

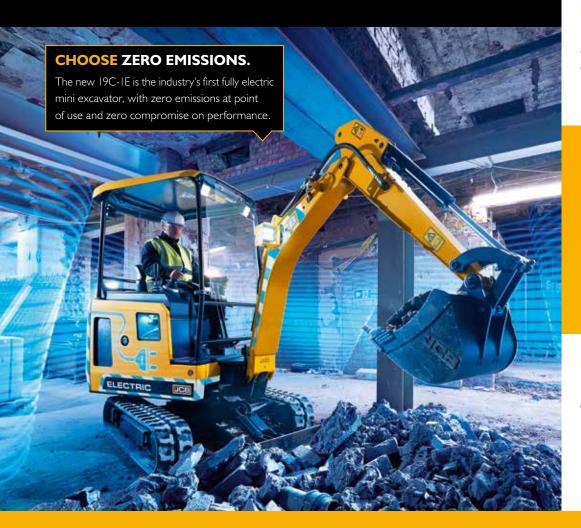
ELECTRIC MINI EXCAVATOR | 19C-1E

Transport weight: 1,902 – 2,037kg Zero Emissions. Lithium-ion Technology.



100% electric. Zero emissions.

JCB is leading the way in clean technology and reducing harmful emissions. That's why we are introducing JCB E-TECH, a new generation of electric products with zero emissions at point of use that don't compromise on performance. The new I9C-IE is the first of the electric generation and the industry's first fully electric mini excavator. It lets you do a full day's work on a single charge, giving you access to a whole new world of possibilities.







CHOOSE QUIET.

Low noise levels make the 19C-1E ideal for urban areas, indoor working, 'out-of-hours' working, and allows better communication with co-workers.

CHOOSE SAFE.

No trailing tethers, zero emissions, low noise levels and other innovative features provide peace of mind for working safely and efficiently.





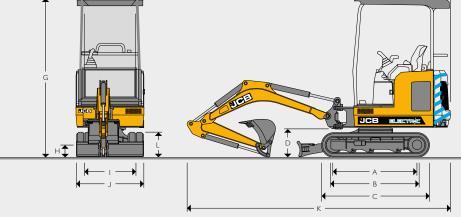
CHOOSE A FULL DAY'S WORK.

Four lithium-ion batteries power the machine for a full day on a single charge, while three charging options: 110V, 230V & 415V aid versatility.

CHOOSE ECONOMICAL.

With maintenance-free batteries, minimal daily checks and less servicing, the new 19C-1E will save you time and money.

STATIC DIMENSIONS



A Sprocket idler centres mm 1218 B Track length on ground mm 1220 C Undercarriage overall length – rubber mm 1578 Undercarriage overall length – steel mm 1578 D Kingpost clearance mm 409 E Tailswing radius mm 1103 F Overall width of superstructure mm 996 G Height over canopy mm 2345	STATIC DIMENSIONS						
C Undercarriage overall length – rubber mm 1578 Undercarriage overall length – steel mm 1578 D Kingpost clearance mm 409 E Tailswing radius mm 1103 F Overall width of superstructure mm 996							
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G Height over cappy mm 2345							
d Tieight over Carlopy							
G Height over cab mm 2328							
H Ground clearance mm 162							
I Track gauge – retracted/extended mm 750 – III0							
J Width over tracks / rubber / steel – retracted mm 980							
Width over tracks / rubber / steel – extended mm 1330							
K Transport length mm 3860 – 3815							
L Track height mm 367							
M Counterweight clearance mm 434							

POWER SOURCE		
Battery Type	Manganese laminated Lithium-ion	
Gross Capacity	19.8 kWh	
System Voltage	48V	
Zero Emissions at point of use		

CHARGING				
On-board charger allowing direct connection to AC mains power supply				
Indicative Charge Time - 20-80%, subject to environmental conditions.	On-board @ 110V – 10.5 hrs On-board @ 230V – 5 hrs			
Off-board fast charge - 0-100% @ 415V	2.5 hrs			
Charging cable plug type	16A 110V (Yellow) 16A 230V (Blue) 16A 415V (Red)			

