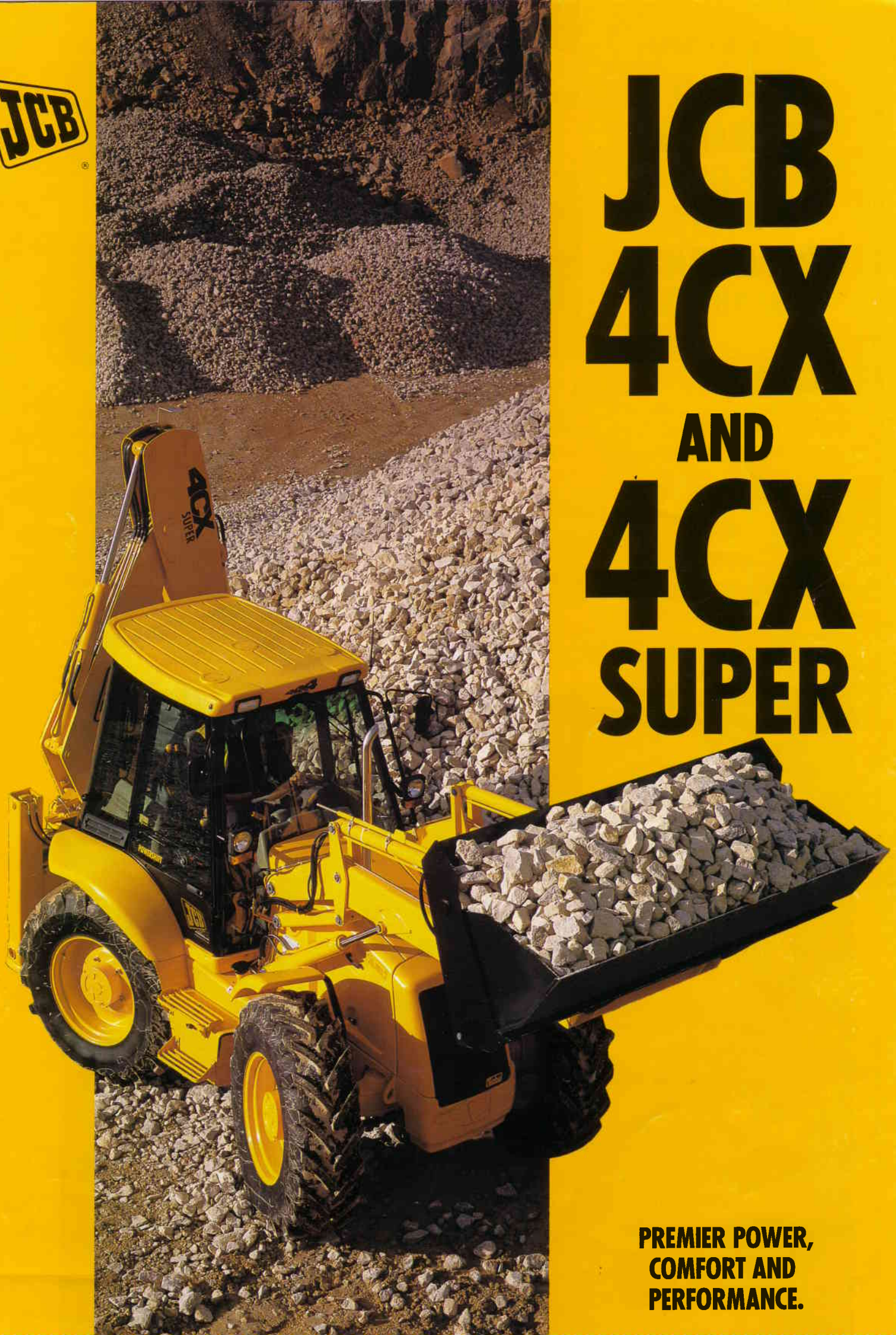
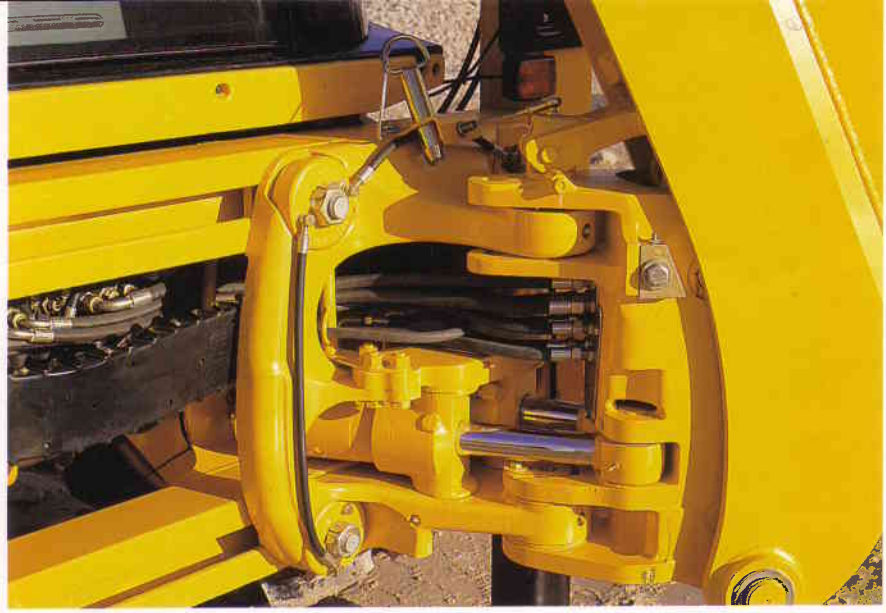
JCB 4CX AND 4CX SUPER



