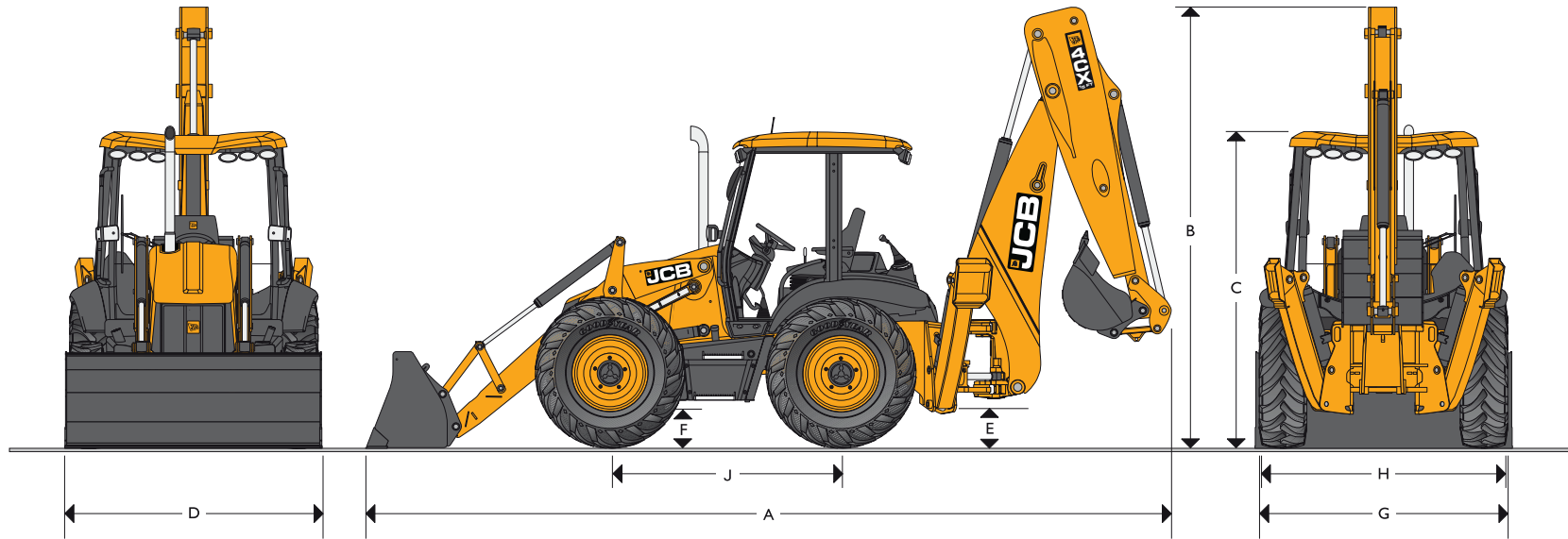


### STATIC DIMENSIONS

JCB Backhoe Loaders feature a heavy duty one piece mainframe, componentized driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.

Machine Model	4CX-14 SUPER
	ft-in (m)
A Transport Length	24-2 (7.37)
B Transport Height – Standard Backhoe	11-3 (3.43)
B Transport Height – Extradig	11-7 (3.53)
C Height to Top of Cab/Canopy	9-9 (2.87)
D Overall Width with Bucket	7-8 (2.45)

