



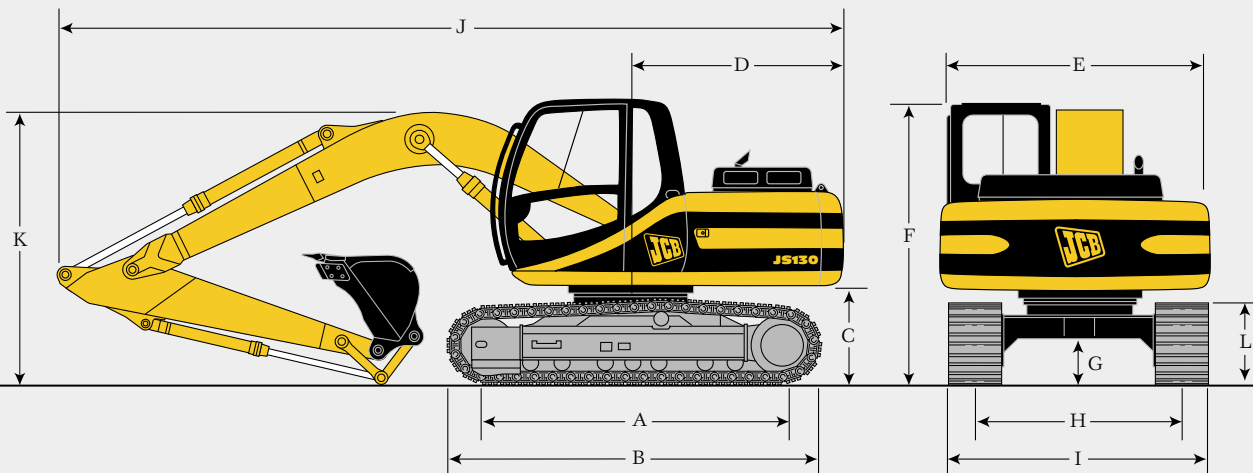
JCB JS 130

TRACKED EXCAVATOR



MAX. OPERATING WEIGHT: 13900 kg
NETT ENGINE POWER: 63kW (85 hp)

STATIC DIMENSIONS



| Dimensions in millimetres (ft. in.) | | |
|-------------------------------------|---------------------------------|-------------------|
| A | Track length on ground | 2780 (9ft. 1in.) |
| B | Undercarriage overall length | 3550 (11ft. 8in.) |
| C | Counterweight clearance | 910 (3ft. 0in.) |
| D | Tail swing radius | 2050 (6ft. 9in.) |
| E | Overall width of superstructure | 2410 (7ft. 11in.) |
| F | Height over cab | 2695 (8ft. 10in.) |
| G | Ground clearance | 460 (1ft. 6in.) |
| H | Track gauge | 1990 (6ft. 6in.) |
| I | Width o/tracks (500mm shoes) | 2490 (8ft. 2in.) |
| I | Width o/tracks (600mm shoes) | 2590 (8ft. 6in.) |

| Dimensions in millimetres (ft. in.) | | |
|-------------------------------------|---------------------------------|--------------------|
| I | Width o/tracks (700mm shoes) | 2690 (8ft. 10in.) |
| I | Width o/tracks (850mm shoes) | 2840 (9ft. 4in.) |
| J | Transport length (2.10 dipper) | 7580 (24ft. 10in.) |
| J | Transport length (2.50 dipper) | 7600 (24ft. 11in.) |
| J | Transport length (3.00 dipper)* | 7630 (25ft. 0in.) |
| K | Transport height (2.10 dipper) | 2695 (8ft. 11in.) |
| K | Transport height (2.50 dipper) | 2695 (8ft. 11in.) |
| K | Transport height (3.00 dipper)* | 2695 (8ft. 11in.) |
| L | Track height | 815 (2ft. 8in.) |

*Machine in transport position

ENGINE

Model: Isuzu. A4BG1T-S1
 Type: Water cooled, 4-stroke, 4-cylinder in-line, direct injection, turbocharged diesel.
 Nett power: (SAE J1349 and 80/1269/EEC) 63kW (85hp) at 2200RPM.
 Piston Displacement: 4.329 litres (264 cu.in.).
 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.

