

JCB WHEELED EXCAVATOR | JSI45W

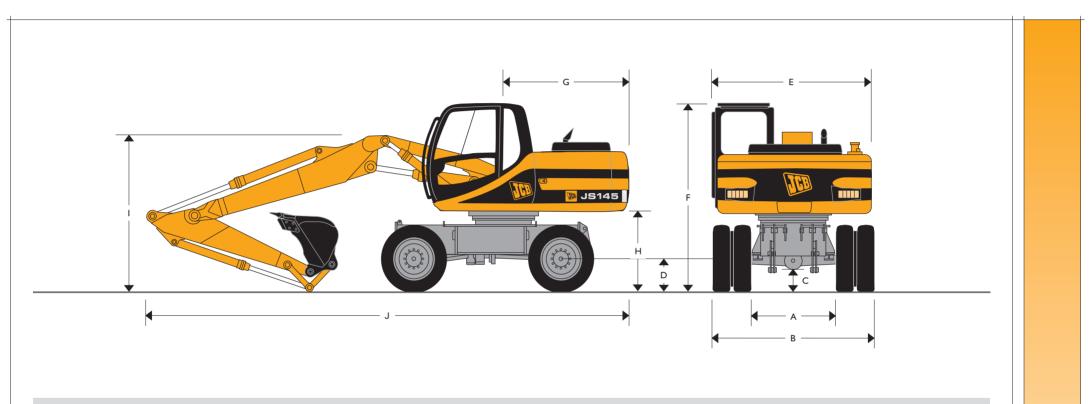


MAX. OPERATING WEIGHT

NETT ENGINE POWER

72kW (96hp)

14960kg

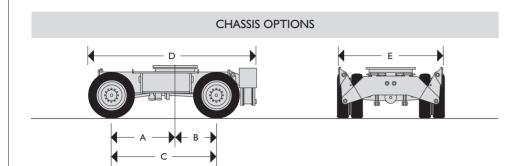


STATIC DIMENSIONS

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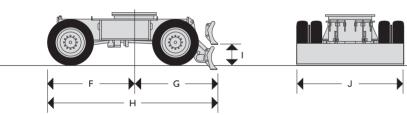
Dimensions in millimetres (ft-in)					20	
A Internal width between dual wheels	1330 (4-4)	Monoboom				
B External width between dual wheels	2490 (8-2)					
C Ground clearance	350 (1-2)	Dipper length		2.10m	2.50m	3.0m
D Height to axle centre line dual wheels	498 (1-7)		mm (ft-in)	3040 (10-0)	3040 (10-0)	3040 (10-0)
Height to axle centre line single wheels	519 (1-8)	J	mm (ft-in)	7580 (24-10)	7600 (24-11)	7630 (25-0)
E Overall width (handrail removed)	2410 (7-11)					
F Height over cab	3040 (10-10)	Triple articulated boom				
G Tail length	2050 (6-9)					
H Clearance under counterweight	1240 (4-1)	Dipper length		2.10m	2.50m	3.0m
		I	mm (ft-in)	3040 (10-0)	3040 (10-0)	3040 (10-0)
		J	mm (ft-in)	7310 (24-0)	7650 (25-1)	7890 (25-9)





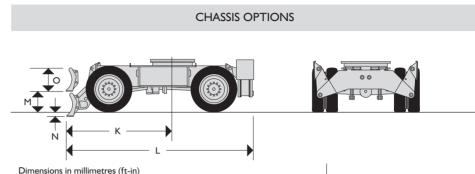
Dimensions in millimetres (ft-in)

	A Centre of slew ring to front axle	1500 (4-11)
	B Centre of slew ring to rear axle	1000 (3-3)
	C Wheelbase	2500 (8-2)
_	D Length including rear stabilizers	3950 (12-11)
	E Width over stabilizers (raised)	2480 (8-1)

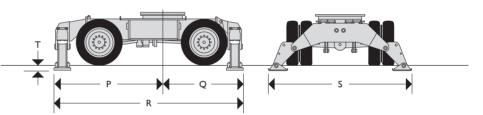


Dimensions in millimetres (ft-in)

F	Centre of slew ring to face of front tyre	1990 (6-6)
G	Centre of slew ring to rear dozer blade (lowered)	2090 (6-10)
Н	Length including rear dozer blade (raised)	4050 (13-3)
Τ	Ground level to bottom of rear dozer blade (raised)	450 (1-6)
J	Dozer blade width	2480 (8-1)



Dimensions in millimetres (ft-in)	
K Centre of slew ring to front dozer blade (lowered)	2530 (8-3)
L Length including stabilizers and dozer blade (raised)	4460 (14-7)
M Ground level to bottom of front dozer blade (raised)	450 (1-6)
N Dozer blade dig depth	130 (0-5)
O Dozer blade height	500 (1-8)



