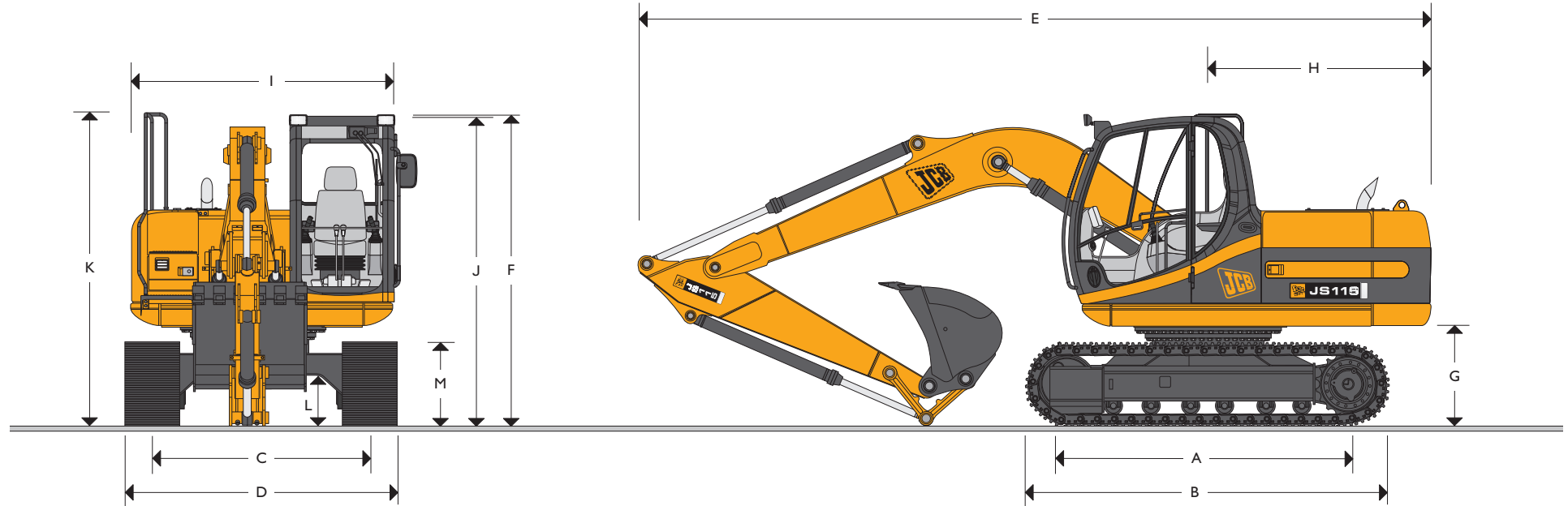


MAX. OPERATING WEIGHT: 12962 kg (28576 lb) MAX. ENGINE POWER: 73 kW (98 hp)



### STATIC DIMENSIONS

Dimensions in millimetres (ft-in)				Dimensions in millimetres (ft-in)	
A	Track length on ground			2580	(8-6)
B	Undercarriage overall length			3317	(10-11)
C	Track gauge			1990	(6-6)
D	Width over tracks (500mm trackshoes)			2490	(8-2)
D	Width over tracks (600mm trackshoes)			2590	(8-6)
D	Width over tracks (700mm trackshoes)			2690	(8-10)
<b>Dipper lengths</b>				<b>1.95m</b>	<b>(6ft 5in)</b>
				<b>2.25m</b>	<b>(7ft 5in)</b>
				<b>2.8m*</b>	<b>(9ft 2in)</b>
E	Transport length with Monoboom	7272	(23-10)	7272	(23-10)
				7307	(24-0)
F	Transport height with Monoboom	2864	(9-5)	2864	(9-5)
G	Counterweight clearance	905	(3-0)		
H	Tail swing radius	2050	(6-9)		
I	Width of superstructure	2410	(7-11)		
J	Height over cab	2839	(9-4)		
K	Height over grab rail	2864	(9-5)		
L	Ground clearance	464	(1-6)		
M	Track height	767	(2-6)		

