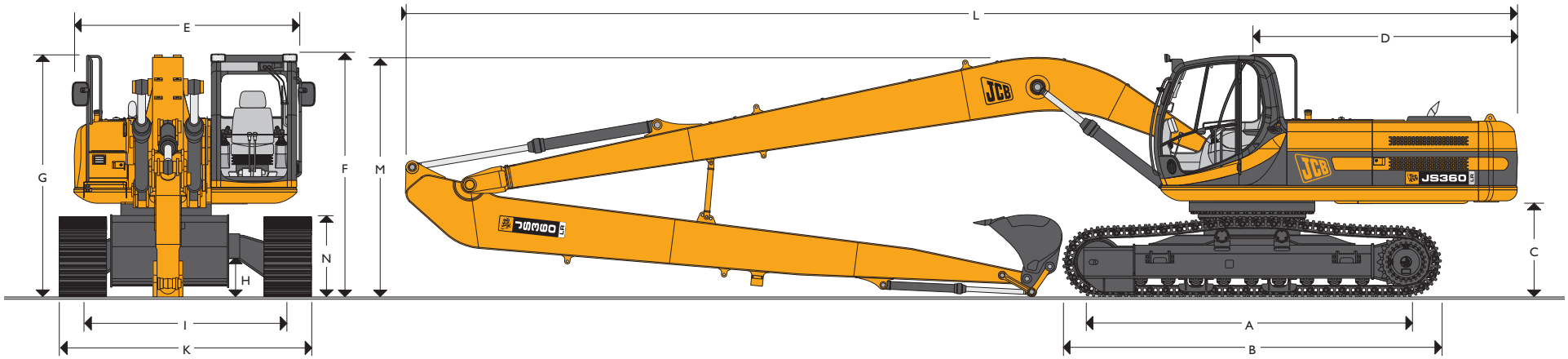
MAX. OPERATING WEIGHT: 42150 kg (92925) lb NETT ENGINE POWER: TIER 3 – 202 kW (271 hp)



STATIC DIMENSIONS

Dimensions in millimetres (ft-in)		LR
A	Track length on ground	4021 (13-2)
B	Undercarriage overall length	4954 (16-3)
C	Counterweight clearance	1214 (3-11)
D	Tail swing radius	3460 (11-4)
E	Overall width of superstructure	2990 (9-10)
F	Height over cab	3202 (10-6)
G	Height over grab rail	3220 (10-6)
H	Ground clearance	530 (1-8)

Dimensions in millimetres (ft-in)		LR
I	Track gauge	2600 (8-6)
K	Width o/tracks (700mm shoes)	3300 (10-10)
K	Width o/tracks (800mm shoes)	3400 (11-2)
K	Width o/tracks (900mm shoes)	3500 (11-6)
L	Transport length	16982
M	Transport height	4200 (13-78)
N	Track height	1024 (3-4)

ENGINE

Model	Isuzu AH-6HK1X Tier 3.
Type	Water cooled, 4-stroke, 6-cylinder in-line, common rail direct injection, turbocharged and intercooled diesel.
Net power T3 (SAE J1349 and 80/1269/EEC)	202kW (271hp) at 2000rpm.
Gross power T3	212kW (281hp) at 2000rpm.
Piston displacement	7.8 litres (475 cu.in.)
Bore/stroke	115mm x 125mm (4.5in. x 4.9in.)
Air filtration	Dry element with secondary safety element and in-cab warning indicator.
Starting system	24 volt.
Batteries	2 x 12 volt.
Alternator	24V, 50 ampere.

UNDERCARRIAGE

Carriage options	L-Long Carriage.
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	700mm (28in), 800mm (32in), 900mm (34in).
Upper & lower rollers	Heat treated, sealed and lubricated.
Track adjustment	Grease cylinder type.
Track idler	Sealed and lubricated, with spring cushioned recoil.
Track type	Sealed and lubricated.
	L
No. of track guides	2 per side
No. of lower rollers	9 per side
No. of upper rollers	2 per side
No. of track shoes	48 per side

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	9.1 rpm
Swing gear	Large diameter, internally toothed fully sealed grease bath lubricated.
Swing lock	Switchable brake.

