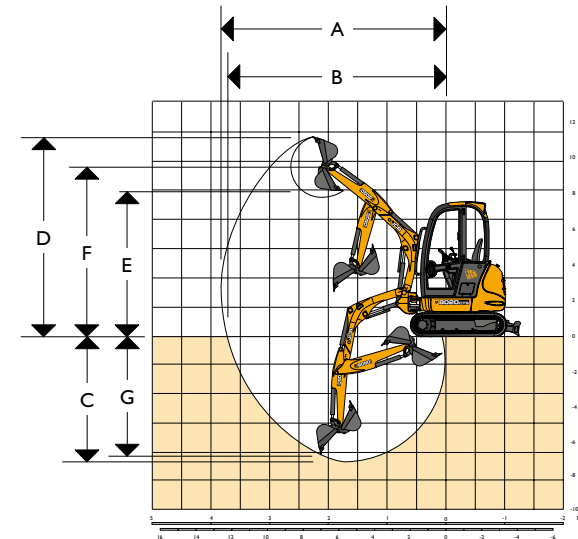
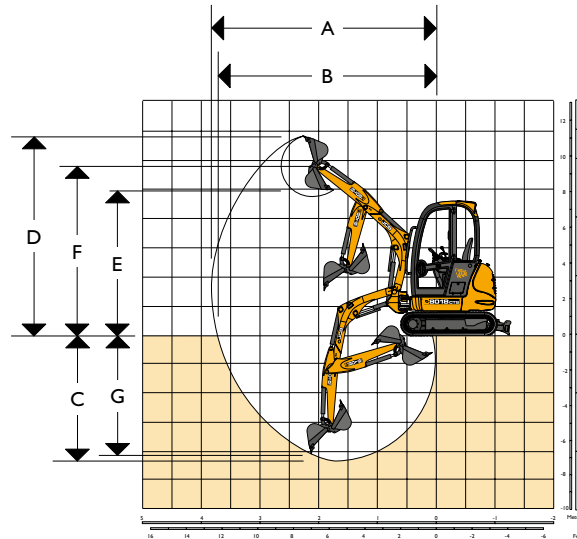


WORKING RANGE



WORKING RANGE

Machine model		8018 CTS		
Boom length	mm (ft-in)	1680 (5-5)	1680 (5-5)	1680 (5-5)
Dipper length	mm (ft-in)	1161 (3-10)	1261 (4-2)	1500 (4-11)
A Max digging reach	mm (ft-in)	3933 (12-11)	4028 (13-2½)	4254 (13-11½)
B Max digging reach on ground	mm (ft-in)	3865 (12-8)	3949 (12-11)	4184 (13-8¾)
C Max digging depth – dozer up	mm (ft-in)	2142 (7-0)	2242 (7-4)	2477 (8-1½)
Max digging depth – dozer down	mm (ft-in)	2470 (8-1)	2570 (8-5)	2805 (9-2½)
D Max digging height	mm (ft-in)	3460 (11-4)	3519 (11-6½)	3660 (12-0)
E Max dump height	mm (ft-in)	2568 (8-5)	2626 (8-7)	2765 (9-0¾)
F Max height to dipper nose pivot pin	mm (ft-in)	2973 (9-9)	3032 (9-11)	3172 (10-4¾)
G Max vertical wallcut depth	mm (ft-in)	1750 (5-9)	1845 (6-0½)	2082 (6-10)
H Min. front swing radius (no offset)	mm (ft-in)	1715 (5-7½)	1739 (5-8½)	1791 (5-10½)
Min. front swing radius (fully offset)	mm (ft-in)	1529 (5-0)	1552 (5-1)	1574 (5-2)
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	kN (lbf)	16.2 (3642)	16.2 (3642)	–
Dipper tearout	kN (lbf)	9.2 (2068)	8.3 (1866)	–
Slew speed	rpm	10	10	10

WORKING RANGE

Machine model		8020 CTS
Boom length	mm (ft-in)	1792 (5-8)
Dipper length	mm (ft-in)	1261 (4-2)
A Max digging reach	mm (ft-in)	4158 (13-7¾)
B Max digging reach on ground	mm (ft-in)	4065 (13-4)
C Max digging depth – dozer up	mm (ft-in)	2430 (7-11¾)
Max digging depth – dozer down	mm (ft-in)	2621 (8-7¼)
D Max digging height	mm (ft-in)	3665 (12¼)
E Max dump height	mm (ft-in)	2772 (9-1)
F Max height to dipper nose pivot pin	mm (ft-in)	3178 (10-5)
G Max vertical wallcut depth	mm (ft-in)	1921 (6-3½)
H Min. front swing radius (no offset)	mm (ft-in)	1842 (6½)
Min. front swing radius (fully offset)	mm (ft-in)	1049 (3-5¼)
I Boom swing left	degrees	55
J Boom swing right	degrees	75
Bucket rotation	degrees	198
Dipper rotation	degrees	112
Bucket tearout	kN (lbf)	19.0* (3214.77)
Dipper tearout	kN (lbf)	9.3 (2090.7)
Slew speed	rpm	9.6

