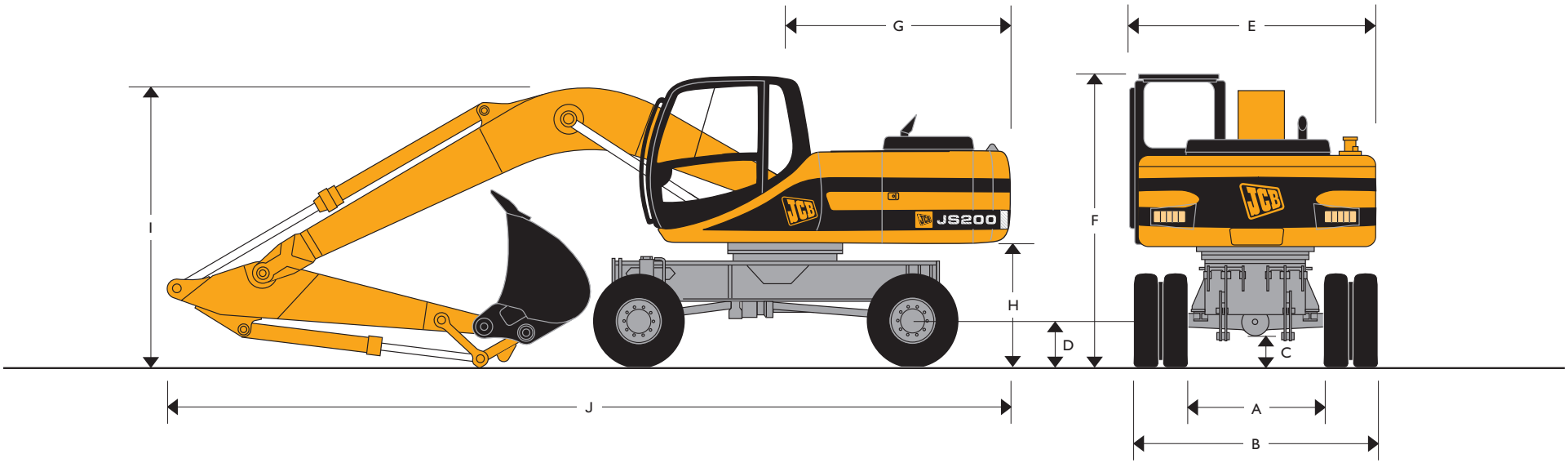
JCB WHEELED EXCAVATOR | JS200W

MAX. OPERATING WEIGHT	21370kg (47110lb)
NETT ENGINE POWER	102kW (138hp)



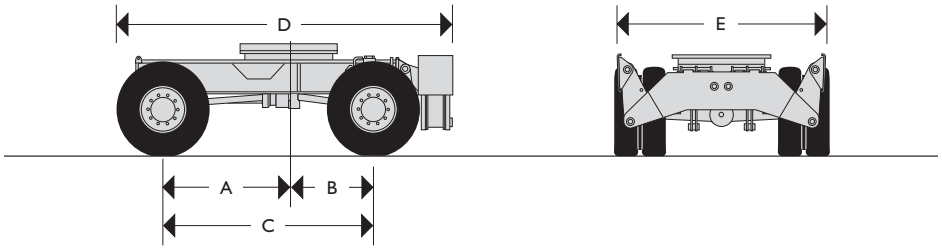
STATIC DIMENSIONS

Dimensions in millimetres (ft-in)		
A	Internal width between dual wheels	1240 (4-1)
B	External width between dual wheels	2490 (8-2)
C	Ground clearance	350 (1-1)
D	Height to axle centre line dual wheels	511 (1-7)
	Height to axle centre line single wheels	556 (1-9)
E	Overall width (handrail removed)	2500 (8-2)
F	Height over cab	3150 (10-4)
G	Tail length	2530 (8-3)
H	Clearance under counterweight	1310 (4-4)

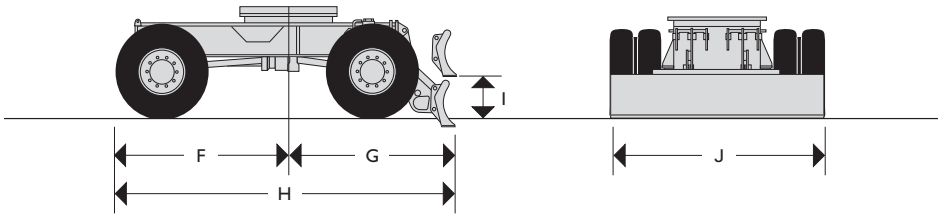
Monoboom				
Dipper length		1.91m	2.40m	3.00m
I	mm (ft-in)	3060 (10-0)	2985 (9-9)	2875 (9-5)
J	mm (ft-in)	9450 (31-0)	9350 (30-8)	9280 (30-5)
Triple articulated boom				
Dipper length		1.91m	2.40m	3.00m
I	mm (ft-in)	3100 (10-2)	3130 (10-3)	3010 (9-10)
J	mm (ft-in)	9175 (30-1)	9170 (30-1)	9100 (29-10)

