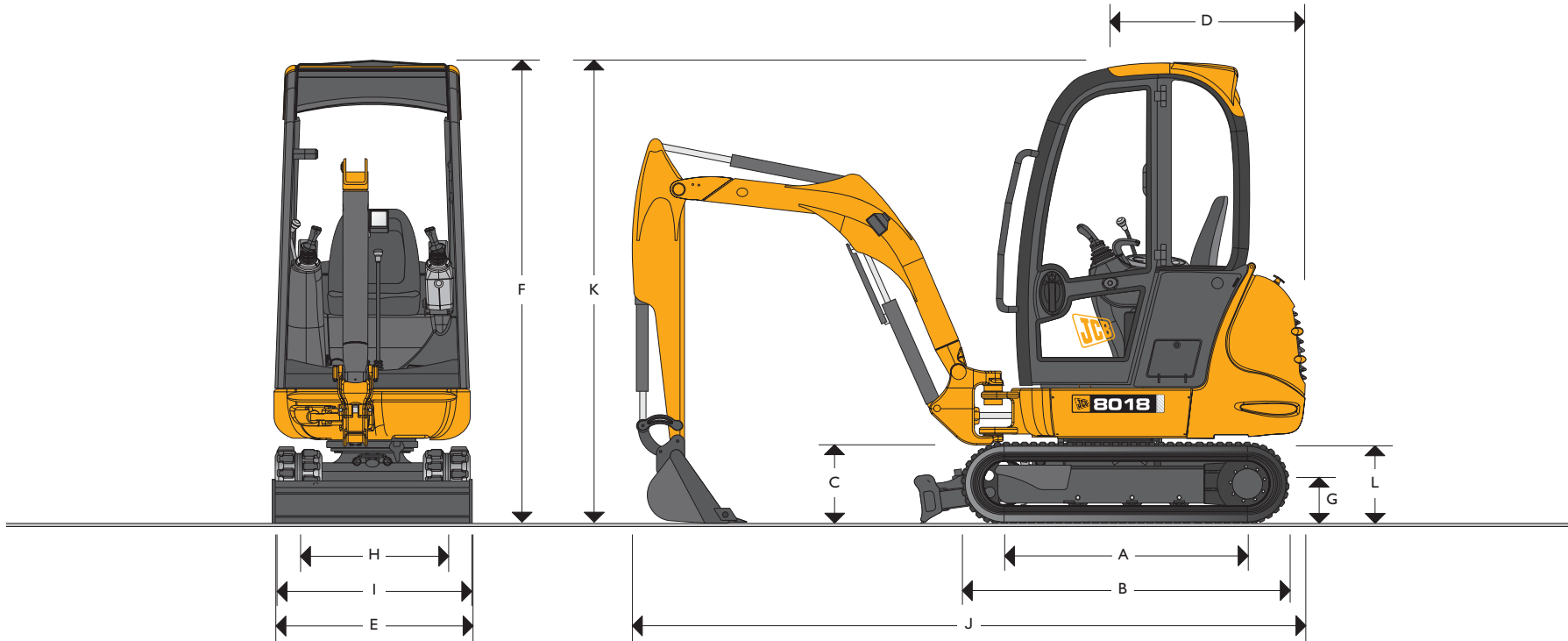




JCB MINI EXCAVATORS | 8018



OPERATING WEIGHT: 3664 lbs (1662 kg)
 NET ENGINE POWER: 19 HP (14.2 kW) Tier III



STATIC DIMENSIONS

Machine model	8018 ft-in (mm)
A Sprocket idler centers	3-8 (1127)
B Undercarriage overall length	5-10 (1484)
C Kingpost clearance	1-3 (376)
D Tailswing radius	3-4½ (1028)
E Overall width of superstructure	3-2½ (980)
F Height over cab	7-7 (2318)
G Ground clearance	0-6 (158)
H Track gauge	2-5½ to 3-7¾ (750 to 1110)

Machine model	8018 ft-in (mm)
I Width over tracks (retracted)	3-2½ (980)
Width over tracks (extended)	4-5 (1340)
J Transport length – Standard dipper	11-2½ (3418)
J Transport length – Long dipper	11-0 (3352)
J Transport length – Gravemaster dipper	10-6¾ (3219)
K Transport height with FOGS guard	7-7 (2318)
K Transport height without FOGS guard	7-6½ (2304)
L Track height	1-2 (366)