PREMIER POWER, COMFORT AND PERFORMANCE.

JCB 4CX/4CX SUPER

THE NEXT GENERATION OF THE WORLD'S MOST ADVANCED BACKHOES.



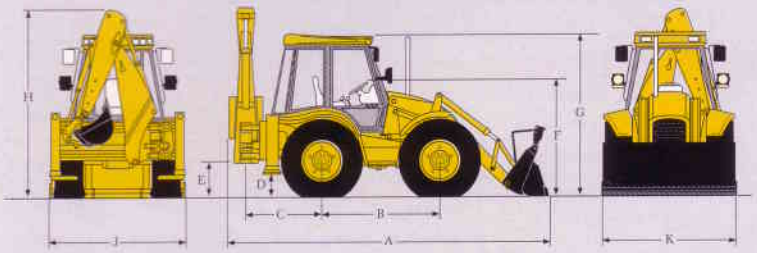
When the JCB 4CX and 4CX Super were launched, they set a precedent for others to follow. Now this latest generation of JCB's premier backhoe loaders have taken levels of power, productivity and operator comfort even further.

- Variable flow hydraulics maximise power and tractive effort as well as improving fuel economy.
- The heavy lift excavator on the 4CX provides 25% more power at the bucket teeth for increased productivity.
- The 40kph Powershift gearbox, coupled with a 12" torque converter, provides more power to the wheels for improved hill climbing performance and increased roading speeds.
- The twin ram slew incorporates the power and controllability of JCB's rack and pinion. It allows more accurate trench spotting and slewing throughout the cycle.
- Large removable plastic side panels allow excellent servicing access.
- The optional semi-automatic gearbox incorporates a push button 'kickdown' for faster cycle times and improved roading performance.
- The ergonomically designed cab includes a 15% increase in the glass area and a sloping bonnet for improved visibility. Low in-cab noise levels are just 75 dB(A) while a flatter cab floor improves the excavating position. Optional opening front door windows and a powered rear window improve ventilation.



GENERAL SPECIFICATION

STATIC DIMENSIONS



	4CX		4CX Super	
	m	ft. ins.	m	ft. ins.
A Total Travel Length	5.91	(19-5)	5.91	(19-5)
B Axle Centreline Distance	2.22	(7-3)	2.22	(7-3)
C Slew Centre to Rear Axle Centre Distance	1.36	(4-6)	1.36	(4-6)
D Stabiliser Feet Clearance	0.34	(1-1)	0.34	(1-1)
E Kingpost Clearance	0.50	(1-8)	0.50	(1-8)
F Steering Wheel Centre Height	1.88	(6-2)	1.88	(6-2)
G Cab Roof Height	2.84	(9-4)	2.84	(9-4)
H Total Travel Clearance	3.67	(12-0)	3.95	(13-0)
J Rear Frame Width	2.36	(7-9)	2.36	(7-9)
K Shovel Width	2.33	(7-8)	2.33	(7-8)

