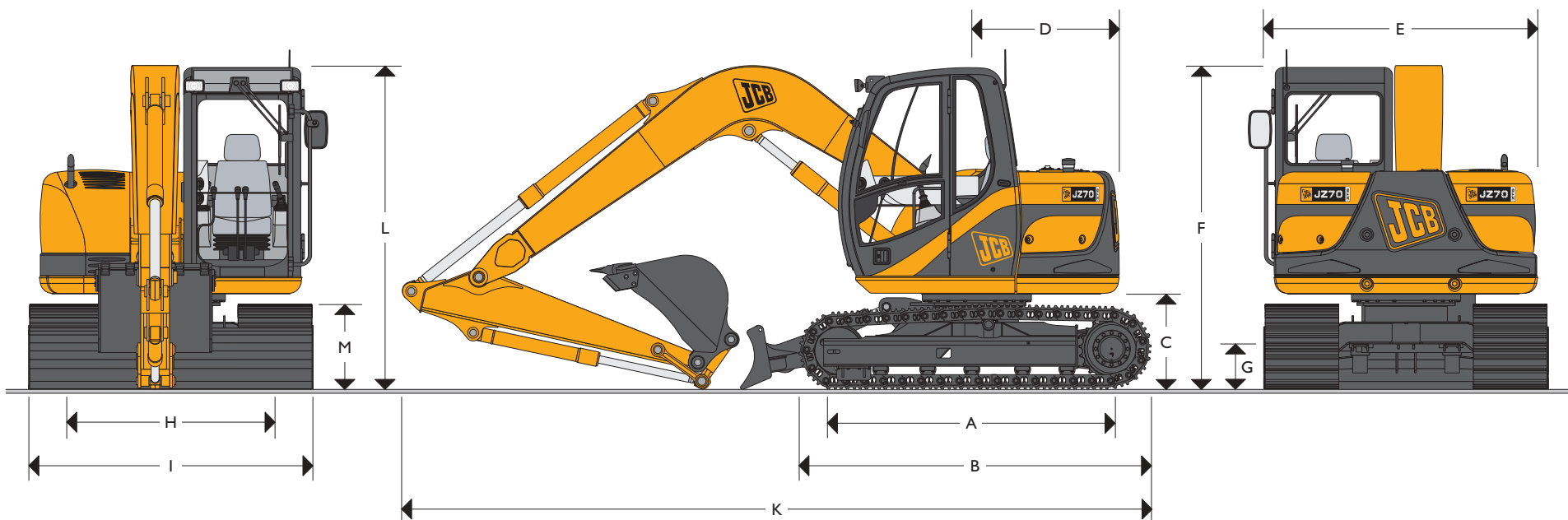




JCB TRACKED EXCAVATOR | JZ 70



MAX. OPERATING WEIGHT 8000kg
 NETT ENGINE POWER 44kW (58hp)



STATIC DIMENSIONS

Dimensions in millimetres (ft-in)	
A	Track length on ground 2200 (7-2)
B	Undercarriage overall length 2830 (9-3)
C	Counterweight clearance 767 (2-6)
D	Tailswing radius 1160 (3-10)
E	Overall width of superstructure 2220 (7-3)
F	Height over cab 2625 (8-7)
G	Ground clearance 363 (1-2)
H	Track gauge 1700 (5-7)

Dimensions in millimetres (ft-in)	
I	Width o/tracks (450mm shoes) 2150 (7-1)
I	Width o/tracks (600mm shoes) 2300 (7-6)
K	Transport length (standard boom)* 5420 (17-10)
K	Transport length (offset boom)* 5360 (17-7)
L	Transport height (standard boom)* 2640 (8-8)
L	Transport height (offset boom)* 2740 (9-0)
M	Track height 665 (2-2)

* Dimensions quoted with 1.74m dipper arm fitted.



JCB TRACKED EXCAVATOR | JZ 70



ENGINE

Model	Isuzu A-4JG1. Tier II compliant.
Type	Water cooled, 4-stroke, 4-cylinder in-line, direct injection, diesel.
Nett power (SAE J1349 and 80/1269/EEC)	44kW (58hp) at 2300 rev/min.
Piston Displacement	3.06 litres (186 cu.in.).
Air Filtration	Dry element with secondary safety element.
Cooling	Water cooled 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.

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	9.5 rev/min.
Swing gear	Large diameter, internally toothed.
Swing lock	Multi position hydraulic.