MOTOR	
Motor Type	3 Phase AC Permanent Magnet
Motor Power	9kW continuous, 20kW peak
Operating Modes	L: 1200rpm G: 1600rpm H: 1800rpm

UNDERCARRIAGE				
		Retractable		
No. of bottom rollers		3		
Track width rubber	mm	230		
Travel speed – low	kph	2.4		
Travel speed – high	kph	4.1		
Tractive effort	kN	13.2		

HYDRAULIC SYSTEM		
Pump	сс	18
Nominal output @ max rpm	lpm	42
Excavator/track main relief pressure	bar	235
Slew main relief pressure	bar	167
Auxiliary hydraulic pressure (Aux 1)	bar	200
Auxiliary hydraulic pressure (Aux 2)	bar	200
Auxiliary hydraulic flow (Aux 1)	lpm	32
Auxiliary hydraulic flow (Aux 2)	lpm	32
Hydraulic pump		Piston

	Canopy	Cab	
kg	1902	2037	
kg		9	
kg	14		
kg	2	24	
kg	5		
kg/cm ²	0.	.36	
kg	1827	1962	
	kg kg kg kg kg/cm²	kg 1902 kg kg kg 2 kg 2 kg/cm ² 0	

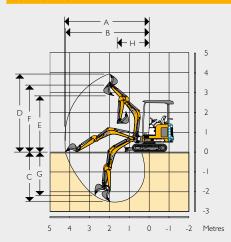
*Operator weight to ISO 6016 including cab/canopy, rubber tracks, 1100 dipper, 300mm bucket, 75kg operator. **Transport weight to ISO 6016 is mass of the base machine without operator.

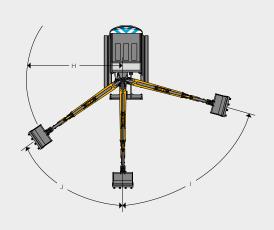
SERVICE CAPACITIES			
Hydraulic system	ltr	28	
Hydraulic tank	ltr	15	

OPERATOR ENVIRONMENT			
		Canopy	Cab
Canopy/cab height	mm	1364	1347
Canopy/cab length	mm	1427	1202
Canopy/cab width	mm	978	1040

DOZER		
Dozer length (STD) centre of boss	mm	787
Max. height above ground	mm	239
Dig depth below ground	mm	225
Approach angle	degrees	25.3
Width (without wings)	mm	980
Width (with wings)	mm	1340
Height	mm	234

WORKING RANGE





			1100mm Dipper	1344mm Gravemaster Dipper
	Boom length	mm	1800	1800
Α	Max. digging reach	mm	4043	4247
В	Max. digging reach on ground	mm	3981	4220
С	Max. digging depth – dozer up	mm	2421	2665
	Max. digging depth – dozer down	mm	2576	2819
D	Max. digging height	mm	3667	3847
Е	Max. dump/load-over height	mm	2637	2818
F	Max. height to dipper nose pivot pin	mm	3154	3335
G	Max. vertical wallcut depth	mm	2139	2375
Н	Min. front swing radius (no offset)	mm	1517	1565
	Min. front swing radius (fully offset)	mm	1196	1236
-1	Boom swing left	degrees	75	75
J	Boom swing right	degrees	55	55
	Bucket rotation	degrees	201	201
	Dipper rotation	degrees	126	126
	Bucket tearout (power position)	kN	18	18
	Dipper tearout	kN	9.1	7.9
	Slew speed	rpm	7.9	7.9

EQUIPMENT	
SERVICE AND MAINTENANCE	
500 hours dig end greasing intervals	•
Grease gun & cartridge	•
Toolkit	+

TRACKS AND UNDERCARRIAGE	
230mm short pitch rubber tracks	•
Two speed tracking	•
Retractable undercarriage	•
Extendable dozer blade	•
Heavy duty recoiled tracked tensioners	•
Long dozer blade	+
Auto kick down track motors	•
Auto Kick-up	•

OPERATOR STATION	
On-board charger	•
LED worklights	•
Full audio visual warning systems	•
Full control isolation	•
12 volt power socket	•
ISO servo controls	•
Static seat	•
Electro-proportional thumb controlled dual flow auxiliary	•
Dual patterned controls (ISO/SAE changeover)	+
Vinyl suspension seat	•
Track lever pedals	•