CAB

Pressed steel with high strength rolled section frame. All tinted safety glass windows with fully opening two piece windscreen and in screen stowage. Gas strut assisted. Parallelogram wash/wiper. Opening door windows. Fan force fresh air ventilation and heater with windscreen demister. Fully adjustable deluxe suspension seat with armrest and backrest recline. Radio cassette player with digital tuning. Cigarette lighter, ash tray. Digital clock and storage box are standard fitment.

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: 13.4RPM.
 Swing gear: Large diameter, internally toothed fully sealed grease bath lubricated.
 Swing lock: Multi position switchable brake.

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.
 Upper & lower rollers: Heat treated, sealed and lubricated.
 Track adjustment: Grease cylinder type.
 Track idler: Sealed and lubricated, with spring cushioned recoil.

Track shoes: 500mm (20in.) triple grouser
 600mm (24in.) triple grouser
 700mm (28in.) triple grouser
 850mm (33in.) triple grouser

Rollers and Shoes (each side):

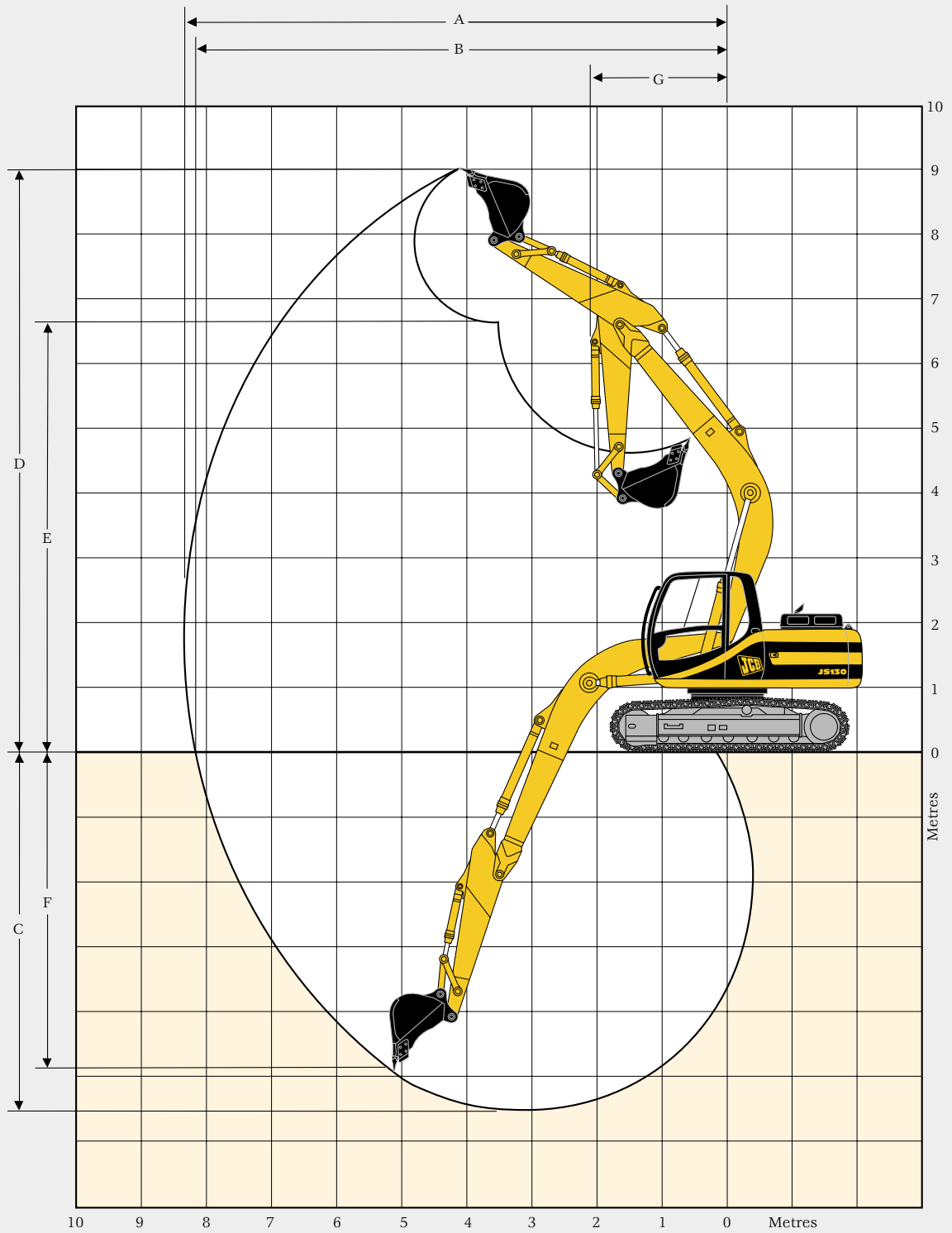
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|---------------|----|
| Upper rollers | 1 |
| Lower rollers | 7 |
| Track shoes | 44 |

