

MINI EXCAVATOR



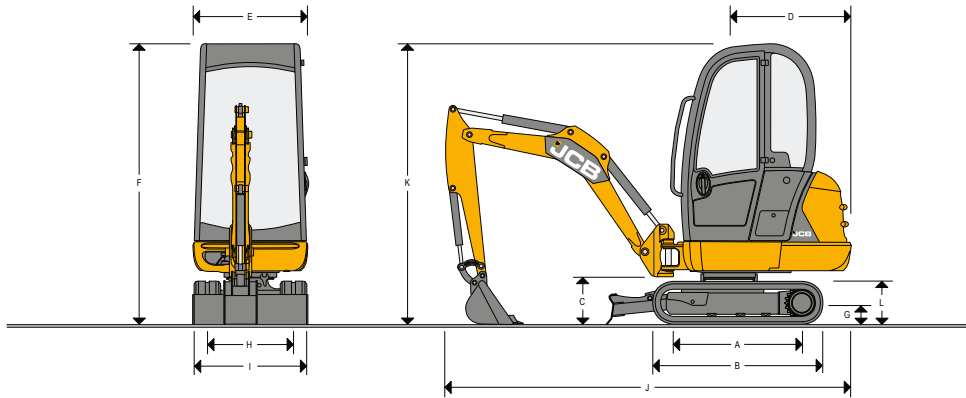
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STATIC DIMENSIONS



Machine model		8018 CTS
A Sprocket idler centres	mm (ft-in)	1127 (3-8)
B Undercarriage overall length	mm (ft-in)	1484 (5-10)
C Kingpost clearance	mm (ft-in)	394 (1-3½)
D Tailswing radius	mm (ft-in)	1080 (3-6½)
E Overall width of superstructure	mm (ft-in)	996 (3-3¼)
F Height over cab	mm (ft-in)	2318 (7-7)
G Ground clearance	mm (ft-in)	158 (0-6)
H Track gauge	mm (ft-in)	750 to 1110 (2-5½ to 3-7¼)
I Width over tracks (retracted)	mm (ft-in)	980 (3-2½)
I Width over tracks (extended)	mm (ft-in)	1340 (4-5)
J Transport length – Standard dipper	mm (ft-in)	3523 (11-6¼)
J Transport length – Long dipper	mm (ft-in)	3467 (11-4½)
J Transport length – Gravemaster dipper	mm (ft-in)	3265 (10-8½)
K Transport height with FOGS guard	mm (ft-in)	2340 (7-8¼)
K Transport height without FOGS guard	mm (ft-in)	2318 (7-7¼)
L Track height	mm (ft-in)	366 (1-2)

ENGINE

Model		403D-11 Tier III
Fuel		Diesel
Cooling		Water cooled
Gross power ISO 14396	kW (hp) @ 2200 rpm	14.7 (19.7)
Nett power	kW (hp) @ 2200 rpm	14.2 (19)
Gross torque ISO 14396	Nm (lbf ft) @ 1600 rpm	66.8 (49.27)
Nett torque	Nm (lbf ft) @ 1600 rpm	64.2 (47.35)
Displacement	cc / litres	1131 / 1.131
Gradeability	degrees	35
Starter motor	kW (hp)	1.1 (1.48)
Battery	volt / Ah	12v / 60
Alternator	amps	40



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UNDERCARRIAGE

No of bottom rollers		3
Track width	mm (in)	230 (9)
Ground bearing pressure	kg/cm² (lb/in²)	0.33 (4.69)
Ground clearance	mm (in)	158 (6)
Track tensioning		Grease
Travel speed – low	kph (mph)	2.2 (1.37)
Travel speed – high	kph (mph)	3.9 (2.42)
Tractive effort (nominal)	kN (lbf)	13.8 (3102)

OPERATOR ENVIRONMENT

		External	Internal
Cab/canopy height with FOGS guard	mm (ft-in)	2318 (7-7)	2269 (7-5)
Cab/canopy height no FOGS guard	mm (ft-in)	2304 (7-6½)	2269 (7-5)
Cab/canopy length	mm (ft-in)	1171 (3-11)	1073 (3-6)
Cab/canopy width	mm (ft-in)	974 (3-2)	888 (2-11)
Distance from seat base to roof	mm (ft-in)	1223 (4-0)	
Door aperture width	mm (ft-in)	624 (2-0½)	

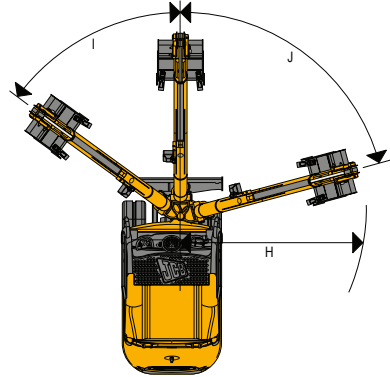
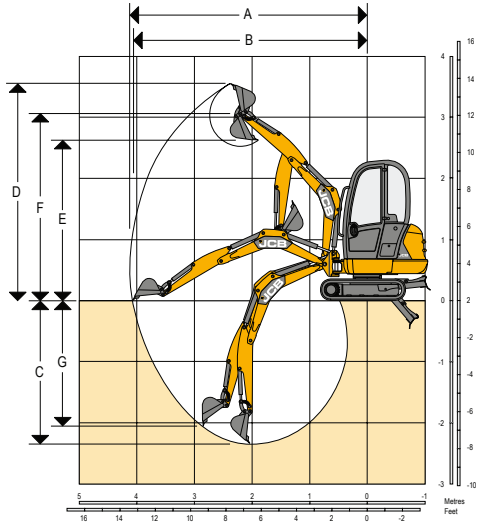
SERVICE CAPACITIES