EXCAVATOR END

Long reach boom and arm is standard on the JS360LR. Complete with 3HBCV. Designed for waterways maintenance application rather than material extraction applications. Machine can be ordered with loose standard monoboom and arms.

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 310 L/min (2 x 68 UK GPM)
Servo pump	Gear type.
Maximum flow	30 L/min (6.6 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, and bucket services for greater speed and efficiency.

Relief valve settings

Boom/Arm/Bucket	319 bar (4627lbf/sq.in)
With power boost	348 bar (5047lbf/sq.in)
Swing circuit	284 bar (4061lbf/sq.in)
Travel circuit	343 bar (4712lbf/sq.in)
Pilot control	45 bar (652lbf/sq.in)

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.

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.
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 single faced full return line air blast cooler with anti-block wavy cooling fins.

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 .46 km/h (3.4 mph). Mid – 3.09 km/h (1.9 mph). Low – 2.5 km/h (1.5 mph).
Tractive effort	293kN (29877kgf, 65869lbf).

CAB

Excellent digging, loading and positioning visibility results from the careful design of front, side and roof lights. All screens are tinted to improve in cab conditions.
Fully opening front screen is very smooth to operate and as the lower screen is stored within the top screen frame it makes complete front screen opening easy, fast and convenient.
Fresh air ventilation available from opening door window, opening slot in front screen and fully opening front screen.
Parallelogram wash wiper for upper screen ensuring good wiped area for maximum visibility. Wiper motor is fitted in the left hand side of the roof screen so as not to affect bucket visibility when loading. Optional lower screen wiper available.
Fresh air ventilation and heater with windscreen demister. Infinitely variable blower speed, temperature and recirculation control. Climate control. Fully adjustable deluxe suspension seat with arm rest adjustment and backrest recline. Radio fitted into the roof lining for maximum protection. Conveniently placed radio mute button incorporated into lower console. 12v power point and mobile phone holder built into the right hand console. Courtesy light can be operated from ground level and is illuminated for five minutes or until switched off improving operator access at night. Cab mounted roller blind protects operator from suns' glare through front or top screens.

AMS – ADVANCED MANAGEMENT SYSTEM

Four selectable working modes link the operators control movements with the engine and hydraulic systems to maximise productivity and efficiency.

A (Auto)	Up to 100% engine power and 100% flow. Gives variable power and speed depending on the operator's input, matching the demand for output and efficiency to the job. Power boost is automatically activated in this mode should hard conditions be encountered. Auto idle cuts in after a period of inactivity (between 5 and 30 seconds as set by the operator)
E (Economy)	80% engine power. 95% of hydraulic flow maximises economy while maintaining excellent output.
P (Precision)	55% engine power. 90% of hydraulic flow for fine control of grading operations.
L (Lifting)	55% engine power. 68% of hydraulic flow with permanent power boost for maximum lifting power and control.

The Auto mode allows the AMS processor to select the optimum operational performance to match the demands of the job while the three alternative modes give precise matching of application when specific tasks are undertaken.
The adjustable position monitor mounted on the front right hand pillar of the cab gives the operator a constant read out of mode, tracking range, operating temperature and a host of other information, while retaining excellent visibility of the monitor and the job being carried out.
The required flow for hammer applications can be set and stored in the AMS memory and is automatically activated whenever the hammer pedal is depressed.
A maintenance indicator warns of imminent service needs, and all servicing and basic checks can be carried out using only the in cab display.

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 joystick button.
Auxiliary	Via servo operated foot pedal.
Control isolation	Via gate lock lever at cab entrance or panel switch.
Engine speed	Dial type throttle control plus servo lever mounted one-touch idle control or separate selectable auto-idle with adjustable time delay using AMS.
Engine stop	Ignition key operated and seperate shut-down button.
Horn	Operated via servo lever mounted button.