\*Machine in transport position



## ENGINE

<b>Model</b>	Isuzu 4JJ1X Eu Stage IIIA, EPA Tier III compliant.
<b>Type</b>	Water cooled, 4-stroke, 4-cylinder in-line, common rail direct injection, turbocharged intercooled diesel.
<b>Rated power (ISO 14899 (SAE J1995))</b>	73kW (98hp) at 2000rpm.
<b>Piston Displacement</b>	2.999 litres (0.67 UK gal).
<b>Injection</b>	Electronic governor.
<b>Air Filtration</b>	Dry element with secondary safety element and in cab warning indicator.
<b>Cooling</b>	Large capacity radiator.
<b>Starting system</b>	24 volt – 4.5kW.
<b>Batteries</b>	2 x 12 volt Heavy Duty.
<b>Alternator</b>	24 volt 50 amp.
<b>Refuelling pump</b>	Electric type.

## SWING SYSTEM

<b>Swing motor</b>	Axial piston type.
<b>Swing brake</b>	Hydraulic braking plus automatic spring applied disc type parking brake.
<b>Final drive</b>	Planetary reduction.
<b>Swing speed</b>	11.5 rpm.
<b>Swing gear</b>	Large diameter, internally toothed fully sealed grease bath lubricated.
<b>Swing lock</b>	Multi position switchable brake.

## UNDERCARRIAGE

<b>Construction</b>	Fully welded, "X" frame type with central bellyguarding and sloping sidemembers with dirt relief holes under top rollers.
<b>Recovery point</b>	Front and rear.
<b>Upper &amp; lower rollers</b>	Heat treated, sealed and lubricated.
<b>Track adjustment</b>	Grease cylinder type.
<b>Track type</b>	Sealed and lubricated.
<b>Track idler</b>	Sealed and lubricated, with spring cushioned recoil.
<b>Track shoes</b>	500mm (20in.) triple grouser 600mm (24in.) triple grouser 700mm (28in.) triple grouser
<b>Rollers and Shoes (each side)</b>	Upper rollers 1 Lower rollers 6 Track shoes 41

## HYDRAULIC SYSTEM

A variable flow load sensing system with flow on demand, variable power output and servo operated, multi-function open centre control. Machine auto warm up standard – maximises performance in cold conditions.

**Pumps**

Main pumps	2 variable displacement axial piston type.
Maximum flow	2 x 112 L/min (2 x 24 UK GPM).
Servo pump	Gear type.
Maximum flow	20 L/min (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.

Optional hose burst check valves available for boom and dipper rams.

**Filtration**

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

<b>In tank</b>	150 micron, suction strainer.
<b>Main return line</b>	10 micron, fibreform element.
<b>Plexus Bypass line</b>	1.5 micron, paper element.
<b>Pilot line</b>	10 micron, paper element.
<b>Hydraulic hammer return</b>	10 micron, reinforced microform element.

**Cooling**

Worldwide cooling is provided as part of a single face cooling pack, in conjunction with the engine water cooler.

## TRACK DRIVE

<b>Type</b>	Fully hydrostatic, three speed with autoshift between high and medium speed.
<b>Travel motors</b>	Variable swash axial piston type, fully guarded within undercarriage frame.
<b>Final drive</b>	Planetary reduction, bolt-on sprockets.
<b>Service brake</b>	Hydraulic counter balance valve to prevent overspeeding on gradients.
<b>Park brake</b>	Disc type, spring applied, automatic hydraulic release.
<b>Gradeability</b>	70% (35 deg) continuous.
<b>Travel speed</b>	High – 4.41 km/h (2.74 mph). Mid – 2.89 km/h (1.80 mph). Low – 2.25 km/h (1.40 mph).
<b>Tractive effort</b>	110kN (24729lb).