ENGINE

	4CX	4CX Super
Manufacturer	Perkins	Perkins
Model	1004-4THR4	1004-4THR4
Displacement/Ltr	3.99	3.99
No. cylinders	4	4
Bore size/mm	100	100
Stroke/mm	127	127
Rated Engine RPM	2200	2200
Fan ratio	0.85:1	0.85:1
Aspiration	Turbo	Turbo
Air Filter	Dual element, 2 stage	
Cold Start	Thermostart	

The latest technology and an advanced design means low fuel consumption, reduced noise, high torque, great power output, excellent reliability and minimal maintenance.

- Easily replaceable pre-finished dry liners.
- 5 bearing, heat treated crankshaft.
- Expansion controlled pistons with Alfin inserts.
- Two stage dry type air filter has primary and safety elements.
- Oil jet piston cooling.

	4CX	4CX Super
BSAU 141 (a)		
Gross Power	71.5kW (96hp) @ 2200rpm	71.5kW (96hp) @ 2200rpm
Gross Torque	373Nm (275lbf.ft) @ 1400rpm	373Nm (275lbf.ft) @ 1400rpm
SAE J1349		
Gross Power	71.5kW (96hp) @ 2200rpm	71.5kW (96hp) @ 2200rpm
Gross Torque	373Nm (275lbf.ft) @ 1400rpm	373Nm (275lbf.ft) @ 1400rpm
EEC 80/1269		
Nett Power	69kW (92hp) @ 2200rpm	69kW (92hp) @ 2200rpm
Nett Torque	368Nm (271lbf.ft) @ 1400rpm	368Nm (271lbf.ft) @ 1400rpm
Noise in cab to EEC 86/662 (dBA)	75	75
External Sound Power to EEC 86/662(LwA)	105	105

TRANSMISSION

For unbeatable drive power in all conditions, the 4 speed JCB Powershift transmission allows fast gear changing without losing speed or momentum on gradients. The integral torque converter and electrically operated reversing shuttle help this backhoe loader produce fast cycle times for real wheeled loader performance. Low 1st and 2nd gear ratios provide excellent tractive effort for loading and sitestripping.

- An easy-to-use column mounted electric switch controls both machine direction and gear changing. Coupled with the automotive safety pedal layout, this greatly reduces operator fatigue.
- Direction changes are modulated from forward to reverse with detented lever gates for safety. The light electric twist grip provides effortless shifting between gears.
- Torque converter (12.2") stall ratio: 2.54:1.
- Electrical selection of 4WD allows easy on-the-move changes.
- 40kph powershift as standard.
- Semi-auto change gearbox available as option.

AXLES

Tractive effort is exceptional, whatever the conditions, because of heavy duty yet lightweight JCB epicycle rear drive axle. It incorporates the unique JCB Max-Trac torque proportioning differentials for maximum effectiveness.

The JCB Max-Trac front steer-drive axle has an oscillation angle of 16° in order to cope with the most arduous conditions and still remain tractive.

Limited Slip Differentials are available as an option on the front and rear axles to give improved traction when using the loader in soft site conditions.

TRAVEL SPEEDS

16.9 x 28 tyres and engine at 2200rev/min

Ratio	km/h	mph
1	5.7	3.5
2	10.1	6.3
3	23.0	14.3
4	40.7	25.3

BRAKES

The JCB braking system ensures effective, fade-free braking. The self-adjusting, multi-disc arrangement is mounted inboard. It is oil immersed for cool operation and a long-life.

- Vacuum servo-assisted braking system reduces pedal effort, therefore minimising operator fatigue.
- Automatic compensation ensures 'straight' machine braking.
- Disc diameter: 220mm (8.7in). Friction area: 129,000sq mm (200sq in) per brake.
- The parking brake is a hand operated, over-centre type which actuates a brake calliper that acts onto a metal disc situated on the transmission output shaft. The mechanism will hold the machine on 1:3 gradients. It can be fully adjusted from within the cab. The handbrake isolates the transmission drive to prevent the machine being driven whilst handbrake is on, thus extending the life of brake pads. Disc diameter: 280mm (11in). Friction area: 5416sq mm (8.4sq in).

