



JCB WHEELED EXCAVATOR | JS200W WASTEMASTER

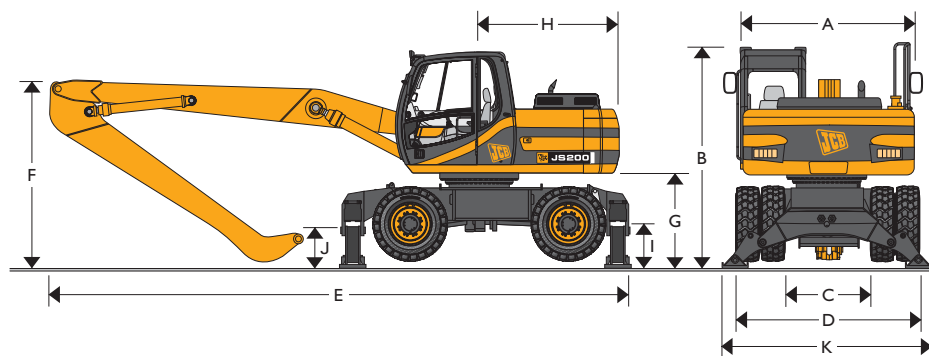
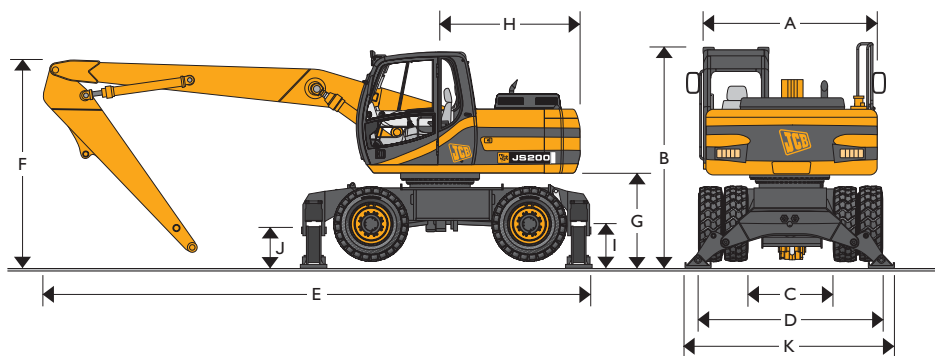


MAX. OPERATING WEIGHT

MATERIALS HANDLER – 24655kg (54355lb) SCRAP HANDLER – 24758kg (54582lb)

NETT ENGINE POWER

102kW (138hp)



STATIC DIMENSIONS – MATERIALS HANDLER

Dimensions in millimetres (ft-in)	
A Overall width (handrail removed)	2500 (8-2)
B Height over cab	3150 (10-4)
C Internal width between dual wheels	1240 (4-1)
D External width over dual wheels	2490 (8-2)
E Transport length	9500 (31-2)
F Transport height	3150 (10-4)
G Clearance under counterweight	1310 (4-4)
H Tail length	2530 (8-3)
I Height to axle centre line dual wheels	511 (1-7)
J Ground clearance	350 (1-1)
K Full width across stabilisers (down)	3938 (12-11)
Boom length	6800 (22-4)
Dipper length	4000 (13-1)

STATIC DIMENSIONS – SCRAP HANDLER

Dimensions in millimetres (ft-in)	
A Overall width (handrail removed)	2500 (8-2)
B Height over cab	3150 (10-4)
C Internal width between dual wheels	1240 (4-1)
D External width over dual wheels	2490 (8-2)
E Transport length	9110 (29-11)
F Transport height	4200 (13-9)
G Clearance under counterweight	1310 (4-4)
H Tail length	2530 (8-3)
I Height to axle centre line dual wheels	511 (1-7)
J Ground clearance	350 (1-1)
K Full width across stabilisers (down)	3938 (12-11)
Boom length	6800 (22-4)
Dipper length	5000 (16-5)



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ENGINE

Type	Water cooled, 4-stroke, 6-cylinder in-line, direct injection, turbocharged diesel. Stage II emissions compliant.
Net Power	(SAE J1349 and 80/1269/EC) 102kW (138hp) at 1950 RPM.
Piston displacement	6.494 litres
Starting system	24 volt.
Batteries	2 x 12 volt Heavy Duty.

