

JCB BACKHOE LOADER | ICX



MAX. ENGINE POWER:

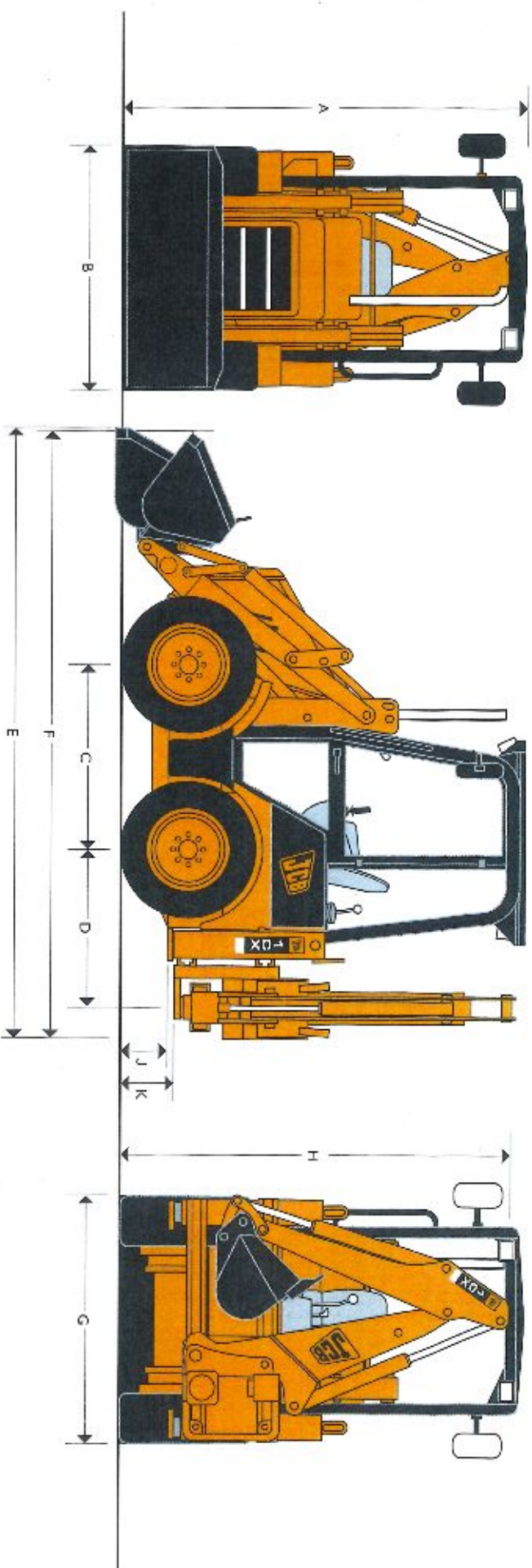
37.3kW (50hp)

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)
A Overall height	2.26 (7'4")	2.25 (7'4")	F Total travel length (Shovel in carry position)	3.31 (10'10")	3.31 (10'10")
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 centre line distance	1.07 (3'6")	1.07 (3'6")	H Height of boom in carry position	2.22 (7'3")	2.21 (7'3")
D Slew centre to rear axle centre distance	0.87 (2'10")	0.87 (2'10")	J Stabiliser foot clearance	0.27 (0'10")	0.26 (0'10")
E Total travel length	3.43 (11'2")	3.40 (11'2")	K Kingpost clearance	0.33 (1'1")	0.32 (1'1")

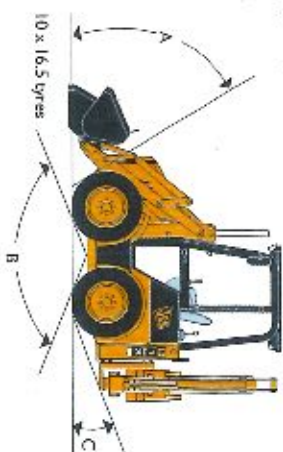


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GROUND LINE ANGLES

- A Approach angle 32°
- B Interface angle/ramp to ground plane 32°
- C Departure angle 23°



OPERATING WEIGHT AND MACHINE RATING

SAF operating weight. Fully operational with Quicktrac, standard shovel, full fuel tank, canopy and 18" (450mm) excavator bucket.

Machine model	ICX
Weight	kg (lb)
Loader rated operating capacity	2790 (6150)
Pallet fork operating capacity	610 (1346)
Tipping load @ 400mm load centre (FEC 86663)	480 (1060)
	960 (2120)

ENGINE

4 cylinder 401C-22 engine conforms with mobile off-highway emissions regulations 97/55/EC stage I/EPa Tier II, 4 stroke, diesel engine, indirect injection, naturally aspirated – 2.2 litres displacement. Water cooled.

