

NEW



## 8018 Conventional Tail Swing Compact Excavator

Operating Weight: 4017 lbs / 4557 lbs Net Engine Power: 19 HP

JCB

# QUALITY, RELIABILITY AND STRENGTH

SMALL BUT TOUGH, OUR JCB 8018 COMPACT EXCAVATORS ARE BUILT TO WORK. LIKE ALL JCBS, THEY BOAST EXCEPTIONAL BUILD QUALITY, SUPERB RELIABILITY AND COLOSSAL STRENGTH.

## High-strength undercarriage

**1** With adjustable wear pads on its track extensions, an 8018 CTS will give you a long service life and a firm, positive, quiet ride during tracking.

**1** For ultimate rigidity the extending undercarriage beams are constructed from 1 in. solid steel plate.

**2** The 8018 CTS have high-strength box section dozer blades which can withstand impacts from curbs and manhole covers. Dozer blade hoses are protected by a steel plate.

**3** The high quality short pitch tracks perform in the most difficult applications.

## Built to last

**4** JCB uses state-of-the-art manufacturing processes to achieve ultimate build quality, reliability, durability, service life and machine uptime. Our in-house paint process is a case in point, guaranteeing quality and lasting protection.





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### Quality above all

- 5 To optimize durability and service life, we've fitted replaceable steel bushes to the swing bracket, arm nose and bucket tipping link. This also provides smooth and accurate operation.
- 6 An 8018 CTS' hydraulic hoses (including the auxiliary) are routed through the boom and dipper for ultimate damage protection.
- 7 Zero risk of inadvertently damaging the boom cylinder during hammering or loading activities due to the new positioning of the top mounted boom cylinder.
- 8 The 8018 CTS use the very latest sealing technology – O-ring face trapezoidal seal hydraulics minimize leaks.
- 9 The optional lower steel door prevents costly glass breakages.



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We've redesigned the rear structure for improved damage protection on site – there's a new  $\frac{1}{8}$  in. thick steel hood and an inset rear counterweight grill.

**QUALITY, RELIABILITY, AND STRENGTH**



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# PERFORMANCE AND PRODUCTIVITY

WHILE A JCB 8018 CTS IS EXTREMELY STRONG, IT'S ALSO HIGHLY MANEUVERABLE, AND BOASTS CLASS-LEADING PERFORMANCE: THE PERFECT COMBINATION FOR ANY COMPACT EXCAVATOR.



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## Higher, further, deeper

- 1 Our 8018 CTS excavators have class-leading lift capacity, courtesy of a large lift cylinder, centrally-positioned swing bracket and a low center of gravity.
- 2 An 8018 CTS uses new dig-end geometry, providing extra reach, load-over height, and dig depth for class-leading excavation performance.

## Versatility

- 3 You can choose from JCB's huge range of specially-designed 8018 CTS attachments. They provide ultimate performance, full JCB warranty compliance, and optimum fit and operation.
- 4 A handheld tool circuit option means that the 8018 CTS can power a wide range of JCB hydraulic tools, from breakers and augers to pumps and cutters.



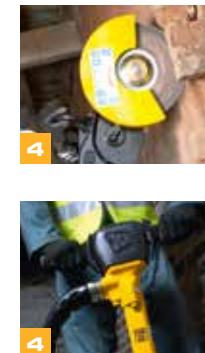
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## Built for productivity

**5** A solid, stable work platform improves productivity, versatility and operator confidence.

**6** Stability is increased further still with an extending undercarriage. In addition to this, retracting the undercarriage improves access to confined areas.

**7** A powerful 19 hp engine produces high torque at low revs, providing ample power for even the most demanding tasks.

Our 8018 CTS have impressive bucket breakout forces (3,642 lbf/4271 lbf respectively). Combined with fast cycle times, this allows you to do more work in less time.

**8** Our new hydraulic block valve allows you to travel in a straight line at the same time as selecting excavator functions, increasing productivity.

**9** We've designed the dozer blade profile for supremely efficient material roll. This means grading performance is improved during dozing.

