

NEW

8018 CTS | MINI EXCAVATOR



8018 CTS Mini Excavator

Operating Weight: 1822kg | Net Engine Power: 14.2kW



QUALITY, RELIABILITY AND STRENGTH

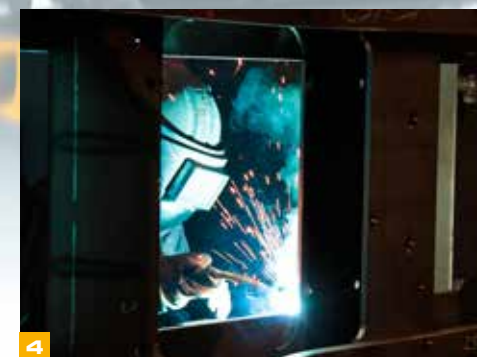
SMALL BUT TOUGH, THE JCB 8018 CTS IS BUILT TO WORK. LIKE ALL JCBs, IT BOASTS EXCEPTIONAL BUILD QUALITY, SUPERB RELIABILITY AND COLOSSAL STRENGTH.

High-strength undercarriage

- 1 With adjustable wear pads on its track extensions, the 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 25mm solid steel plate.
- 2 The 8018 CTS' high-strength box section dozer blade can withstand impacts from kerbs and man hole covers, while dozer blade hoses are protected by a steel plate.
- 3 The high quality 230mm wide short pitch tracks perform in the most arduous 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.



We've redesigned the rear structure for improved damage protection on site – there's a new 3mm thick steel bonnet and an inset rear counterweight grill.

Quality above all

5 To optimise durability and service life, we've fitted replaceable steel bushes to the kingpost, dipper nose and bucket tipping link. This also provides smooth and accurate operation.

6 The 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 lorry/skip loading activities due to the new positioning of the top mounted boom cylinder.

8 The 8018 CTS uses the very latest sealing technology – O-ring face trapezoidal seal hydraulics minimise leaks.

9 The optional lower steel door averts costly glass breakages.



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PERFORMANCE AND PRODUCTIVITY

WHILST THE JCB 8018 CTS IS EXTREMELY STRONG, IT'S ALSO HIGHLY MANOEUVRABLE, AND BOASTS CLASS-LEADING PERFORMANCE. THE PERFECT COMBINATION FOR ANY MINI EXCAVATOR.



Higher, further, deeper

1 The 8018 CTS has class-leading lift capacity, courtesy of a large lift ram, centrally-positioned kingpost and a low centre of gravity.

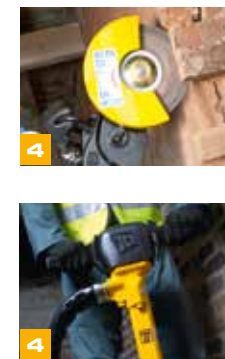
2 The 8018 uses new dig-end geometry for class-leading excavation performance: 2.34m depth, 4.12m reach, 2.62m height.