Machine model	ICX
Displacement	2.2 lit
No. of cylinders	4
Power ratings	
SAE J1995 gross @ 2800rpm	kW (hp)
SAE J1349 and EEC 80/1269 net @ 2800rpm	kW (hp)
Torque ratings	
SAE J1995 gross @ 2000rpm	Nm (ft lb)
SAE J1349 and EEC 80/1269 net @ 2000rpm	Nm (ft lb)

Exhaust smoke R34.03. Engine oil service intervals: 500 hours. Fuel start glow plugs.

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: rear control pattern. Joystick mounted auxiliary control push buttons for strightforward control of attachments.

Excavator:

Standard ISO Plus pattern control is logical as well as easy to learn and operate. Optional: JCB Plus or original controls.

LIGHTING AND ELECTRICS

- 12 volt direct electric starting with 50 amp alternator and standard the modest start aid.
- Heavy duty harness with secured sealed connectors for protection against 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 weather penetration.
- Standard battery 95A (four low maintenance).
- Ignition, working lights, park brake and delayed 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.
- Rekey box is positioned inside the cab.
- Rear 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 sides, controlled through servo valve controls for precise and easy operation. Travel speeds 0 – 11km/h forward and reverse.

OPERATOR ENVIRONMENT

- Full ROPS/FOPS canopy with soundproofing.
- Fully adjustable seat.
- Seat belt fitted as standard.
- Exceptional all-round visibility.
- Optional front screen.
- Fully glazed cab option.
- Low canopy option.
- Ergonomically designed controls.



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BRAKES

The JCB hydrostatic transmission control provides the primary braking service. For parking, the JCB full 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.

STANDARD EQUIPMENT

ROPS/OPS canopy
Working lights
Hand and foot controls
Serial mounted servo controls
Seat-belt
ISO Plus excavator controls
Mechanical loader clutch/brake
Self-lubing

TYRES

Standard 7 x 15 NHIS 6PR
 Optional 10 x 6.5 NHIS 6PR
 The standard flotation tyres are fitted for most applications. For adverse conditions JCB Airboss 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 controlled, 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 throughput for ease of servicing.
- Optional hammer pipework.
- 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 cold planers and trenchers.
- Auxiliary hand tool circuit.

OPTIONAL EQUIPMENT

Fully glazed ROPS/OPS cab
Road lights
Flashing beacon
Front level fan
External mirrors
JCB system excavator controls
Auxiliary hydraulic supply to loader
Front shovel float
Auxiliary hand tool circuit
Excavator bucket full clutch
Excavator auxiliary circuit
Large stabilizer feet
Sweet pass
JCB Airboss tyres
Grassland tread tyres
Loader anti-dive system
Reverses alarm
Tire exit guide
Air filter dry-cleaner
Servo case control pattern