UNDERCARRIAGE

Construction	Fully welded, 'X' frame type with central bellyguarding and sloping sidemembers with dirt relief holes under top rollers.
Upper & lower rollers	Heat treated, sealed and lubricated.
Track type	Sealed and greased steel or continuous rubber.
Track adjustment	Grease cylinder type.
Track idler	Sealed and lubricated, with spring cushioned recoil.
Track shoes	450mm (18in) triple grouser 600mm (24in) triple grouser 450mm (18in) rubber tracks
Rollers and Shoes (each side)	Upper rollers 1 Lower rollers 5 Track shoes 39

HYDRAULIC SYSTEM

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

Pumps

Main pumps	1 variable displacement axial piston type.
Maximum flow	170 l/min (37.4 gal/min).

Control valve

A nine spool control valve with auxiliary service spools as standard (2 on Monoboom 1 on offset).

Relief valve settings

Boom/Arm/Bucket	284 bar (4118lb/sq.in)
Swing circuit	190 bar (2755lb/sq.in)
Travel circuit	284 bar (4118lb/sq.in) boost to 300 bar (4350lb/sq.in)
Pilot control	40 bar (580lb/sq.in)

Hydraulic cylinders

Double acting type, with screwed end caps and hardened steel bearing bushes. All rams are fully end damped.

Filtration

The hydraulic components are protected by the highest standard of filtration to ensure long hydraulic fluid and component life.

In tank	105 micron, suction strainer.
Main return line	10 micron, fibreform element.
Plexus 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.

TRACK DRIVE

Type	Fully hydrostatic, 2 speed.
Travel motors	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 km/h (3.1 mph). Low – 3.4 km/h (2.1 mph).
Tractive Effort	55kN (5600kgf, 12348lbf).

EXCAVATOR END

Choice of either monoboom or offset boom with two dipper lengths to suit the requirements of reach, dig depth, loadover height, tearouts and site versatility.

Fabricated tipping links are provided with a choice of lift points.

All rams are fully end-damped.



JCB TRACKED EXCAVATOR | JZ 70



CAB

Unlike some other zero tailswing machines, the full size high-comfort cab of the JZ70 gives the operator the room to operate in comfort, helping him to be more productive.

Dimensions in millimetres (ft-in)	External	Internal
Cab height	1703 (5-7)	1650 (5-5)
Cab length	1500 (4-11)	1430 (4-8)
Cab width	948 (3-1)	940 (3-1)
Distance from seat base to roof	1130 (3-8)	
Door aperture width	780 (2-7)	

- Steel cab with high strength rolled section frame conforms to ISO dimensional standards. Noise and vibration isolated by four hydraulically damped mountings.
- All tinted safety glass windows with fully opening two piece windscreen and in screen stowage. Gas strut assisted. Parallelogram wash/wiper. Opening door window.
- Fan forced fresh air ventilation and heater with windscreen demister.
- Fully adjustable deluxe suspension seat with armrests and backrest recline.
- Radio cassette player with digital tuning, cigarette lighter and ashtray are standard fitment.
- Air conditioning is available as an option.

AMS – ADVANCED MANAGEMENT SYSTEM

Advanced Management System

The heart of the system is the in-cab monitor unit. This gives a graphical display of fuel level, engine water and hydraulic oil temperatures, in addition to audio visual warnings and function selection.

The unit also controls the work mode and one touch idle facility.

The monitor and service tool can be used to check the function of pressure switches, solenoids and actual values on monitor gauges.

It is easy to amend the preset languages shown on the monitor. Using a service tool additional languages can be made available.

A maintenance indicator illuminates at the required service interval to make the operator aware of an imminent service.

All servicing and basic checks can be carried out using the cab monitor display. A service tool connected to the monitor can be used for more detailed diagnostics and machine history analysis.

CONTROLS

Excavator	All servo lever operated, to ISO control pattern.
Tracks	Individually servo operated by foot pedal or hand lever. Speed selection via foot operated switch.
Auxiliary	Via joystick switch on LH servo lever.
Low flow	Via switch on RH servo lever.
Controls isolation	Gate lock lever at cab entrance, via LH console, and a console mounted switch.
Engine speed	Dial type throttle control plus servo lever mounted one-touch idle control.
Engine stop	Ignition key operated.
Horn	Operated via servo lever mounted button.
Dozer	Via dedicated lever.