**10** The 8018 CTS machines have excellent load hold capability, which means their excavator arms can be accurately controlled, especially during precise lift and placing tasks.

**11** Because an 8018 CTS has an operating weight of just 4017lbs/4557lbs, it can be easily towed to wherever you need it.



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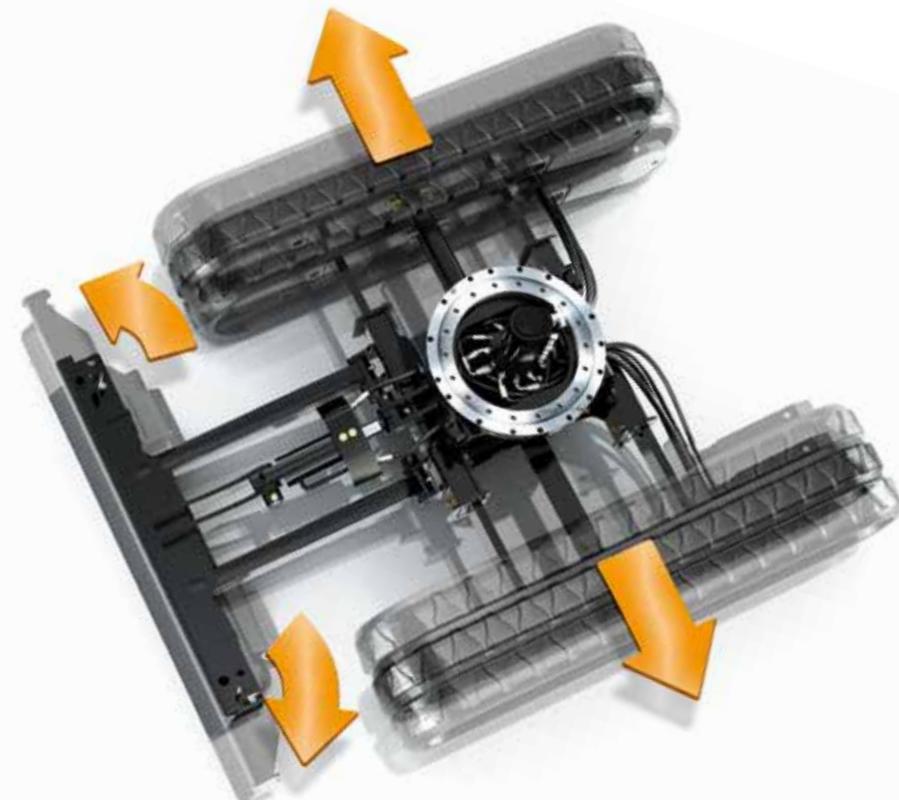
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## EASE OF OPERATION

THE JCB 8018 CTS MACHINES ARE DESIGNED TO MINIMIZE OPERATOR EXERTION, AND THEREFORE MAXIMIZE OPERATOR PRODUCTIVITY. CONTROLLABILITY, COMFORT, VISIBILITY, MAINTENANCE AND SAFETY ARE ALL BUILT IN.

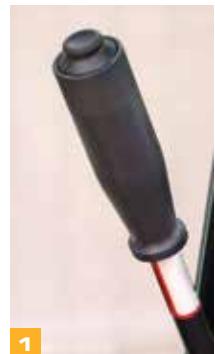
### In perfect control

- 1 The 8018 CTS have a two-speed tracking button on the dozer lever that's easy and intuitive to use.
- 2 The new hydraulic valve block results in smooth, controlled, precise and balanced operation of excavator functions.

### Comfortably, visibly better

- 3 We've used a one-piece seat base on the 8018 CTS; this reduces machine vibration and provides high levels of operator comfort.

- 4 The short pitched tracks engage every tooth on the sprocket for less vibration and noise, and a far smoother ride.
- 5 A large glass area and low hood profile provide excellent all-round visibility, including to the front right-hand track.
- 6 Dozer extensions swing out easily on an 8018 CTS, allowing operators to quickly and easily shift the dozer wings.