Versatility

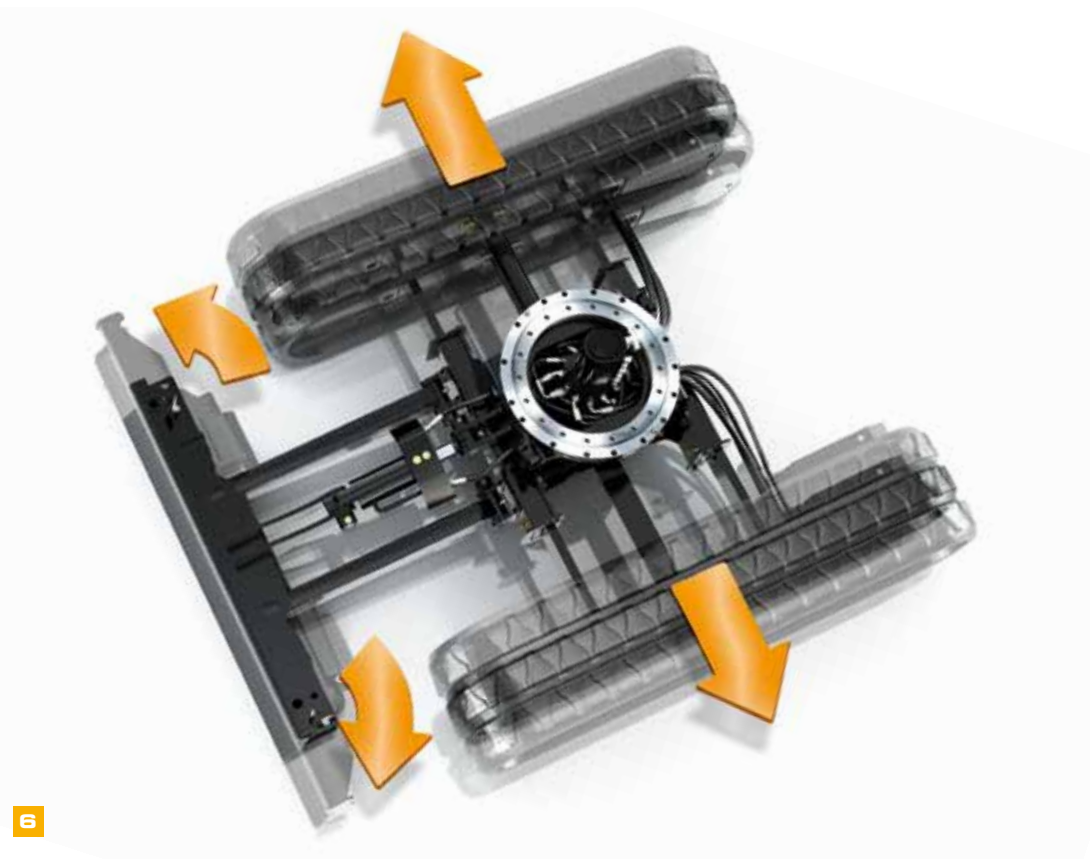
3 You can choose from JCB's huge range of specially-designed 8018 CTS attachments. They provide ultimate performance, full JCB warranty compliance, and optimum fit and operation.

4 A handheld tool circuit option means that the 8018 CTS can power a wide range of JCB hydraulic tools, from breakers and drills to pumps and cutters.



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 14.2kW engine produces high torque at low revs, providing ample power for even the most demanding tasks.
- 7 The 8018 CTS' tearout is a class-leading 16.4kN. 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.
- 8 We've designed the dozer blade profile for supremely efficient material roll. This means grading performance is improved during dozing.
- 9 The 8018 CTS has excellent load hold capability, which means its excavator arm can be accurately controlled especially during precise lift and placing tasks.
- 10 Because the 8018 CTS has an operating weight of just 1822kg, it can be easily towed to wherever you need it.



EASE OF OPERATION

THE JCB 8018 CTS IS DESIGNED TO MINIMISE OPERATOR EXERTION, AND THEREFORE MAXIMISE OPERATOR PRODUCTIVITY. CONTROLLABILITY, COMFORT, VISIBILITY, MAINTENANCE AND SAFETY ARE ALL BUILT IN.

In perfect control

1 The 8018 has 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 bonnet profile provide excellent all-round visibility, including to the front right-hand track. As a result, the 8018 doesn't need mirrors to meet EU regulations.

6 Dozer extensions swing out easily on the 8018 CTS, allowing operators to quickly and easily shift the dozer wings.



Designed for easy maintenance

7 By improving the 8018 CTS' cab tilt angle by 17%, we've increased service access 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 bonnet 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 bonnet latch and gas strut provide effortless service access.

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

10 All 8018 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.

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

Our Thatcham approved* immobiliser can help reduce insurance rates by up to 40%.