SWING SYSTEM

Drive train	Axial piston motor and planetary reduction final drive.
Swing brake	Hydraulic braking plus automatic spring applied disc type parking brake.
Swing speed	6RPM
Swing gear	Large diameter, internally toothed fully sealed grease bath lubricated.
Swing lock	Multi position switchable brake and mechanical lock.

CHASSIS

Structure	High strength section.
Chassis	Front and rear stabilisers.
Stabilisers	Front and rear pin mount, independently operable – plus combinations.
Transmission	Hydrostatic drive via piston motor and powershift transmission.
Travel speed	Low ratio 8kph (5mph) Creep speed 3kph (2mph)
Axles	Four wheel drive. Front steering oscillating axle.
Axle load capacity	42 tonnes
Axle oscillation	+/- 8.5 degrees
Ground clearance	350mm (1ft 1in)
Steering	Fully hydraulic system.
Turning radius	6.61m (21ft 8in) To outside of tyres
Brakes	All hydraulic, dual circuit brake system.
Parking Brake	Built into the transmission.



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EXCAVATOR END

Boom	6.8m (22ft 4in) straight boom.
Dippers	4.0m (13ft 1in) straight materials handling dipper with tipping link. 5.0m (16ft 5in) gooseneck dipper.

TYRES

Twins	11.00 x 20 solid tyres with spacer ring.
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MAIN HYDRAULIC SYSTEM

System	Load-sensed hydraulic system with variable flow piston pump providing flow-on-demand for maximum efficiency.
Main pump	Variable displacement axial piston type
Maximum flow	399 l/min (88 UK gpm)
Main circuit pressure	314 bar (4554 lb/in ²)
With power boost	343 bar (4975 lb/in ²)
Servo pump	Gear type
Maximum flow	31 l/min (7 UK gpm)
Servo pressure	30 bar (435 lb/in ²)
Hydraulic Circuits	
Auxiliary	
Maximum flow	260 l/min (44 UK gpm)
Maximum pressure	314 bar (4554 lb/in ²)
Lowflow	
Maximum flow	20 l/min (4 UK gpm)
Hydraulic Cylinders	With hardened, chromed piston rods and end cushioning on boom, dipper and bucket crowd cylinder.
Filtration	
In tank	150 micron, suction strainer.
Main return line	10 micron, fibreform element.
Pilot line	10 micron, paper element.
Plexus by pass line	1.5 micron paper element.
Hydraulic return	10 micron, reinforced microform element.

CAB

Press 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. Cigarette lighter. Digital clock and storage box are standard fitment.



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INSTRUMENTATION

AMS – Advanced Management System

The JCB Advanced Management System matches engine power and pump output to optimise machine performance in each of the four selectable work modes –

H (Heavy)	100% engine and hydraulic power for maximum output.
S (Standard)	90% engine and hydraulic power for good economical output.
L (Light)	70% engine and hydraulic power for precision finishing and low fuel consumption.
F (Fine)	70% power with permanent power boost for maximum lifting ability.

The system monitors all critical machine functions and operator selections which are shown on the display panel, conveniently mounted in the operators line of site. The diagnostic function built into the system constantly monitors machine usage and performance, as well as providing the service engineer with valuable information on any machine fault.

SERVICE CAPACITIES

	litres	UK gal
Fuel tank	310	68
Engine coolant	25.5	6
Engine oil	19.5	4
Swing reduction gear	5.0	1
Hydraulic system	200	44
Hydraulic tank	120	26
Transmission	3.4	0.75
Axle hubs (each)	3.0	0.65

STANDARD EQUIPMENT

Auto engine warm up; Double element air cleaner; Radiator fine mesh grille; Heavy duty alternator; Electrics isolator; Heavy duty batteries; Tinted safety glass; Operators storage box; Removable floor mat; Windscreen wash/wipe; Plug-in power socket; Power boost; Auto-idle; One-touch engine speed control; Hydraulic cushion control; Plexus hydraulic oil filtration; Grouped HSP pressure test points; Upper structure under covers; External mirrors; Handrail & nonslip pads; Creep speed; Load holding valves (lift); On the move gear change; Adjustable steer column; Spring assisted opening screen; Auto engine/hydraulics warm up; Electric refuelling pump; Heater and air conditioning; Additional work lights; Front screen and roof guard; Turbo II precleaner; Rotating beacon; Fire extinguisher; Wastemaster branding; Auxiliary/lowflow pipework (materials handler); Lowflow pipework (scrap handler).