Hard Working by Design

CHASSIS OPTIONS

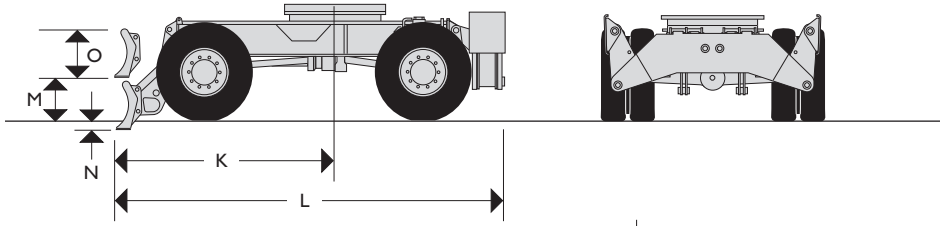


Dimensions in millimetres (ft-in)	
A Centre of slew ring to front axle	1500 (4-11)
B Centre of slew ring to rear axle	1250 (4-1)
C Wheelbase	2750 (9-0)
D Length including rear stabilizers	4200 (13-8)
E Width over stabilizers (raised)	2494 (8-2)

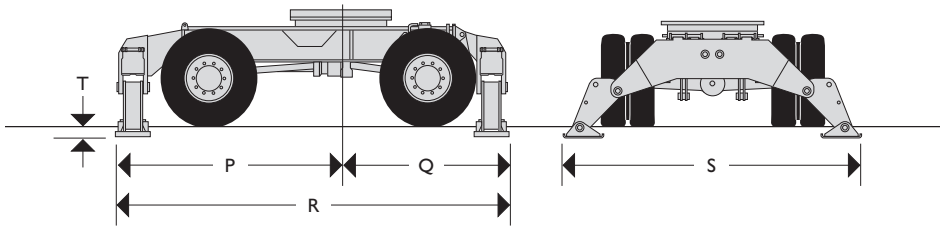


Dimensions in millimetres (ft-in)	
F Centre of slew ring to face of front tyre	1990 (6-6)
G Centre of slew ring to rear dozer blade (lowered)	2340 (7-7)
H Length including rear dozer blade (raised)	4300 (14-1)
I Ground level to bottom of rear dozer blade (raised)	450 (1-4)
J Dozer blade width	2480 (8-1)

CHASSIS OPTIONS



Dimensions in millimetres (ft-in)	
K Centre of slew ring to front dozer blade (lowered)	2530 (8-4)
L Length including stabilizers and dozer blade (raised)	4710 (15-5)
M Ground level to bottom of front dozer blade (raised)	450 (1-5)
N Dozer blade dig depth	130 (0-5)
O Dozer blade height	560 (1-9)



Dimensions in millimetres (ft-in)	
P Centre of slew ring to front stabilizers	2520 (8-3)
Q Centre of slew ring to rear stabilizers	2210 (7-2)
R Length including front and rear stabilizers	4730 (15-6)
S Width over stabilizers (lowered)	3636 (11-11)
T Stabilizer lift height	160 (0-6)

JCB WHEELED EXCAVATOR | JS200W

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	10RPM
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 Options:	
Dozer Blade	Front and rear pin mount.
Stabilisers	Front or rear pin mount, independently operable – plus combinations.
Grab Stowage	Heavy duty, pin mounted stowage bar.
Transmission	Hydrostatic drive via piston motor and powershift transmission.
Travel speed	Low ratio 8kph (5mph) High ratio 30kph (19mph) Creep speed 3kph (2mph)
Axles	Four wheel drive. Front steering axle oscillates for rough ground mobility.
Axle load capacity	42 tonnes
Axle oscillation	+/- 8.5 degrees
Ground clearance	350mm (1ft 1in)
Steering	Fully hydraulic system.
Turning radius	
To outside of tyres	6.61m (21ft 8in)
To outer edge of front mounted dozer blade	7.23m (23ft 9in)
Brakes	All hydraulic, dual circuit brake system.
Parking Brake	Built into the transmission.