13 A large lockable external toolbox provides safe tool stowage.

14 The large door opening gives easy entry and exit.

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

*Region specific

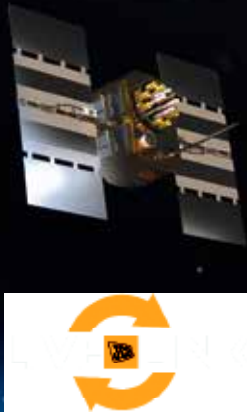


LIVELINK, KNOWLEDGE IS POWER

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.



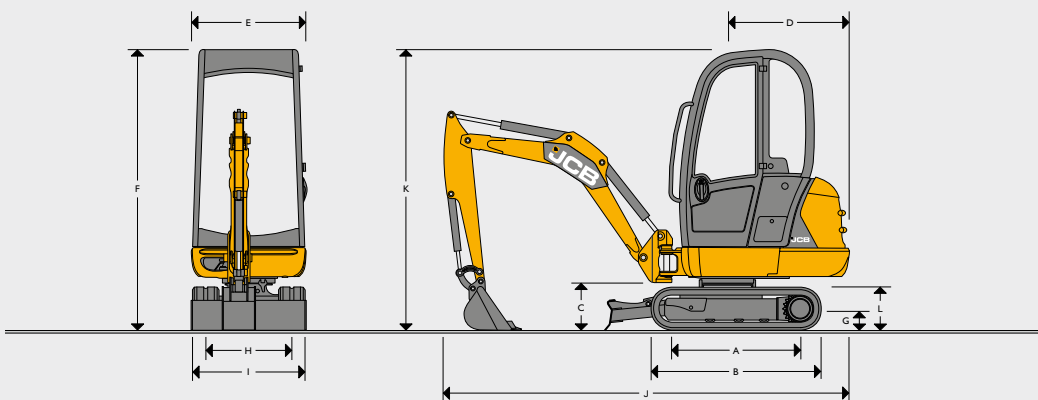
1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

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 labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.



2 The global network of JCB Parts Centres is another model of efficiency; with 16 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		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)
	Width over tracks (extended)	mm (ft-in) 1340 (4-5)
J	Transport length – Standard dipper	mm (ft-in) 3523 (11-6¾)
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

UNDERCARRIAGE

No of bottom rollers		3
Track width	mm (in)	230 (9)
Ground bearing pressure	kg/cm ² (lb/in ²)	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)

HYDRAULIC SYSTEM

		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)	46.9 (17.1 x 17.1 x 12.7)
Nominal output	UK gal/min	11.5 (3.6 x 3.6 x 3.2)	12.4 (4.5 x 4.5 x 3.4)
Excavator/track main relief	bar (psi)	230 (3336)	230 (3336)
Slew main relief	bar (psi)	160 (2321)	160 (2321)
Auxiliary hydraulic flow	lpm (UK gal/min)	26 (6.8)	26 (6.8)
Hydraulic motors		Piston	Piston

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)	

