

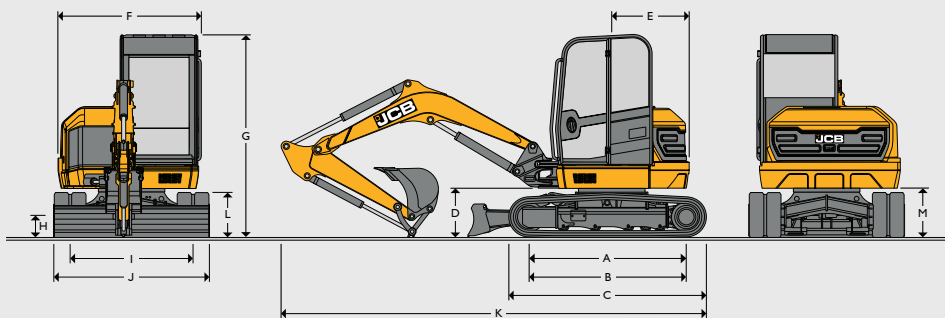


COMPACT EXCAVATOR | 50Z-1

Operating weight: 10,583lbs (4,800 kg) | Net engine power: 48 hp (36 kW)



STATIC DIMENSIONS



Machine model		50Z-I
A	Sprocket idler centers	ft-in (mm)
B	Track length on ground	ft-in (mm)
C	Undercarriage overall length – rubber	ft-in (mm)
	Undercarriage overall length – steel	ft-in (mm)
D	Kingpost clearance	ft-in (mm)
E	Tailswing radius	ft-in (mm)
F	Overall width of superstructure	ft-in (mm)
G	Height over cab	ft-in (mm)
H	Ground clearance	ft-in (mm)
I	Track gauge	ft-in (mm)
J	Width over tracks	ft-in (mm)
K	Transport length with standard dipper	ft-in (mm)
L	Track height	ft-in (mm)
M	Counterweight clearance	ft-in (mm)

ENGINE

		Standard
Machine model		50Z-I
Model		Stage 3A 404D-22
Fuel		Diesel
Cooling		Water cooled
Gross power ISO 14396	kW	35.7 (@ 2600rpm)
Net power	kW	33.1 (@ 2600rpm)
Gross torque ISO 14396	Nm	143 (@ 1800rpm)
Displacement	cc	2179
Gradeability	degrees	35
Starter motor	kW	2
Battery	volt / amps	12V / 75Ah
Alternator	amps (with A/C)	85

UNDERCARRIAGE

Machine model		50Z-I
No. of top rollers		1
No. of bottom rollers		4
Track width rubber (STD)	in (mm)	15.7 (400)
Ground bearing pressure (400 mm tracks)	psi (kg/cm ²)	4.2 (0.30)
Track tensioning		Grease
Travel speed – low	mph (kph)	18 (3)
Travel speed – high	mph (kph)	2.8 (4.6)
Tractive effort lbf (kN)	lbf (kN)	8,025 (35.7)

HYDRAULIC SYSTEM

Machine model		50Z-I
Pump	cc	63
Nominal output @2000 RPM	gpm (lpm)	33.2 (126)
Excavator/track main relief pressure	psi (bar)	3,480 (240)
Slew main relief pressure	psi (bar)	3,133 (216)
Auxiliary hydraulic pressure (Low)	psi (bar)	3,132 (190)
Auxiliary hydraulic pressure (High)	psi (bar)	2,755 (190)
Auxiliary hydraulic flow (Low)	gpm (lpm)	10.6 (40)
Auxiliary hydraulic flow (High)	gpm (lpm)	23.7 (90)
Hydraulic pump		Piston

WEIGHTS

Machine model		50Z-I
With FOGs guard – stage 1	lb (kg)	+ 35 (+ 16)
Aircon (includes FOGS guard-stage 1)	lb (kg)	+ 134 (61)
With 4 way dozer	lb (kg)	+ 482 (+219)
Hydraulic quickhitch installation weight	lb (kg)	+ 159 (+72.5)

* Operating weight to ISO 6016 including cab, rubber tracks, standard arm, 600 mm bucket, full tanks and a 165 lb operator.