SERVICE CAPACITIES

	Litres	UK gal
Fuel tank	670	147.4
Engine coolant	38	8.4
Engine oil	38	8.4
Swing reduction gear	14.5	3.19
track reduction gear (each side)	8.5	1.87
Hydraulic system	370	81.5
Hydraulic tank	183	40.2

STANDARD / OPTIONAL EQUIPMENT

Standard Equipment: Engine fan guard; Cold start pre-heat; Auto engine warm up; Double element air cleaner; Electric refuelling pump; Heavy duty alternator; Electrics isolator; Heavy duty batteries; Cab & engine soundproofing; Cab heater & screen demister; Tinted glass; Interior light; Coat hook; Cigarette lighter; Ashtray; Climate control; Operator's storage shelf; Removable floormat; Windscreen wash/wipe; Plug-in power socket; Automatic power boost; Auto-idle; One-touch engine speed control; Hydraulic cushion control; Boom/swing priority switch; Plexus hydraulic oil filtration; HSP pressure test points; Auxiliary pipework mounting brackets; Work lights – boom & mainframe mounted; Undercarriage belly guarding; Upper structure under covers; Swing system cover; Twin track guides; External mirrors; Handrail & non slip walk ways; Quick connect engine oil drain pipe; Front screen blind; Quick connect fuel tank drain pipe; Hinged engine under cover; 3 hose burst check valves.

Optional Equipment: Tipping link mounted lift points; General purpose buckets; Ditch/grading buckets; Quickhitch buckets; Auxiliary pipework (low flow); Cab mounted & rear work lights; Rotating beacon; Rain guard; Biodegradeable oil; Air suspension seat with heated pad and lumbar support adjustment; lower screen wiper; Radio; Cab protection guarding (FOPS level II); High and low temperature hydraulic oil option.