## EXCAVATOR END

Monoboam available along with a choice of dipper lengths to suit the requirements of reach, dig-depth, loadover 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.

Strong, durable construction, large cross sections and multi plate fabrications to withstand high stress applications.

The 4.4m (14ft 5in) boom is designed to ensure the optimum digging envelope when matched with the three dipper lengths.

Low maintenance bronze alloy bushes with graphite plugs are fitted to boom base and boom to dipper pivots resulting in 1000 hour greasing intervals at these points.

## 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, with optional climate control. Fully adjustable deluxe suspension seat with arm rest adjustment and backrest recline. Optional radio with digital tuner 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. 63% 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 separate shut-down button.
- Horn** Operated via servo lever mounted button.
- Optional blade control** Independent lever in cab.

## SERVICE CAPACITIES

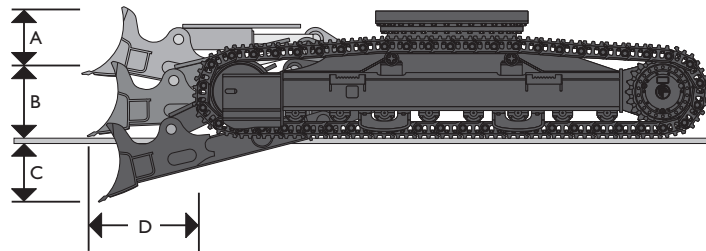
	Litres	UK Gal
Fuel tank	253	55.6
Engine coolant	16.4	3.6
Engine oil	13.2	2.9
Swing reduction gear	2.2	0.5
Track reduction gear (each side)	2.1	0.46
Hydraulic system	124.0	27.3
Hydraulic tank	73.0	16.1

## WEIGHTS AND GROUND BEARING PRESSURES

Machine equipped with 4.4m Monoboom, 2.25m Dipper, Standard Excavating Bucket, operator and full fuel tank.

Shoe Width	Operating Weight	Bearing Pressure
500mm (20in.)	11865kg (26158lb)	0.42kg/sq. cm. (5.97lb/sq. in.)
600mm (24in.)	12043kg (26550lb)	0.35kg/sq. cm. (4.98lb/sq. in.)
700mm (28in.)	12220kg (26940lb)	0.31kg/sq. cm. (4.41lb/sq. in.)

## OPTIONAL BLADE



A Blade height	mm (ft-in)	513 (1-8)
B Blade lift above ground	mm (ft-in)	439 (1-5)
C Blade cut below ground	mm (ft-in)	531 (1-9)
D Blade forward of track	mm (ft-in)	551 (1-10)
Dozer width – 500mm tracks	mm (ft-in)	2510 (8-3)
Dozer width – 600mm tracks	mm (ft-in)	2610 (8-7)
Dozer width – 700mm tracks	mm (ft-in)	2710 (8-11)
<b>Additional weight with blade</b>		
500mm tracks	kg (lb)	747 (1647)
600mm tracks	kg (lb)	753 (1660)
700mm tracks	kg (lb)	759 (1673)

## STANDARD / OPTIONAL EQUIPMENT

**Standard Equipment:** Engine fan guard; Cold start pre-heat; Auto engine warm up; Double element air cleaner; Heavy duty alternator; Electrics isolator; Heavy duty batteries; Cab & engine soundproofing; Cab heater & screen demister; Tinted glass; Radio; Interior light; Coat hook; Cigarette lighter; Ashtray; Operator's storage shelf with cargo net; Removable floor mat; Windscreen wash/wipe; Plug-in power socket; Automatic power boost; Auto-idle; One-touch engine speed control; Hydraulic cushion control; 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; External mirrors; Handrail & non slip walk ways; Quick connect engine oil drain pipe; Front screen blind; Quick connect fuel tank drain pipe.