SERVICE CAPACITIES

	Litres	UK Gal
Fuel tank	120	26.3
Engine coolant	10.4	2.3
Engine oil	9.6	2.1
Track reduction gear (each side)	1.7	0.4
Hydraulic system	92.0	20.2
Hydraulic tank	55.0	12.1

WEIGHTS AND GROUND BEARING PRESSURES

Machine equipped with Boom; 1.74m (5ft 8in) Dipper Arm and standard excavating bucket. Operator and full fuel tank.

Standard Boom		
Track shoes	Operating Weight	Bearing Pressure
450mm (18in.)	7300kg (16096lb)	0.33kg/sq. cm. (4.69lb/sq. in.)
600mm (24in.)	7500kg (16537lb)	0.25kg/sq. cm. (3.56lb/sq. in.)
Offset Boom		
Track shoes	Operating Weight	Bearing Pressure
450mm (18in.)	7800kg (17200lb)	0.35kg/sq. cm. (4.97lb/sq. in.)
600mm (24in.)	8000kg (17640lb)	0.27kg/sq. cm. (3.84lb/sq. in.)

GENERAL EXCAVATING BUCKETS

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

Max Width	Capacity (SAE heaped)	Weight
305mm (12in.)	0.09cu.m (0.12cu.yd)	150kg (330lb)
455mm (18in.)	0.16cu.m (0.21cu.yd)	145kg (320lb)
610mm (24in.)	0.23cu.m (0.30cu.yd)	201kg (443lb)
800mm (32in.)	0.24cu.m (0.31cu.yd)	178kg (392lb)
950mm (37in.)	0.30cu.m (0.39cu.yd)	193kg (425lb)

DOZER BLADE

Dimensions in millimetres (ft-in)	
Max. height (above ground)	375 (1-3)
Dig depth (below ground)	235 (0-10)
Approach angle	degrees 26°
Width	2320 (7-6)
Height	460 (1-6)
Reach in front of tracks	480 (1-7)



JCB TRACKED EXCAVATOR | JZ 70



STANDARD & OPTIONAL EQUIPMENT

Standard Equipment: Engine fan guard; Cold start pre-heat; Double element air cleaner; Radiator fine mesh grille; Heavy duty alternator; Electrics isolator; Heavy duty batteries; Cab & engine soundproofing; Cab heater & screen demister; Tinted glass; Radio & cassette player; Interior light; Coat hook; Cigarette lighter; Removable floor mat; Windscreen wash/wipe; Plug-in power socket; One-touch engine speed control; Dozer blade; Plexus hydraulic oil filtration; HSP pressure test points; Auxiliary pipework mounting brackets; Work lights on boom (1) and cab (2 on front); Suspension seat; Undercarriage belly guarding; Upper structure undercovers; Cab mirror; Cab handrail; Quick-hitch electrics; Monoboom or offset 1.74 or 2.18m dipper arm; Track pads – 450mm (18 in.) triple grouser 600mm (24 in.) triple grouser 450mm (18 in.) continuous rubber tracks.

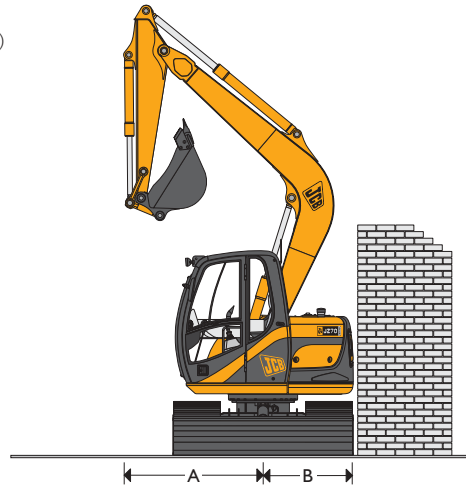
Optional Equipment: Hydraulic quick hitch; Tipping link mounted lift points; General purpose buckets; Ditch/grading buckets; Hydraulic hammers*; Hammer pipework*; Cab mounted rear work light; Rotating beacon; Electric refuelling pump; FOPS cab guard; Air conditioning; Hose Burst Check Valves (HBCVs – either 1 x Boom cylinder or 1 x Boom and 1 x dipper arm cylinders); Seat headrest; Rain guard; Air suspension seat; Biodegradeable oil.

* Mono boom only.