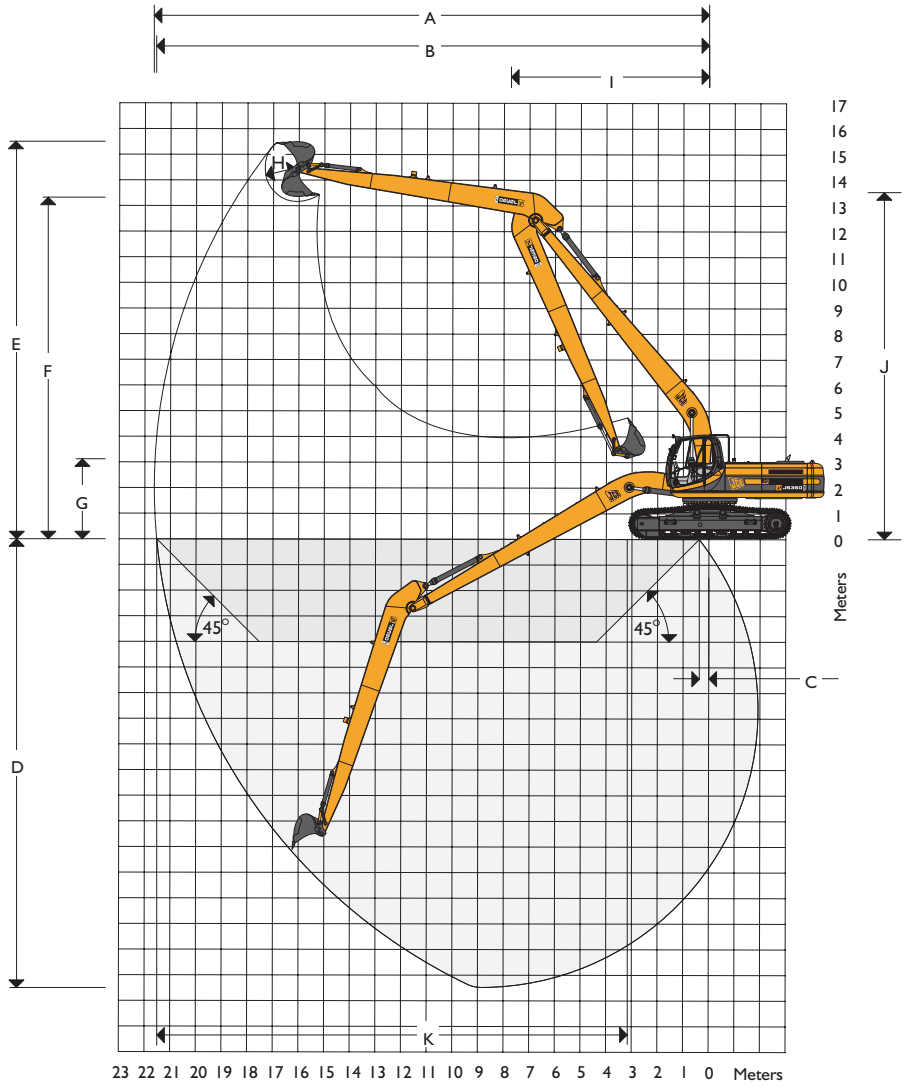
WEIGHTS

Equipped with 12.33m (40ft 5in.) boom, 9.50m (31ft 2in) arm, 0.5m³ ditching bucket, operator and full fuel tank.

JS360 LR		
Shoe Width	**Operating Weight**	**Ground Bearing Pressure**
700mm (28in)	40815kg (89982lb)	0.68kgf/sq.cm (9.66lbf/sq.in)
800mm (31in)	41705kg (91944lb)	0.59kgf/sq.cm (8.45lbf/sq.in)
900mm (35in)	42150kg (92925lb)	0.53kgf/sq.cm (7.51lbf/sq.in)

WORKING RANGE

Boom length: 12.33m (40ft 5in)			
Dipper length			**9.50m (31ft 2in)**
A	Maximum reach	mm (ft-in)	21103 (69-3)
B	Maximum reach (on ground)	mm (ft-in)	21004 (68-10)
C	Minimum reach (on ground)	mm (ft-in)	373 (1-3)
D	Maximum depth	mm (ft-in)	17039 (55-10)
E	Maximum height	mm (ft-in)	15831 (51-11)
F	Maximum dumping height	mm (ft-in)	14350 (47-1)
G	Minimum dumping height	mm (ft-in)	2437 (8-0)
H	Bucket struck radius	mm (ft-in)	1302 (4-3)
I	Minimum swing radius	mm (ft-in)	7728 (25-4)
J	Minimum swing radius height	mm (ft-in)	13539 (44-5)
K	Maximum ground level span	mm (ft-in)	19963 (65-6)
	Bucket rotation		182°
	Dipper tearout	kgf (lbf)	9062 (19978)
	Bucket tearout	kgf (lbf)	11992 (26438)



LIFT CAPACITIES – Dipper length: 9.5m, Boom: 12.33m, Trackshoes: 700mm, No bucket. **JS360 LR**