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 - 5.5 km/h (3.4 mph).
 Mid - 3.3 km/h (2.1 mph).
 Low - 2.3 km/h (1.4 mph).
 Tractive effort: 104kN (10600kgf, 23369lbf).

SERVICE CAPACITIES

| | Litres | UKgal |
|----------------------------------|--------|-------|
| Fuel tank | 240.0 | 52.8 |
| Engine coolant | 16.4 | 3.8 |
| Engine oil | 12.1 | 2.7 |
| Swing reduction gear | 2.2 | 0.5 |
| Track reduction gear (each side) | 3.0 | 0.7 |
| Hydraulic system | 124.0 | 27.3 |
| Hydraulic tank | 73.0 | 16.1 |



| Boom length: 4.70m | 2.10m Dipper Arm | 2.50m Dipper Arm | 3.00m Dipper Arm |
|--|-------------------------|-------------------------|-------------------------|
| A Maximum digging reach | 7970mm (26ft. 2in.) | 8340mm (27ft. 4in.) | 8790mm (28ft. 10in.) |
| B Maximum digging reach (on ground) | 7820mm (25ft. 8in.) | 8200mm (26ft. 11in.) | 8660mm (28ft. 5in.) |
| C Maximum digging depth | 5150mm (16ft. 11in.) | 5550mm (18ft. 3in.) | 6050mm (19ft. 10in.) |
| D Maximum digging height | 8820mm (28ft. 11in.) | 9090mm (29ft. 10in.) | 9410mm (30ft. 10in.) |
| E Maximum dumping height | 6430mm (21ft. 1in.) | 6700mm (22ft. 0in.) | 7020mm (23ft. 0in.) |
| F Maximum vertical wall cut depth | 4580mm (15ft. 0in.) | 4980mm (16ft. 4in.) | 5440mm (17ft. 10in.) |
| G Minimum swing radius | 2050mm (6ft. 9in.) | 2050mm (6ft. 9in.) | 2410mm (7ft. 11in.) |
| Bucket rotation | 182° | 182° | 182° |
| Dipper tearout kgf | 8843 | 7430 | 6190 |
| Dipper tearout with boost kgf | 9570 | 8040 | 6700 |
| Bucket tearout kgf | 7720 | 7720 | 7720 |
| Bucket tearout with boost kgf | 8350 | 8350 | 8350 |

| Reach | 3.0m | | 4.5m | | 6.0m | | 7.5m | | Capacity at Max. Reach | | |
|-------------------|---|---|---|---|---|---|---|--|---|---|---|
| Load Point Height |  |  |  |  |  |  |  |  |  |  | m |

DIPPER LENGTH 2.10m MONOBOOM 700mm TRACKSHOES 0.55m³ BUCKET WEIGHT 468kg.