Fuel tank	litres (US gal)	23.5 (6.2)
Engine coolant	litres (US gal)	5 (1.3)
Engine oil	litres (US gal)	4 (1.0)
Hydraulic system	litres (US gal)	28 (7.4)
Hydraulic tank	litres (US gal)	25 (6.6)

DOZER BLADE

Max height (above ground)	mm (ft-in)	168 (0-6½)
Dig depth (below ground)	mm (ft-in)	454 (1-6)
Approach angle	degrees	17
Width	mm (ft-in)	1000 (3-3)
Width (extended)	mm (ft-in)	1380 (4-6¼)
Height	mm (ft-in)	248 (0-9¼)
Reach in front of tracks	mm (ft-in)	404 (1-4)

WORKING RANGE



Boom length	mm (ft-in)	1807 (5-11¼)	1807 (5-11¼)	1807 (5-11¼)
Dipper length	mm (ft-in)	1161 (3-10)	1261 (4-2)	1500 (4-11)
A Max digging reach	mm (ft-in)	4121 (13-6½)	4222 (13-10¼)	4449 (14-7¼)
B Max digging reach on ground	mm (ft-in)	4073 (13-4¼)	4170 (13-8¼)	4401 (14-5¼)
C Max digging depth – dozer up	mm (ft-in)	2343 (7-8¼)	2442 (8-0¼)	2682 (8-9½)
Max digging depth – dozer down	mm (ft-in)	2736 (8-11¼)	2836 (9-3¼)	3075 (10-1)
D Max digging height	mm (ft-in)	3555 (11-8)	3620 (11-10½)	3774 (12-4½)
E Max dump height	mm (ft-in)	2628 (8-7½)	2692 (8-10)	2846 (9-4)
F Max height to dipper nose pivot pin	mm (ft-in)	3054 (10-0¼)	3118 (10-2¾)	3272 (10-8¾)
G Max vertical wallcut depth	mm (ft-in)	2053 (6-8¾)	2148 (7-0½)	2376 (7-9½)
H Min. front swing radius (no offset)	mm (ft-in)	1638 (5-4¼)	1654 (5-5¼)	1693 (5-6¼)
Min. front swing radius (fully offset)	mm (ft-in)	1427 (4-8¼)	1442 (4-8¼)	1477 (4-10¼)
I Boom swing left	degrees	55	55	55
J Boom swing right	degrees	75	75	75
Bucket rotation	degrees	198	198	198
Dipper rotation	degrees	121	121	121
Bucket tearout	kN (lbf)	16.2 (3642)	16.2 (3642)	13.7 (3079)
Dipper tearout	kN (lbf)	9.2 (2068)	8.3 (1866)	7.1 (1596)
Slew speed	rpm	8.1	8.1	8.1



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EEC NOISE LEVELS (95/27/EC DYNAMIC)

Cab external sound	dB (Lw A)	93
Cab internal sound	dB (Lp A)	77

MACHINE WEIGHTS

Operating weight*	kg (lb)	1822 (4016)
With canopy	kg (lb)	-80 (-176)
With FOGS guard	kg (lb)	+25 (+55)
With long dipper	kg (lb)	+2 (+41/2)
With Gravemaster dipper	kg (lb)	+7 (+151/2)

*Operating weight to ISO 6016 including cab, rubber tracks, standard dipper, 300mm (12in) bucket, full tanks and a 75kg (165lb) operator.

STANDARD EQUIPMENT	ROPS & TOPS certified canopy, full audio/visual warning systems, slew travel lock, control isolator, external lockable toolbox, 12v power socket, lifting points, rubber tracks, 2 speed tracking, hydraulically extending undercarriage, ISO servo controls, static seat, boom worklight, double acting auxiliary circuit, triple section gear pump, extendable dozer blade, 1161mm (3ft-10in) dipper, bushed kingpost, steel bushes in dipper nose and bucket link, tilting cab.
OPTIONAL EQUIPMENT	ROPS & TOPS certified fully glazed cab with steel lower door (includes heater, interior light, door holdback latch with internal/external release, gas strut assisted front screen), suspension seat, dual pattern controls (ISO/SAE change-over), cab/canopy mounted worklights, 1261mm (4ft-2in) long dipper, 1500mm (4ft-11in) Gravemaster dipper*, dipper pipework, hand held tool circuit, variable displacement pump, engine fan guard kit, FOPS roof guard, mirror, track pedals, toolkit, radio, biodegradable hydraulic oil, fire extinguisher, sunblind (cab builds), battery isolator, travel alarm, immobiliser, yellow roof moulding, 9 digging buckets (160mm to 760mm (6in to 30in)), 2 ditching/grading buckets (900mm & 1000mm (35in and 39in)), hydraulic breakers, earthdrills, mechanical quickhitch, hydraulic kerb-lifter, rotating or strobe beacon, toolkit and greasgun, heavy-duty track tension, JCB impact protection front screen.