



ROCKET
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JCB 18Z Mini Excavator
Specification Sheet

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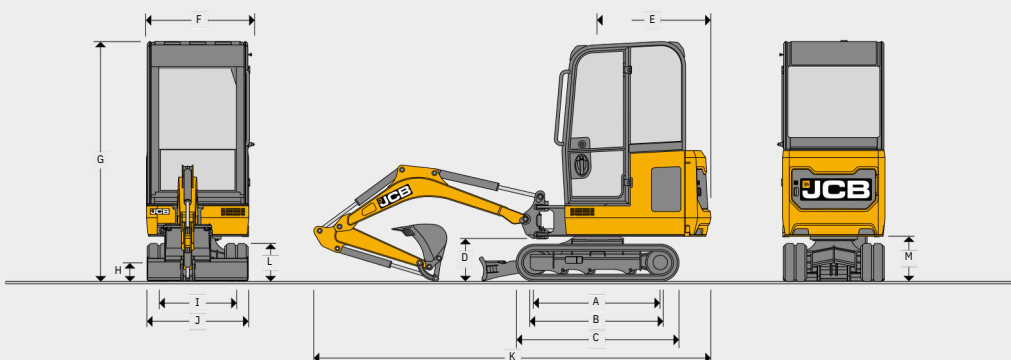
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All of our JCB equipment is supplied by Holt JCB

HOLT JCB

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STATIC DIMENSIONS



Machine model		16c-1	18z-1	19	19c-1 PC
A	Sprocket idler centres	mm	1218	1218	1218
B	Track length on ground	mm	1220	1220	1220
C	Undercarriage overall length - rubber	mm	1578	1578	1578
	Undercarriage overall length - steel	mm	1578	1578	1578
D	Kingpost clearance	mm	409	409	409
E	Tailswing radius	mm	1103	685	1103
F	Overall width of superstructure	mm	996	996	996
G	Height over cab	mm	2324	N/A	2328
	Height over canopy	mm	2342	2340	2345
H	Ground clearance	mm	162	162	162
I	Track gauge - retracted/extended	mm	750-1110	750-1110	750-1110
J	Width over tracks / rubber / steel - retracted	mm	980	980	980
	Width over tracks / rubber / steel - extended	mm	1330	1330	1330
K	Transport length	mm	3860	3547	3860
L	Track height	mm	367	367	367
M	Counterweight clearance	mm	434	434	434

ENGINE

Machine model		16c-1, 18z-1, 19c-1, 19c-1 PC
Model		403J-07
Fuel		Diesel
Cooling		Water cooled
Gross power ISO 14396	kW	11.7 @ 2550 rpm
Net power	kW	10.8 @ 2550 rpm
Max. torque ISO 14396	Nm	45.6 @ 2000 rpm
Displacement	cc	762
Gradeability	degrees	35°
Starter motor	kW	1.2
Battery	volt / amps	12V / 65AH
Alternator	amps (aircon)	60

UNDERCARRIAGE

Machine model		16c-1	18z-1	19c-1	19c-1 PC
		Retractable	Retractable	Retractable	Retractable
No. of bottom rollers		3	3	3	3
Track width rubber	mm	230	230	230	230
Track width steel	mm	230	230	230	230
Travel speed - low	kph	2.4	2.4	2.4	2.4
Travel speed - high	kph	4.1	4.1	4.1	4.1
Tractive effort	kN	11.5	13.2	13.2	13.2

HYDRAULIC SYSTEM

Machine model		16c-1	18z-1	19c-1	19c-1 PC
Pump	cc	18	18	18	18
Nominal output @ max rpm	lpm	42	42	42	42
Excavator/track main relief pressure	bar	205	235	235	235
Slew main relief pressure	bar	205	167	167	167
Auxiliary hydraulic pressure (Aux 1)	bar	200	200	200	200
Auxiliary hydraulic pressure (Aux 2)	bar	N/A	N/A	N/A	200
Auxiliary hydraulic flow (Aux 1)	lpm	32	32	32	32
Auxiliary hydraulic flow (Aux 2)	lpm	N/A	N/A	N/A	32
Hydraulic pump		Piston	Piston	Piston	Piston