OPTIONAL EQUIPMENT

Fixed raised cab; Hydraulic raised cab; Widecore radiator; Compactor wheel brake harness; Arm limiter; Zenon worklight; Travel alarm; Stabiliser feet street pads; Solid and foam filled tyres; Radio cassette.



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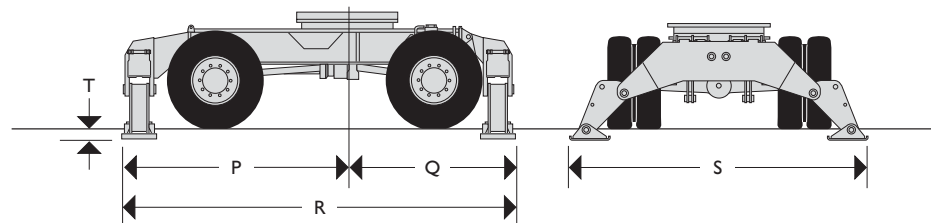


OPERATING WEIGHTS

	Standard cab	Hydraulic raised cab
	kg (lb)	kg (lb)
Materials handler	23635 (52106)	24655 (54355)
Scrap handler	23738 (52333)	24758 (54582)

Machine equipped with 6.8m boom and 4.0m straight or 5.0m gooseneck dipper, no attachment. Operator and full fuel tank, and solid tyres.

STABILISERS



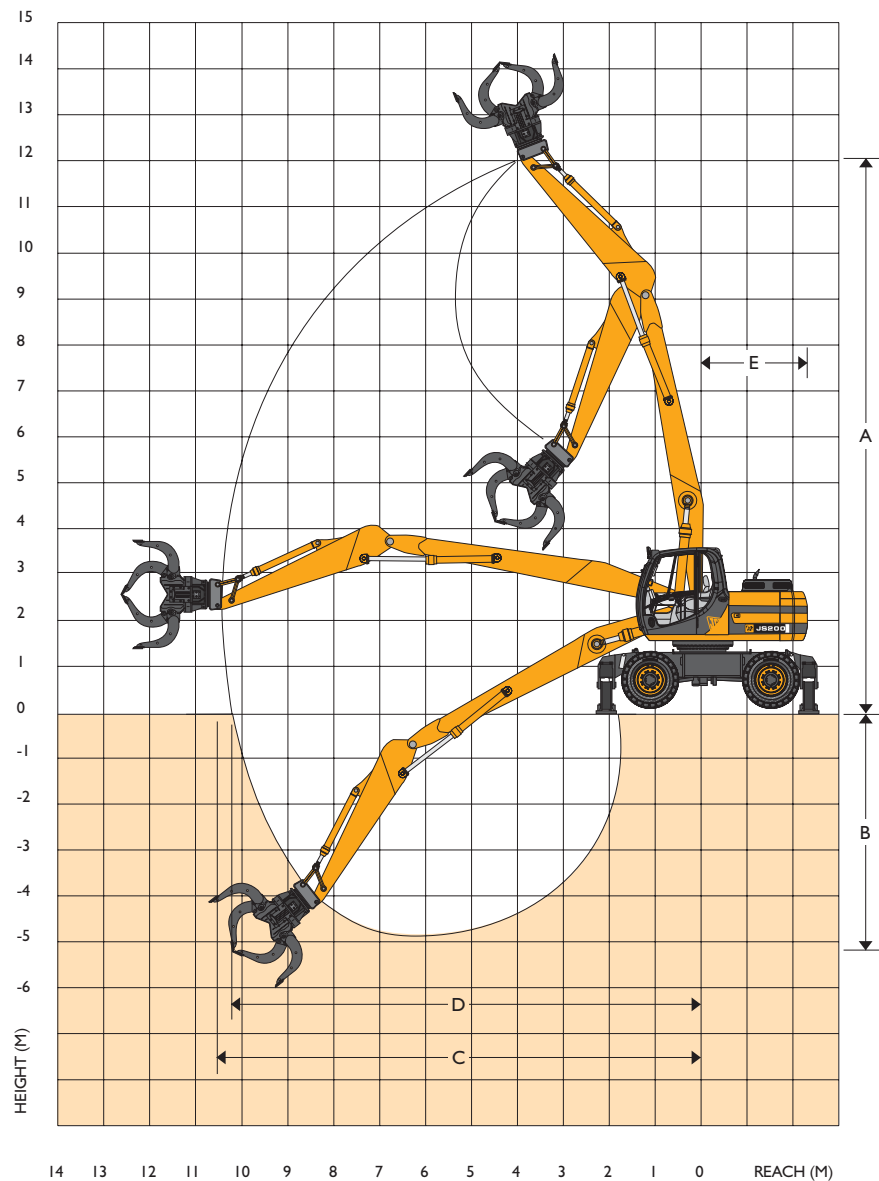
Dimensions in millimetres (ft-in)	
P	Centre of slew ring to front stabilizers
Q	Centre of slew ring to rear stabilizers
R	Length including front and rear stabilizers
S	Width over stabilizers (lowered)
T	Stabilizer lift height
	2602 (8-6)
	2272 (7-5)
	4874 (16-0)
	3938 (12-11)
	75 (0-3)



