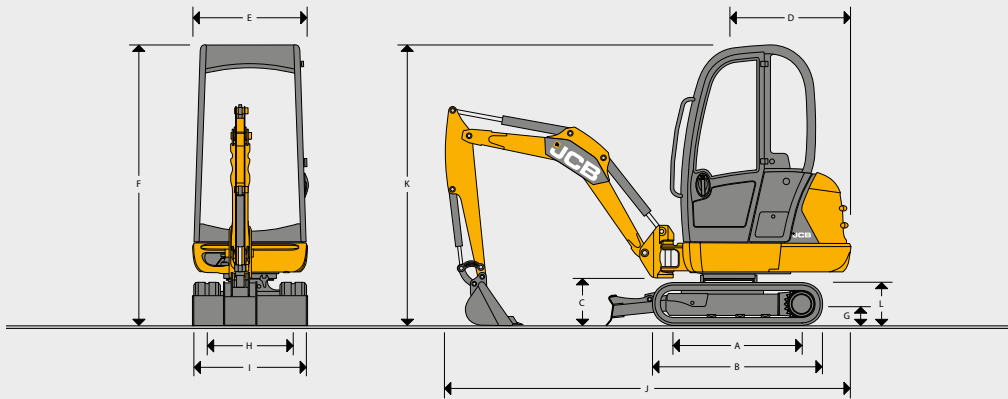


STATIC DIMENSIONS



Machine model		8014 CTS	8016 CTS	
A	Sprocket idler centres	mm	1027	1127
B	Undercarriage overall length	mm	1382	1484
C	Kingpost clearance	mm	373	394
D	Tailswing radius	mm		1059
	Tailswing over tracks	mm		573
E	Overall width of superstructure	mm		996
F	Height over cab	mm		2318
G	Ground clearance	mm	146	154
H	Track gauge	mm		742
I	Width over tracks	mm		972
J	Transport length – Standard dipper	mm		3409
J	Transport length – Long dipper	mm	-	3467
K	Transport height with FOGGuard	mm		2340
K	Transport height without FOGGuard	mm		2318
L	Track height	mm		358

ENGINE

Machine model		8014 CTS & 8016 CTS
Model		403D-11
Fuel		Diesel
Cooling		Water cooled
Gross power ISO 14396	kW (hp) @ 2200 rpm	14.7 (19.7)
Net power	kW (hp) @ 2200 rpm	14.2 (19)
Gross torque ISO 14396	Nm @ 1600 rpm	66.8
Net torque	Nm @ 1600 rpm	64.2
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

Machine model		8014 CTS	8016 CTS
No of bottom rollers			3
Track width	mm		230
Ground bearing pressure	kg/cm ²	0.35	0.32
Ground clearance	mm	146	154
Track tensioning		Mechanical	Grease
Travel speed – low	kph	2.33	2.5
Travel speed – high	kph	N/A	3.9 (optional)
Tractive effort (nominal)	kN	10.13	10.16

HYDRAULIC SYSTEM

Machine model		8014 CTS & 8016 CTS	8016 CTS
		Standard	Optional
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)
Excavator/track main relief	bar		230
Slew main relief	bar		160
Auxiliary hydraulic flow	lpm		26
Hydraulic motors			Piston

OPERATOR ENVIRONMENT

Machine model		8014 CTS & 8016 CTS
Cab/canopy length	mm	1171
Cab/canopy width	mm	974
Distance from seat base to roof	mm	1223
Door aperture width	mm	624

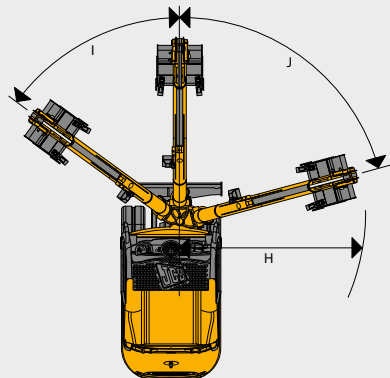
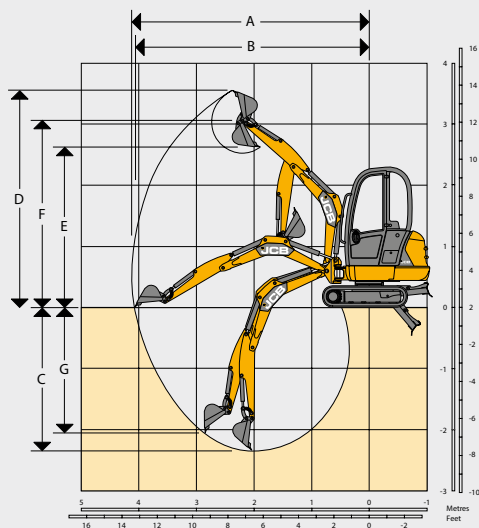
SERVICE CAPACITIES

Machine model		8014 CTS & 8016 CTS
Fuel tank	litres	23.5
Engine coolant	litres	5
Engine oil	litres	4
Hydraulic system	litres	28
Hydraulic tank	litres	25

DOZER BLADE

Machine model		8014 CTS	8016 CTS
Max height (above ground)	mm	240	217
Dig depth (below ground)	mm	385	400
Approach angle	degrees		25
Width	mm		1000
Height	mm		175
Reach in front of tracks	mm		370

