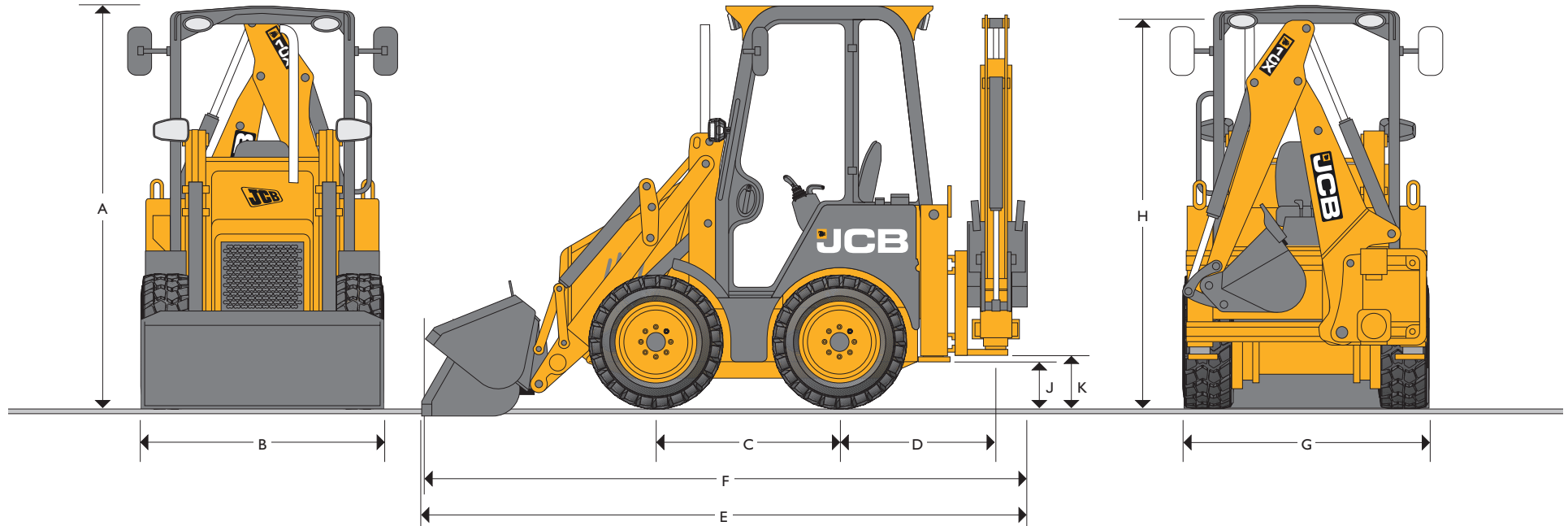




ICX SKID STEER BACKHOE LOADER | SPECIFICATION

MAX. ENGINE POWER: 37.3kW (50hp) MAX. BACKHOE DIG DEPTH (STANDARD DIPPER): 2.55 metres (8ft 4in) MAX. LOADER CAPACITY: 610kg (1345lb)