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|-------|-------|-------|-------|-------|-------|------|--|--|------|------|-----|
| 6.0m | | | 2090* | 2090* | | | | | | | |
| 4.5m | | | 2990* | 2990* | 2830* | 2280 | | | | | |
| 3.0m | 5170* | 5170* | 3750* | 3550* | 3100 | 2210 | | | | | |
| 1.5m | 7390* | 6120 | 4670* | 3300 | 2990 | 2110 | | | 2420 | 1690 | 6.8 |
| 0m | 7240* | 5760 | 4530 | 3110 | 2890 | 2020 | | | | | |
| -1.5m | 8530* | 5800 | 4440 | 3030 | 2850 | 1970 | | | | | |
| -3.0m | 7670* | 5900 | 4480 | 3070 | | | | | | | |
| -4.5m | 5430* | 5430* | | | | | | | | | |


DIPPER LENGTH 2.50m MONOBOOM 700mm TRACKSHOES 0.47m³ BUCKET WEIGHT 438kg.

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|------|--|--|-------|------|-----|
| 6.0m | | | 2290* | 2290* | | | | | | | |
| 4.5m | | | 2650* | 2650* | 2690* | 2330 | | | | | |
| 3.0m | 4530* | 4530* | 3430* | 3430* | 3000* | 2250 | | | | | |
| 1.5m | 7150* | 6290 | 4420* | 3350 | 3020 | 2130 | | | 2130* | 1540 | 7.2 |
| 0m | 7950* | 5830 | 4560 | 3140 | 2910 | 2030 | | | | | |
| -1.5m | 8630* | 5770 | 4450 | 3040 | 2850 | 1970 | | | | | |
| -3.0m | 8030* | 5840 | 4460 | 3040 | 2860 | 1990 | | | | | |
| -4.5m | 6280* | 5980 | 3960* | 3180 | | | | | | | |

DIPPER LENGTH 3.00m MONOBOOM 700mm TRACKSHOES 0.32m³ BUCKET WEIGHT 369kg.

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|-----|
| 6.0m | | | | | 1940* | 1940* | | | | | |
| 4.5m | | | 2230* | 2230* | 2390* | 2380* | | | | | |
| 3.0m | 3610* | 3610* | 3020* | 3020* | 2740* | 2320 | 2190 | 1550 | | | |
| 1.5m | 6160* | 6160* | 4070* | 3450 | 3080 | 2190 | 2130 | 1500 | 1900* | 1400 | 7.7 |
| 0m | 7910* | 5920 | 4620 | 3190 | 2950 | 2070 | 2070 | 1440 | | | |
| -1.5m | 8590* | 5720* | 4460 | 3050 | 2860 | 1990 | | | | | |
| -3.0m | 8330* | 5770 | 4440 | 3030 | 2850 | 1970 | | | | | |
| -4.5m | 7060* | 5930 | 4510 | 3110 | | | | | | | |

 Lift capacity (kg) front and rear

 Lift capacity (kg) full circle

- Notes: 1. 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.
 2. Lift capacities assume that the machine is on firm, level ground and equipped with an approved lifting point and bucket.

WEIGHTS AND GROUND BEARING PRESSURES

Machine equipped with Monoboom, Dipper Arm, Standard Excavating Bucket, operator and full fuel tank.

| Shoe Width | Operating Weight | Bearing Pressure |
|---------------|-------------------|---------------------------------|
| 500mm (20in.) | 13210kg (29130lb) | 0.41kg/sq. cm. (5.83lb/sq. in.) |
| 600mm (24in.) | 13400kg (29550lb) | 0.35kg/sq. cm. (4.98lb/sq. in.) |
| 700mm (28in.) | 13600kg (29990lb) | 0.31kg/sq. cm. (4.41lb/sq. in.) |
| 850mm (33in.) | 13890kg (30630lb) | 0.25kg/sq. cm. (3.56lb/sq. in.) |

STANDARD EXCAVATING BUCKETS

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

| Max Width | Capacity (SAE heaped) | Weight |
|----------------|-----------------------|----------------|
| 600mm (24in.) | 0.32cu.m (0.42cu.yd) | 369kg (814lb) |
| 750mm (30in.) | 0.43cu.m (0.56cu.yd) | 423kg (933lb) |
| 900mm (36in.) | 0.55cu.m (0.72cu.yd) | 468kg (1032lb) |
| 1000mm (40in.) | 0.63cu.m (0.82cu.yd) | 507kg (1118lb) |
| 1100mm (44in.) | 0.72cu.m (0.94cu.yd) | 537kg (1184lb) |
| 1200mm (48in.) | 0.80cu.m (1.05cu.yd) | 576kg (1270lb) |

HYDRAULIC SYSTEM

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

Pumps

Main pumps: 2 variable displacement axial piston type.
 Maximum flow:
 2 x 121 L/min (2 x 26.6 UK GPM).
 Servo pump: Gear type.
 Maximum flow: 20 L/min (4.4 UK GPM).