4 power packs	•
HYDRAULICS	
Hydraulic slew travel lock	•
Variable displacement pump	•
Straight line travel circuit	•
ORFS hydraulics	•
Quick release auxiliary couplers	•
Double acting auxiliaries	•
Auxiliary vent	•

POWER SOURCE

PROTECTION AND SAFETY	
ROPS, TOPS & FOPS certified cab/canopy	•
Internal lockable toolbox	•
Protected boom work light	•
2GO hydraulic isolation	•
Cesar Data Tag (UK ONLY)	•
Disconnect switch	•
Seat belt engaged green beacon	+
JCB LiveLink	•
Pin pad immobiliser	+
Polycarbonate front screen protection	+
Travel alarm	+

EXTERNAL EQUIPMENT	
Charging leads 110V	•
Charging leads 230V	•
Fast charge 415V	+
Standard dipper (mm)	1100
Dipper options (mm)	1100/1344
Tie down points	•
LED amber beacon	•
Heavy duty kingpost	•
Exterior mirrors	+
GP & bladed bucket range	+
Mechanical quick hitch	+
Hydraulic quick hitch incl. pipework	+
Thumb ready dipper	+

STANDARD • OPTIONAL +

LIFT CAPACI	LIFT CAPACITIES – 230MM RUBBER TRACKS, 1800MM BOOM, 1100MM DIPPER, NO BUCKET.																								
Load Point		1.5	5m			2.0	0m			2.5	5m			3.0m 3.5m					Capacity at maximum reach						
	J.				<u> </u>		==						-				-				J.				
Height	Extended	Retracted	Dozer Up	Dozer Down	Extended	Retracted	Dozer Up	Dozer Down	Extended	Retracted	Dozer Up	Dozer Down	Extended	Retracted	Dozer Up	Dozer Down	Extended	Retracted	Dozer Up	Dozer Down	Extended	Retracted	Dozer Up	Dozer Down	Distance
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
2.5					520*	417	540*	439*	332*	319*	292*	301*									290*	277	270*	327*	2690
2.0					564*	410	586*	476*	334*	321*	297*	311*	373*	219	341	357*					373*	219	341	357*	3000
1.5					615*	396	634*	615*	402*	298	375*	392*	385*	220	356	375*					296	181	281	349*	3300
1.0	689*	430	837	962*	644*	407	613*	646*	494*	286	461*	482*	395*	218	380	398*	274	170	264	336*	274	170	264	336*	3500
0.5	665	417	789	986*	591	359	634	812*	451	273	454	575*	339	209	390	433*	267	165	272	344*	267	165	272	344*	3500
0	780	490	795	958*	566	359	599	769*	424	267	439	552*	257	205	353	438*					306*	170	328*	332*	3400
-0.5	918*	494	902*	920*	673*	359	590	724*	492*	272	432	532*	371*	214	378	392*					308*	191	313*	324*	3250
-1.0	701*	479	705*	788*	551*	350	559*	596*	424*	266	421*	442*	290*	248*	323*	334*					290*	248*	323*	334*	3000
-1.5	512*	476	480*	527*	460*	360	412*	428*													354*	298	348*	388*	2200

NOISE/ VIBRATION					I9C-IE
Noise and Vibration		Uncertainty		Measurement conditions	
Noise at the operator station (LpA)	Cab – 70dB / Canopy – 68dB	(KpA)	± I dB	ISO 6396: 2008	
Noise emission from the machine (LWA)	87 dB	(KWA)	± I dB	ISO 6395: 1988	
Hand Arm Vibration (m/s²) Tracking duty Low Idle & Excavating duty	≤ 2.5	(K)	*	EN ISO 5349-2: 200 I	Based upon a test cycle defined in SAE J 1166
Whole Body Vibration (m/s²)	0.41	(K)	0.21	ISO 2631-1: 1997	

^{*} based on 50% uncertainty of measurement







100% electric. Zero emissions.

Your nearest JCB dealer

Electric Mini Excavator 19C-1E

Transport weight: 1,902 – 2,037kg Zero Emissions. Lithium-ion Technology.

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