ELECTRICS

The machine has 12 volt direct electric starting with 72A alternator and standard thermostart start aid.

- A heavy duty harness with secured sealed connectors protect against both water and dust ingress. The connectors conform to IP67 (DIN 40 050) standards. A woven nylon outer covering protects the harness against abrasion and also improves its resistance to water penetration.
- Halogen headlights, plus 4 front and 4 rear adjustable working lights.
- Standard battery 103A hour low maintenance.
- Optional battery 114A hour low maintenance.

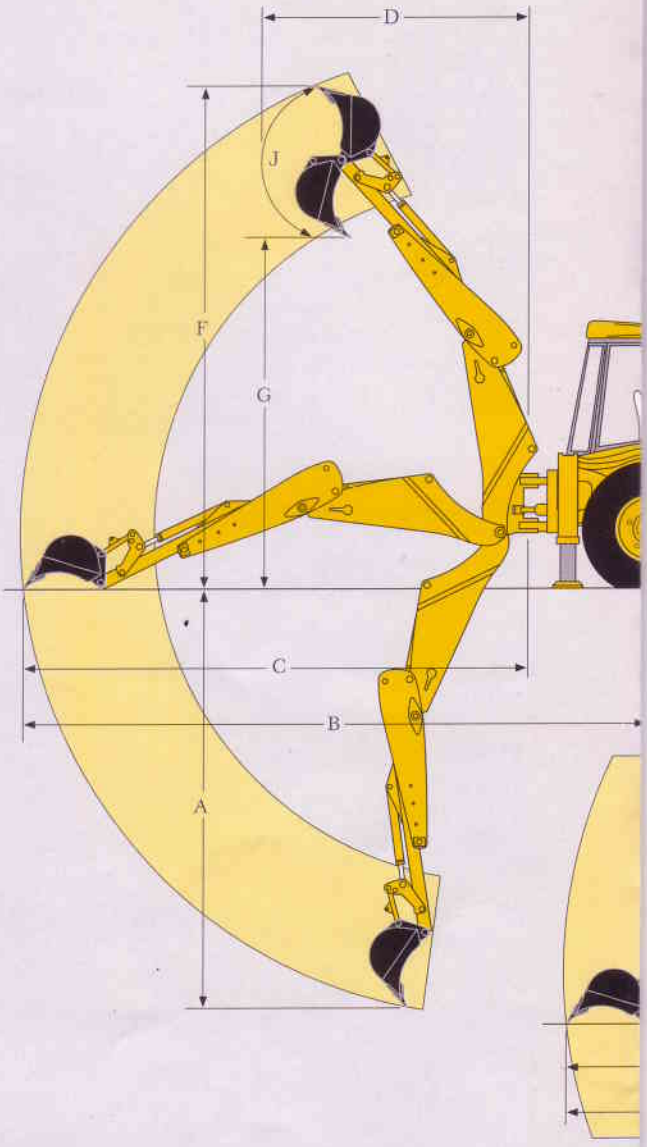
GENERAL SPECIFICATION

BACKHOE DIMENSIONS

		4CX Std Dipper	4CX Extradig	4CX Super Std Dipper	4CX Super Extradig
A SAE max dig Depth	Ext	–	5.55m (18' 2")	–	6.12m (20' 0")
	Ret	4.35m (14' 3")	4.35m (14' 3")	4.94m (16' 2")	4.94m (16' 2")
SAE 2ft flat bottom	Ext	–	5.51m (18' 1")	–	6.07m (19' 11")
	Ret	4.32m (14' 2")	4.32m (14' 2")	4.90m (16' 0")	4.90m (16' 0")
Maximum dig depth	Ext	–	5.67m (18' 7")	–	6.23m (20' 5")
	Ret	4.44m (14' 7")	4.44m (14' 7")	5.02m (16' 6")	5.02m (16' 6")
B Reach – ground level to rear wheel centre	Ext	–	7.85m (25' 9")	–	8.30m (27' 3")
	Ret	6.71m (22' 0")	6.71m (22' 0")	7.21m (23' 8")	7.21m (23' 8")
C Reach – ground gevel to slew centre	Ext	–	6.53m (21' 5")	–	6.88m (22' 7")
	Ret	5.40m (17' 9")	5.40m (17' 9")	5.79m (19' 0")	5.79m (19' 0")
D Reach – at full height to slew centre	Ext	–	3.17m (10' 5")	–	3.75m (12' 4")
	Ret	2.37m (9' 9")	2.37m (7' 9")	2.69m (8' 10")	2.69m (8' 10")