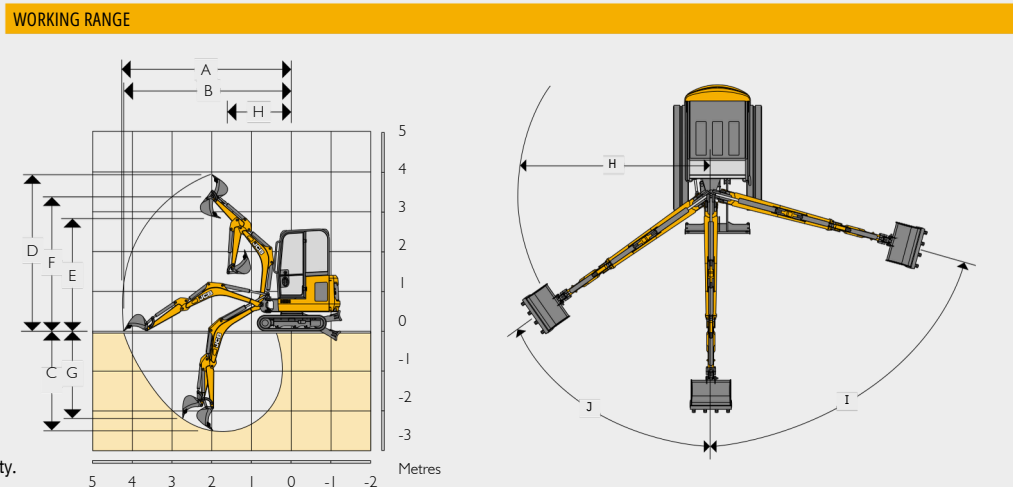
WEIGHTS								
Machine model		16c-1		18z-1	19c-1		19c-1 PC	
		Canopy	Cab	Canopy	Canopy	Cab	Canopy	Cab
Operating weight*	kg	1639	1749	1749	1830	1910	1863	1943
FOPS (Falling Object Protective Structure) guard	kg	N/A	15	N/A	N/A	15	N/A	15
Steel tracks	kg	81	81	81	81	81	81	81
Long dozer	kg	9	9	9	9	9	9	9
Mechanical quickhitch	kg	14	14	14	14	14	14	14
Hydraulic quickhitch (without hoses)	kg	N/A	N/A	N/A	N/A	N/A	24	24
Gravemaster dipper	kg	N/A	N/A	N/A	5	5	5	5
Shipping weight**	kg	1545	1655	1655	1736	1816	1769	1849
Ground bearing pressure (rubber tracks)	kg/cm ²	0.35	0.36	0.33	0.35	0.36	0.36	0.37
Ground bearing pressure (steel tracks)	kg/cm ²	0.36	0.38	0.35	0.36	0.38	0.38	0.39
Transport weight (operator weight - 75kg)	kg	1564	1674	1674	1755	1835	1788	1868

* Operator weight to ISO 6016 including cab/canopy, rubber tracks, 950 dipper (16C-1, 19C-1 & 18Z-1), 1100 dipper (19C-1 PC), 300mm bucket, full tanks and a 75kg operator. **Shipping weight to ISO 6016 is mass of the base machine without operator, with fuel level at 10% of tank capacity.

SERVICE CAPACITIES					
Machine model		16c-1	18z-1	19c-1	19c-1 PC
Fuel tank	ltr	18.5	20.5	18.5	18.5
Engine coolant	ltr	Canopy model: 4.2 Cab model: 4.7	Canopy model: 4.2	Canopy model: 4.2 Cab model: 4.7	Canopy model: 4.2 Cab model: 4.7
Engine oil	ltr	2.5	2.5	2.5	2.5
Hydraulic system	ltr	28	28	28	28
Hydraulic tank	ltr	15	15	15	15

OPERATOR ENVIRONMENT					
Machine model		16c-1	18z-1	19c-1	19c-1 PC
Cab/canopy height	mm	1347 / 1364	na / 2347	1347 / 1364	1347 / 1364
Cab/canopy height with FOGS guard LEVEL 1	mm	1366 / 1364	na / 2347	1366 / 1364	1366 / 1364
Cab/canopy length with FOGS guard LEVEL 1	mm	1236 / 1427	1107	1236 / 1427	1236 / 1427
Cab/canopy length	mm	1202 / 1427	1107	1202 / 1427	1202 / 1427
Cab/canopy width	mm	976 / 978	978	976 / 978	976 / 978

DOZER					
Machine model		16c-1	18z-1	19c-1	19c-1 PC
Dozer length (STD) centre of boss	mm	787	787	787	787
Max. height above ground	mm	239	239	239	239
Dig depth below ground	mm	225	225	225	225
Approach angle	degrees	25.3	25.3	25.3	25.3
Width (without wings)	mm	980	980	980	980
Width (with wings)	mm	1340	1340	1340	1340
Height	mm	234	234	234	234



		16c-1 (950mm Dipper)	16c-1 (1100mm Dipper)	18z-1 / 19c-1 / 19c-1 PC (950mm Dipper)	18z-1 / 19c-1 / 19c-1 PC (1100mm Dipper)	19c-1, 19c-1 PC (1344mm Gravemaster Dipper)
	Boom length	mm	1800	1800	1800	1800
A	Max. digging reach	mm	3899	4043	3899	4247
B	Max. digging reach on ground	mm	3834	3981	3834	4220
C	Max. digging depth – dozer up	mm	2271	2421	2271	2665
	Max. digging depth – dozer down	mm	2426	2576	2426	2819
D	Max. digging height	mm	3556	3667	3556	3847
E	Max. dump/load-over height	mm	2598	2637	2598	2818
F	Max. height to dipper nose pivot pin	mm	3116	3154	3116	3335
G	Max. vertical wallcut depth	mm	1933	2139	1933	2375
H	Min. front swing radius (no offset)	mm	1488	1517	1488	1565
	Min. front swing radius (fully offset)	mm	1171	1196	1171	1236
I	Boom swing left	degrees	75°	75°	75°	75°
J	Boom swing right	degrees	55°	55°	55°	55°
	Bucket rotation	degrees	201°	201°	201°	201°
	Dipper rotation	degrees	126°	126°	126°	126°
	Bucket tearout (power position)	kN	15.6	15.6	18	18
	Dipper tearout	kN	8.8	7.9	10.1	9.1
	Slew speed	rpm	7.9	7.9	7.9	7.9



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