**Optional Equipment:** Hose burst check valves & overload warning system; Tipping link mounted lift points; General purpose buckets; Ditching/grading buckets; Quickhitches; Hydraulic hammers; Auxiliary pipework (full and low flow); Climate control; Additional cab mounted worklights; Rotating beacon; Rain guard; Biodegradable oil; Air suspension seat with heated pad and lumbar support adjustment; Electric refuelling pump; Track guides; Lower screen wiper; Hot and cold climate hydraulic oils; Engine air precleaner; Widecore radiator, Backfilling/stabilising blade; Various track plate widths; Cab guard protection screens; Mesh screen guard; Seat belt; Fire extinguisher; Vandal cover kit; Travel alarm.

## BUCKET AND ARM COMBINATION

JCB Bucket	No Q/Hitch Fitted			Q/Hitch Fitted*		
	1.95m	2.25m	2.8m	1.95m	2.25m	2.8m
GP 500mm wide 0.235 cu.m (SAE heaped)	○	○	○	○	○	○
GP 600mm wide 0.315 cu.m (SAE heaped)	○	○	○	○	○	○
GP 700mm wide 0.39 cu.m (SAE heaped)	○	○	○	○	○	●
GP 750mm wide 0.43 cu.m (SAE heaped)	○	○	○	●	●	■
GP 800mm wide 0.47 cu.m (SAE heaped)	○	○	●	■	■	–
GP 900mm wide 0.55 cu.m (SAE heaped)	●	●	■	■	–	–
GP 1000mm wide 0.63 cu.m (SAE heaped)	■	■	–	–	–	–
GP 1100mm wide 0.715 cu.m (SAE heaped)	■	–	–	–	–	–

○ Material weight up to 1800kg/m<sup>3</sup> (1.35t/yd<sup>3</sup>)

● Material weight up to 1500kg/m<sup>3</sup> (1.13t/yd<sup>3</sup>)

■ Material weight up to 1200kg/m<sup>3</sup> (0.90t/yd<sup>3</sup>)

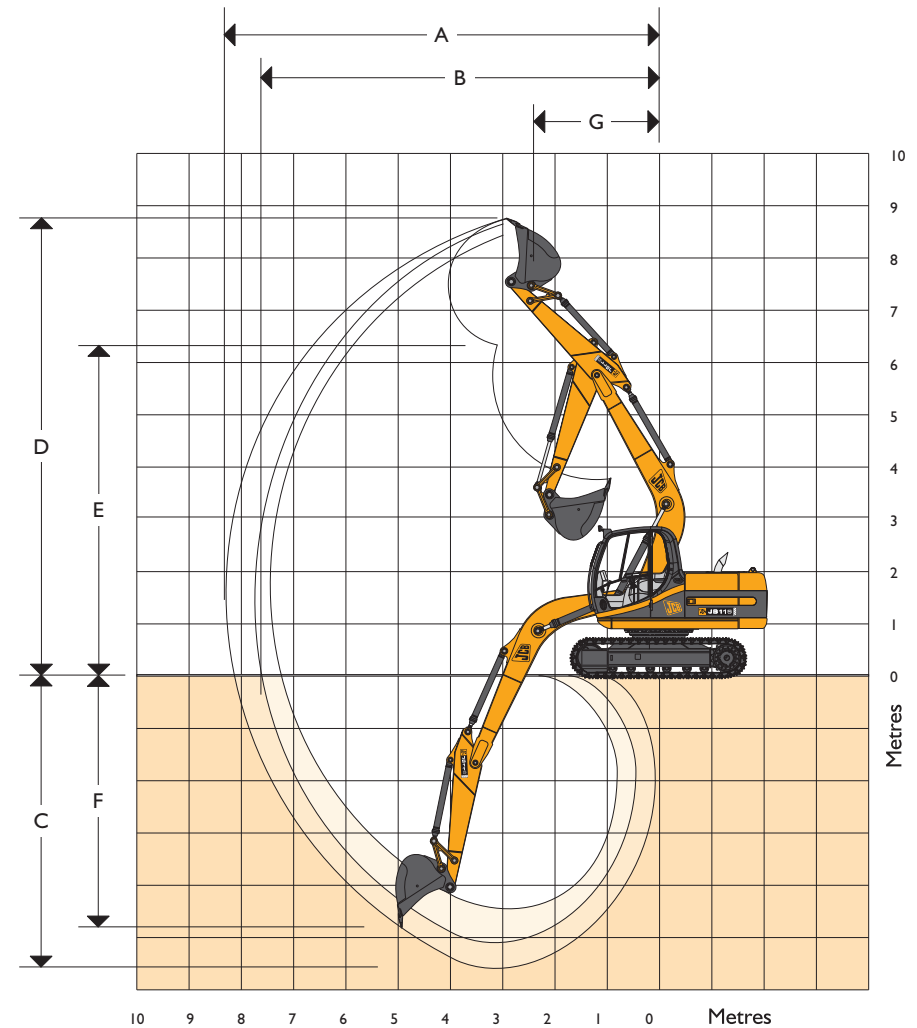
These recommendations are given as a guide based on typical operating conditions.