E Side reach – to centre line of machine	Ext	–	7.12m (23' 4")	–	7.48m (24' 6")
	Ret	5.98m (19' 8")	5.98m (19' 8")	6.38m (20' 11")	6.38m (20' 11")
F SAE operating height	Ext	–	6.27m (20' 7")	–	6.45m (21' 2")
	Ret	5.43m (17' 10")	5.43m (17' 10")	5.58m (18' 4")	5.58m (18' 4")
G Maximum loadover Height	Ext	–	5.04m (16' 6")	–	5.38m (17' 4")
	Ret	4.11m (13' 6")	4.11m (13' 6")	4.57m (15' 0")	4.57m (15' 0")
SAE loadover height	Ext	–	3.91m (12' 10")	–	4.60m (15' 1")
	Ret	3.33m (10' 11")	3.33m (10' 11")	3.92m (12' 10")	3.92m (12' 10")
H Total kingpost travel		1.17m (3' 10")	1.17m (3' 10")	1.17m (3' 10")	1.17m (3' 10")
J Bucket rotation		201°	201°	201°	201°

BACKHOE PERFORMANCE

Dipper tearout	Ext	–	2530kgf(5578lbf)	–	2450kgf(5390lbf)
	Ret	3537kgf(7798lbf)	3650kgf(8047lbf)	3350kgf(7385lbf)	3410kgf(7530lbf)
Lift capacity of bucket pivot at full reach	Ext	–	1278kgf(2818lbf)	–	840kgf(1851lbf)
	Ret	1926kgf(4246lbf)	1926kgf(4246lbf)	1086kgf(2394lbf)	1086kgf(2394lbf)
Bucket tearout		4880kgf(10758lbf)	4880kgf(10758lbf)	4470kgf(9860lbf)	4470kgf(9960lbf)



BACKHOE ATTACHMENTS

STANDARD PROFILE BUCKET

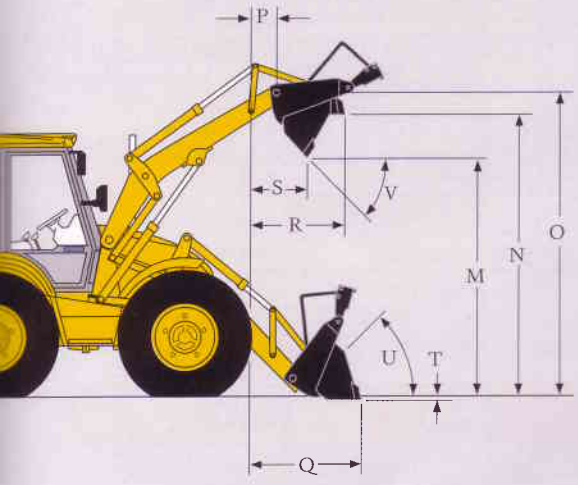
WIDTH* mm	(in)	CAPACITY SAE RATED m³	(ft³)	STRUCK m³	(ft³)	WEIGHT (+ TEETH) kg	(lb)	TEETH
305	(12)	0.06	(2 1/8)	0.05	(1 3/4)	102	(225)	3
400	(16)	0.09	(3)	0.07	(2 1/2)	109	(240)	3
457	(18)	0.12	(4 1/4)	0.09	(3)	116	(256)	3
610	(24)	0.17	(6)	0.13	(4 1/2)	140	(310)	4
800	(32)	0.24	(8 1/2)	0.17	(6)	162	(355)	5
950	(37)	0.30	(10 1/2)	0.21	(7 1/4)	198	(435)	5