* Operating weight with canopy only, 350 mm tracks, 1,450 mm dipper, 600 mm bucket, full tanks, 165 lb operator.

** Shipping weight to ISO 6016 is mass of the base machine without an operator, with the fuel level at 10% of tank capacity.

** Shipping weight with canopy only, base machine without an operator, with the fuel level at 10% of tank capacity.

SERVICE CAPACITIES

Machine model		50Z-I
Fuel tank	gallon (litres)	20 (76)
Engine coolant	gallon (litres)	Tier 4: 2.4 (9.2)
Engine oil	gallon (litres)	Tier 4: 2.1 (8) max
Hydraulic system	gallon (litres)	26.4 (100)
Hydraulic tank	gallon (litres)	14.5 (55)

OPERATOR ENVIRONMENT

Machine model		50Z-I
Cab/canopy height	ft-in (mm)	8-4 (2,551)
Cab/canopy height with FOGS guard LEVEL I	ft-in (mm)	8-4 (2,575)
Cab/canopy length	ft-in (mm)	4-2 (1,291)
Cab/canopy width	ft-in (mm)	3-4 (1,020)
Door aperture width	ft-in (mm)	1-9 (552)

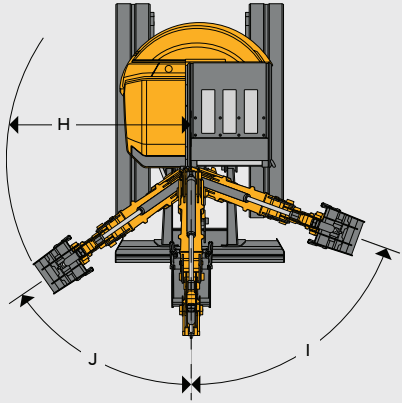
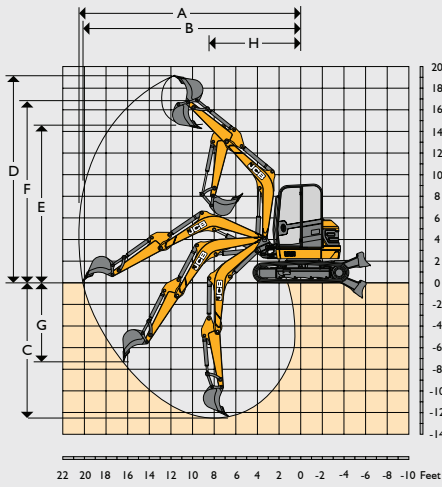
STANDARD EQUIPMENT

Fully-glazed ROPS & TOPS certified cab. Programmable, intermittent wiper with wash/wipe. Three-speed heater/demister with four adjustable air vents. Color LCD display. Digital clock. Internal lockable toolbox. Cup holder. Coat hook. Stowage net. 12V accessory socket. Interior light. Full audio/visual warning systems. Auto idle throttle. Below idle system. One touch idle. Four power bands (light, eco, heavy and heavy plus). ISO servo controls with electro-hydraulic dozer lever. Electro-proportional thumb controlled high flow single acting auxiliary, 10 selectable auxiliary flow rates. Joystick-mounted hammer switch. Neutral start. Full control isolation. "2GO" hydraulic isolation. Mid-back suspension seat. Removable floor mat. Beacon-ready kit. Two-speed tracking. Auto-kick down track motors. 15.7" (400 mm) short-pitch rubber tracks. Double element air cleaner. Heavy-duty alternator. Heavy-duty battery. Hydraulic slew braking with disc type park brake. ORFS hydraulics. Color-coded hydraulic hoses. 500-hour dig-end greasing intervals. Heavy-duty boom cylinder guard. Protected boom work light. Quick-release auxiliary couplers. 100% steel bodywork. Dedicated tie down and lifting points. JCB LiveLink.