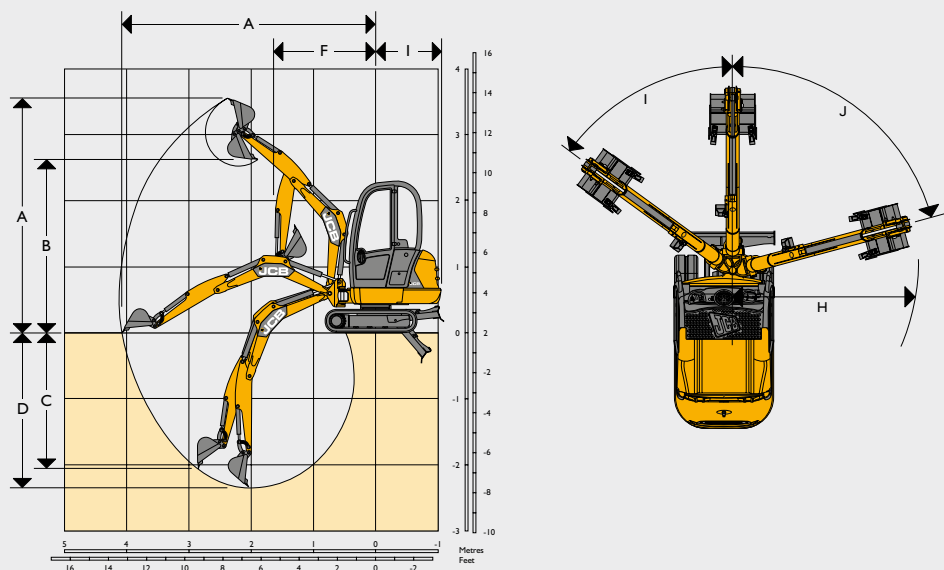
SERVICE CAPACITIES

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 (0-9¾)
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 (8-11¾)	2836 (9-3¾)	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 (5-6¾)
Min. front swing radius (fully offset)	mm (ft-in)	1427 (4-8¼)	1442 (4-8¾)	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

EEC NOISE LEVELS (95/27/EC DYNAMIC)

Cab external sound	dB (LwA)	93
Cab internal sound	dB (LpA)	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 (+15 1/2)


*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, 1161 mm (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, 1261 mm (4ft-2in) long dipper, 1500mm (4ft-11 in) 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.

LIFT CAPACITIES – Standard dozer, 230mm (9in) rubber tracks, 1161mm (3ft 10in) dipper, no bucket.

Load Point	Reach from slew centre																				Distance
	1.5m (4ft 11in)				2.0m (6ft 7in)				2.5m (8ft 2½in)				3.0m (9ft 10in)				Capacity at maximum reach				
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	Distance
m (ft-in)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm (ft-in)
1.5 (4-11)									335*	232	335*	335*	323*	179	323*	240	245	152	303*	187	3400 (11-2)
1 (3-3)					518*	330	518*	518*	418*	239	418*	310	357*	182	357*	229	235	146	296*	177	3500 (11-5¼)
0.5 (1-8)	665	402			493	296	666*	375	351	222	451*	286	279	173	352*	218	227	140	284*	175	3550 (11-7¾)
Ground Level	620	390	870*	526	447	285	644*	361	350	218	485*	278	271	172	346*	203	227	151	266*	172	3500 (11-5¼)
-0.5 - (1-8)	664	377	761*	510	427	276	588*	360	327	215	445*	276	327*	172	327*	214	270*	153	270*	185	3350 (11-0)
-1 - (3-3)	624*	344	624*	473	505*	269	505*	356	375*	212	375*	269	269*	175	269*	209	243*	175	243*	243*	3100 (10-2)

 Lift capacity front and rear.


 Lift capacity full circle.

- 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.
 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.

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

Load Point	Reach from slew centre																				Distance
	1.5m (4ft 11in)				2.0m (6ft 7in)				2.5m (8ft 2½in)				3.0m (9ft 10in)				Capacity at maximum reach				
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	Distance
m (ft-in)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm (ft-in)
1.5 (4-11)									305*	305*	305*	252	306*	188	306*	232	235	146	291*	186	3500 (11-5¼)
1 (3-3)					466*	323	466*	466*	388*	232	388*	353	338*	184	338*	231	224	135	279*	176	3650 (11-1½)
0.5 (1-8)					510	300	613*	377	370	224	467*	280	295	176	351*	212	221	133	270*	165	3650 (11-1½)
Ground Level	620	398	896*	488	455	293	665*	360	342	215	476*	274	270	172	372*	218	221	139	264*	167	3650 (11-1½)
-0.5 - (1-8)	615	360	748*	471	443	277	584*	345	335	210	429*	266	279	167	328*	213	254*	144	254*	184	3450 (11-3¾)
-1 - (3-3)	600*	356	600*	475	521*	261	521*	352	383*	207	383*	269	287*	165	287*	216	246*	158	246*	246*	3200 (10-6)

 Lift capacity front and rear.

 Lift capacity full circle.

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