EXCAVATOR END

Booms	Monoboom or triple articulation boom with choice of dipper lengths to match the requirements of reach, lift capacity and tearout.
Bucket tipping links	Fabricated type with choice of 1 tonne lift, max capacity lift and no-lift point – with link stowage lock (grab work).

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/in²)
With power boost	343 bar (4975 lb/in²)
Servo pump	Gear type
Maximum flow	31 l/min (7 UK gpm)
Servo pressure	30 bar (435 lb/in²)
Optional Circuits:	
Hammer	Includes automatic engine speed setting and return filter.
Maximum flow	200 l/min (44 UK gpm)
Maximum pressure	314 (343) bar (4554/4975 lb/in²)
Hammer/auxiliary combined	(pre-set to 180 bar) (2610 lb/in²)
Bucket to grab operation	
Maximum flow	138 l/min (30 UK gpm)
Maximum pressure for grab ram operation	330 (343) bar (4785/4975 lb/in²)
Low Flow Pipework	Two options available, one with 20L/min (4 UK gpm) flow and a second with an adjustable flow of 27-45L/min (6-10 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 hammer return	10 micron, reinforced microform element.

TYRES

Twins	11.00 x 20 tyres (16PR) with spacer ring.
Singles	18R x 22.5 tyres (Radials).

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. Radio cassette player with digital tuning. Cigarette lighter. Digital clock and storage box are standard fitment.

Hard Working by Design

JCB WHEELED EXCAVATOR | JS200W

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.

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; Radio & cassette player; Operators storage box; Removable floormat; 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; Hammer pipework mounting brackets; Work lights – boom & mainframe mounted; Upper structure under covers; External mirrors; Handrail & nonslip pads; Creep speed; Tipping link with stowage lock; Load holding valves (lift); On the move gear change; Adjustable steer column; Spring assisted opening screen; Auto engine/hydraulics warm up.

STANDARD EXCAVATING BUCKETS

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

Max Width mm (in.)	Capacity (SAE heaped) cu.m (cu.yd)	Weight kg (lb)
600 (24)	0.40 (0.52)	484 (1067)
900 (36)	0.71 (0.93)	595 (1312)
1000 (40)	0.81 (1.06)	627 (1382)
1200 (48)	1.03 (1.35)	705 (1555)
1350 (53)	1.05 (1.37)	679 (1497)
1450 (57)	1.14 (1.49)	720 (1588)
1500 (59)	1.19 (1.56)	734 (1618)

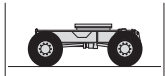
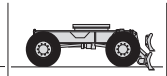
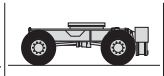
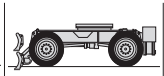
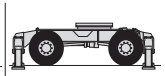
OPTIONAL EQUIPMENT

Hose burst check valves & Overload warning system; Tipping link mounted lift points; General purpose buckets; Ditch/grading buckets; Quickhitch buckets; Hydraulic hammers; Hammer pipework; Low flow (grab rotate/weedcutter) pipework; Bucket to grab changeover pipework; Air conditioning; Cab mounted & rear work lights; Rotating beacon; Electric refuelling pump; Rain guard; Additional toolbox; Grab stowage bar.

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

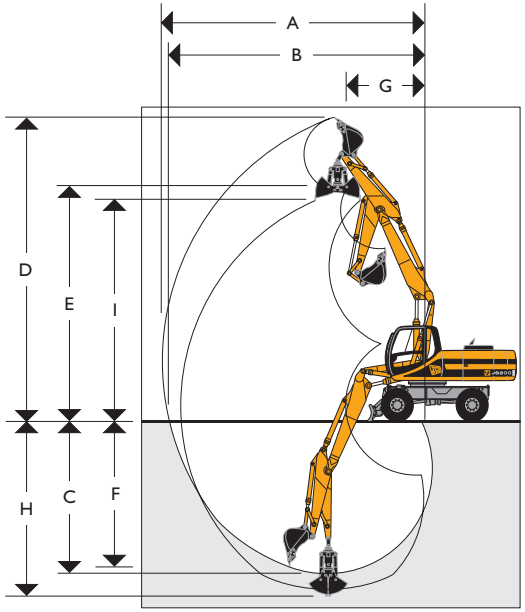
OPERATING WEIGHTS

Chassis					
	18760kg (41360lb)	19480kg (42945lb)	19720kg (43475lb)	20450kg (45085lb)	20690kg (45615lb)
	19440kg (42855lb)	20170kg (44465lb)	20400kg (44975lb)	21130kg (46585lb)	21370kg (47110lb)

Machine equipped with excavating bucket and dual wheels. For single wheels subtract 400kg (880lb).