	Reach from swing centre																					
Load Point	0m		1.0m		2.0m		3.0m		4.0m		5.0m		6.0m		7.0m		8.0m		9.0m		10.0m	
Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
15.0m																						
14.0m																						
13.0m																						
12.0m																						
11.0m																						
10.0m																						
9.0m																						
8.0m																						
7.0m																						
6.0m																						
5.0m																						
4.0m																						
3.0m									8610*	8610*	8940*	8940*	7160*	7160*	5980*	5980*	5150*	5150*	4520*	4520*	4040*	4040*
2.0m									4830*	4830*	9460*	9460*	7790*	7790*	6450*	6450*	5500*	5500*	4790*	4790*	4260*	4260*
1.0m									3920*	3920*	6780*	6780*	8320*	8320*	6850*	6850*	5810*	5810*	5040*	5040*	4460*	4460*
0m							2530*	2530*	3830*	3830*	5900*	5900*	8710*	8390	7180*	7000	6080*	5950	5260*	5130	4630*	4470
– 1.0m					2650*	2650*	3060*	3060*	4070*	4070*	5700*	5700*	8180*	7880	7420*	6550	6290*	5580	5440*	4820	4790*	4210
– 2.0m			3280*	3280*	3200*	3200*	3600*	3600*	4460*	4460*	5820*	5820*	7880*	7530	7580*	6220	6450*	5290	5590*	4570	4910*	3990
– 3.0m			3680*	3680*	3740*	3740*	4150*	4150*	4920*	4920*	6130*	6130*	7930*	7310	7660*	5990	6550*	5070	5680*	4370	5000*	3810
– 4.0m	4240*	4240*	4140*	4140*	4290*	4290*	4710*	4710*	5440*	5440*	6550*	6550*	8180*	7170	7680*	5840	6590*	4910	5740*	4210	5060*	3670
– 5.0m	4640*	4640*	4640*	4640*	4840*	4840*	5280*	5280*	5990*	5990*	7050*	7050*	8590*	7110	7630*	5740	6580*	4800	5750*	4110	5080*	3570
– 6.0m	5070*	5070*	5150*	5150*	5400*	5400*	5860*	5860*	6580*	6580*	7620*	7620*	8820*	7100	7530*	5700	6520*	4740	5720*	4040	5060*	3500
– 7.0m	5540*	5540*	5680*	5680*	5970*	5970	6470*	6470*	7200*	7200*	8240*	8240*	8590*	7130	7370*	5690	6410*	4710	5640*	4000	5010*	3460
– 8.0m	6020*	6020*	6220*	6220*	6560*	6560*	7090*	7090*	7850*	7850*	8920*	8920*	8290*	7190	7150*	5730	6250*	4720	5520*	4000	4910*	3440
– 9.0m	6530*	6530*	6780*	6780*	7170*	7170*	7740*	7740*	8550*	8550*	9290*	9290*	7930*	7300	6870*	5790	6030*	4770	5350*	4020	4770*	3460
– 10.0m	7050*	7050*	7350*	7350*	7800*	7800*	8430*	8430*	9290*	9290*	8720*	8720*	7490*	7430	6530*	5890	5760*	4940	5120*	4070	4580*	3500
– 11.0m			7940*	7940*	8450*	8450*	9140*	9140*	9550*	9550*	8060*	8060*	6970*	6970*	6110*	6020	5410*	4840	4830*	4150	4330*	3560
– 12.0m			8550*	8550*	9120*	9120*	9890*	9890*	8550*	8550*	7290*	7290*	6360*	6360*	5610*	5610*	4990*	4990*	4460*	4260	4000*	3660
– 13.0m					9820*	9820*	8850*	8850*	7390*	7390*	6390*	6390*	5630*	5630	5010*	5010*	4470*	4470*	4010*	4010*	3600*	3600*
– 14.0m							7020*	7020*	6050*	6050*	5340*	5340*	4770*	4770*	4280*	4280*	3840*	3840*	3450*	3450*	3080*	3080*
– 15.0m											4100*	4100*	3740*	3740*	3390*	3390*	3060*	3060*	2730*	2730*	2400*	2400*
– 16.0m															2290*	2290*	2060*	2060*	1790*	1790*		

Lift capacity front and rear.

Lift capacity full circle.

Notes:

1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFT CAPACITIES – Dipper length: 9.5m, Boom: 12.33m, Trackshoes: 700mm, No bucket. **JS360 LR**