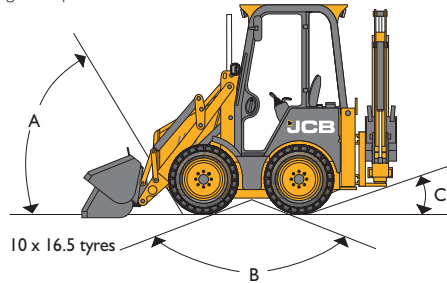
STATIC DIMENSIONS

Machine model	ICX (7x15 Tyres)		ICX (10x16.5 Tyres)		Machine model	ICX (7x15 Tyres)		ICX (10x16.5 Tyres)	
	m	(ft-in)	m	(ft-in)		m	(ft-in)	m	(ft-in)
A Overall height (cab/canopy)	2.26	(7-4)	2.25	(7-4)	F Total travel length (shovel in carry position) short arm	3.31	(10-10)	3.31	(10-10)
Overall height (low canopy)	2.11	(6-11)	2.10	(6-10)	FI Total travel length (shovel in carry position) long arm	3.41	(11-2)	3.41	(11-2)
B Overall width (over tyres)	1.43	(4-8)	1.58	(5-2)	G Rear frame width (over tyres)	1.41	(4-7)	1.56	(5-1)
C Axle centreline distance	1.07	(3-6)	1.07	(3-6)	H Height of boom in carry position (fixed dipper)	2.18	(7-2)	2.17	(7-1)
D Slew centre to rear axle centre distance	0.87	(2-10)	0.87	(2-10)	HI Height of boom in carry position (extending dipper)	2.18	(7-2)	2.17	(7-1)
E Total travel length - short arm	3.40	(11-2)	3.40	(11-2)	J Stabiliser feet clearance	0.27	(0-10)	0.26	(0-10)
EI Total travel length - long arm	3.50	(11-5)	3.50	(11-5)	K Kingpost clearance	0.33	(1-1)	0.32	(1-1)



GROUND LINE ANGLES

- A Approach angle 52°
- B Interface angle/ramp to ground plane 132°
- C Departure angle 23°



10 x 16.5 tyres

OPERATING WEIGHT AND MACHINE RATING

SAE operating weight. Fully operational with quickhitch, standard GP shovel, full fuel tank, cab and 18" (450mm) excavator bucket.

Machine model	ICX kg (lb)
Weight (long arms with fixed dipper) plus GP shovel	3174 (6997)
Weight (long arms with extending dipper) plus GP shovel	3254 (7174)
Weight (short arms with fixed dipper) plus GP shovel	3158 (6962)
Weight (short arms with extending dipper) plus GP shovel	3238 (7138)
6 in 1 shovel +86 kg, low canopy -166 kg	

ENGINE

		ICX
Model		Perkins 404D-22
Displacement	litres	2.2
No. of cylinders		4
Fuel		Diesel
Cooling		Water
Bore	mm	84
Stroke	mm	100
Gross power @ 2800 rpm		
ISO 14396	kW (hp)	37.3 (50)
Gross torque @ 1800 rpm		
ISO 14396	Nm (lb/ft)	143 (105)
Emission certification		EC Stage IIIA/USA EPA Tier 3
Engine oil service intervals		500 hours

CONTROLS

Loader and Transmission:

Hydraulic over hydraulic servos reduce lever efforts to a minimum. Twin ergonomic joystick controls mounted on the seat are well positioned for easy use. Optional dual hand control pattern. Joystick mounted auxiliary control push buttons for straightforward control of attachments.

Excavator:

Standard ISO+ pattern control is logical as well as easy to both learn and operate. Optional SAE+ or JCB X-diagonal controls.

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. A proportional switch is mounted in the joystick to operate JCB's optional Extradig or hammer/bi-directional circuit to operate various attachments.

LIGHTING AND ELECTRICS

12 volt direct electric starting with 50 amp alternator and standard thermostart start aid.

- Heavy-duty harness with secured sealed connectors for protection 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.
- Standard battery 95A/hour low maintenance.

Ignition, working lights, park brake and detented auxiliary control switches mounted in right hand control panel.

Also incorporated in the side panel are the hourmeter and warning light cluster which includes a warning buzzer to draw operator's attention to any malfunction.

Located in the side panel is a well protected fuse box designed to keep dirt and grime out.

Relay box is positioned inside the console.

Road lighting is available as an option as is a reverse alarm.

Working lights are fitted as standard.

TRANSMISSION

Full servo controlled hydrostatic transmission giving zero to maximum speed, both forward and reverse, at full power.

Independent transmission systems for both the left and right side, controlled through servo hand controls for precise and easy operation.

Travel speeds 0 – 11 km/h forward and reverse.



OPERATOR ENVIRONMENT

Full ROPS/FOPS canopy with soundproofing.

- Seat belt fitted as standard.
- Exceptional all-round visibility.
- Optional front screen (canopy only).
- Fully glazed cab option.
- Low canopy option.
- JCB impact protection kit.
- Ergonomically designed controls.

BRAKES

The JCB hydrostatic transmission control provides the primary braking service.