WORKING RANGE



Machine model	8014 CTS	8016 CTS	8016 CTS
Boom length	mm	1715	
Dipper length	mm	1161	1261
A Max digging reach	mm	4021	4122
B Max digging reach on ground	mm	3974	4060
C Max digging depth – dozer up	mm	2271	2366
Max digging depth – dozer down	mm	2648	2595
D Max digging height	mm	3453	3531
E Max dump height	mm	2531	2626
F Max height to dipper nose pivot pin	mm	2953	3017
G Max vertical wallcut depth	mm	1961	2048
H Min. front swing radius (no offset)	mm	1570	1570
Min. front swing radius (fully offset)	mm	1356	1356
I Boom swing left	degrees	55	
J Boom swing right	degrees	75	
Bucket rotation	degrees	198	
Dipper rotation	degrees	121	
Bucket tearout	kN	13.5	16.2
Dipper tearout	kN	7.1	
Slew speed	rpm	8.45	8.69

EEC NOISE LEVELS (95/27/EC DYNAMIC)

Machine model	8014 CTS & 8016 CTS	
Cab external sound	dB (LwA)	93
Cab internal sound	dB (LpA)	77

MACHINE WEIGHTS

Machine model	8014 CTS	8016 CTS	
Operating weight*	kg	1634	1657
With canopy	kg	-80	
With FOGS guard	kg	+25	
With long dipper	kg	N/A	+2

*Operating weight t60 6016 including cab, rubber tracks, standard dipper, 300mm bucket, full tanks and a 75kg operator.

STANDARD EQUIPMENT

8014 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 230mm rubber tracks, servo controls, static seat, boom worklight, triple section gear pump, straight line travel circuit, dozer blade, top mounted boom ram, 1161mm dipper, bushed kingpost, steel bushes in dipper nose and bucket link, tilting cab, 3mm pressed steel bonnet.

8016 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 230mm rubber tracks, servo controls, static seat, boom worklight, double acting auxiliary circuit, triple section gear pump, straight line travel circuit, dozer blade, top mounted boom ram, 1161mm dipper, bushed kingpost, steel bushes in dipper nose and bucket link, tilting cab, 3mm pressed steel bonnet.

OPTIONAL EQUIPMENT

8014 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), suspension seat, dual pattern controls (ISO/SAE change-over), double-acting auxiliary circuit, battery isolator, immobiliser, external fuel filler with lockable cap, inclinometer kit, external mirror, fire extinguisher, cab/canopy mounted worklights, engine fan guard kit, FOPS roof guard, external mirror, biodegradable hydraulic oil, rotating or strobe beacon, toolkit and grease gun, heavy-duty recoil track tensioner, JCB impact protection front screen, dozer street pads, counterweight protection bumper kit, front and rear bolt on tie down points, high visibility reflective decal kit, worklight guards, customised paint, object lifting kit, 9 digging buckets (160mm to 760mm), 2 ditching/grading buckets (900mm & 1000mm), hydraulic breakers, earthdrills, mechanical quickhitch, hydraulic kerb-lifter.

8016 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), 230mm steel tracks, suspension seat, dual pattern controls (ISO/SAE change-over), cab/canopy mounted worklights, 1261mm long dipper, 2 speed tracking, dipper auxiliary pipework extensions, hand held tool circuit, variable displacement pump, engine fan guard kit, FOPS roof guard, external mirror, track pedals, radio, biodegradable 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 grease gun, heavy-duty recoil track tensioner, JCB impact protection front screen, dozer street pads, counterweight protection bumper kit, front and rear bolt on tie down points, high visibility reflective decal kit, worklight guards, customised paint, object lifting kit, 9 digging buckets 160mm to 760mm), 2 ditching/grading buckets (900mm & 1000mm), hydraulic breakers, earthdrills, mechanical quickhitch, hydraulic kerb-lifter.
















LIFT CAPACITIES -Standard dozer, 230mm rubber tracks, 1161mm dipper, no bucket.


8014


Load Point	Reach from slew centre															Max distance
	1.5m			2.0m			2.5m			3.0m			Capacity at maximum reach			
																
Height	360	Dozer down	Dozer up	360	Dozer down	Dozer up	360	Dozer down	Dozer up	360	Dozer down	Dozer up	360	Dozer down	Dozer up	Distance
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
1.5							227	355*	266	169	348*	212	137	322*	176	3280
1.0	431	696*	503	315	513*	362	222	426*	270	162	365*	203	134	313*	165	3450
0.5	401	983*	480	289	648*	334	213	487*	263	154	364*	191	130	300*	161	3400
Ground Level	362	909*	432	266	648*	315	197	455*	222	152	341*	170	130	270*	143	3400
-0.5	365	773*	402	251	572*	289	198	439*	215	157	300*	165	143	263*	153	3250
-1.0	360	596*	371	257	469*	282	218	351*	210				184	257*	184	2950

LIFT CAPACITIES -Standard dozer, 230mm rubber tracks, 1161mm dipper, no bucket.

8016

Load Point	Reach from slew centre															Max distance
	1.5m			2.0m			2.5m			3.0m			Capacity at maximum reach			
																
Height	360	Dozer down	Dozer up	360	Dozer down	Dozer up	360	Dozer down	Dozer up	360	Dozer down	Dozer up	360	Dozer down	Dozer up	Distance
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
1.5							266*	370*	340*	174	357*	254	150	328*	203	3280
1.0		729*	653*	338	557*	488*	221	461*	338	176	370*	239	139	318*	200	3450
0.5	405	957*	570	289	661*	420	203	505*	315	173	383*	237	126	304*	197	3400
Ground Level	381	893*	497	259	687*	395	200	498*	290	161	366*	227	133	291*	194	3400
-0.5	380	766*	485	264	574*	365	199	445*	278	158	320*	226	139	278*	209	3250
-1.0	323	698*	483	263	522*	369	199	387*	275	150	288*	227	150	275*	219	2950

 Lift capacity front.

 Lift capacity full circle.

- Notes:
1. Lifting capacities are based ISO 10567, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is the lesser. 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.