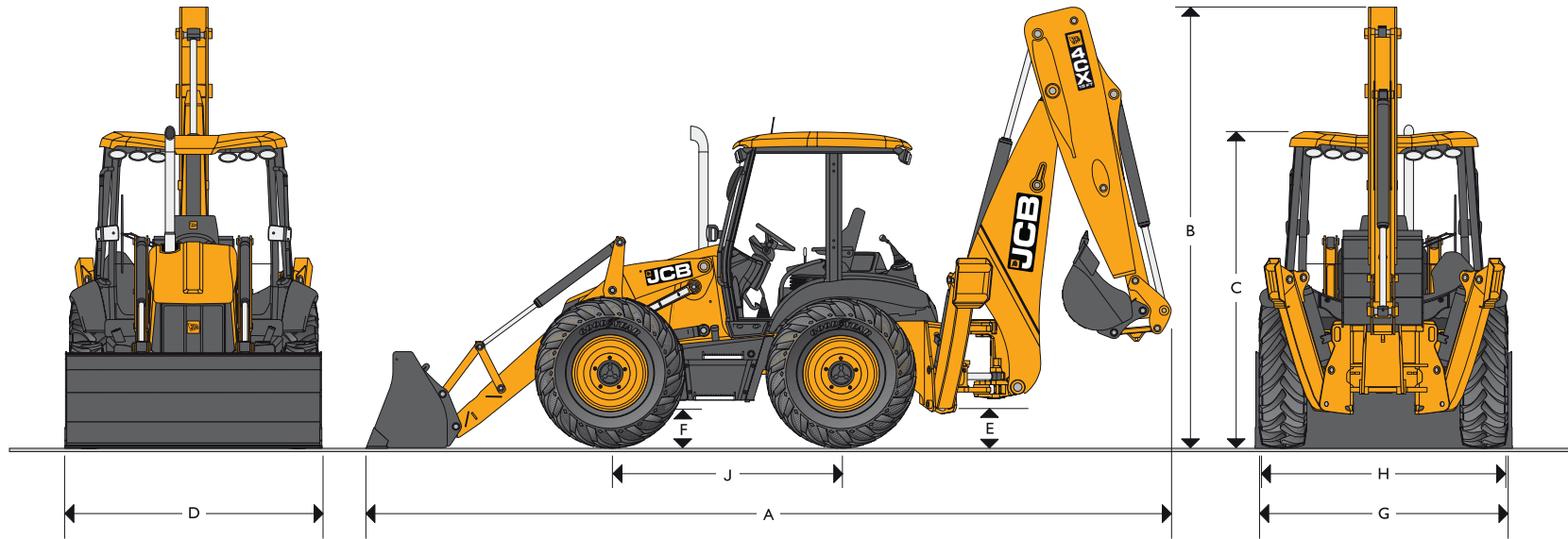
Machine Model	4CX-14 SUPER
	ft-in (m)
E Ground Clearance – Mainframe	1-1.5 (0.34)
F Ground Clearance – Front Axle	1-5.7 (0.45)
G Front Wheel Track	7-3.5 (2.22)
H Rear Wheel Track	7-3.5 (2.22)
J Wheelbase	7-7 (2.31)



### STATIC DIMENSIONS

JCB Backhoe Loaders feature a heavy duty one piece mainframe, componentized driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.

Machine Model	4CX-15 SUPER	Machine Model	4CX-15 SUPER
	ft-in (m)		ft-in (m)
A Transport Length	24-6 (7.47)	E Ground Clearance – Mainframe	1-1.5 (0.34)
B Transport Height – Standard Backhoe	12-9 (3.89)	F Ground Clearance – Front Axle	1-5.7 (0.45)
B Transport Height – Extradig	12-10 (3.91)	G Front Wheel Track	7-3.5 (2.22)
C Height to Top of Cab/Canopy	9-9 (2.87)	H Rear Wheel Track	7-3.5 (2.22)
D Overall Width with Bucket	7-8 (2.35)	J Wheelbase	7-7 (2.31)



### STATIC DIMENSIONS

JCB Backhoe Loaders feature a heavy duty one piece mainframe, componentized driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.

Machine Model	4CX-17 SUPER
	ft-in (m)
A Transport Length	24-6 (7.47)
B Transport Height – Standard Backhoe	13-7 (4.14)
B Transport Height – Extradig	13-9 (4.19)
C Height to Top of Cab/Canopy	9-9 (2.87)
D Overall Width with Bucket	8-0 (2.44)

Machine Model	4CX-17 SUPER
	ft-in (m)
E Ground Clearance – Mainframe	1-1.5 (0.34)
F Ground Clearance – Front Axle	1-5.7 (0.45)
G Front Wheel Track	7-3.5 (2.22)
H Rear Wheel Track	7-3.5 (2.22)
J Wheelbase	7-7 (2.31)



### ENGINE SUPPORT SYSTEM

Engine support system is designed for ease of daily checks, routine maintenance and longer service intervals.

<b>Fuel Type</b>	Diesel.
<b>Fuel Filter</b>	Replaceable cartridge plus water/sediment separator prefilter.
<b>Air Cleaner</b>	Dual, dry element type with self cleaning internal air intake precleaner.
<b>Oil Filter and Lubrication</b>	Full flow, spin-on type filter.
<b>Cooling System</b>	Hot climate specification, pressurised 14.5 psi (1.0 bar) suction fan. Pressurised recovery tank with integral filler neck.