## Designed for easy maintenance

**7** By improving the cab tilt angle by 17%, we've increased service access on an 8018 CTS still further (it was already best-in-class). This design eliminates the need to work through restrictive floor hatches during servicing.

**8** Wide-opening rear hood is supported by a gas strut for easy access to routine checks. We've grouped all daily service points to make servicing quick and easy. The push-button hood latch and gas strut provide effortless service access.

**9** All hoses are color coded for quick and easy identification in the event of accidental damage.

**10** All 8018 CTS services, including tracking and dozer, are isolated when the control pod is raised.



## Safe and sound

**11** We offer fluorescent paint and reflective decal options to make the machine more visible in low light conditions.

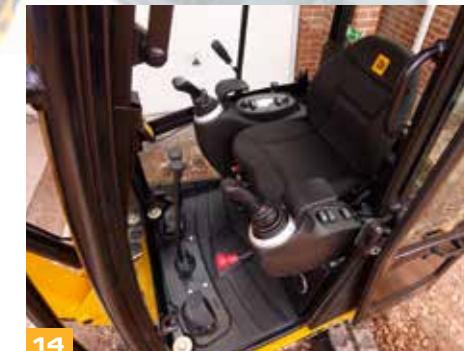
**12** JCB's optional impact protection front screen shields the operator from flying debris when using breakers.

**13** We've fitted tinted cab glass as standard to reflect the sun's energy, increasing operator comfort.

**14** A large lockable external toolbox provides safe tool stowage.

**15** The large door opening gives easy entry and exit.

**16** An optional operator presence switch means an 8018 CTS can't be operated unless its operator is in the seat.



## LIVELINK, WORK SMARTER

JCB LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MONITOR AND MANAGE YOUR MACHINES REMOTELY – ONLINE, BY EMAIL OR BY MOBILE PHONE.

### Productivity and cost benefits –

Machine location information can improve fleet efficiency and you may even enjoy reduced insurance costs courtesy of the added security that LiveLink brings.

\* Note: Please consult your local dealer for Livelink availability



**Maintenance benefits** – Accurate hours monitoring, maintenance history records, critical machine alerts and service alerts improve maintenance planning.

**Security benefits** – Real-time geofencing lets you set operating zones and curfew alerts that tell you when your machinery outside of pre-determined times. Location information helps you store machines safely.

## VALUE ADDED

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.



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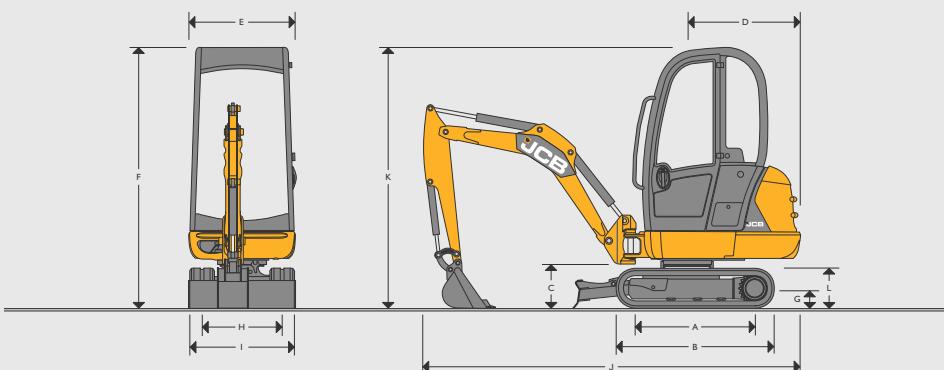


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1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labor rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.

2 The global network of JCB Parts Centers is another model of efficiency; with 15 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.