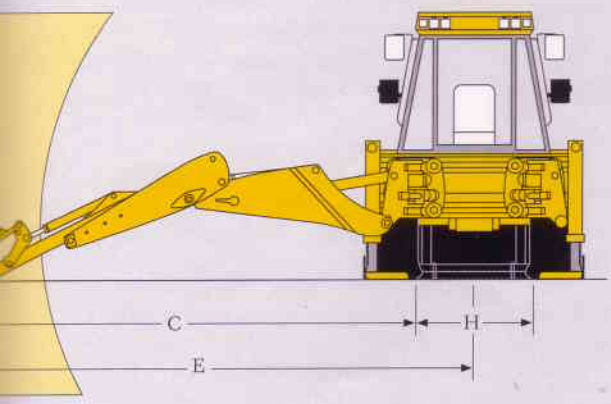
*Including sidecutters. Width less sidecutters deduct 25mm (1in)

DEEP PROFILE BUCKET

WIDTH* mm	(in)	CAPACITY SAE RATED m³	(ft³)	STRUCK m³	(ft³)	WEIGHT (+ TEETH) kg	(lb)	TEETH
305	(12)	0.09	(3)	0.07	(2 1/2)	102	(225)	3
457	(18)	0.16	(5 1/2)	0.13	(4 1/2)	122	(269)	3
610	(24)	0.23	(8)	0.18	(6 1/4)	142	(314)	4
800	(32)	0.30	(10 1/2)	0.24	(8 1/2)	163	(359)	5
950	(37)	0.38	(1/2)†	0.30	(10 1/2)	183	(403)	5
1100	(43)	0.48	(5/8)†	0.34	(12)	203	(448)	6

*Including sidecutters. Width less sidecutters deduct 25mm (1in). †Capacity in cu yd





LOADER DIMENSIONS

Shovel type	GP	6-in-1	GP	6-in-1
Machine type	4CX	4CX	4CX Super	4CX Super
M Dump height	2.69m (8' 10")	2.69m (8' 10")	2.69m (8' 10")	2.69m (8' 10")
N Loadover height	3.21m (10' 7")	3.18m (10' 5")	3.21m (10' 7")	3.18m (10' 5")
O Pin height	3.41m (11' 2")	3.41m (11' 2")	3.41m (11' 2")	3.41m (11' 2")
P Pin forward reach	0.38m (1' 3")	0.38m (1' 3")	0.38m (1' 3")	0.38m (1' 3")
Q Reach at ground (Toe plate horizontal)	1.42m (4' 8")	1.39m (4' 7")	1.21m (4' 0")	1.17m (3' 10")
R Max. reach at full height	1.21m (4' 0")	1.17 (3' 10")	1.21 (4' 0")	1.17 (3' 10")
S Reach at full height fully dumped	0.82m (2' 8")	0.76m (2' 6")	0.82m (2' 8")	0.76m (2' 6")
T Dig depth	0.14m (5")	0.19m (7")	0.14m (5")	0.19m (7")
U Rollback at g round	45°	45°	45°	45°
V Dump angle SAE	45°	54°	45°	54°
Jaw opening width	–	0.95m (3' 1")	–	0.95m (3' 1")

LOADER PERFORMANCE

Loader breakout at bucket	5658kgf (12471lbf)	6120kgf (13497lbf)	5658kgf (12471lbf)	6120kgf (13497lbf)
Loader breakout arms	5922kgf (13058lbf)	5582kgf (12305lbf)	5922kgf (13058lbf)	5582kgf (12305lbf)
Lift capacity to full height	3875kg (8544lb)	3422kg (7544lb)	3875kg (8544lb)	3422kg (7544lb)
Clamping force	– –	2942kgf (6486lbf)	– –	2942kgf (6486lbf)

LOADER ATTACHMENTS

GP SHOVEL WIDTH mm	(ft in)	CAPACITY SAE RATED m³	(yd³)	STRUCK m³	(yd³)
2350	(7-8)	1.1	(1.44)	0.91	(1.19)
2350	(7-8)	1.3	(1.70)	1.19	(1.56)

6-in-1 SHOVEL WIDTH mm	(ft in)	CAPACITY SAE RATED m³	(yd³)	STRUCK m³	(yd³)
2350	(7-8)	1.0	(1.32)	0.76	(1.00)
2350	(7-8)	1.2	(1.57)	1.02	(1.33)