### ENGINE

The JCB Ecomax engine is so efficient that it complies with Stage I II b/Tier 4i without the need for exhaust after-treatment systems. This is because it's high pressure common rail combustion system, produces virtually no particulate matter in its exhaust gases.

High pressure Common Rail Fuel Injection - Injects fuel at high pressure, up to 29,010 (2000bar.) with extremely precise control.

Variable Geometry Turbo Charger (VGT) Allows precise control of the quantity of air entering the engine, to match the fuel injected in optimising combustion efficiency.

Exhaust Gas Recirculation (EGR) - recirculates a portion of exhaust gases back into the combustion chamber, reducing NOx emissions.

Machine models		4CX-14 SUPER 4CX-15 SUPER 4CX-17 SUPER
Manufacturer		JCB
Aspiration		Turbocharged & Intercooler
Displacement		4.4 Ltr
No. of Cylinders		4
Bore	(inch)	(4.05)
Stroke	(inch)	(5.0)
Rated engine RPM		2200
<b>Power ratings</b>		
Gross HP - SAE J1995 (ISO 14396)	hp (kw)	109 (81)
Net HP - SAE J1349	hp (kw)	101(75)
<b>Maximum torque</b>		
Rated ISO 14396 (SAE J1995) lbf ft (Nm)		381 (516)
Max. Torque RPM		1500

### JCB TORQUE LOCK (Optional)

An industry exclusive JCB Torque Lock enables an operator to dramatically reduce travel time and improve fuel efficiency during roading operations.

Torque Lock incorporates a clutch which, when engaged, enables a direct connection between the engine and gearbox. By "locking up" the torque converter slippage is eliminated. Torque Lock engages automatically in 4th gear (Powershift models) or "A" mode (Autoshift models).

Torque Lock reduces fuel consumption by up to 25% while driven on the road, maintains road speed up hills for longer and allows the machine to reach its destination quicker or increase the working radius.

### STEERING

Full power hydrostatic system utilizing the main hydraulic pump via a steering priority valve. In the event of engine or hydraulic failure, emergency steering is maintained.

Machine Model		4CX SUPER
Steering Turns – Lock to Lock		2 ¾
Curb – Curb Turning Circle – Unbraked	ft-in (m)	29-10 (9.1)
Loader Clearance Circle – Unbraked	ft-in (m)	35-1 (10.7)

### OPERATING WEIGHTS

Operating weight includes machine equipped with standard loader bucket, 24" HD backhoe bucket, full fluid levels and SAE operator.

4CX SUPER	14FT	15FT	17FT
	lb (kg)	lb (kg)	lb (kg)
Base Unit – Standard Backhoe	16,446 (7462)	18,225 (8267)	18,428 (8359)
Add for: Cab	540 (245)	540 (245)	540 (245)
Add for: Extradig	998 (453)		

### ELECTRICAL AND INSTRUMENTATION

12 V negative ground, utilizing wiring and connectors meeting IP69 water ingress test standard. Central fuse panel.

<b>Gauges</b>	Tachometer, engine coolant temp, fuel level, hourmeter, clock.
<b>Warning System</b>	Audible and visual system for engine oil, water in fuel, transmission oil temperature and pressure, park brake, air cleaner, alternator.
<b>Battery</b>	12 V, 900 CCA./110 A/hr
<b>Pre-wire</b>	Radio speakers (cab), beacon (cab and canopy).
<b>Horn</b>	Controlled from both front and rear.
<b>Reverse Alarm</b>	Standard.
<b>Alternator</b>	95 amp.



### TRANSMISSION

The JCB Transmissions are designed and built specifically for JCB Backhoe Loaders. They feature synchronized shifting in all gears. Powershuttle between forward and reverse. Ground speeds are designed to maximize production.