Please contact your distributor for the correct selection of buckets and attachments to suit the application.

\*Bucket capacity using JCB quickhitch only.

## WORKING RANGE

Boom length: 4.40m (14ft 5in)		
Dipper length:		<b>1.95m (6ft 5in)</b>
A	Maximum digging reach	mm (ft-in) 7547 (24-9)
B	Maximum digging reach (on ground)	mm (ft-in) 7324 (24-0)
C	Maximum digging depth	mm (ft-in) 4375 (14-4)
D	Maximum digging height	mm (ft-in) 8505 (27-11)
E	Maximum dumping height	mm (ft-in) 6112 (20-1)
F	Maximum vertical wall cut depth	mm (ft-in) 4435 (14-7)
G	Minimum swing radius	mm (ft-in) 2136 (7-0)
	Bucket rotation	182°
	Maximum dipper tearout (ISO 6015)	kgf (lbf) 5546 (12227)
	Maximum bucket tearout (ISO 6015)	kgf (lbf) 9375 (20668)
Dipper length:		<b>2.25m (7ft 5in)</b>
A	Maximum digging reach	mm (ft-in) 7822 (25-8)
B	Maximum digging reach (on ground)	mm (ft-in) 7669 (25-2)
C	Maximum digging depth	mm (ft-in) 5024 (16-6)
D	Maximum digging height	mm (ft-in) 8638 (28-4)
E	Maximum dumping height	mm (ft-in) 6331 (20-9)
F	Maximum vertical wall cut depth	mm (ft-in) 4715 (15-6)
G	Minimum swing radius	mm (ft-in) 2168 (7-1)
	Bucket rotation	182°
	Maximum dipper tearout (ISO 6015)	kgf (lbf) 5000 (11023)
	Maximum bucket tearout (ISO 6015)	kgf (lbf) 9375 (20668)
Dipper length:		<b>2.80m (9ft 2in)</b>
A	Maximum digging reach	mm (ft-in) 8281 (27-2)
B	Maximum digging reach (on ground)	mm (ft-in) 8136 (26-8)
C	Maximum digging depth	mm (ft-in) 5571 (18-3)
D	Maximum digging height	mm (ft-in) 8843 (29-0)
E	Maximum dumping height	mm (ft-in) 6601 (21-8)
F	Maximum vertical wall cut depth	mm (ft-in) 5351 (17-7)
G	Minimum swing radius	mm (ft-in) 2558 (8-5)
	Bucket rotation	182°
	Maximum dipper tearout (ISO 6015)	kgf (lbf) 4825 (10637)
	Maximum bucket tearout (ISO 6015)	kgf (lbf) 9375 (20668)



**LIFT CAPACITIES – Dipper Length: 1.95m (6ft 5in), 4.40m (14ft 5in) Monoboom, Trackshoes: 500mm (20in), No bucket.**
**JS115**