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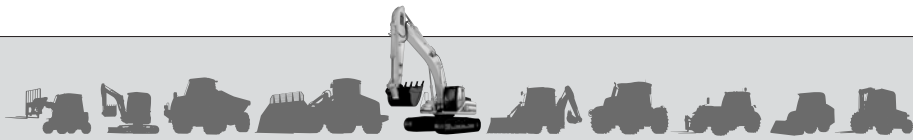


WORKING RANGE



MATERIAL HANDLING

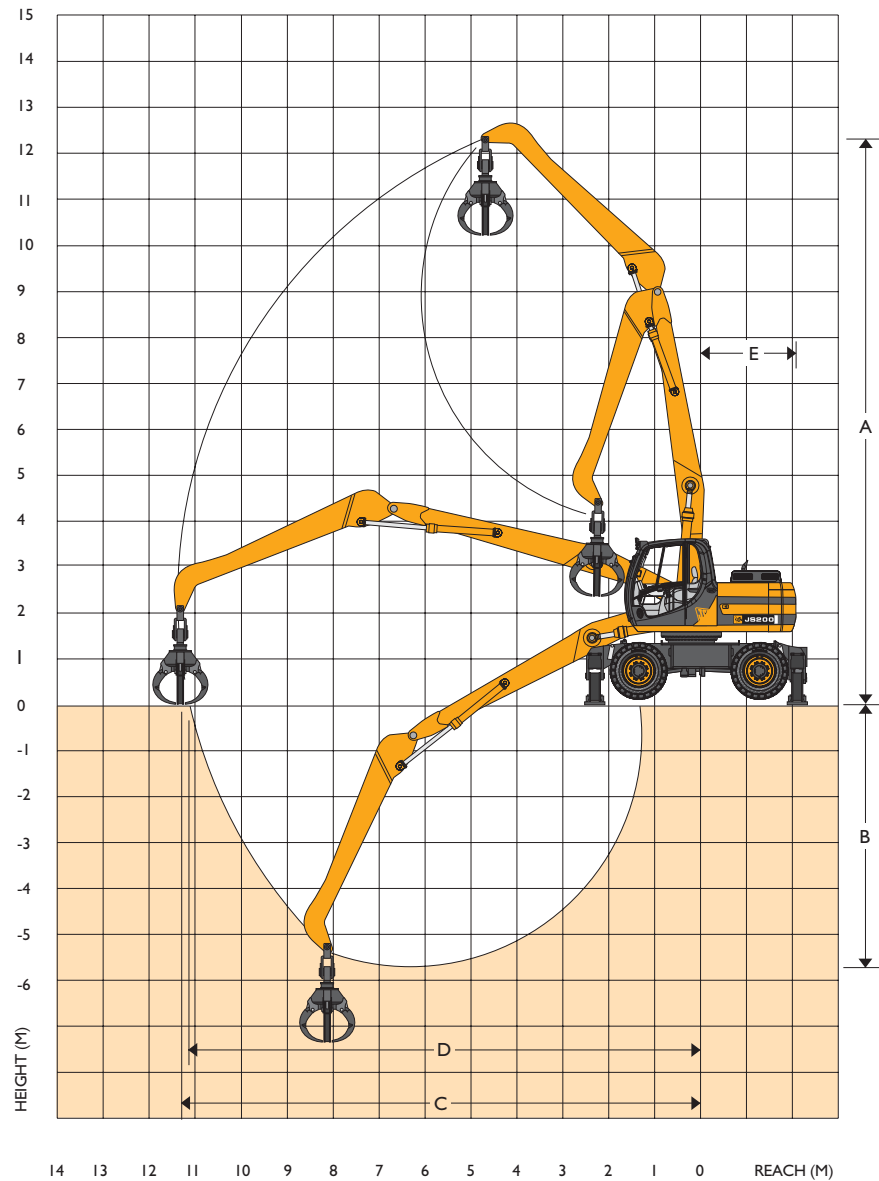
6.8m Boom, 4.0m Dipper		mm (ft-in)
A	Maximum pin height	12000 (39-4)
B	Maximum pin depth	5250 (17-3)
C	Maximum pin reach	10500 (34-5)
D	Maximum pin reach at ground level	10250 (33-7)
E	Tail swing radius	2530 (8-4)