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ENGINE

Machine Model	8018	
Model	403D-11	
Fuel	Diesel	
Cooling	Water cooled	
Gross power	HP (kW) @ 2200 rpm	19.7 (14.7)
Net power	HP (kW) @ 2200 rpm	19 (14.2)
Gross torque	lbf ft (Nm) @ 1900 rpm	49.3 (66.8)
Net torque	lbf ft (Nm) @ 1900 rpm	47.4 (64.2)
Displacement	CID (cc)	69 (1131)
Gradeability	degrees	35
Starter motor	HP (kW)	1.5 (1.1)
Battery	volt / Ampere/hour	12v / 60Ah
Alternator	amps	40
Emission Certification	EPA T3 (EU St3)	

UNDERCARRIAGE

Machine model	8018	
No of bottom rollers	3	
Track width	in (mm)	9 (230)
Ground bearing pressure	lb/in ² (kg/cm ²)	4.55 (0.32)
Ground clearance	in (mm)	6 (158)
Track tensioning	Grease	
Travel speed – low	mph (kph)	1.24 (2)
Travel speed – high	mph (kph)	2.36 (3.8)
Tractive effort	lbf (kN)	2540 (11.3)

OPERATOR ENVIRONMENT

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

HYDRAULIC SYSTEM – 8018

	Standard gear pump	Optional variable pump
Pump	Triple section Gear	1 Variable (2 Ports) / 1 Gear
Nominal output	Lpm	43.6 (15.7 x 15.7 x 12.2)
Nominal output	US gal/min	11.5 (4.15 x 4.15 x 3.2)
Excavator/track main relief	psi (bar)	3336 (230)
Slew main relief	psi (bar)	2321 (160)
Auxiliary hydraulic flow	US gal (liters)	8.3 (31.3)
Hydraulic motors	Piston	Piston

MACHINE WEIGHTS

Machine model	8018	
Operating weight*	lb (kg)	3664 (1662)
Transport weight	lb (kg)	3499 (1587)
With canopy	lb (kg)	-176 (-80)
With FOGS guard	lb (kg)	+55 (+25)
With long dipper	lb (kg)	+4½ (+2)
With Gravemaster dipper	lb (kg)	+15½ (+7)

*Operating weight to ISO 6016 including cab, rubber tracks, standard dipper, 18in (460mm) bucket, full tanks and a 165lb (75kg) operator.

DOZER BLADE

Machine model		8018	
		Standard	Long
Max height (above ground)	ft-in (mm)	0-7 (178)	0-10½ (270)
Dig depth (below ground)	ft-in (mm)	0-11½ (292)	1-5¼ (438)
Approach angle	degrees	26.5	22.5
Width	ft-in (mm)	3-3 (1000)	3-3 (1000)
Width (extended)	ft-in (mm)	4-6¼ (1380)	4-6¼ (1380)
Height	ft-in (mm)	0-9 (225)	0-10¾ (273)
Reach in front of tracks	ft-in (mm)	0-8 (202)	1-5½ (442)

SERVICE CAPACITIES

Machine model	8018	
Fuel tank	US Gal (liters)	6.2 (23.5)
Engine coolant	US Gal (liters)	1.32 (5)
Engine oil	US Gal (liters)	1.05 (4)
Hydraulic system	US Gal (liters)	7.4 (28)
Hydraulic tank	US Gal (liters)	6.6 (25)



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STANDARD EQUIPMENT – 8018

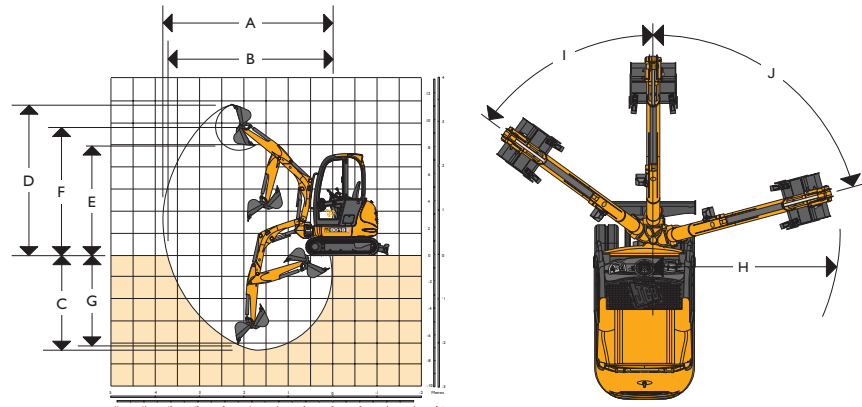
ROPS & TOPS certified canopy, full audio/visual warning systems, slew travel lock, control isolator, external lockable toolbox, 12v power socket, lifting points, rubber tracks, 2 speed auto-shift tracking, hydraulically extending undercarriage, dual pattern controls (ISO/SAE change-over), static seat, boom worklight, double acting auxiliary circuit, boom cylinder protection, triple section gear pump, extendable dozer blade, 3ft-10in (1161mm) dipper.