JCB QUICKHITCH LOADER SHOVELS

GP SHOVEL WIDTH mm	(ft in)	CAPACITY SAE RATED m³	(yd³)	STRUCK m³	(yd³)
2350	(7-8)	1.1	(1.44)	0.91	(1.19)

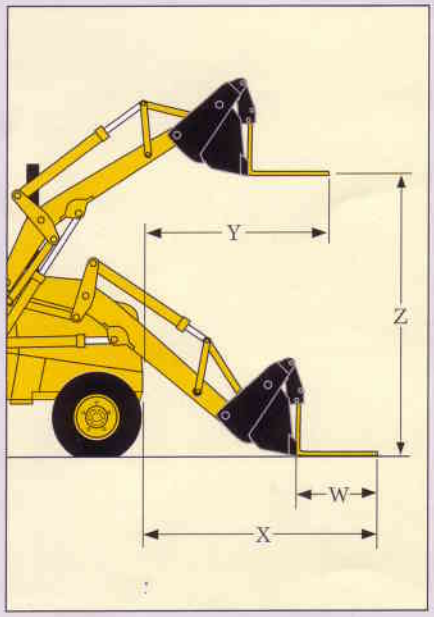
6-in-1 SHOVEL WIDTH mm	(ft in)	CAPACITY SAE RATED m³	(yd³)	STRUCK m³	(yd³)
2350	(7-8)	1.0	(1.32)	0.80	(1.04)

FORK LIFT PERFORMANCE

X Reach at ground	2.62m (8ft 7in)
Y Reach at full height	2.23m (7ft 4in)
Z Full lift height	2.86m (9ft 5in)
Minimum fork spacing	0.19m (7½in)
Maximum fork spacing	2.17m (7ft 1in)

FORK LIFT TYPE

W Fork length	1.07m (3ft 6in)
Section Width	80mm (3⅛in)
Assembly weight	139kg (306lb)
SWL at 500mm load centres	1000kg (2205lb)



JCB 4CX/4CX Super

GENERAL SPECIFICATION

TYRES

4CX
STANDARD
16.9/14 x 24 12 PR (ISG)

OPTIONAL
16.9 x 28 10 PR Industrial (SGI)
16.9/14 x 28 12 PR (ISG)
16.9 x 28 XM27 Traction Radial
15.5 x 25 XGLA Industrial Radial

4CX Super
STANDARD
16.9 x 28 12 PR (ISG)

OPTIONAL
16.9 x 28 10 PR Industrial (SGI)
16.9 x 28 XM27 Traction Radials

TURNING CIRCLES

Kerb-kerb clearance	10.9m (35ft 9in)
Wall-wall clearance	12.1m (39ft 8in)
Tyres	16.9 x 28
No. turns, lock-lock	3¾

GROUND LINE ANGLES

Approach angle	74°
Interference angle/ ramp to ground plane	118°
Departure angle	19°

HYDRAULICS

JCB Varimatic hydraulics, incorporate the JCB variable hydraulic load sensing system.

- Single variable hydraulic axial piston pump provides power on demand.
- Engine power, hydraulic flow and pressures are automatically matched to digging or loading conditions reducing fuel consumption, improves productivity, efficiency and controlability.
- Ergonomically positioned levers requiring minimum of effort to use, allow excellent control of the loader and backhoe, thus reducing operator fatigue.
- Extradig dipper can extend or retract without breaking the digging cycle. This allows faster cycle times and simultaneous use of the telescopic and normal excavator actions in operations such as grading and bank dressing.
- A full flow 12 micron filter ensures that oil stays free of contaminants.

4CX and 4CX SUPER
PUMP FLOW
160L/min (35gal/min) at 2200 rpm.

MAIN RELIEF VALVE SETTING
Backhoe & Loader: 227 bar (3300lbf/sq in).

CAB

The curved glass cab provides excellent visibility (and safety) with a max. glass area of 6.4m² (70sq ft). It's ROPS and FOPS approved to give maximum protection to the operator.