For parking, the JCB fail safe braking system features oil-immersed, multi-disc brakes for long life and fade-free braking.

Operation is spring-on, hydraulic pressure off, activated through electrical parking brake switch.

TYRES

Standard 7 x 15 NHS 6PR
 Optional 10 x 16.5 NHS 6PR

The standard flotation tyres are fitted for most applications. For arduous conditions solid tyres are recommended. Grassland tyres are available for applications where ground disturbance needs to be minimised.

HYDRAULICS

In addition to the main hydrostatic drive pumps, there is a dedicated loader, backhoe and attachments supply pump. Both the main transmission and the loader controls are servo operated, for ease of use and precise control.

- Low lever efforts give excellent and easy control of transmission, loader, backhoe and attachments.
- Loader joystick incorporates rocker switch control of attachments.
- Full flow, spin-on type hydraulic oil filter.
- Engine oil throughout for ease of servicing.

Machine model	ICX	ICX HF
Pump flows @2800 rpm (open centre systems - gear pump)	l/min (gal/min)	l/min (gal/min)
Main pump output	45 (9.9)	100 (22)
System working pressure	bar (lbf/sq in)	bar (lbf/sq in)
Backhoe and loader	207 (3000)	220 (3188)

AUXILIARY CIRCUITS

The JCB hydraulic hand-held tool circuit, an industry exclusive, can run a variety of tools including breakers, pumps and disc cutters, eliminates the need for separate power packs.

Meets the EHTMA Class C tools operation.

Pressure 138 bar
 Maximum flow 20 lpm

The JCB Hammer and bi-directional circuit operates single and double acting attachments such as a hammer, earthdrill or kerb grab.

The optional hi-flow circuit provides 100 litres/min pump flow to the front of the machine for operation of high capacity attachments such as a patch planer or trencher.

SERVICE CAPACITIES

Machine model	ICX
	ltr (gal)
Hydraulic system incl. tank	45 (9.9)
Fuel tank	45 (9.9)
Chain cases	10 (2.2)
Engine coolant	8 (1.75)
Engine oil	9.6 (2.5)

STANDARD EQUIPMENT

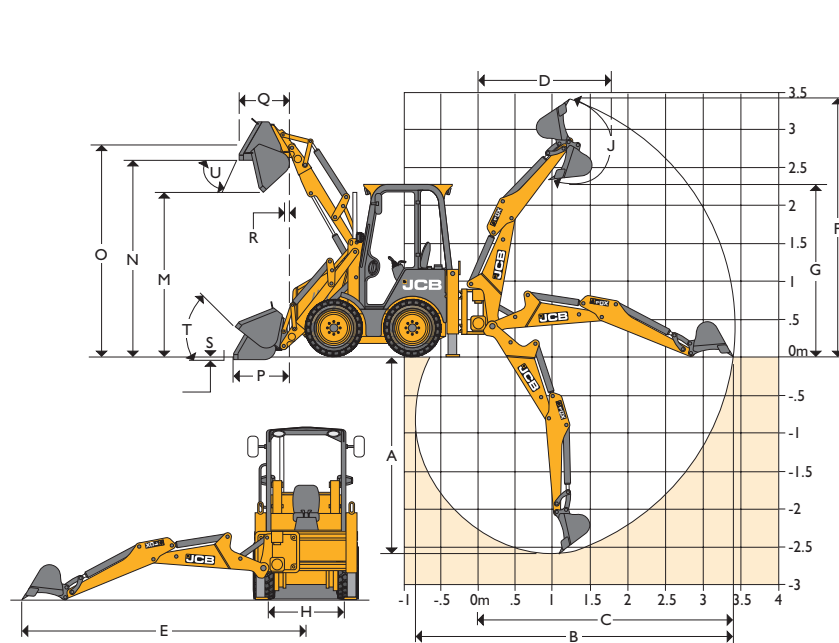
ROPS/FOPS canopy
Working lights
Hand and foot throttles
Seat mounted servo transmission and loader controls
Seatbelt
ISO+ manual excavator controls
Mechanical loader quickhitch
Self levelling