Hard Working by Design

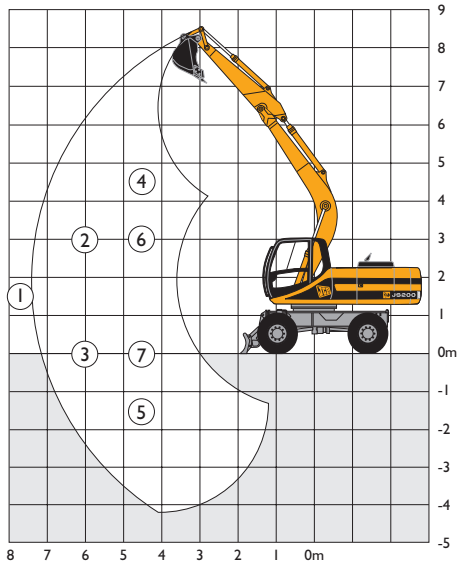
WORKING RANGES



WORKING RANGES

Boom								
Dipper arm			1.91m	2.40m	3.00m	1.91m	2.40m	3.00m
A	Max digging reach	mm (ft-in)	9110 (29-10)	9490 (31-1)	10020 (32-10)	8860 (29-0)	9280 (30-5)	9825 (32-3)
B	Max digging reach (on ground)	mm (ft-in)	8870 (29-1)	9310 (30-6)	9850 (32-3)	8650 (28-4)	9140 (30-0)	9650 (31-8)
C	Max digging depth	mm (ft-in)	5260 (17-3)	5790 (18-0)	6370 (20-10)	5470 (18-0)	5960 (19-6)	6475 (21-3)
D	Max digging height	mm (ft-in)	9190 (30-2)	9430 (31-0)	9630 (31-7)	9530 (31-3)	9930 (32-6)	10160 (33-4)
E	Max loadover height	mm (ft-in)	6470 (21-3)	6760 (22-2)	6980 (23-0)	6670 (21-10)	7060 (23-2)	7300 (24-0)
F	Max vertical wall cut depth	mm (ft-in)	4540 (14-10)	5240 (17-2)	5840 (19-2)	3760 (12-4)	4200 (13-9)	4795 (15-9)
G	Min swing radius	mm (ft-in)	3900 (12-9)	3860 (12-8)	3750 (12-4)	3250 (10-7)	3260 (10-8)	2905 (9-6)
H	Max digging depth with grab	mm (ft-in)	N/A	N/A	N/A	N/A	N/A	N/A
I	Max dumping height with grab	mm (ft-in)	N/A	N/A	N/A	N/A	N/A	N/A
	Bucket rotation		183°	183°	183°	183°	183°	183°
	Dipper tearout	kgf (lbf)	16340 (36025)	13100 (28880)	10450 (23040)	16340 (36025)	13100 (28880)	10450 (23040)
	Dipper tearout with boost	kgf (lbf)	17700 (39020)	14000 (30865)	11270 (24845)	17700 (39020)	14000 (30865)	11270 (24845)
	Bucket tearout	kgf (lbf)	11770 (25950)	11770 (25950)	11770 (25950)	11770 (25950)	11770 (25950)	11770 (25950)
	Bucket tearout with boost	kgf (lbf)	12710 (28020)	12710 (28020)	12710 (28020)	12710 (28020)	12710 (28020)	12710 (28020)

MONOBOOM LIFT CAPACITIES

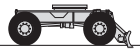
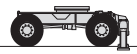
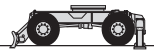
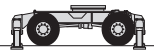


Bucket weight 564kg

O/E = Lift capacity over least stable end. 360° = Lift capacity full circle.

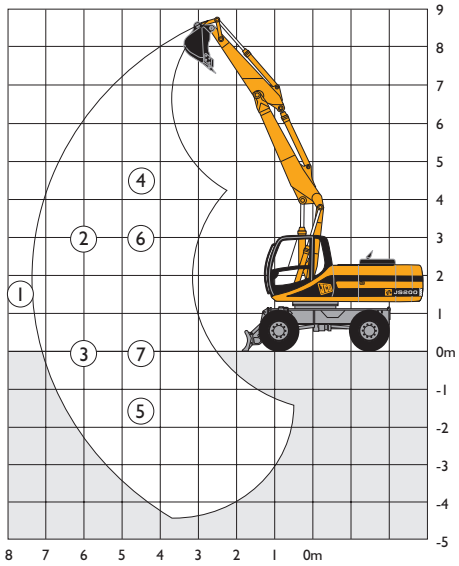
Notes:
1. Lifting capacities are based on the ISO standard, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is the less. Lifting capacities marked * are based on hydraulic capacity.
2. Lift capacities assume that the machine is on firm, level ground, stabilized and equipped with twin tyres, an approved lifting point and bucket.
3. Lift capacities may be limited by local regulations. Please refer to your dealer.