3CX		
Manufacturer	JCB	JCB
Type	JCB Powershift	JCB Autoshift
Torque Converter	Single Stage Dual Phase	Single Stage Dual Phase
Torque Converter Ratio	2.52:1	2.52:1
Gears Forward/Reverse	4F/4R	6F/4R
Gear Selection	Powershift	Powershift/Autoshift
Shuttle Control – F/R	Power Shuttle	Power shuttle
<b>Travel Speeds</b>	<b>mph (km/h)</b>	<b>mph (km/h)</b>
<b>Tires Equipped</b>	<b>19.5-24 tires</b>	<b>440-28 tires</b>
Gear 1	3.2 (5.1)	3.2 (5.1)
Gear 2	5.2 (8.3)	5.3 (8.6)
Gear 3	11 (17.7)	7.2 (11.6)
Gear 4	22.8 (36.7)	11.6 (18.7)
Gear 5	–	19.3 (31.1)
Gear 6	–	26 (41.8)

### TIRES

Tires listed are most popular sizes. See your JCB Dealer for a full listing of available tire sizes and tread designs.

	4CX SUPER
440/80 R28 XMCL	●
16.9-24-12	●

### POWER BRAKES

The JCB class leading hydraulic power brakes system is fitted as standard and ensures low effort, effective, fade-free braking. The self-adjusting, multi-disk arrangement is inboard mounted and is oil immersed for minimum maintenance and a long operating life.

- Automatic compensation ensures 'straight' machine braking.
- Accumulator back-up provides maximum safety under all conditions and in the case of dead engine.
- Transmission logic and spring on / hydraulic release 4WD clutch means that the emergency brake is always applied to the front and rear axles for effective braking.
- Increased back off in the brake packs reduces friction and saves fuel.
- Uses the main hydraulic system oil which eliminates need for a separate brake oil reservoir which also reduces service costs.
- Disc diameter: 220 mm (8.7 in). Friction area: 129,000 sq.mm (200 sq.in) per brake disc.
- The integral park brake is a ball and ramp, oil immersed type located within the transmission and will hold the machine on 1:3 gradients. It is an over-center type, adjustable within the cab, with transmission disconnect to prevent premature brake pad wear. There are 5 friction brake discs having an outside diameter of 127mm (5in). Frictional area per brake disc is 47.65 sq.cm (7.39 sq.in) giving a total frictional area of 476.5 sq.cm (73.9 sq.in)

### FRONT AXLE

JCB front axles are designed and built specifically for backhoe loaders and accept a wide variety of tire combinations.

Machine Model	4CX SUPER
Type	JCB LSD with Outboard Planetary Drive
Limited Slip	Standard
<b>Axle Ratings</b>	<b>lb (kg)</b>
Static Load Rating	55,125 (25,011)
Dynamic Load Rating	27,562 (12,505)
SAE J43 Rating	33,069 (15,000)

### REAR AXLE

JCB rear axles are designed and built specifically for backhoe loaders and accept a wide variety of tire combinations.

Machine Model	4CX SUPER
Type	JCB LSD with Outboard Planetary Drive
Limited Slip	Standard
<b>Axle Ratings</b>	<b>lb (kg)</b>
Static Load Rating	55,125 (25,011)
Dynamic Load Rating	27,562 (12,505)
SAE J43 Rating	36,228 (16,433)



### CAB

Excellent visibility (and safety) is provided by the extra large tinted class areas of 70 sq.ft (6.5 sq.m). Cab frame is ROPS and FOPS approved for maximum operator protection. ISO standard 3471 and 3449 (SAE J1040 and J231)

- A fully adjustable seat with lumbar support combines with ergonomically positioned controls to minimise operator fatigue.
- The in-cab noise levels are the lowest in the industry at 72 dBA
- A radio location is provided as standard plus twin speakers for stereo sound, (in Cab options).
- Cab provides easy access through a two door. Rear side windows open either partially or fully for extra ventilation. Standard features include: lap seat belt, 3 speed fresh air/recycle heater, front and rear screen wash/wipers, front and rear horn, and flat easy-clean floor.
- The instrument panel is positioned for ease of viewing from either the loading or excavating position. Engine speed, fuel and coolant temperature gauges.
- A high performance air conditioning system is optionally available providing the operator with a cool working environment when working in high temperatures.
- Mechanical suspension seat gives the operator a comfortable operating position.
- An optionally available heated air suspension seat gives the operator the ultimate comfort with automatic compensation for weight.
- An optional in-cab hot drinks machine provides the operator with a hot beverage where site facilities don't exist.
- Optional heated front windscreen removes built up frost in minutes.

### HYDRAULIC SYSTEM

Side mounted hydraulic tank with sight glass. JCB cylinders with hose protection, structural steel tubing. Return line filter with magnet and replaceable cartridge in tank.