ICX SKID STEER BACKHOE LOADER | SPECIFICATION

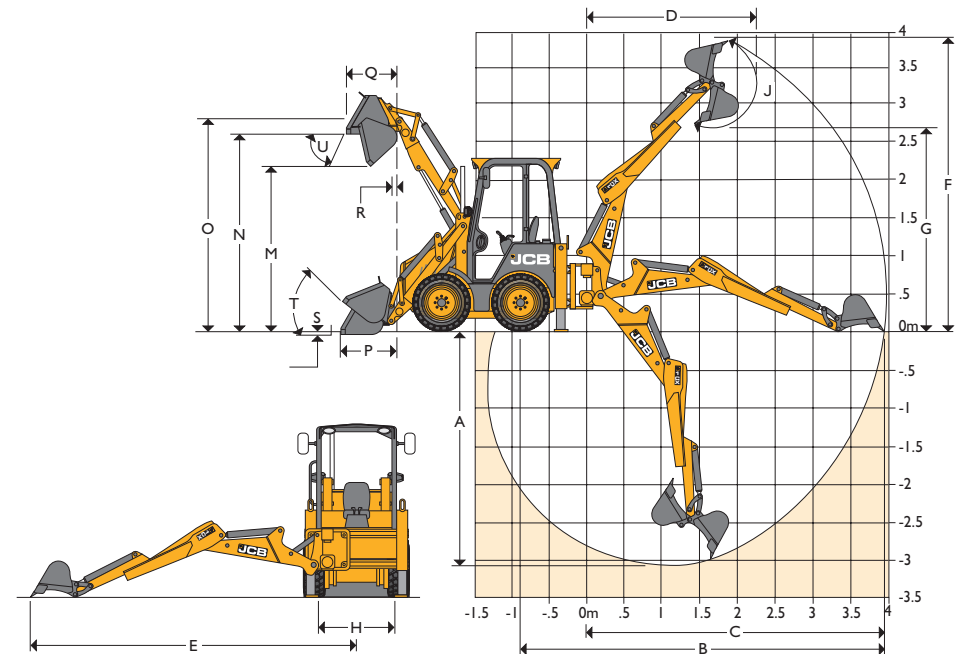
BACKHOE DIMENSIONS AND PERFORMANCE

Machine model		ICX (Fixed Dipper)	ICX (Extending Dipper)
A	SAE Maximum dig depth	m (ft-in) 2.55 (8-4)	3.08 (10-1)
	SAE Maximum dig depth 2ft flat bottom	m (ft-in) 2.49 (8-2)	3.02 (9-10)
B	SAE Reach - ground level to rear wheel centre	m (ft-in) 4.24 (13-11)	4.78 (15-8)
C	SAE Reach - ground level to slew centre	m (ft-in) 3.38 (11-1)	3.91 (12-10)
D	SAE Reach - at full height to slew centre	m (ft-in) 1.79 (5-10)	2.22 (7-3)
E	SAE Slide reach - to centre line of machine	m (ft-in) 3.83 (12-6)	4.35 (14-3)
F	SAE Maximum working height	m (ft-in) 3.44 (11-3)	3.86 (12-8)
G	SAE Maximum loadover height	m (ft-in) 2.35 (7-8)	2.67 (8-9)
H	SAE Total kingpost travel	m (ft-in) 0.99 (3-3)	0.99 (3-3)
J	SAE Bucket rotation	degrees 202	180
	SAE Bucket tearout	kgf (lb) 2201 (4852)	2201 (4852)
	SAE Dipper tearout	kgf (lb) 1488 (3280)	1488 (3280)