**STATIC DIMENSIONS****Machine model**

		<b>8018 CTS</b>
A	Sprocket idler centres	ft-in (mm)
B	Undercarriage overall length	ft-in (mm)
C	Swing Bracket clearance	ft-in (mm)
D	Tailswing radius	ft-in (mm)
	Tailswing over track	ft-in (mm)
E	Overall width of superstructure	ft-in (mm)
F	Height over cab	ft-in (mm)
G	Ground clearance	ft-in (mm)
H	Track gauge	ft-in (mm)
I	Width over tracks (retracted)	ft-in (mm)
	Width over tracks (extended)	ft-in (mm)
J	Transport length – Standard arm	ft-in (mm)
J	Transport length – Long arm	ft-in (mm)
J	Transport length – Gravemaster arm	ft-in (mm)
K	Transport height with FOGS guard	ft-in (mm)
K	Transport height without FOGS guard	ft-in (mm)
L	Track height	ft-in (mm)

**ENGINE**

		<b>8018 CTS</b>
Machine model		
Model		403D-II
Fuel		Diesel
Cooling		Water cooled
Gross power ISO 14396	hp (kW) @ 2200 rpm	19.7 (14.7)
Net power	hp (kW) @ 2200 rpm	19 (14.2)
Gross torque ISO 14396	lbf ft @ 1600 rpm	49.3
Net torque	lbf ft @ 1600 rpm	47.4
Displacement	Cubic in./Gallons	69 / .30
Gradeability	degrees	35
Starter motor	hp (kW)	1.48 (1.1)
Battery	volt / Ah	12v / 60
Alternator	amps	40

**UNDERCARRIAGE**

	<b>8018 CTS</b>
No of bottom rollers	3
Track width	ft-in (mm)
Ground pressure	lbs/in <sup>2</sup>
Ground clearance	ft-in (mm)
Track tensioning	Grease
Travel speed – low	mph (kph)
Travel speed – high	mph (kph)
Traction effort	lbf (kN)

**HYDRAULIC SYSTEM**

	<b>8018 CTS</b>	
Machine model	Standard gear pump	Optional variable pump
Pump	Triple section Gear	1 Variable (2 Ports) / 1 Gear
Nominal output	gpm	11.5(4.2 x 4.2 x 3.2) 12.4(4.5 x 4.5 x 3.4)
Excavator/track main relief	psi (bar)	3336 (230)
Slew main relief	psi (bar)	2321 (160)
Auxiliary hydraulic flow	gpm (lpm)	(26)
Hydraulic motors		Piston

**OPERATOR ENVIRONMENT**

	<b>8018 CTS</b>
Machine model	
Cab/canopy length	ft-in (mm)
Cab/canopy width	ft-in (mm)
Distance from seat base to roof	ft-in (mm)
Door aperture width	ft-in (mm)

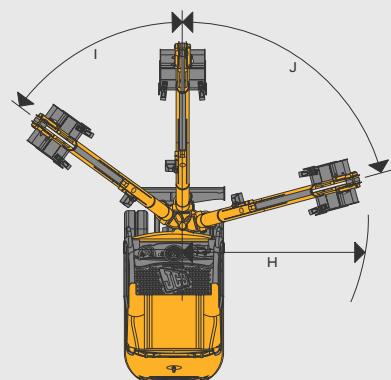
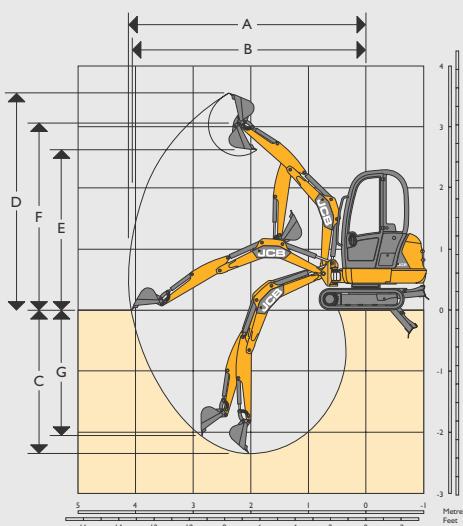
**SERVICE CAPACITIES**