Control type	EasyControl	Advanced EasyControl
Circuit type	Open center	Closed center
Excavator valve block type	Full flow	Flow sharing
Loader valve block type	Full flow	Full flow
Pump type	Variable displacement piston	Variable displacement piston
<b>Total Pump output</b>	<b>gpm (lpm)</b>	<b>44 (165)</b>
System Relief Pressure	psi (bar)	3650 (252)
Filter rating	micron	5/12

### SMOOTH RIDE SYSTEM (Optional)

The JCB Smooth Ride System (SRS) consists of a dry nitrogen and oil filled cylinder installed in line with the loader lift cylinders. When activated, the Smooth Ride System allows the loader arms to float slightly. This action counteracts variations in road or site surfaces and provides the operator with a smooth ride. The JCB Smooth Ride System is manually controlled, via a rocker switch on the instrument panel, for maximum benefit and user flexibility.

### SERVICE CAPACITIES

#### 3CX SUPER

	gal (l)
Cooling system	4.9 (19)
Fuel tank	42.5 (160)
Engine oil with Filter	4 (15)
Transmission with Filter	4.2 (16)
Rear Axle	4.2 (16)
Front Drive Axle	4.2 (16)
Drive Axle Hubs - Each	0.4 (2)
Hydraulic Tank	22 (83)
Hydraulic System Including Tank	35 (132)

### EASYCONTROL (Optional)

JCB EasyControl offers smooth, low effort and productive backhoe operation, while reducing operator fatigue. Excavator control joysticks are integrated into the seat, providing increased legroom, improved visibility and hydraulic excavator ergonomics.

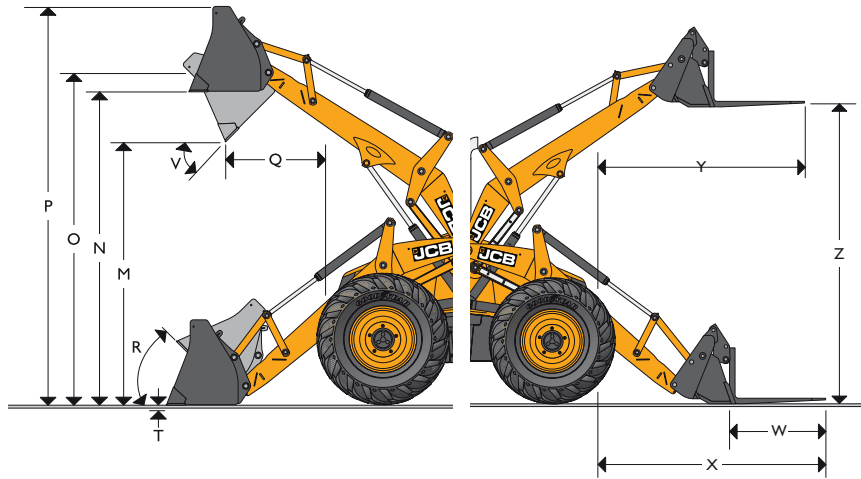
Proportional switches are mounted into the joysticks to operate JCB's Extradig and optional auxiliary circuits. The low effort mechanical loader control incorporates a proportional switch to operate loader mounted attachments. Best in class hydraulic modulation combines with the greatest digging performance, means that the JCB EasyControl is unmatched in any backhoe loader. A switch is provided to change between ISO and SAE controls.

### ADVANCED EASYCONTROL (Optional)

Advanced EasyControl is an alternative hydraulic control system available as an option on the 4CX. Building on the successful EasyControl system, it offers even higher levels of operator comfort, control and performance. Features include: seat mounted controls which operate both the excavator and loader. In addition, Advanced EasyControl boasts high output, which provides full flow on demand for increased fuel efficiency, faster digging cycles and maximum productivity and additional filtration for improved efficiency and reliability.