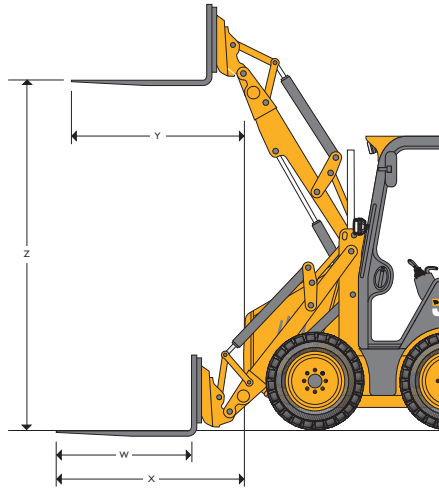
LOADER DIMENSIONS AND PERFORMANCE

Machine model		ICX Short Arms	ICX Long Arms
M	Dump height	m (ft-in) 2.10 (6-10)	2.15 (7-1)
N	Loadover height	m (ft-in) 2.51 (8-2)	2.59 (8-6)
O	Pin height	m (ft-in) 2.70 (8-10)	2.80 (9-2)
P	Reach at ground (toe plate horizontal)	m (ft-in) 0.84 (2-9)	0.91 (2-11)
Q	Max reach at full height	m (ft-in) 0.63 (2-1)	0.74 (2-5)
R	Reach at full height - fully dumped	m (ft-in) 0.30 (0-11)	0.40 (1-4)
S	Dig depth (toe plate horizontal) clearance	m (ft-in) 0.05 (0-2)	0.14 (0-5)
T	Rollback at ground	degrees 35	42
U	SAE Dump angle	degrees 50	43
	SAE loader breakout shovel	kgf (lb) 2350 (5179)	2350 (5179)
	SAE maximum hydraulic lift capacity	kgf (lb) 2400 (5290)	2400 (5290)
	Shovel capacity	0.28m ³ (0.30yd ³)	0.28m ³ (0.30yd ³)





LOADER ATTACHMENTS



LOADER ATTACHMENTS – Forklift Performance and Data

		Quickhitch mounted forks
		m (ft-in)
W	Fork length	1.05 (3-5)
	Section width	0.08 (0-3/8)
X	Reach at ground	1.50 (4.11)
Y	Reach at full height	1.34 (4-7)
Z	Fork lift height	2.72 (8.11)
	Fork spacing – min	0.2 (0-8)
	Fork spacing – max	1.03 (3-4)
	SWL @ 500mm load centres (short arms plus fixed dipper)	kg (lb) 466 (1027)
	SWL @ 500mm load centres (short arms plus extending dipper)	kg (lb) 513 (1130)
	SWL @ 500mm load centres (long arms plus fixed dipper)	kg (lb) 440 (970)
	SWL @ 500mm load centres (long arms plus extending dipper)	kg (lb) 454 (1000)

LOADER PERFORMANCE

	ICX	ICX
	kgf (lbf)	kgf (lbf)
Shovel type	GP shovel	6 in I
Shovel breakout	2350 (5179)	2350 (5179)
Loader breakout – arms	2400 (5290)	2400 (5290)

OPTIONAL EQUIPMENT

Fully glazed ROPS/FOPS cab
Road lights
Flashing beacon
Face level fan
External mirrors
SAE+ pattern excavator controls
JCB X-pattern excavator controls
Front loader auxiliary circuit
Front shovel float
Auxiliary hand held tool circuit
Excavator bucket quickhitch
Hammer/bi-directional auxiliary circuit
Large stabiliser feet
Stabiliser street pads
Grassland tread tyres
Reverse alarm
Fire extinguisher
Air filter pre-cleaner
Servo dual hand control pattern
Pallet forks and frame
Front screen guard

BACKHOE ATTACHMENTS – Standard Profile Bucket

Width*	Capacity SAE		Weight (+ Teeth)	
	Rated m ³ (ft ³)	Struck m ³ (ft ³)	kg (lb)	Teeth
230 (9)	0.03 (1)	0.02 (3/4)	51 (112)	2
305 (12)	0.04 (2 1/2)	0.04 (1 1/4)	52 (114)	3
460 (18)	0.06 (2)	0.05 (1 3/4)	54 (119)	3
610 (24)	0.08 (4 1/2)	0.06 (2 1/4)	57 (125)	4

DITCHING BUCKET

Width*	Capacity SAE		Weight
	Rated m ³ (ft ³)	Struck m ³ (ft ³)	kg (lb)
1000 (39)	0.12 (4 1/2)	0.10 (3 1/2)	52 (114)