor. Bar graph type gauges provide fuel level, water and hydraulic oil temperature readings. A self fault diagnostic system is built-in with a manual override for continuity of operation. Membrane type touch-sensitive switches are sealed against dirt and moisture ingress and are illuminated for night time operation.

EXCAVATOR END

Monoboom is standard on the JS200 along with a choice of dipper lengths to suit the requirements of reach, dig-depth, loadover height, breakouts and site versatility. Reserve strength is built into the fully welded structures for hydraulic hammer and other arduous operations. Fabricated bucket tipping links are provided with a choice of lift points.



ALWAYS FINDING A BETTER WAY.

THE BEST BACK-UP IN THE BUSINESS.

Buy any of the JCB tracked excavator models and you'll get a complete deal that extends beyond that of any rival.

FINANCE.

Your JCB dealer can meet your financial needs through a variety of plans for leasing, lease purchases with or without options, installment sales contracts and rental programs.



WARRANTY.

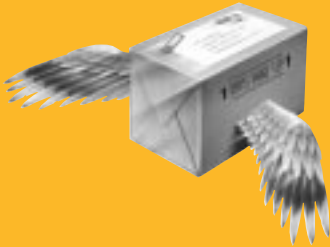
JCB excavators are covered by JCB's one year standard warranty, which is outlined in the JCB 'Certificate of Warranty'. Extended warranty coverage is also available. Contact your JCB dealer for details.

SERVICE.

JCB dealer service people are committed to keeping your JCB up and running. JCB dealer service technicians are enrolled in on-going training programs and supported by experienced JCB service representatives based throughout North America.

PARTS.

JCB dealers' convenient locations offer excellent 'over the counter' parts availability. JCB also offers:



48 HOUR PARTS GUARANTEE.

Ask your dealer for details - JCB offers its participating dealers a guarantee that breakdown parts will be available at the dealership within 48 hours or the parts and freight will be free.

REGIONAL PARTS DEPOTS.

For the breakdown part your dealer may not have in stock, JCB has SDD 'Same Day Dispatch,' from a parts distribution center in the United States and one in Canada.



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