OPTIONAL EQUIPMENT

Air-conditioning with 8 adjustable air vents. Adjustable sun visor. FOPS guard stage 1. Fan guards. High back seat or deluxe heated high back air-suspension seat. Radio installation. Electro-proportional thumb controlled low-flow auxiliary. Hose burst check valve lifting kit (dozer, boom & dipper). Bucket-to-grab change over valve. Mechanical quick coupler. Hydraulic quick hitch. Hydraulic quick hitch-ready pipework. General purpose digging eco bucket. Ditch/grading eco buckets. Hydraulic hammer. Rotating/strobe beacon. Toolkit. Grease gun and cartridge. Fire extinguisher. Exterior cab-mounted mirrors. Interior mirror. JCB Immobilizer (unique key or keypad system). Dozer float. Four-way angled dozer blade. Dual-pattern controls (ISO/SAE change-over). Thumb-ready dipper. Special paint options. LED or halogen work lights (either, with follow me home function). ROPS & TOPS certified canopy. Tilt/rotate-ready installation. Media socket. Radio ready kit. Work light guards (cab). Arm/crowd ram guards. Rear view angled mirror. Impact protection front screen. Bushed king post. Electronic single/double-acting change over valve.

WORKING RANGE



		50Z-I
Arm length	ft-in (mm)	5-1 (1,570)
Boom length	ft-in (mm)	8-10 (2,700)
A Maximum digging reach	ft-in (mm)	20-0 (6,119)
B Maximum digging reach on ground	ft-in (mm)	19-8 (5,995)
C Maximum digging depth – dozer up	ft-in (mm)	11-9 (3,606)
Maximum digging depth – dozer down	ft-in (mm)	12-7 (3,843)
D Maximum digging height	ft-in (mm)	18-6 (5,664)
E Maximum dump height	ft-in (mm)	14-0 (4,274)
F Maximum height to dipper nose pivot pin	ft-in (mm)	16-3 (4,970)
G Maximum vertical wallcut depth	ft-in (mm)	6-8 (2,052)
H Minimum front swing radius (no offset)	ft-in (mm)	8-7 (2,641)
Minimum front swing radius (fully offset)	ft-in (mm)	7-1 (2,160)
I Boom swing left	degrees	70
J Boom swing right	degrees	55
Bucket rotation	degrees	181
Arm rotation	degrees	121
Bucket tearout	lbf (kN)	8,542 (38)
Arm tearout	lbf (kN)	4,945 (22)
Slew speed	rpm	8.3

DOZER

Machine model		50Z-I
Dozer length	ft-in (mm)	3-8 (1,141)
Maximum height above ground	ft-in (mm)	1-5 (433)
Dig depth below ground	ft-in (mm)	1-6 (464)
Approach angle	degrees	31 (31)
Width	ft-in (mm)	6-5 (1,962)
Height	ft-in (mm)	1-3 (400)


LIFT CAPACITIES – 15.75IN (400 MM) RUBBER TRACKS, 112.8IN (2,866 MM) BOOM, 71.6 IN (1,820 MM) ARM, NO BUCKET.
50Z-I

Load Point	6ft 6in (2m)	9ft 10in (3m)	13ft 1in (4m)	16ft 4in (5m)	Max Capacity Full Reach
ft-in	lbs (kg)	lbs (kg)	lbs (kg)	lbs (kg)	lbs (kg)
A1		2088 (947)	1345 (610)	933 (423)	933 (423)
A2		1715 (778)	1166 (529)	877 (398)	877 (398)
A3	3234 (1467)	1716 (778)	1164 (528)	1005 (456)	1005 (456)



ONE COMPANY, MORE THAN 300 MACHINES.

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Download the very latest information on this product range at www.jcb.com

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