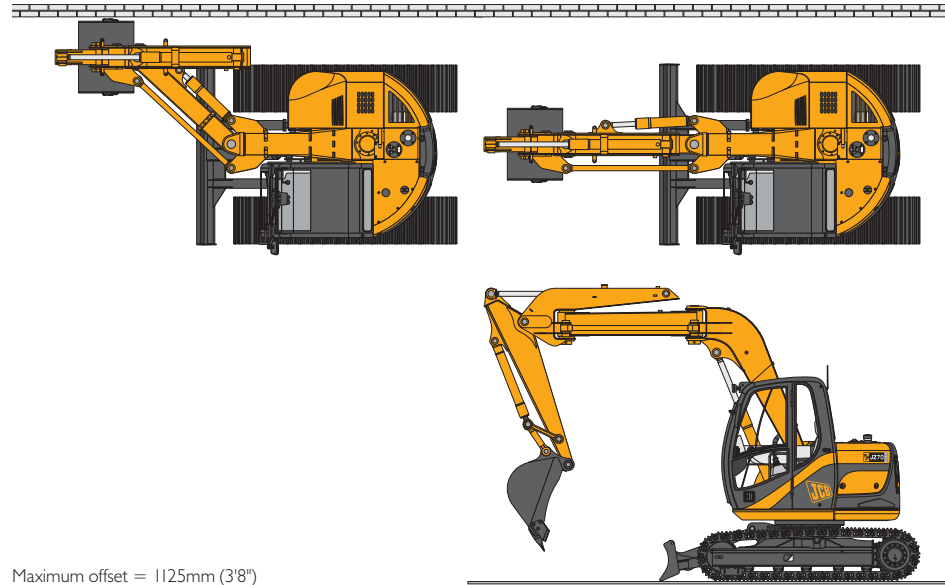
ZERO TAIL SWING PERFORMANCE

The JZ70 tracked excavator offers users all the advantages of a zero tailswing machine but none of the drawbacks. When fitted with 600mm tracks, the tail rotates within the width of the undercarriage, reducing the space required in which to operate the machine, ensuring the rear cannot come into contact with objects whilst turning. Also excellent lift capacity has been retained.

- A Front slew radius (with 1.74m dipper arm)
Mono – 1.75m (5ft 9in)
Offset – 1.92m (6ft 3in)
- B Tailswing radius – 1.16m



OFFSET BOOM PERFORMANCE



Maximum offset = 1125mm (3'8")

The optional parallel offset boom (available with either 1.74 or 2.18m dipper arms) and zero tailswing allow the JZ70 to dig close to obstacles and walls. This makes tasks such as digging foundations and loading dumptrucks simple and easy