Reach	1.5m (4ft 11in)		3m (9ft 10in)		4.5m (14ft 9in)		6m (19ft 8in)		7.5m (24ft 7in)		Capacity at Max Reach		
													mm
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
7.5m (24.7ft)													
6.0m (19.8ft)													
4.5m (14.9ft)			3090*	3090*	2930*	2720					2240*	2000	5479
3.0m (9.10ft)			4510*	4400*	3320	2480	2200	1640			2170	1610	6067
1.5m (4.11ft)			5680	3990	3090	2270	2100	1550			1990	1470	6248
0m			5590	3890	2960	2150	2040	1500			2020	1480	6052
- 1.5m (- 4.11ft)	6120*	6120*	5510	3840	2940	2130					2310	1690	5446
- 3.0m (- 9.10ft)			4950*	3890							3300	2410	4247
- 4.5m (- 14.9ft)													

**LIFT CAPACITIES – Dipper Length: 2.25m (7ft 5in), 4.40m (14ft 5in) Monoboom, Trackshoes: 500mm (20in), No bucket.**
**JS115**

Reach	1.5m (4ft 11in)		3m (9ft 10in)		4.5m (14ft 9in)		6m (19ft 8in)		7.5m (24ft 7in)		Capacity at Max Reach		
													mm
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
7.5m (24.7ft)													
6.0m (19.8ft)					2630*	2630*					2050*	2050*	4717
4.5m (14.9ft)			2760*	2760*	2730*	2730*					1820*	1820*	5800
3.0m (9.10ft)			4150*	4150*	3190*	2520	2210	1660			1760*	1510	6360
1.5m (4.11ft)			5710	4030	3130	2310	2100	1560			1840*	1390	6528
0m			5560	3870	2980	2170	2030	1490			1900	1390	6346
- 1.5m (- 4.11ft)	5610*	5610*	5490	3830	2930	2130					2130	1570	5769
- 3.0m (- 9.10ft)	8630*	8630*	5330	3870	3010	2200					2890	2120	4654
- 4.5m (- 14.9ft)													



Lift capacity front and rear.















Lift capacity full circle.

- Notes:**
1. For lifting capacity including bucket, subtract total weight of bucket or bucket and quickhitch from above values.
  2. 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.
  3. Lift capacities assume that the machine is on firm, level ground.
  4. Lift capacities may be limited by local regulations. Please refer to your dealer.

## LIFT CAPACITIES – Dipper Length: 2.80m (9ft 2in), 4.40m (14ft 5in) Monoboom, Trackshoes: 500mm (20in), No bucket.

**JS115**

Reach	1.5m (4ft 11in)		3m (9ft 10in)		4.5m (14ft 9in)		6m (19ft 8in)		7.5m (24ft 7in)		Capacity at Max Reach		
													
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
7.5m (24.7ft)													
6.0m (19.8ft)					2200*	2200*					1890*	1890*	5332
4.5m (14.9ft)					2280*	2280*	2310	1730			1730*	1580	6312
3.0m (9.10ft)			3350*	3350*	2770*	2550	2190	1640			1710*	1320	6826
1.5m (4.11ft)			5190*	4060	3130	2300	2070	1520			1650	1210	6988
0m			5400	3740	2930	2120	1970	1430			1660	1200	6812
- 1.5m (- 4.11ft)	5090*	5090*	5300	3660	2850	2040	1930	1400			1830	1320	6283
- 3.0m (- 9.10ft)	8800*	8800*	5320	3690	2870	2060					2330	1690	5281
- 4.5m (- 14.9ft)													



Lift capacity front and rear.



Lift capacity full circle.

- Notes:**
1. For lifting capacity including bucket, subtract total weight of bucket or bucket and quickhitch from above values.
  2. 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.
  3. Lift capacities assume that the machine is on firm, level ground.
  4. Lift capacities may be limited by local regulations. Please refer to your dealer.

## 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.