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WORKING RANGE



SCRAP HANDLING

6.8m Boom, 5.0m Dipper	mm (ft-in)
A Maximum pin height	12250 (40-2)
B Maximum pin depth	5750 (18-10)
C Maximum pin reach	11300 (37-1)
D Maximum pin reach at ground level	11000 (36-1)
E Tail swing radius	2530 (8-4)



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LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 4.0m (13ft 1in) Straight dipper with linkage, standard cab, no stabilisers (tipping performance over tyres).

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
11m	8060*	6580*	5960						
10m		6470*	5820*	4510					
9m		6380*	5740*	4650	3460				
8m		6560*	5860*	4680	3510	2670			
7m		7030*	6170*	4630	3480	2670	2060		
6m	9350*	7830*	6210	4500	3400	2630	2050		
5m	11800*	8700	5880	4290	3260	2550	2010	1580	
4m	12910	7860	5440	4030	3100	2440	1940	1550	
3m		6880	4950	3730	2910	2320	1870	1510	
2m		6080	4500	3460	2730	2200	1790	1460	
1m		5640	4170	3240	2580	2090	1720	1420	
0m	3080*	5470	3980	3080	2470	2010	1670	1400	
- 1m		5450	3900	3000	2400	1960	1640	1390	
- 2m		5520	3900	2970	2370	1950	1640		
- 3m			3960	3000	2390	1970	1670		

LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 4.0m (13ft 1in) Straight dipper with linkage, standard cab, full stabilisers.

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
11m	8060*	6580*	5960						
10m		6470*	5820*	5390*					
9m		6380*	5740*	5280*	4950*				
8m		6560*	5860*	5350*	4950*	4630			
7m		7030*	6170*	5550*	5070*	4650	3700		
6m	9350*	7830*	6670*	5870*	5270*	4620	3700		
5m	11800*	8970*	7340*	6280*	5530*	4540	3660	2990	
4m	14610*	10310*	8100*	6750*	5570	4430	3600	2960	
3m		11520*	8810*	6960	5380	4300	3520	2920	
2m		6840*	8960	6640	5180	4170	3440	2880	
1m		5980*	8550	6380	5010	4060	3370	2840	
0m	3080*	6540*	8310	6200	4880	3970	3310	2810	
- 1m		7930*	8200	6100	4800	3920	3280	2800	
- 2m		9800*	8200	6070	4770	3900	3280		
- 3m			7410*	6100	4790	3920	3310		

NOTE: The above loads are in compliance with SAE and ISO Hydraulic excavator lift capacity standards. They do not exceed 87% of Hydraulic lift capacity or 75% of tipping load. Rated loads marked with an asterisk (*) are limited by hydraulic capacity not stability. Figures at each point are given for worst case (load over side).