LOADER DIMENSIONS



LOADER DIMENSIONS

Machine Model	4CX SUPER
	ft-in (m)
Overall Width with Bucket	8-0 (2.44)
M Dump Height	8-10 (2.69)
N Load Over Height	10-6 (3.20)
O Loader Hinge Pin Height	11-2 (3.40)
P Maximum Operating Height	13-4 (4.06)
Q Dump Reach at Full Height	2-10 (0.86)
R Rollback @ Ground	45°
T Digging Depth	0-8 (0.20)
V Dump Angle	53°
<b>6-in-1 Bucket fork dimensions</b>	
W Forks - Tine Length	3-6 (1.07)
Forks - Tine Width	0-3.3 (0.08)
X Forks Reach at Ground Level	8-10 (2.69)
Y Forks Reach at Full Height	7-6 (2.29)
Z Forks Lift Height - Max	9-3 (2.82)
Fork Spacing - Min/Max	10" (260 mm) to 68" (1725 mm)

LOADER PERFORMANCE – GP Bucket

JCB loaders provide parallel lift self leveling on the up and down cycle enhancing load retention and use of optional pallet forks. High capacity buckets combined with high lift and breakout forces maximize productivity.

4CX SUPER	lb (kg)
Bucket Breakout Force	13,728 (6227)
Lift Capacity to Full Height	10,225 (4638)

LOADER PERFORMANCE – 6-in-1 Bucket

JCB loaders provide parallel lift self leveling on the up and down cycle enhancing load retention and use of optional palletforks. High capacity buckets combined with high lift and breakout forces maximize productivity.

4CX SUPER	lb (kg)
Bucket Breakout Force	14,528 (6290)
Lift Capacity to Full Height	9652 (7378)
6-in-1 Bucket Clamp Force	6486 (2943)
Fork Lift Capacity – 24" Center	4000 (1815)

LOADER ATTACHMENTS – Direct Mount

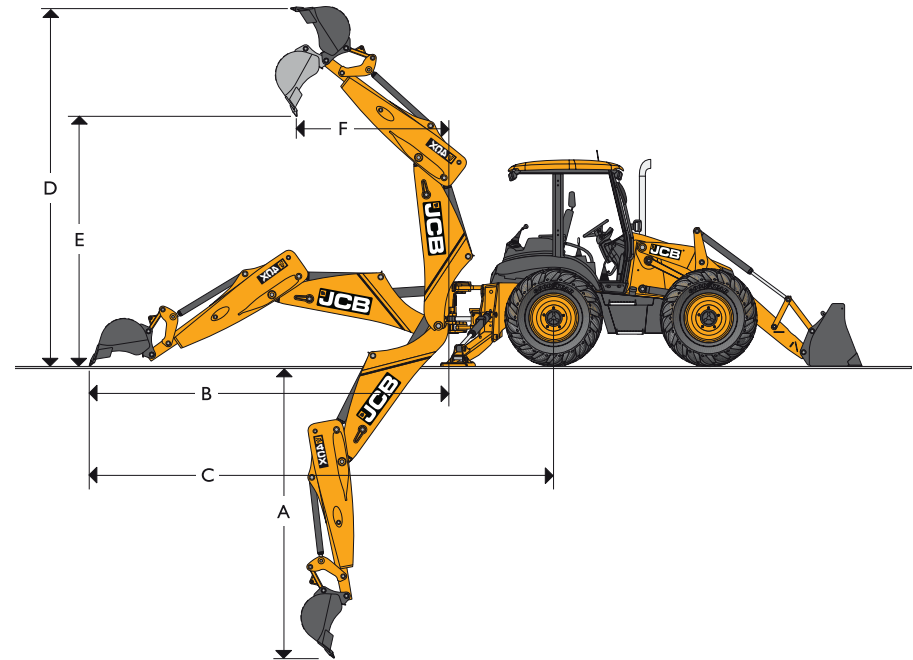
Loader buckets are listed according to size and application. Numbers listed below models are bucket shipping weights. All buckets are drilled to accept optional auxiliary cutting edge or teeth. Flat top box section provides rigity and assists in bucket leveling.