	Reach from swing centre																							
Load Point	11.0m		12.0m		13.0m		14.0m		15.0m		16.0m		17.0m		18.0m		19.0m		20.0m		21.0m		Max. Reach		
Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
15.0m																							1380*	1380*	15600
14.0m											1640*	1640*											1350*	1350*	16387
13.0m											2060*	2060*	1390*	1390*									1320*	1320*	17079
12.0m											2130*	2130*	1840*	1840*									1310*	1310*	17686
11.0m											2140*	2140*	2090*	2090*	1490*	1490*							1300*	1300*	18218
10.0m											2160*	2160*	2100*	2100*	1870*	1870*							1300*	1300*	18681
9.0m											2200*	2200*	2120*	2120*	2060*	2060*	1380*	1380*					1300*	1300*	19079
8.0m									2330*	2330*	2240*	2240*	2150*	2150*	2080*	2080*	1710*	1710*					1310*	1310*	19418
7.0m							2510*	2510*	2390*	2390*	2280*	2280*	2190*	2190*	2110*	2110*	1990*	1860					1330*	1330*	19700
6.0m					2750*	2750*	2590*	2590*	2460*	2460*	2340*	2340*	2230*	2230*	2140*	2090	2060*	1810					1350*	1350*	19927
5.0m			3070*	3070*	2860*	2860*	2680*	2680*	2530*	2530*	2400*	2400*	2280*	2280*	2180*	2020	2090*	1760	1490*	1490*			1380*	1380*	20101
4.0m	3480*	3480*	3200*	3200*	2970*	2970*	2770*	2770*	2610*	2610*	2460*	2460*	2330*	2230	2220*	1960	2120*	1710	1680*	1490			1410*	1410*	20225
3.0m	3660*	3660*	3350*	3350*	3090*	3090*	2870*	2870*	2680*	2680*	2520*	2430	2380*	2140	2260*	1890	2150*	1660	1810*	1450			1450*	1390	20298
2.0m	3830*	3830*	3490*	3490*	3200*	3200*	2960*	2960*	2760*	2640	2590*	2330	2430*	2060	2300*	1820	2180*	1600	1910*	1400			1500*	1340	20321
1.0m	3990*	3990*	3620*	3620*	3310*	3210	3050*	2840	2830*	2510	2650*	2230	2480*	1970	2340*	1750	2210*	1550	1950*	1360			1560*	1310	20295
0m	4140*	3910	3740*	3450	3410*	3050	3140*	2700	2900*	2400	2700*	2130	2530*	1900	2370*	1680	2240*	1490	1930*	1320			1620*	1290	20218
– 1.0m	4270*	3700	3850*	3270	3500*	2900	3210*	2580	2970*	2290	2750*	2040	2570*	1820	2400*	1620	2260*	1450	1840*	1290			1700*	1270	20092
– 2.0m	4380*	3510	3940*	3110	3580*	2760	3280*	2460	3020*	2200	2790*	1960	2600*	1760	2430*	1570	2270*	1400					1790*	1270	19914
– 3.0m	4460*	3360	4010*	2970	3640*	2650	3320*	2360	3060*	2110	2830*	1890	2620*	1700	2440*	1520	2270*	1370					1900*	1270	19683
– 4.0m	4510*	3230	4060*	2860	3680*	2550	3360*	2280	3080*	2040	2840*	1830	2630*	1650	2440*	1490	2250*	1340					2020*	1290	19398
– 5.0m	4530*	3140	4080*	2780	3700*	2470	3370*	2210	3090*	1990	2840*	1790	2620*	1610	2420*	1460	2220*	1330					2170*	1320	19056
– 6.0m	4530*	3070	4080*	2720	3990*	2420	3370*	2170	3080*	1950	2830*	1760	2590*	1590	2380*	1450							2240*	1360	18653
– 7.0m	4480*	3030	4040*	2680	3660*	2380	3330*	2140	3040*	1920	2780*	1740	2540*	1580	2310*	1450							2260*	1420	18186
– 8.0m	4400*	3010	3970*	2660	3600*	2370	3270*	2120	2980*	1910	2710*	1740	2460*	1590									2290*	1500	17649
– 9.0m	4280*	3020	3860*	2660	3500*	2370	3170*	2130	2880*	1930	2600*	1750	2320*	1610									2310*	1610	17037
– 10.0m	4110*	3050	3710*	2690	3350*	2400	3030*	2160	2730*	1960	2430*	1790											2330*	1750	16340
– 11.0m	3890*	3110	3500*	2740	3150*	2450	2830*	2210	2510*	2010													2340*	1920	15546
– 12.0m	3600*	3190	3230*	2820	2880*	2520	2550*	2290															2330*	2160	14641
– 13.0m	3220*	3220*	2860*	2860*	2510*	2510*																	2300*	2300*	13600
– 14.0m	2720*	2720*	2370*	2370*																			2230*	2230*	12391
– 15.0m																							2070*	2070*	10957
– 16.0m																							1740*	1740*	9190

Lift capacity front and rear.

Lift capacity full circle.

Notes:
1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

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, tractors and compaction equipment.

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

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 more than 650 dealers and agents, we aim to deliver the best customer support in the industry.

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

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JCB Sales Limited, Rocester, Staffordshire ST14 5JP. Tel: 01889 590312. Fax: 01889 590588. Web: http://www.jcb.com

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