JCB TRACKED EXCAVATOR | JZ 70

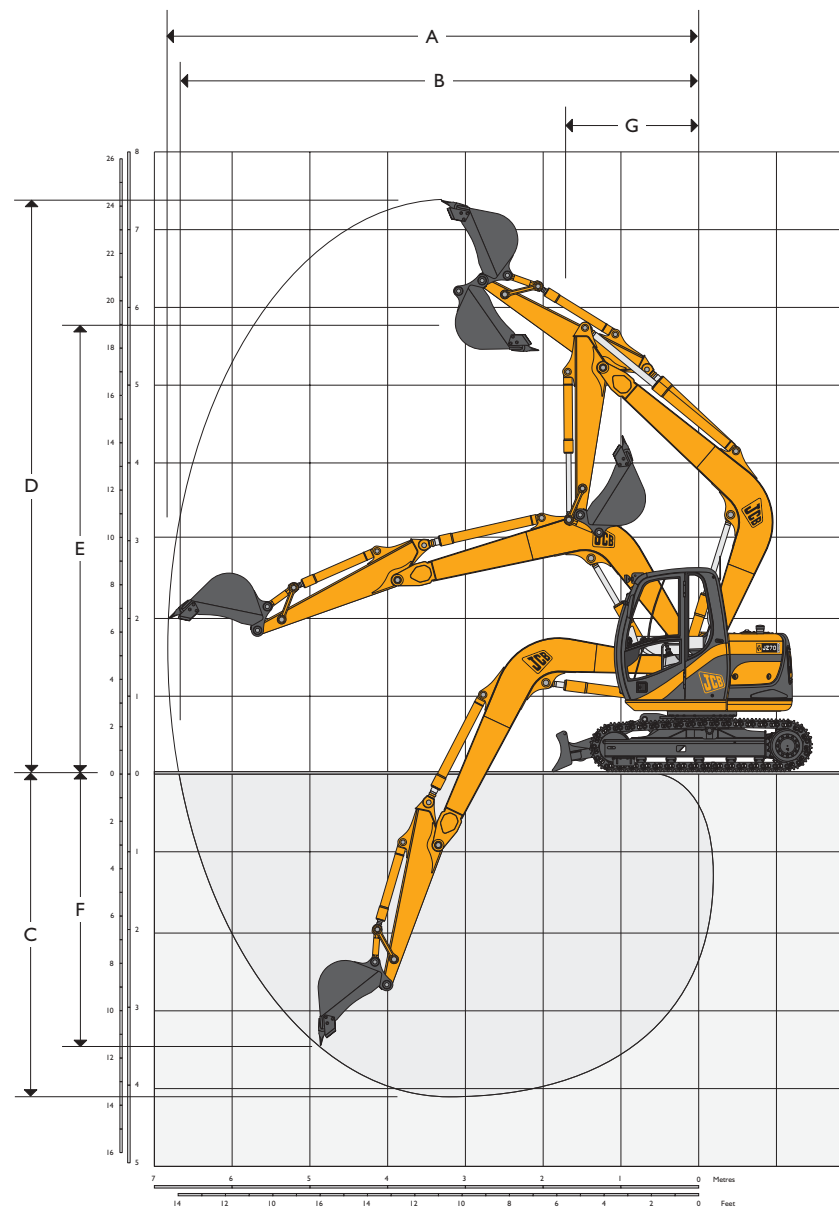


WORKING RANGE

Standard Boom			1.74m Dipper	2.18m Dipper
Dimensions				
A	Max. digging reach	mm (ft-in)	6360 (20-11)	6810 (22-4)
B	Max. digging reach on ground	mm (ft-in)	6220 (20-5)	6680 (21-11)
C	Max. digging depth	mm (ft-in)	4138 (13-7)	4573 (15-0)
D	Max. digging height	mm (ft-in)	7237 (23-9)	7667 (25-2)
E	Max. dumping height	mm (ft-in)	5157 (16-11)	5567 (18-2)
F	Max. vertical wallcut depth	mm (ft-in)	3483 (12-7)	4053 (14-3)
G	Max. swing radius	mm (ft-in)	1750 (5-9)	2050 (6-9)
	Dipper tearout	kgf (lbf)	4000 (8820)	3500 (7718)
	Bucket tearout – all machines	kgf (lbf)	5700 (12569)	5700 (12569)
	Bucket rotation – all machines	degrees	184°	184°

Offset Boom			1.74m Dipper	
Dimensions			No offset	Max. offset
A	Max. digging reach	mm (ft-in)	6350 (20-11)	5878 (19-3)
B	Max. digging reach on ground	mm (ft-in)	6234 (20-5)	5743 (18-10)
C	Max. digging depth	mm (ft-in)	4043 (13-3)	3563 (11-8)
D	Max. digging height	mm (ft-in)	7189 (23-7)	6801 (22-4)
E	Max. dumping height	mm (ft-in)	5123 (16-10)	4735 (15-6)
F	Max. vertical wallcut depth	mm (ft-in)	3173 (10-5)	2717 (8-11)
G	Max. swing radius	mm (ft-in)	1918 (6-3)	1680 (5-6)
	Dipper tearout	kgf (lbf)	4000 (8820)	4000 (8820)
	Bucket tearout – all machines	kgf (lbf)	5700 (12569)	5700 (12569)
	Bucket rotation – all machines	degrees	184°	184°

Offset Boom			2.18m Dipper	
Dimensions			No offset	Max. offset
A	Max. digging reach	mm (ft-in)	6810 (22-4)	6329 (20-9)
B	Max. digging reach on ground	mm (ft-in)	6684 (21-11)	6191 (20-4)
C	Max. digging depth	mm (ft-in)	4472 (14-8)	3989 (13-1)
D	Max. digging height	mm (ft-in)	7680 (25-2)	7280 (23-11)
E	Max. dumping height	mm (ft-in)	5603 (18-5)	5213 (17-1)
F	Max. vertical wallcut depth	mm (ft-in)	4073 (13-4)	3553 (11-8)
G	Max. swing radius	mm (ft-in)	2264 (7-5)	1937 (6-4)
	Dipper tearout	kgf (lbf)	3500 (7718)	3500 (7718)
	Bucket tearout – all machines	kgf (lbf)	5700 (12569)	5700 (12569)
	Bucket rotation – all machines	degrees	184°	184°















JCB TRACKED EXCAVATOR | JZ 70













LIFT CAPACITIES – Dipper length: 1.74m, Trackshoes: 600mm triple grouser, Bucket: 0.16m³, Weight 145kg.