Dimensions in millimetres (ft-in)

Р	Centre of slew ring to front stabilizers	2520 (8-3)
Q	Centre of slew ring to rear stabilizers	1960 (6-5)
R	Length including front and rear stabilizers	4480 (14-8)
S	Width over stabilizers (lowered)	3550 (11-8)
Т	Stabilizer lift height	130 (0-5)

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ENGINE

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Type Net Power Piston displacement Starting system Batteries Alternator

Drive train

Swing brake

Swing speed

Swing gear

Swing lock

Structure

Chassis Options:

Dozer Blade

Grab Stowage

Transmission

Travel speed

Axle load capacity

Ground clearance

To outer edge of front mounted

Axle oscillation

Turning radius To outside of tyres

dozer blade

Parking Brake

Axles

Steering

Brakes

Booms

Bucket tipping links

Stabilisers

Water cooled, 4-stroke,4-cylinder in-line, direct injection, turbocharged diesel. (SAE J1349 and 80/1269/EC) 72kW (96hp) at 2300 RPM. 4.329 litres. 24 volt. 2 x 12 volt Heavy Duty. 24 volt 40 amp.

SWING SYSTEM

Axial piston motor and planetary reduction final drive. Hydraulic braking plus automatic spring applied disc type parking brake. I3.4RPM Large diameter, internally toothed fully sealed grease bath lubricated. Multi position switchable brake and mechanical lock.

CHASSIS

High strength flanged 'u' section.

Front or rear pin mount. Front or rear pin mount, independently operable - plus combinations. Heavy duty, pin mounted stowage bar Hydrostatic drive via piston motor and powershift transmission. Low ratio 14kph 30kph (19mph) High ratio Creep speed 3.3kph Four wheel drive. Front steering axle oscillates for rough ground mobility. 26 tonnes +/- 8.5 degrees 350mm Fully hydraulic system. 5.45m (17ft 10in)

6.06m (19ft 10in) All hydraulic, dual circuit brake system. Built into the transmission.

System

Main pumps Maximum flow Main circuit pressure With power boost

Servo pump Maximum flow Servo pressure

Optional Circuits: Hammer Maximum flow Maximum pressure

Grab operation Maximum flow

Maximum pressure for grab ram operation Low Flow Pipework

Hydraulic Cylinders

Filtration In tank Main return line Pilot line Nephron by pass line Hydraulic hammer return

Twins

Single

MAIN HYDRAULIC SYSTEM

Load-sensed hydraulic system with twin variable flow piston pumps providing flow-on-demand for maximum efficiency.

2 variable displacement axial piston type 2 x 138 l/min (31 UK gpm) 314 bar (4555 lb/in²) 343 bar (4975 lb/in²)

Gear type 22 I/min (5 UK gpm) 40 bar (580 Ib/in²)

Includes automatic engine speed setting and return filter. 138 (/min (30 UK gpm) 314 (343) bar (4555/4975 lb/in²) (pre-set to 180 bar (2610 lb/in²))

138 l/min (30 UK gpm) 314 (343) bar (4555/4975 lb/in²)

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).

- With hardened, chromed piston rods and end cushioning on boom, dipper and bucket crowd cylinder.
- 150 micron, suction strainer.
 10 micron, fibreform element.
 10 micron, paper element.
 1.5 micron paper element.
 10 micron, reinforced microform element.

TYRES

 10.00×20 tyres (16PR) with spacer ring. 18R x 19.5 tyres (Radials).

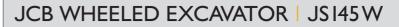
CAB

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.

EXCAVATOR END

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



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)

- S (Standard)

(light) F (Fine)

100% engine and hydraulic power for maximum output. 90% engine and hydraulic power for good economical output.

70% engine and hydraulic power for precision finishing and low fuel consumption. 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; Nephron hydraulic oil filtration; Grouped HSP pressure test points; Auxiliary 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; Oscillating axle lock; Adjustable steer column; Spring assisted opening screen; Auto engine/hydraulics warm up.

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; Additional toolbox; Grab stowage bar.