4CX SUPER	14FT	15FT	17FT
	lb (kg)	lb (kg)	lb (kg)
HD Bucket - 92", 1.4 cu yd	948 (430)	948 (430)	N/A
HD Bucket - 96" 1.6 cu yd	N/A	N/A	1325 (650)
6-in-1, 92" - with Forks 1.3 cu yd	N/A	N/A	2160 (900)
6-in-1, 96" - with Forks 1.5 cu yd	1940 (880)	1940 (880)	1984 (880)



BACKHOE PERFORMANCE

		14FT	15FT	17FT
Bucket Breakout Force	<b>lbf (kgf)</b>	13,730 (6228)	16,387 (7433)	16,387 (7433)
Dipper Breakout Force Retracted	<b>lbf (kgf)</b>	8605 (3903)	10,245 (4647)	10,690 (4849)
Dipper Breakout Force Extended	<b>lbf (kgf)</b>	6027 (2733)	7366 (3341)	7632 (3461)



STATIC DIMENSIONS

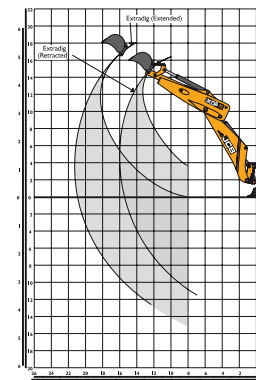
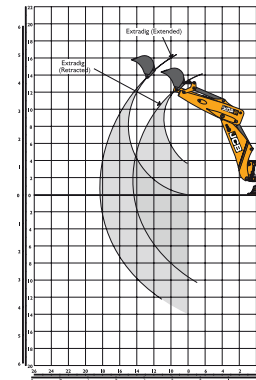
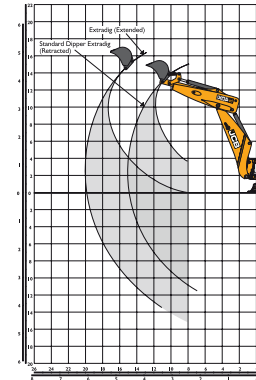
4CX SUPER		14FT			15FT		17FT		
		Standard Backhoe	Extradig – Retracted	Extradig – Extended	Extradig – Retracted	Extradig – Extended	Extradig – Retracted	Extradig – Extended	
A	SAE Dig Depth – Max	ft-in (m)	14-7 (4.45)	14-7 (4.45)	18-6 (5.63)	16-3 (4.95)	20-1 (6.12)	17-7 (5.36)	21-6 (6.55)
A	SAE Dig Depth – 2' Flat Bottom	ft-in (m)	14-5 (4.39)	14-5 (4.39)	18-4 (5.59)	16-1 (4.90)	20-0 (6.10)	17-5 (5.31)	21-5 (6.53)
B	Reach from Swing Pivot	ft-in (m)	17-10 (5.44)	17-10 (5.44)	21-6 (6.55)	19-5 (5.92)	23-0 (7.01)	20-11 (6.38)	24-8 (7.52)
C	Reach from Rear Axle Center	ft-in (m)	21-9 (6.63)	21-9 (6.63)	25-6 (7.77)	23-4 (7.11)	26-11 (8.20)	24-10 (7.57)	28-7 (8.71)
D	Maximum Operating Height	ft-in (m)	17-8 (5.38)	17-8 (5.38)	20-6 (6.25)	18-8 (5.69)	21-0 (6.40)	20-6 (6.25)	23-1 (7.04)
E	Loading Height	ft-in (m)	11-2 (3.40)	11-2 (3.40)	14-0 (4.27)	13-0 (3.96)	15-3 (4.65)	14-4 (4.39)	16-4 (4.99)
F	Loading Reach	ft-in (m)	5-3 (1.68)	5-5 (1.73)	9-1 (2.77)	6-6 (1.98)	10-2 (3.10)	7-2 (2.18)	10-10 (3.30)
	Swing Arc	degrees	180°	180°	180°	180°	180°	180°	180°
	Stabilizers – Transport	ft-in (m)	7-6 (2.29)	7-6 (2.29)	7-6 (2.29)	7-4.75 (2.25)	7-4.75 (2.25)	7-4.75 (2.25)	7-4.75 (2.25)
	Stabilizers – Operating	ft-in (m)	10-10 (3.30)	10-10 (3.30)	10-10 (3.30)	10-10 (3.30)	10-10 (3.30)	10-10 (3.30)	10-10 (3.30)
	Leveling Angle	degrees	15°	15°	15°	15°	15°	15°	15°
	Bucket Rotation	degrees	185° Max Power / 201° Max Rotation			185° Max Power / 201° Max Rotation		185° Max Power / 201° Max Rotation	