	<b>8018 CTS</b>
Machine model	
Fuel tank	US gal (litres)
Engine coolant	US gal (litres)
Engine oil	US gal (litres)
Hydraulic system	US gal (litres)
Hydraulic tank	US gal (litres)

**DOZER BLADE**

	<b>8018 CTS</b>
Machine model	
Max height (above ground)	ft-in (mm)
Dig depth (below ground)	ft-in (mm)
Approach angle	degrees
Width	ft-in (mm)
Width (extended)	ft-in (mm)
Height	ft-in (mm)
Reach in front of tracks	ft-in (mm)

## WORKING RANGE



Machine model	8018 CTS		
	5-11 (1807)		
Boom length	ft-in (mm)		
A Max digging reach	ft-in (mm)	3-10 (1161)	4-2 (1261)
B Max digging reach on ground	ft-in (mm)	13-6 (4121)	13-10 (4222)
C Max digging depth – dozer up	ft-in (mm)	7-8 (2343)	8-0 (2442)
Max digging depth – dozer down	ft-in (mm)	9-0 (2736)	9-4 (2836)
D Max digging height	ft-in (mm)	11-8 (3555)	11-11 (3620)
E Max dump height	ft-in (mm)	8-7 (2628)	8-10 (2692)
F Max height to arm nose pivot pin	ft-in (mm)	10-0 (3054)	10-3 (3118)
G Max vertical wallcut depth	ft-in (mm)	6-9 (2053)	7-1 (2148)
H Min. front swing radius (no offset)	ft-in (mm)	5-4 (1638)	5-5 (1654)
Min. front swing radius (fully offset)	ft-in (mm)	4-8 (1427)	4-9 (1442)
I Boom swing left	degrees	55	
J Boom swing right	degrees	75	
Bucket rotation	degrees	198	
Arm rotation	degrees	121	
Bucket breakout force	lbf (kN)	3642 (16.2)	
Arm breakout force	lbf (kN)	2068 (9.2)	1866 (8.3)
Slew speed	rpm	8.1	

## EEC NOISE LEVELS (95/27/EC DYNAMIC)

Machine model	8018 CTS	
Cab external sound	dB (LwA)	93
Cab internal sound	dB (LpA)	77

## MACHINE WEIGHTS

Machine model	8018 CTS	
Operating weight*	lb (kg)	4017 (1822)
With canopy	lb (kg)	-176 (-80)
With FOGS guard	lb (kg)	+55 (+25)
With long arm	lb (kg)	+4 (+2)
With Gravemaster arm	lb (kg)	+15 (+7)

\*Operating weight to ISO 6016 including cab, rubber tracks, standard arm, 1ft bucket, full tanks and a 165lbs operator.

## STANDARD EQUIPMENT

**8018 CTS**  
ROPS & TOPS certified canopy, full audio/visual warning systems, slew travel lock, control isolator, external lockable toolbox, 12v power socket, lifting points, short pitch 9 in. rubber tracks, 2 speed tracking, hydraulically extending undercarriage, ISO servo controls, static seat, boom worklight, double acting auxiliary circuit, triple section gear pump, straight line travel circuit, extendable dozer blade, top mounted boom ram, 3'10" arm, bushed swing bracket, steel bushes in arm nose and bucket link, tilting cab, 3mm pressed steel hood.

## OPTIONAL EQUIPMENT

**8018 CTS**  
ROPS & TOPS certified fully glazed cab with steel or glass lower door (includes heater, interior light, door holdback latch with internal/external release, gas strut assisted front screen), 9" steel tracks, suspension seat, dual pattern controls (ISO/SAE change-over), cab/canopy mounted worklights, 4'2" long arm, 4'11" Gravemaster arm\*, arm auxiliary pipework extensions, hand held tool circuit, variable displacement pump, engine fan guard kit, FOPS roof guard, external mirror, track pedals, toolkit, radio, biodegradeable hydraulic oil, fire extinguisher, sunblind (cab builds), battery isolator, travel alarm, immobiliser, external fuel filler with lockable cap, inclinometer kit, rotating or strobe beacon, toolkit and greasegun, heavy-duty recoil track tensioner, JCB impact protection front screen, dozer streetpads, counterweight protection bumper kit, front and rear bolt on tie down points, high visibility reflective decal kit, worklight guards, Ezidig cable detector ready kit, customised paint, object lifting kit, 9 digging buckets (6" to 30"), 2 ditching/grading buckets (35" & 39"), hydraulic breakers, earthdrills, mechanical quickhitch, hydraulic kerb-lifter.