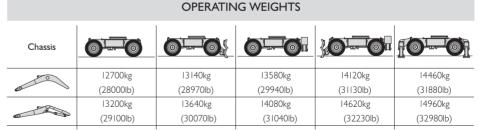
STANDARD EXCAVATING BUCKETS

All buckets are JCB - Esco 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)	0.32 (0.42)	369 (814)
750 (30)	0.43 (0.56)	423 (933)
900 (36)	0.55 (0.72)	468 (1032)
1000 (40)	0.63 (0.82)	507 (1118)
1100 (44)	0.72 (0.94)	537 (1184)
1200 (48)	0.80 (1.05)	576 (1270)

SERVICE CAPACITIES

	litres	UK gal
Fuel tank	240	53
Engine coolant	16.4	3.6
Engine oil	14.7	3.2
Swing reduction gear	2.2	0.5
Hydraulic system	124	27.3
Hydraulic tank	73	16.0
Transmission	3.4	0.7
Axle differentials (each)	Rear 12, Front 14	Rear 2.6, Front 3
Axle hubs (each)	2.0	0.5



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





F Max vertical wall cut depth

H Max digging depth with grab

Dipper tearout with boost

Bucket tearout with boost

I Max dumping height with grab mm (ft-in)

G Min swing radius

Bucket rotation

Dipper tearout

Bucket tearout

mm (ft-in)

mm (ft-in)

mm (ft-in)

kgf (lbf)

kgf (lbf)

kgf (lbf)

kgf (lbf)

4200 (13-9)

2050 (6-9)

4900 (16-1) 6655 (21-10)

182°

8843 (19495)

9570 (21100)

7720 (17020)

8350 (18400)

4600 (15-0)

2050 (6-8)

5300 (17-5)

6925 (22-8)

182°

7430 (16380)

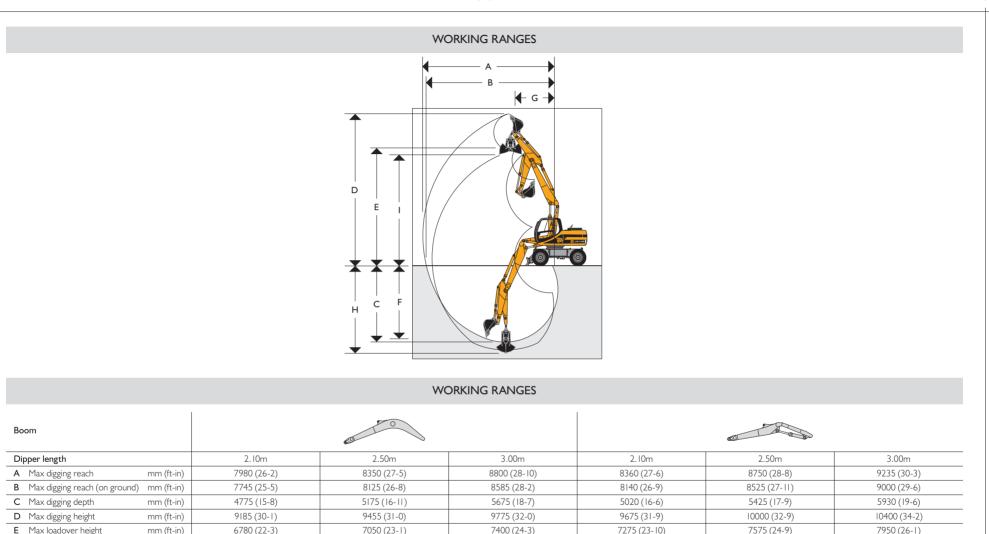
8040 (17725)

7720 (17020)

8350 (18400)

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5050 (16-6)

2410 (7-9)

5800 (19-0)

7275 (23-10)

182°

6190 (13650)

6700 (14770)

7720 (17020)

8350 (18400)

4240 (13-11)

2490 (8-2)

5145 (16-10)

7150 (23-6)

182°

8843 (19500)

9570 (21100)

7720 (17020)

8350 (18400)

4625 (15-2)

2575 (8-6)

5550 (18-3)

7450 (24-5)

182°

7430 (16380)

8040 (17725)

7720 (17020)

8350 (18400)

5105 (16-9)

2680 (8-9)

6055 (19-10)

7825 (25-7)

182°

6190 (13650)

6700 (14770)

7720 (17020)

8350 (18400)



360°

O/E

360°

O/E

360°

6

 $\overline{(7)}$

All weights in kg.