BACKHOE LIFT CAPACITIES

4CX SUPER		14FT			15FT		17FT	
		Standard	ExDig (retracted)	ExDig (extended)	ExDig (retracted)	ExDig (extended)	ExDig (retracted)	ExDig (extended)
Boom Lift Capacity – SAE J31								
+ 18	lb	–	–	–	–	–	–	2890
+ 16	lb	–	–	2423	–	2318	4379	3074
+ 14	lb	4233	4034	2646	4646	2623	4464	3132
+ 12	lb	4352	4134	2714	4831	2762	4383	3131
+ 10	lb	4250	4023	2718	4807	2819	4254	3102
+ 8	lb	4099	3867	2691	4694	2832	4027	3056
+ 6	lb	3939	3703	2649	4378	2821	3793	2973
+ 4	lb	3784	3545	2601	4188	2841	3650	2887
+ 2	lb	3640	3364	2557	4096	2753	3580	2841
Ground Level	lb	3509	3262	2503	4093	2668	3566	2832
– 2	lb	3390	3140	2460	4105	2585	3450	2782
– 4	lb	3287	3032	2424	4010	2504	3344	2735
– 6	lb	3205	2944	2400	3937	2422	3250	2695
– 8	lb	3161	2891	2394	3897	2334	3170	2665
– 10	lb	3246	2950	2421	3928	2227	3113	2647
– 12	lb	–	–	2528	4216	2053	3103	2653
– 14	lb	–	–	3001	–	1547	3315	2700
– 16	lb	–	–	–	–	1546	–	2856
– 18	lb	–	–	–	–	–	–	3691
Dipper Lift Capacity – SAE J31								
+ 18	lb	–	–	–	–	–	–	4312
+ 16	lb	–	–	3331	–	4067	5383	4456
+ 14	lb	6357	6220	3682	5165	4212	6147	4483
+ 12	lb	6991	6847	3842	5280	4261	6937	4468
+ 10	lb	7090	6968	3931	5170	4278	7488	4446
+ 8	lb	7193	7059	4002	5406	4300	8084	4440
+ 6	lb	7528	7390	4098	6197	4359	9167	4475
+ 4	lb	–	–	4279	–	4505	14667	4594
+ 2	lb	–	–	4716	–	4883	–	4931
Ground Level	lb	–	–	–	–	–	–	–



Lift capacity figures comply with SAE J31. All figures are stated in pounds. The large arc indicates boom lift. The small arc indicates dipper lift with the boom at 63 degrees. Units are equipped with standard equipment as listed in this data sheet and a 24" backhoe bucket.



### BACKHOE BUCKETS

JCB Backhoe Loader buckets are designed specifically for use on JCB machines. Dual position tipping link provides positions to maximize tearout force or to maximize rotation for straight wall digging and improved load retention. All JCB buckets include heavy-duty features consisting of a 1"x18" cutting edge, back straps, box section cross member, and full length, chamfered side cutters.

Bucket Width	in	12	18	24	24	30	36
Bucket Width	mm	305	455	610	610	760	910
Number of Teeth		3	4	4	5	5	6
<b>Heavy-duty Trenching Buckets</b>							
Capacity	cu ft	2.8	4.9	7.1	7.1	9.2	11.3
Capacity	cu m	0.08	0.14	0.20	0.20	0.26	0.32
Weight	lb	293	359	408	419	478	544
Weight	kg	100	128	145	190	166	189

### JCB HYDRAULIC BREAKERS

JCB hydraulic breakers are designed for use on JCB Backhoe Loaders. They feature constant blow energy, pressure damping, heavy-duty side plates and high impact frequency for maximum production. Coupled with factory installed hydraulic breaker circuit, the JCB breakers and backhoe loader make a perfect demolition combination. All models are equipped with sound insulation for quiet operation as standard.

Breaker Model		HM385Q	HM495Q
Energy Class	ft/lb	634 (859)	780 (1058)
Impact Frequency	bpm	480-960	390-780
Oil Flow Range	gpm (lpm)	13-21 (50-80)	13-27 (50-100)
Operating Weight	lb (kg)	688 (312)	924 (419)
Operating Pressure	psi (bar)	1450-2175 (100-150)	1450-2175 (100-150)
Tool Diameter	in (mm)	3.1 (80)	3.7 (95)

A wide variety of tools are available for JCB breakers. See your JCB Dealer for details.



## A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into one of the world's largest manufacturers 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 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 an extensive dealer sales and service network in over 150 countries, 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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