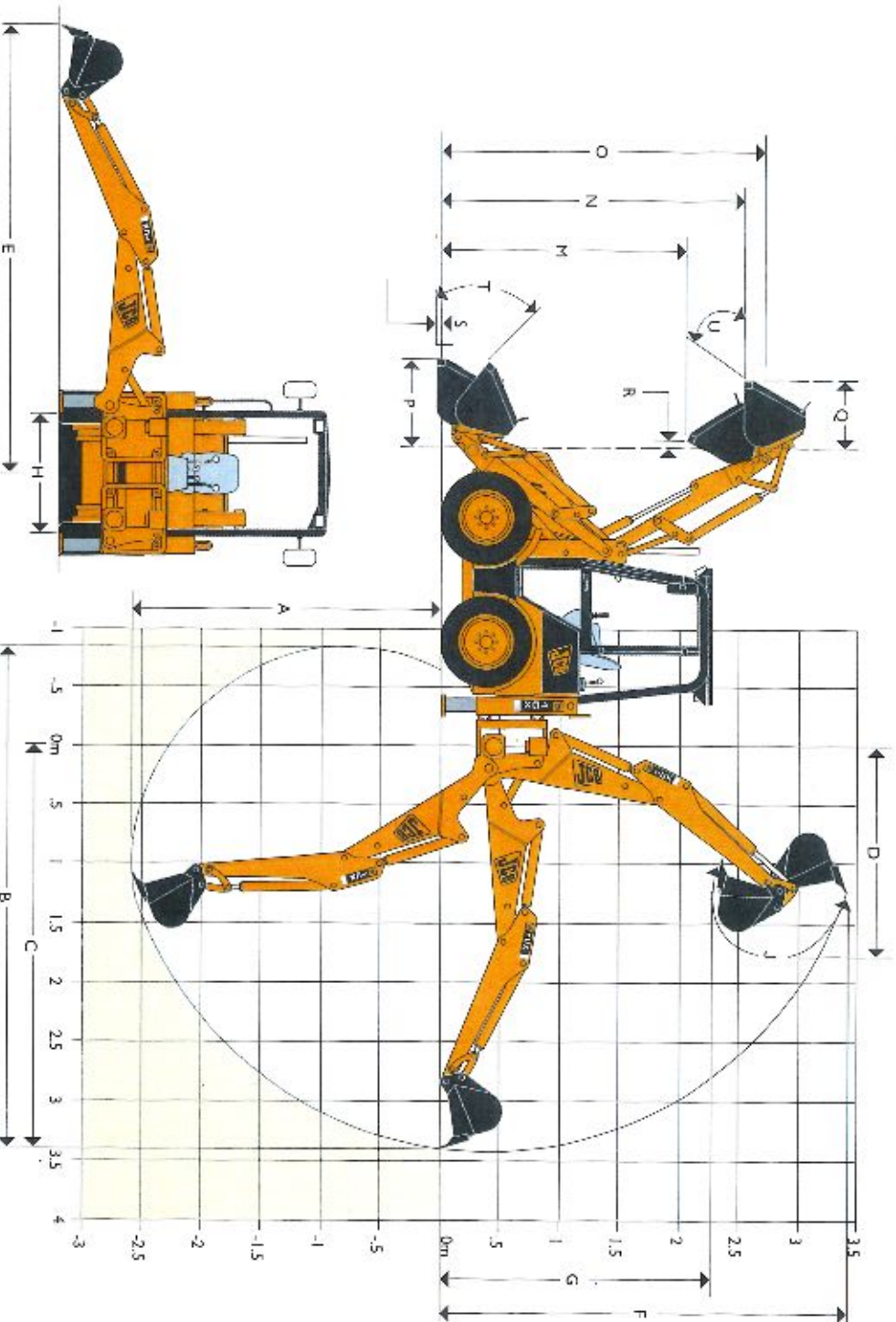
SERVICE CAPACITIES

Machine model	ICX
Pump flows @2800 rpm	l/min (gal/min)
Main pump output	45 (9.9)
System working pressure	bar (lb/sq in)
Backhoe and loader	207 (3000)

Machine model	ICX
Hydraulic system incl tank	ltr (gal)
Fuel tank	45 (9.9)
Chassis	45 (9.9)
Engine coolant	10 (2.2)
Engine oil	8 (1.75)
Engine oil	5 (1)



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BACKHOE DIMENSIONS AND PERFORMANCE

Machine model	ICX	ICX SM
A SAE Maximum dig depth	m (ft-in)	2.55 (8-4)
SAE Maximum dig depth 24" at bottom	m (ft-in)	2.49 (8-2)
B SAE Reach - ground level to rear wheel centre	m (ft-in)	4.24 (13-1)
C SAE Reach - ground level to slew centre	m (ft-in)	3.38 (11-1)
D SAE Reach - at full height to slew centre	m (ft-in)	1.79 (5-10)
E SAE Side reach - to centre line of machine	m (ft-in)	3.83 (12-6)
F SAE Maximum working height	m (ft-in)	3.44 (11-3)
G SAE Maximum loader height	m (ft-in)	2.35 (7-8)
H SAE Total kingpost travel	m (ft-in)	0.99 (3-3)
J SAE Bucket rotation	degrees	202
SAE Bucket breakout	kg (lb)	2201 (4852)
SAE Dipper lever out	kg (lb)	1488 (3280)

LOADER DIMENSIONS AND PERFORMANCE

Machine model	ICX	ICX SM
M Dump height	m (ft-in)	2.10 (6-10)
N Loader height	m (ft-in)	2.51 (8-2)
O Pn height	m (ft-in)	2.70 (8-10)
P Reach at ground (top plate horizontal)	m (ft-in)	0.84 (2-9)
Q Max reach at full height	m (ft-in)	0.63 (2-1)
R Reach at full height - fully dumper	m (ft-in)	0.30 (0-1)
S Dig depth (low state horizontal) clearance	m (ft-in)	0.05 (0-2)
T Rollback at ground	degrees	35
U SAE Dump angle	degrees	50
SAE Loader breakout - shovel	kg (lb)	2350 (5179)
SAE Maximum hydraulic lift capacity	kg (lb)	2400 (5290)
Shovel capacity	m ³ (yd ³)	0.26m ³ (0.30yd ³)