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LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 5.0m (16ft 5in) gooseneck dipper, standard cab, no stabilisers (tipping performance over tyres).

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
12m		5870*	5450*						
11m			5150*	4790					
10m			5050*	4790*	3890	2980			
9m			5140*	4850*	4070	3150			
8m			5410*	5050*	4200	3520	2550		
7m			5880*	5380*	4260	3300	2600	2050	
6m		7580*	6590*	5690	4270	3310	2610	2080	
5m	8830*	9170*	7540*	5630	4210	3270	2590	2070	
4m	16280*	11170*	7750	5460	4090	3190	2540	2050	1650
3m	8200*	11480	7300	5200	3930	3080	2470	2000	1630
2m	3470*	9850*	6720	4880	3740	2950	2390	1950	1610
1m	3100*	6880*	6170	4570	3540	2830	2300	1900	1580
0m	3700*	6500*	5740	4310	3380	2720	2230	1860	1560
– 1m	4650*	7010*	5490	4130	3250	2630	2180	1830	
– 2m	5810*	7740	5370	4030	3180	2580	2140	1810	
– 3m		7840	5360	4010	3150	2570	2140	1830	

LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 5.0m (16ft 5in) gooseneck dipper, standard cab, full stabilisers.

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
12m		5870*	5450*						
11m			5150*	4880*					
10m			5050*	4790*	4570*	4400*			
9m			5140*	4850*	4600*	4380*			
8m			5410*	5050*	4730*	4460*	4210		
7m			5880*	5380*	4970*	4630*	4300	3470	
6m		7580*	6590*	5860*	5300*	4850*	4350	3530	
5m	8830*	9170*	7540*	6470*	5700*	5120*	4360	3550	
4m	16280*	11170*	8860*	7160*	6150*	5240	4340	3550	2930
3m	8200*	13160*	9780*	7850*	6600*	5330	4290	3520	2930
2m	3470*	9850*	10670*	8440*	6670	5220	4220	3480	2910
1m	3100*	6880*	11200*	8610	6470	5100	4150	3440	2890
0m	3700*	6500*	11340*	8300	6290	4990	4080	3400	2870
– 1m	4650*	7010*	11150*	8070	6150	4900	4020	3370	
– 2m	5810*	7990*	10670*	7940	6070	4850	3990	3360	
– 3m		9290*	9930*	7910	6040	4830	3980	3370	

NOTE: The above loads are in compliance with SAE and ISO Hydraulic excavator lift capacity standards. They do not exceed 87% of Hydraulic lift capacity or 75% of tipping load. Rated loads marked with an asterisk (*) are limited by hydraulic capacity not stability. Figures at each point are given for worst case (load over side).



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LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 4.0m (13ft 1in) Straight dipper with linkage, hydraulic raised cab, no stabilisers, twin wheel solid tyres over wheels.

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
11m	8060*	6580*	6160*						
10m		6470*	5820*	5390*					
9m		6380*	5740*	5280*	4950*				
8m		6560*	5860*	5350*	4950*	4640*			
7m		7030*	6170*	5330	4060	3170	2490		
6m	9350*	7830*	6670*	5210	3980	3120	2480		
5m	11800*	8970*	6800	5010	3850	3040	2440	1960	
4m	14610*	9140	6360	4750	3690	2940	2380	1930	
3m		8160	5870	4460	3500	2820	2300	1890	
2m		6980*	5420	4180	3330	2700	2220	1850	
1m		6000*	5090	3960	3170	2600	2160	1810	
0m	3160*	6640*	4900	3800	3060	2520	2100	1780	
- 1m		6690	4810	3720	2990	2470	2070	1770	
- 2m		6770	4810	3690	2960	2450	2070		
- 3m			4880	3720	2980	2470	2110		

LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 4.0m (13ft 1in) Straight dipper with linkage, hydraulic raised cab, full stabilisers, twin wheel solid tyres.