OPTIONAL EQUIPMENT – 8018

ROPS & TOPS certified fully glazed cab (includes heater, interior light, cigar lighter, door holdback latch with internal/external release, gas strut assisted front screen), suspension seat, cab/canopy mounted worklights, 4ft-2in (1261mm) long dipper, 4ft-11in (1500mm) Gravemaster dipper*, long dozer blade, dipper pipework, hand held tool circuit, variable displacement pump, engine fan guard kit, FOGS 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 (6in to 30in (160mm to 760mm)), 2 ditching/grading buckets (35in and 39in (900mm & 1000mm)), hydraulic breakers, earthdrills, mechanical quickhitch, hydraulic curb-lifter. *Auxiliary pipework is not available with Gravemaster dipper option.

WORKING RANGE

Machine model		8018		
Dipper length	ft-in (mm)	3-10 (1161)	4-2 (1261)	4-11 (1500)
A Max digging reach	ft-in (mm)	12-11 (3933)	13-2½ (4028)	13-11½ (4254)
B Max digging reach on ground	ft-in (mm)	12-8 (3865)	12-11 (3949)	13-8¾ (4184)
C Max digging depth – dozer up	ft-in (mm)	7-0 (2142)	7-4 (2242)	8-1½ (2477)
Max digging depth – dozer down	ft-in (mm)	8-1 (2470)	8-5 (2570)	9-2½ (2805)
D Max digging height	ft-in (mm)	11-4 (3460)	11-6½ (3519)	12-0 (3660)
E Max dump height	ft-in (mm)	8-5 (2568)	8-7 (2626)	9-0¾ (2765)
F Max height to dipper nose pivot pin	ft-in (mm)	9-9 (2973)	9-11 (3032)	10-4¾ (3172)
G Max vertical wallcut depth	ft-in (mm)	5-9 (1750)	6-0½ (1845)	6-10 (2082)
H Min. front swing radius (no offset)	ft-in (mm)	5-7½ (1715)	5-8½ (1739)	5-10½ (1791)
Min. front swing radius (fully offset)	ft-in (mm)	5-0 (1529)	5-1 (1552)	5-2 (1574)
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	112	112	112
Bucket tearout	lbf (kN)	3642 (16.2)	3642 (16.2)	–
Dipper tearout	lbf (kN)	2068 (9.2)	1866 (8.3)	–
Slew speed	rpm	10	10	10



8018 LIFT CAPACITIES – Standard Dozer, 230 (9in) Rubber Tracks, 1261mm (4ft 2in) dipper, No bucket.

Load Point	3ft 11in (1.2m)				4ft 11in (1.5m)				6ft 7in (2m)				8ft 2½in				Capacity at maximum reach				
	Dozer up	Dozer down	Retracted	Extended	Dozer up	Dozer down	Retracted	Extended	Dozer up	Dozer down	Retracted	Extended	Dozer up	Dozer down	Retracted	Extended	Dozer up	Dozer down	Retracted	Extended	Distance
ft-in (m)	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft-in (m)
4-11 (1.5)													441	448	481	478	381	511	317	518	11-3 (3430)
3-3 (1)					761	805	761	763	672	694	672	675	571	595	553	556	443	545	282	556	11-53¼ (3500)
1-8 (0.5)					1058	1250	703	1124	866	1025	582	917	608	739	465	683	381	597	276	437	11-53¼ (3500)
Ground Level	1052	1676	847	1407	882	1422	697	1155	728	1105	531	1054	575	833	432	805	362	602	304	476	11-01¼ (3360)
- 1-8 (-0.5)	1023	2072	829	1202	871	1528	692	1107	677	1199	516	895	496	829	401	679	381	648	335	514	10-31/2 (3140)
- 3-3 (-1)	966	1594	822	1230	732	1362	626	1038	635	1228	520	847	489	866	395	657	414	714	333	562	9-6 (2900)



A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into one of the world's largest manufacturers of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders and tractors.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in the world.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with an extensive dealer sales and service network in over 150 countries, we aim to deliver the best customer support in the industry.

Through setting the standards by which others are judged, JCB has become one of the world's most impressive success stories.



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