LIFT CAPACITIES – Standard dozer, 230mm rubber tracks, 1161mm dipper, no bucket.																			8018 CTS		
Load Point	Reach from slew centre								Capacity at maximum reach												
	8ft 2in (1.5m)				9ft 11in (2.0m)				11ft 6in (2.5m)				13ft 1in (3.0m)								
Height	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	
ft-in (m)	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft-in	
4-1 (1.5)									739*	511	739*	739*	712*	395	712*	529	540	335	668*	412	11-2
3-3 (1)					1142*	728	1142*	1142*	922*	527	922*	683	787*	401	787*	505	518	322	653*	390	11-6
1-8 (0.5)	1466	886			1087	653	1468*	827	774	489	994*	631	615	381	776*	481	500	309	626*	386	11-8
Ground Level	1367	860	1918*	1160	985	628	1420*	796	772	481	1069*	613	597	379	763*	448	500	333	586*	379	11-6
-1-8 (-0.5)	1464	831	1678*	1124	941	608	1296*	794	721	474	981*	608	721*	379	721*	472	595*	337	595*	408	11-0
-3-3 (-1)	1376*	758	1376*	1043	1113*	593	1113*	785	827*	467	827*	593	593*	386	593*	461	536*	386	536*	536*	10-2

LIFT CAPACITIES – Standard Dozer, 230mm Rubber Tracks, 1261mm dipper, No bucket.																			8018 CTS		
Load Point	Reach from slew centre								Capacity at maximum reach												
	8ft 2in (1.5m)				9ft 11in (2.0m)				11ft 6in (2.5m)				13ft 1in (3.0m)								
Height	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	Extended	Retracted	Dozer down	Dozer up	
ft-in (m)	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft-in	
4-1 (1.5)									672*	672*	672*	556	675*	414	675*	511	518	322	642*	410	11-6
3-3 (1)					1027*	712	1027*	1027*	855*	511	855*	778	745*	406	745*	509	494	298	615*	388	12-0
1-8 (0.5)					1124	661	1351*	831	816	494	1030*	617	650	388	774*	467	487	293	595*	364	12-0
Ground Level	1367	877	1975*	1076	1003	646	1466*	794	754	474	1049*	604	595	379	820*	481	487	306	582*	368	12-0
-1-8 (-0.5)	1356	794	1649*	1038	977	611	1287*	761	739	463	946*	586	615	368	723*	470	560*	317	560*	406	11-4
-3-3 (-1)	1323*	785	1323*	1047	1149*	575	1149*	776	844*	456	844*	593	633*	364	633*	476	542*	348	542*	542*	10-6

 Lift capacity front.

Notes: 1. Lifting capacities are based on ISO 10567, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is the less. Lifting capacities marked\* are based on hydraulic capacity.

 Lift capacity full circle.

2. Lift capacities assume that the machine is on firm, level ground and equipped with an approved lifting point.

3. A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities.

4. Lift capacities may be limited by local regulations. Please refer to your dealer.



ONE COMPANY, OVER 300 MACHINES.

### 8018 CTS Compact Excavator

Operating Weight: 4017 lbs/4557 lbs Net Engine Power: 19 hp

Your nearest JCB Dealer

### JCB North American – Headquarters

Savannah. 2000 Bamford Blvd., Savannah, Georgia, 31322 Tel: (912) 447-2000

Download the very latest information on this product range at [www.jcb.com](http://www.jcb.com)

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