8014 CTS LIFT CAPACITIES – 230mm (9in) Rubber Tracks, 1161mm (3ft 10in) dipper, No bucket.

Load Point	Reach from slew centre															
	1.2m (3ft 11in)			1.5m (4ft 11in)			2m (6ft 7in)			2.5m (8ft 2½in)			Capacity at maximum reach			
Height	Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		
m (ft-in)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
1.5 (4-11)										228*	238*	224*	172	252*	136	3240 (10-7½)
1 (3-3)				492*	506*	434*	304*	350*	303*	284*	298*	194	152	271*	115	3300 (10-10)
0.5 (1-8)				465	744*	359	312	479*	248	224	376*	188	142	288*	115	3300 (10-10)
Ground Level	368	914*	416	344	845*	315	240	532*	206	158	384*	166	135	296*	116	3150 (10-4)
- 0.5 – (1-8)	353	966*	386	315	809*	273	210	548*	212	150	400*	158	124	322*	127	3000 (9-10)
- 1 – (3-3)	308	853*	436	374	679*	300	270	535*	206	210	394*	154	195	349*	139	2650 (8-8)

8016 CTS LIFT CAPACITIES – Standard Dozer, 230mm (9in) Rubber Tracks, 1161mm (3ft 10in) dipper, No bucket.

Load Point	Reach from slew centre															
	1.2m (3ft 11in)			1.5m (4ft 11in)			2m (6ft 7in)			2.5m (8ft 2½in)			Capacity at maximum reach			
Height	Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		Dozer up	Dozer down		
m (ft-in)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
1.5 (4-11)										242*	252*	247*	188	266*	161	3240 (10-7½)
1 (3-3)				499*	532*	499*	360*	370*	240	297*	314*	196	168	289*	177	3300 (10-10)
0.5 (1-8)				505	819*	392	338	526*	241	247	388*	200	167	314*	149	3300 (10-10)
Ground Level	593	1029*	495	449	857*	378	319	567*	266	249	439*	217	167	342*	183	3150 (10-4)
- 0.5 – (1-8)	581	1062*	502	443	879*	351	317	615*	258	246	462*	215	204	370*	173	3000 (9-10)
- 1 – (3-3)	566	1037*	574	407	758*	409	308	566*	244	236	398*	200	224	349*	161	2650 (8-8)

Lift capacity front and rear.

Lift capacity full circle.

- Notes:**
- 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 capacities assume that the machine is on firm, level ground and equipped with an approved lifting point.
 - A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities.
 - Lift capacities may be limited by local regulations. Please refer to your dealer.

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

Load Point	Reach from slew centre																								
	1.2m (3ft 11in)				1.5m (4ft 11in)				2m (6ft 7in)				2.5m (8ft 2 1/2in)				Capacity at maximum reach								
Height	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				
m (ft-in)	kg	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)																	200*	203*	218*	217*	173	232*	144	235*	3430 (11-3)
1 (3-3)					345*	365*	345*	346*	305*	315*	305*	306*	259*	270*	251*	252*	201	247*	128	252*	3500 (11-5 1/4)				
0.5 (1-8)					480*	567*	319	510*	393	465*	264	416*	276	335*	211	310*	173	271*	125	198	3500 (11-5 1/4)				
Ground Level	477	760*	384	638	400	645*	316	524	330	501*	241	478*	261	378*	196	365*	164	273*	138	216	3360 (11-0 1/4)				
-0.5 (-1-8)	464	940*	376	545	395	693*	314	502	307	544*	234	406	225	376*	182	308	173	294*	152	233	3140 (10-3 1/2)				
-1 (-3-3)	438	723*	373	558	332	618*	284	471	288	557*	236	384	222	393*	179	298	188	324*	151	255	2900 (9-6)				