Monoboom

Load Point	Reach from swing centre										
	2m (6ft 6in)		3m (9ft 10in)		4m (13ft 1in)		5m (16ft 5in)		Capacity at max. reach		
											
Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	m (ft-in)
5m (16.5ft)			1339*	1339*	1316*	1316*					
4m (13.1ft)			1447*	1447*	1398*	1398*					
3m (9.10ft)			1803*	1803*	1539*	1539*	1437	1131			
2m (6.6ft)			2294*	2294*	1760*	1567	1412	1108			
1m (3.3ft)			2701*	2306	1947	1507	1382	1079	1261	986	5.30 (17-4)
0m			2876*	2239	1901	1464	1359	1058			
- 1m (- 3.3ft)	4062*	4062*	2831*	2218	1881	1445					
- 2m (- 6.6ft)	3582*	3582*	2559*	2232	1852*	1457					
- 3m (- 9.10ft)	2673*	2673*	1848*	1848*							
- 4m (- 13.1ft)											

LIFT CAPACITIES – Dipper length: 1.74m, Trackshoes: 600mm triple grouser, Bucket: 0.16m³, Weight: 145kg.

Offset boom

Load Point	Reach from swing centre										
	2m (6ft 6in)		3m (9ft 10in)		4m (13ft 1in)		5m (16ft 5in)		Capacity at max. reach		
											
Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	m (ft-in)
5m (16.5ft)	1442*	1442*	1382*	1382*							
4m (13.1ft)	1695*	1695*	1471*	1471*	1353*	1353*					
3m (9.10ft)			1764*	1764*	1467*	1467*	1332*	1052			
2m (6.6ft)			2163*	2163*	1644*	1475	1329	1015			
1m (3.3ft)			2484*	2114	1810*	1378	1282	970	1163	879	5.30 (17-4)
0m			2602*	2007	1756	1310	1246	936			
- 1m (- 3.3ft)	3570*	3570*	2522*	1975	1725	1281					
- 2m (- 6.6ft)			2227*	2001	1601*	1302					
- 3m (- 9.10ft)											
- 4m (- 13.1ft)											



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.
 - Lift capacities may be limited by local regulations. Please refer to your dealer.













JCB TRACKED EXCAVATOR | JZ 70













LIFT CAPACITIES – Dipper length: 2.18m, Trackshoes: 600mm triple grouser, Bucket: 0.16m³, Weight: 145kg.

Monoboom

Load Point	Reach from swing centre										
	2m (6ft 6in)		3m (9ft 10in)		4m (13ft 1in)		5m (16ft 5in)		Capacity at max. reach		
											m (ft-in)
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg		
Ht.											
5m (16.5ft)					1217*	1217*					
4m (13.1ft)			1170*	1170*	1211*	1211*	1280*	1147			
3m (9.10ft)			1506*	1506*	1362*	1362*	1299*	1136			
2m (6.6ft)			2006*	2006*	1599*	1575	1402*	1105			
1m (3.3ft)			2491*	2332	1845*	1507	1373	1070	1079	854	5.75 (18-10)
0m			2784*	2238	1891	1453	1343	1041			
- 1m (- 3.3ft)	3945*	3945*	2849*	2195	1859	1423	1328	1027			
- 2m (- 6.6ft)	3904*	3904*	2684*	2192	1856	1420					
- 3m (- 9.10ft)	3151*	3151*	2184*	2184*							
- 4m (- 13.1ft)											

LIFT CAPACITIES – Dipper length: 2.18m, Trackshoes: 600mm triple grouser, Bucket: 0.16m³, Weight 145kg.

Offset boom

Load Point	Reach from swing centre										
	2m (6ft 6in)		3m (9ft 10in)		4m (13ft 1in)		5m (16ft 5in)		Capacity at max. reach		
											m (ft-in)
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg		
Ht.											
5m (16.5ft)	1081*	1081*	1141*	1141*	1172*	1172*					
4m (13.1ft)	1295*	1295*	1241*	1241*	1184*	1184*	1172*	1099			
3m (9.10ft)			1530*	1530*	1315*	1315*	1201*	1077			
2m (6.6ft)			1945*	1945*	1510*	1501	1288*	1027			
1m (3.3ft)			2328*	2160	1705*	1390	1283	971	1010	758	5.75 (18-10)
0m			2538*	2013	1752	1305	1234	924			
- 1m (- 3.3ft)	3620*	3620*	2549*	1949	1702	1258	1209	900			
- 2m (- 6.6ft)	3385*	3385*	2360*	1949	1698	1254					
- 3m (- 9.10ft)											
- 4m (- 13.1ft)											



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.
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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, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders 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.