2480

4400*

4050

5820

3520

2480

3980*

3980*

5840

3570

2400

3420*

3420*

5830

3530

2990

4400*

4400*

6010

4260

2460*

3980*

3980*

6030

4270

2910

3420*

3420*

5900*

4270

3890

4400*

4400*

6290*

5600

3860

3980*

3980*

6170*

5620

3800

3420*

3420*

5900*

5620

4510

4400*

4400*

6290*

6290*

4470

3980*

3980*

6170*

6170*

4420

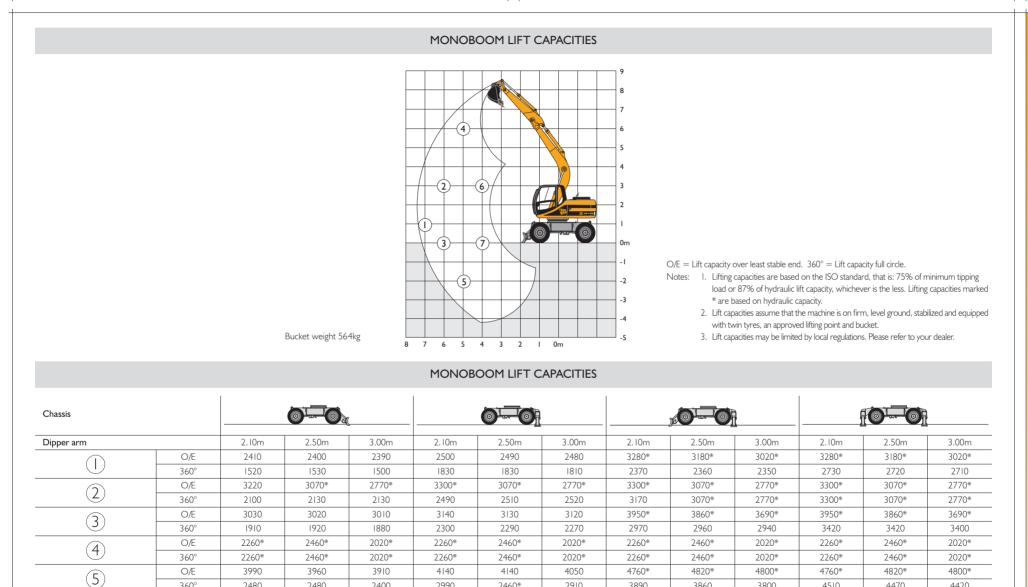
3420*

3420*

5900*

5900*

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O/E

360°

O/E

360°

6

 $\overline{(7)}$

All weights in kg.

4500*

4070

5870

3510

4160*

4160*

5890

3520

3640*

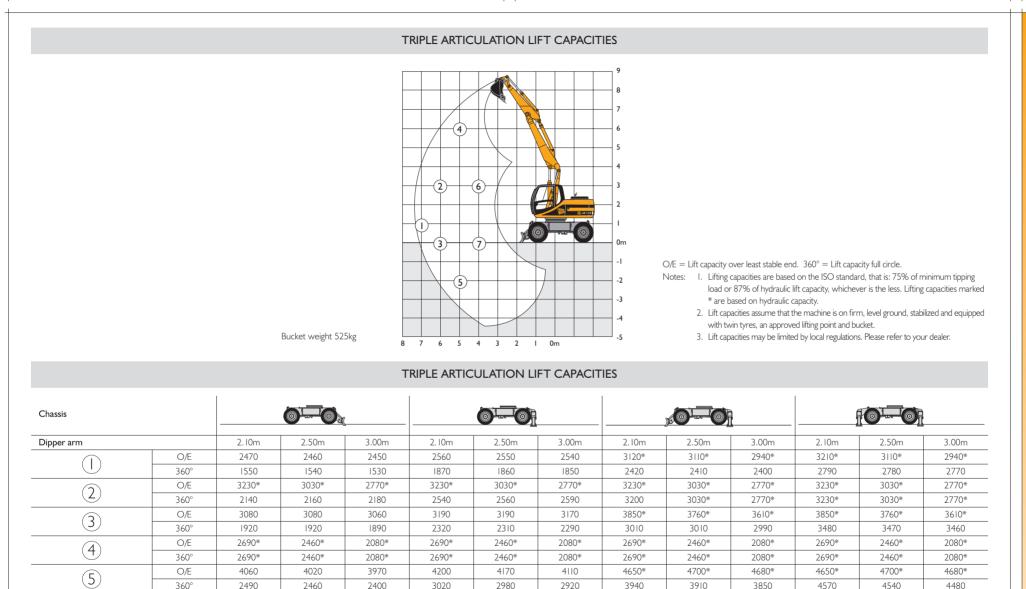
3640*

5850

3510

JCB WHEELED EXCAVATOR | JSI45W





4500*

4500*

6070

4260

4160*

4160*

6060

4270

3640*

3640*

5860*

4270

4500*

4500*

6150*

5630

4160*

4160*

6080*

5650

3640*

3640*

5860*

5650

4500*

4500*

6150*

6150*

4160*

4160*

6080*

6080*

3640*

3640*

5860*

5860*



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.



JCB care for the environment. This paper has been produced without the use of elemental chlorine chemicals in the bleaching process. JCB Sales Limited, Rocester, Staffordshire ST 14 5JP. Tel: 01889 590312. Fax: 01889 590588. Web: http://www.jcb.co.uk JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories. The JCB logo is a registered trademark of J C Bamford Excavators Ltd.