MONOBOOM LIFT CAPACITIES

Chassis													
Dipper arm		1.91m	2.40m	3.00m	1.91m	2.40m	3.00m	1.91m	2.40m	3.00m	1.91m	2.40m	3.00m
1	O/E	5625*	5495*	5270*	5625*	5495*	5270*	5625*	5495*	5270*	5625*	5495*	5270*
	360°	2090	2090	2085	2565	2565	2560	3145	3150	3145	3705	3710	3705
2	O/E	6520*	6220*	5775*	6520*	6220*	5775*	6520*	6220*	5775*	6520*	6220*	5775*
	360°	3130	3175	3210	3790	3835	3875	4605	4655	4700	5415	5460	5510
3	O/E	7340*	7315	7170*	7340*	7315	7170*	7340*	7315	7170*	7340*	7315	7170*
	360°	2930	2926	2900	3582	3580	3555	4390	4390	4365	5190	5185	5165
4	O/E	7380*	6725*	5860*	7380*	6725*	5860*	7380*	6725*	5860*	7380*	6725*	5860*
	360°	5250	5380	5525	6325	6465	5860*	7380*	6725*	5860*	7380*	6725*	5860*
5	O/E	9465*	9810*	10035*	9465*	9810*	10035*	9465*	9810*	10035*	9465*	9810*	10035*
	360°	4605	4570	4493	5650	5610	5530	6960	6920	6840	8315	8274	8190
6	O/E	9230*	8645*	7840*	9230*	8645*	7840*	9230*	8645*	7840*	9230*	8645*	7840*
	360°	4815	4940	5055	5870	6000	6120	7190	7330	7460	8560	8645*	7840*
7	O/E	10155*	10245*	10130*	10155*	10245*	10130*	10155*	10245*	10130*	10155*	10245*	10130*
	360°	4555	4555	4520	5595	5595	5560	6900	6905	6870	8255	8255	8225

All weights in kg.

TRIPLE ARTICULATION LIFT CAPACITIES

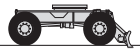
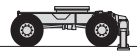
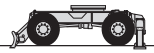
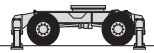


Bucket weight 525kg

O/E = Lift capacity over least stable end. 360° = Lift capacity full circle.

Notes:
1. Lifting capacities are based on the ISO standard, 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, stabilized and equipped with twin tyres, an approved lifting point and bucket.
3. Lift capacities may be limited by local regulations. Please refer to your dealer.

TRIPLE ARTICULATION LIFT CAPACITIES

Chassis													
Dipper arm		1.91m	2.40m	3.00m	1.91m	2.40m	3.00m	1.91m	2.40m	3.00m	1.91m	2.40m	3.00m
1	O/E	–	4535*	4225*	–	4535*	4225*	–	4535*	4225*	–	4535*	4225*
	360°	–	1910	1915	–	2385	2395	–	2965	2974	–	3535	3545*
2	O/E	5070*	4730*	4260*	5070*	4730*	4260*	4335*	4730*	4260*	5070*	4730*	4260*
	360°	2950	3005	3065	3615	3670	3735*	5070	4490*	4260*	5070*	4730*	4260*
3	O/E	6285*	6150*	5895*	6285*	6150*	5895*	6285*	6150*	5895*	6285*	6150*	5895*
	360°	2685	2690	2680	3340	3345	3335	4145	4150	4140	4945	4950	4945*
4	O/E	5175*	4555*	3735*	5175*	4555*	3740*	5175*	4550*	3740*	5175*	4550*	3740*
	360°	5125*	4555*	3735*	5175*	4555*	3740*	5175*	4550*	3740*	5175*	4550*	3740*
5	O/E	8795*	8905*	8865*	8795*	8905*	8865*	8795*	8905*	8865*	8795*	8910*	8865*
	360°	4220	4190	4125	5255	5225	5155	6550	6520	6450	7900*	7870*	7800*
6	O/E	6955*	6355*	5540*	6955*	6355*	5540*	6955*	6355*	5540*	6955*	6355*	5540*
	360°	4635	4775	4925*	5690	5840*	5540*	6955*	6355*	5540*	6955*	6355*	5540*
7	O/E	8910*	8775*	8435*	8910*	8775*	8435*	8910*	8775*	8440*	8910*	8775*	8435*
	360°	4190	4210	4205	5225	5240	5240	6520	6540	6540	7870*	7890*	7895*

All weights in kg.

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.

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