- A fully adjustable and reclining suspension seat with lumbar support combines with ergonomically positioned controls, including a soft-touch steering wheel, to minimise fatigue and optimise productivity.
- For operator comfort, in-cab noise levels are only 75dBA – the lowest in the industry.
- Cab provides easy 'walk through' two door access. Side windows open either partially or fully for excellent ventilation. Other features include: sunvisors, lap seat belt, optional opening front windows, large convex rear view mirrors, interior light, 3-speed variable heater/demister unit, front and rear screen wipers, front and rear screen wash, front and rear horn, hazard warning system, in cab tool tray, interior rear view mirror, intermittent plus twin speed wash wipe, lighter, ashtray, digital odometer and clock as standard.
- In cab storage box adds to the already ample storage capacity for tools and the operator's personal effects.
- Instrumentation panel is positioned on the right-hand side and includes engine speed, engine hours, fuel level and water temperature.
- Audible and visual fault warning instrumentation system for alternator charge, coolant temperature, engine oil pressure, blocked air filter, transmission oil pressure/temperature and handbrake on.
- Tinted glass (standard), sunshading band (optional).
- Powered rear window (optional).

WEIGHT

Operational weight with 610mm (24in) excavator bucket, extradig, 6-in-1 shovel & forks and full fuel tank:

4CX	8659kg (19,090lb).
4CX Super	8879kg (19,575lb).

CAPACITIES

Hydraulic system (inc. tank)	132ltrs (29gal)
Fuel tank	130ltrs (28.6gal)
Engine coolant	23ltrs (5gal)
Engine oil (Inc Filter)	10ltrs (2.2gal)
Rear axle	16ltrs (3.5gal)
Front axle	16ltrs (3.5gal)
Gearbox (Inc Filter)*	15ltrs (3.3gal)

*Based on powershift gearbox

STANDARD/OPTIONAL EQUIPMENT

	4CX	4CX Super
6-in-1 shovel with forks	Opt.	Opt.
Lifting shackle	Opt.	Opt.
Road lights, direction indicators	Std.	Std.
3 spool loader valve	Opt.	Opt.
Loader arm safety strut	Std.	Std.
Rear fog and number plate lights	Std.	Std.
Front and rear working lights	Std.	Std.
Interior trim	Std.	Std.
Beacon	Opt.	Opt.
Suspension seat	Std.	Std.
Sunvisor	Std.	Std.
Radio speakers	Std.	Std.
In cab storage box	Std.	Std.
Interior reading light	Std.	Std.
Rear window washer	Std.	Std.
Instrument vandal guards	Std.	Std.
Rear demister	Std.	Std.
Seat belt	Std.	Std.
Electrical hydraclamp release	Std.	Std.
Rear horn	Std.	Std.
Interior mirror	Std.	Std.
Door ajar stays	Std.	Std.
Cigarette lighter & ashtray	Std.	Std.
96hp Turbocharged engine	Std.	Std.
Variable hydraulic pump	Std.	Std.
Standard dipper with Hammer pipework	Opt.	Opt.
Extradig dipper	Opt.	Opt.
40kph gear box (powershift)	Std.	Std.
Semi auto gear change	Opt.	Opt.
Return to dig	Std.	Std.
Opening front windows	Opt.	Opt.
Refuelling pump	Opt.	Opt.
Tinted glass	Std.	Std.
Arm rests	Std.	Std.
Digital clock	Std.	Std.
Front mudguards	Std.	Std.
Exterior tool box	Std.	Std.
Hammer pipework	Opt.	Opt.
Stolen vehicle tracking system	Opt.	Opt.
Servo-assisted brakes	Std.	Std.
Face level vents	Std.	Std.
Face fan	Opt.	Opt.
Air-conditioning (HVAC)	Opt.	Opt.
Tilt steer column	Std.	Std.
Excavator quickhitch – mech.	Opt.	Opt.
Ditch cleaning bucket	Opt.	Opt.
Fork mounted crane hook	Opt.	Opt.
Heavy duty battery	Opt.	Opt.
Street pads	Opt.	Opt.
Supplementary took kit	Opt.	Opt.
Excavator quickhitch – Hitchmaster (hydraulics)	Opt.	Opt.
Headrests	Opt.	Opt.
Powered rear window	Opt.	Opt.
Hammer pipework mountings	Opt.	Opt.

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