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 318 bar (4610lb/sq.in)
 With power boost 343 bar (4975lb/sq.in)
 Swing circuit 279 bar (4045lb/sq.in)
 Travel circuit 343 bar (4975lb/sq.in)
 Pilot control 40 bar (569lb/sq.in)
 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:

| | |
|---------------|-----------------|
| <i>Boom</i> | |
| Bore | 100mm (3.9in) |
| Rod | 75mm (3.0in) |
| Stroke | 1081mm (42.5in) |
| <i>Dipper</i> | |
| Bore | 115mm (4.5in) |
| Rod | 80mm (3.1in) |
| Stroke | 1205mm (47.4in) |
| <i>Bucket</i> | |
| Bore | 95mm (3.7in) |
| Rod | 70mm (2.8in) |
| Stroke | 924mm (36.4in) |

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, fibreform 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 grill.

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 and a console mounted switch.

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 with two level control switch in the console.

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 with a choice of dipper lengths to suit the requirements of reach, dig-depth, loader height, tearouts 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.

STANDARD/OPTIONAL EQUIPMENT

| | |
|---|-----|
| Engine fan guard | Std |
| Cold start pre-heat | Std |
| Auto engine warm up | Std |
| Double element air cleaner | Std |
| Radiator fine mesh grille | Std |
| Heavy duty alternator | Std |
| Electrics isolator | Std |
| Heavy duty batteries | Std |
| Cab & engine soundproofing | Std |
| Cab heater & screen demister | Std |
| Tinted glass | Std |
| Radio & cassette player | Std |
| Interior light | Std |
| Coat hook | Std |
| Ashtray & cigarette lighter | Std |
| Operator's storage box | Std |
| Removable floor mat | Std |
| Windscreen wash/wipe | Std |
| Plug-in power socket | Std |
| Power boost | Std |
| Auto-idle | Std |
| One-touch engine speed control | Std |
| Hydraulic cushion control | Std |
| Nephron hydraulic oil filtration | Std |
| HSP pressure test points | Std |
| Auxiliary pipework mounting brackets | Std |
| Work lights – boom & mainframe mounted | Std |
| Undercarriage belly guarding | Std |
| Upper structure under covers | Std |
| Tool kit & storage area | Std |
| External mirrors | Std |
| Handrail & nonslip pads | Std |
| Hose burst check valves & Overload warning system | Opt |
| Tipping link mounted lift points | Opt |
| General purpose buckets | Opt |
| Ditch/grading buckets | Opt |
| Quickhitch buckets | Opt |
| Hydraulic hammers | Opt |
| Hammer pipework | Opt |
| Low flow (grab rotate/weedcutter) pipework | Opt |
| Rain guard | Opt |
| Opening roof window | Opt |
| Air conditioning | Opt |
| Cab mounted & rear work lights | Opt |
| Rotating beacon | Opt |
| Electric refuelling pump | Opt |

Availability may vary according to region. Please consult your local distributor.



A GLOBAL COMMITMENT

TO QUALITY.

JCB's total commitment to its products and customers has helped it grow from a one-man business into Britain's largest privately owned manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, rough terrain fork lifts, industrial fork lifts, mini excavators, skid steers and tractors.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in Europe.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with a global sales and service network of over 400 distributors and agents, the company exports over 70% of its production to all five continents.

Through setting the standards by which others are judged, JCB has become one of Britain's most impressive success stories.



JCB care for the environment.
This paper has been produced without
the use of elemental chlorine chemicals
in the bleaching process.

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