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
11m	8060*	6580*	6160*						
10m		6470*	5820*	5390*					
9m		6380*	5740*	5280*	4950*				
8m		6560*	5860*	5350*	4950*	4640*			
7m		7030*	6170*	5550*	5070*	4690*	4390*		
6m	9350*	7830*	6670*	5870*	5270*	4810*	4410		
5m	11800*	8970*	7340*	6280*	5530*	4970*	4370	3610	
4m	14610*	10310*	8100*	6750*	5830*	5160*	4310	3580	
3m		11520*	8810*	7190*	6110*	5140	4230	3550	
2m		6840*	9310*	7530*	6190	5010	4160	3500	
1m		5890*	9500*	7650	6020	4900	4090	3460	
0m	3080*	6540*	9370*	7460	5890	4820	4030	3430	
- 1m		7930*	8960*	7360	5810	4760	4000	3430	
- 2m		9800*	8310*	7010*	5790	4740	4000		
- 3m			7410*	6330*	5380*	4510*	3610*		

NOTE: The above loads are in compliance with SAE and ISO Hydraulic excavator lift capacity standards. They do not exceed 87% of Hydraulic lift capacity or 75% of tipping load. Rated loads marked with an asterisk (*) are limited by hydraulic capacity not stability. Figures at each point are given for worst case (load over side).

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LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 5.0m (16ft 5in) gooseneck dipper, hydraulic raised cab, full stabilisers.

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
12m		5870*	5450*						
11m			5150*	4880*					
10m			5050*	4790*	4570*	4400*			
9m			5140*	4850*	4600*	4380*			
8m			5410*	5050*	4730*	4460*	4230*		
7m			5880*	5380*	4970*	4630*	4330*	3930	
6m		7580*	6590*	5860*	5300*	4850*	4480*	4000	
5m	8830*	9170*	7540*	6470*	5700*	5120*	4660*	4030	
4m	16280*	11170*	8660*	7160*	6150*	5430*	4870*	4030	3350
3m		13160*	9780*	7850*	6600*	5720*	4860	4010	3350
2m		9850*	10670*	844*	7000*	5920	4800	3980	3340
1m		6880*	11200*	8850*	7290*	5810	4730	3940	3330
0m		6500*	11340*	9030*	7170	5700	4670	3900	3310
– 1m		7010*	11150*	8980*	7030	5610	4610	3870	
– 2m		7990*	10670*	8700*	6950	5560	4580	3860	
– 3m		9290*	9930*	8180*	6820*	5540	4580	3860	

LIFT CAPACITIES – 6.8m (22ft 4in) Boom, 5.0m (16ft 5in) gooseneck dipper, hydraulic raised cab, twin wheel solid tyres over wheels.

Reach	3m	4m	5m	6m	7m	8m	9m	10m	11m
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg
12m		5870*	5450*						
11m			5150*	4880*					
10m			5050*	4790*	4490*	3490			
9m			5140*	4850*	4600*	3680			
8m			5410*	5050*	4730*	3790	3010		
7m			5880*	5380*	4920	3850	3070	2460	
6m		7580*	6590*	5860*	4940	3870	3090	2500	
5m	8830*	9170*	7540*	6470*	4910	3840	3080	2500	
4m	16280*	11170*	8660*	6360	4800	3770	3040	2480	2030
3m	8200*	13160*	8540	6110	4650	3670	2970	2440	2020
2m	3470*	9850*	7970	5800	4470	3560	2900	2400	2000
1m	3100*	688*	7400	5500	4280	3440	2820	2350	1970
0m	3700*	6500*	6970	5240	4120	3330	2750	2300	1950
– 1m	4650*	7010*	6700	5060	3990	3250	2700	2270	
– 2m	5810*	7990*	6580	4960	3920	3190	2660	2260	
– 3m		9290*	6580	4930	3890	3180	2660	2270	

NOTE: The above loads are in compliance with SAE and ISO Hydraulic excavator lift capacity standards. They do not exceed 87% of Hydraulic lift capacity or 75% of tipping load. Rated loads marked with an asterisk (*) are limited by hydraulic capacity not stability. Figures at each point are given for worst case (load over side).

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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.