8020 CTS LIFT CAPACITIES – Standard Dozer, 230mm (9in) Rubber Tracks, 1261mm (3ft 10in) dipper, No bucket.

Load Point	Reach from slew centre																		
	1.75m (5ft 9in)			2.0m (6ft 6in)			2.5m (8ft 2in)			3.0m (9ft 10in)			Capacity at maximum reach						
Height	Dozer up	Dozer down	90°	Dozer up	Dozer down	90°	Dozer up	Dozer down	90°	Dozer up	Dozer down	90°	Dozer up	Dozer down	90°				
m (ft-in)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	m (ft-in)			
2.0 (6-6)													211.4	211.4	216.6	243.6	243.6	245.3	3.4 (11-2)
1.5 (4-11)							241.8	250.5	243.6	245.3	2505	249.6	261.8	272.3	267.0	3.5 (11-6)			
1.0 (3-3)	488.9	434.2*	468.0	405.4	418.4	388.8	327.1	328.8	311.4	280.1	287.9	281.0	266.2	279.2	275.7	3.6 (11-10)			
0.5 (1-8)	740.3	680.2*	756.6	632.4	589.8	573.3	414.1	433.2	408.9	333.2	348.0	342.7	277.5	301.8*	250.5*	3.58 (11-9)			
Ground level	751.5*	1049.2	795.7*	555.0*	682.9	553.5*	416.2*	507.2	434.2*	339.0*	413.2	337.5*	263.2*	339.3*	261.7*	3.5 (11-6)			
-0.5 (-1-8)	763.5*	1041.3	857.2*	543.7*	750.8	546.0*	401.2*	555.0	406.5*	302.2*	416.7	326.2*	260.2*	364.5*	275.2*	3.3 (10-10)			
-1.0 (-3-3)	722.2*	1083.1	836.2	491.1*	715.1	522.7*	367.5*	539.4	408.8*	286.5*	388.8	317.2*	286.5*	388.8*	317.2*	3.0 (9-10)			

Lift capacity front and rear.

Lift capacity full circle.

- Notes:**
- 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 capacities assume that the machine is on firm, level ground and equipped with an approved lifting point.
 - A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities.
 - Lift capacities may be limited by local regulations. Please refer to your dealer.



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

Machine model		8014 CTS	8016 CTS	8018 CTS	8020 CTS
Fuel tank	litres (US gal)	23.5 (6.2)	23.5 (6.2)	23.5 (6.2)	23.5 (6.2)
Engine coolant	litres (US gal)	5 (1.3)	5 (1.3)	5 (1.3)	5 (1.3)
Engine oil	litres (US gal)	4 (1.0)	4 (1.0)	4 (1.0)	4 (1.0)
Hydraulic system	litres (US gal)	28 (7.4)	28 (7.4)	28 (7.4)	30 (7.9)
Hydraulic tank	litres (US gal)	25 (6.6)	25 (6.6)	25 (6.6)	25 (6.6)

MACHINE WEIGHTS

Machine model		8014 CTS	8016 CTS	8018 CTS	8020 CTS
Operating weight*	kg (lb)	1564 (3448)	1590 (3505)	1662 (3664)	1999 (4407)
Transport weight	kg (lb)	1489 (3283)	1515 (3340)	1587 (3499)	1924 (4241)
With canopy	kg (lb)	-80 (-176)	-80 (-176)	-80 (-176)	-80 (-176)
With FOGS guard	kg (lb)	+25 (+55)	+25 (+55)	+25 (+55)	+25 (+55)
With long dipper	kg (lb)	N/A	+2 (+4½)	+2 (+4½)	N/A
With Gravemaster dipper	kg (lb)	N/A	N/A	+7 (+15½)	N/A

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

DOZER BLADE

Machine model		8014 CTS	8016 CTS	
		Standard	Standard	Long
Max height (above ground)	mm (ft-in)	178 (0-7)	178 (0-7)	270 (0-10½)
Dig depth (below ground)	mm (ft-in)	292 (0-11½)	292 (0-11½)	438 (1-5¼)
Approach angle	degrees	26.5	26.5	22.5
Width	mm (ft-in)	1000 (3-3)	1000 (3-3)	1000 (3-3)
Width (extended)	mm (ft-in)	N/A	N/A	N/A
Height	mm (ft-in)	225 (0-9)	225 (0-9)	273 (0-10¾)
Reach in front of tracks	mm (ft-in)	202 (0-8)	202 (0-8)	442 (1-5½)

DOZER BLADE

Machine model		8018 CTS		8020 CTS
		Standard	Long	Long as standard
Max height (above ground)	mm (ft-in)	178 (0-7)	270 (0-10½)	270 (0-10½)
Dig depth (below ground)	mm (ft-in)	292 (0-11½)	438 (1-5¼)	438 (1-5¼)
Approach angle	degrees	26.5	22.5	22.5
Width	mm (ft-in)	1000 (3-3)	1000 (3-3)	1000 (3-3)
Width (extended)	mm (ft-in)	1380 (4-6¼)	1380 (4-6¼)	1380 (4-6¼)
Height	mm (ft-in)	225 (0-9)	273 (0-10¾)	273 (0-10¾)
Reach in front of tracks	mm (ft-in)	202 (0-8)	442 (1-5½)	442 (1-5½)

EEC NOISE LEVELS (95/27/EC DYNAMIC)

Machine model		8014 CTS	8016 CTS	8018 CTS	8020 CTS
Cab external sound	dB (LwA)	93	93	93	93
Cab internal sound	dB (LpA)	76	77	77	79

