

NEW



MINI EXCAVATOR | 15C-1/16C-1/18Z-1/19C-1/19C-1 PC

Transport weight: 1479-1868kg Net engine power: 10.8kW



CHOOSING A COMPACT EXCAVATOR JUST GOT TOUGHER

THE NEW GENERATION 1-2 TONNE COMPACT EXCAVATOR RANGE FROM JCB ENCOMPASSES FIVE MODELS INCLUDING FOUR CONVENTIONAL TAILSWING AND ONE ZERO TAILSWING MODEL.

There are two lightweight Conventional Tailswing models, the 15C and 16C. These are ideally suited to being towed behind a van or pickup. The 15C is a standard specification, fixed undercarriage model driven by a gear pump offering single speed tracking. The transport weight of the 16C at 1674kg with a cab is enhanced with a retracting undercarriage, two speed tracking and a variable displacement pump.

The 18Z is a zero tailswing model, offers the same performance features as the 16C, but in a zero tailswing package, facilitating work in tight environments such as footways and in between buildings. This helps to reduce risk of damage both to the machine and the workspace.

The 19C shares the same compact footprint as the rest of the range, however has greater tearout and lift capacity for customers carrying with greater requirements. There is also the option of a 1344mm dipper offering greater reach and dig depth.

The 19C PC has additional operating features offering customers an enhanced operating experience. Features such as Electro Proportional Control, Auto Kickdown, travel motors as well as the option of a hydraulic quick hitch, additional auxiliary lines and adjustable auxiliary flows are available.



CHOOSE TOUGH.

THE NEW GENERATION JCB MINI EXCAVATORS HAVE BEEN DESIGNED AND BUILT TO WITHSTAND THE TOUGHEST OF JOB SITES. WITH LONG-LASTING COMPONENTS AND EASY, COST EFFECTIVE REPAIRS, THEY PROVIDE MINIMUM DOWNTIME AND MAXIMUM PROFITS.

Designed to last.

1 Full width rear cast counterweight gives full protection against site damage.

All hydraulic components are assembled within a hydraulic clean room and go through multi-stage hot tests and oil detection processes to ensure reliability.

Improved dig end pins with ARCO coating protects pins against corrosion, helping towards reduced cost of ownership.

2 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.

3 The standard* heavy-duty kingpost optimises service life and lowers the cost of ownership due to the durable re-bushable pivots. *Excluding the 15C-1.

4 The top mounted boom ram reduces the risk of damage on site, for instance when loading dumpers.

5 Hoses are routed through the boom, dipper and kingpost for ultimate durability. All five models use O-ring faced seal hydraulics which provides excellent sealing capabilities.



Strong and durable.

6 The 18Z is JCB's first zero tailswing model within its class, it protects the machine and surrounding environment from accidental damage.

7 Solid cast rear door for maximum impact resistance compared to glass reinforced plastic.

8 Three single flanged bottom rollers allied with short pitch tracks ensures a smooth ride. Long pitch rubber or steel tracks are optional for more arduous applications.

9 The strong, durable H frame undercarriage provides rigid support with an open design allowing spoil to fall readily preventing excessive componentry wear.

For ultimate rigidity, the extending undercarriage beams are constructed from 25mm solid steel plate*.

*15C-1 has a fixed undercarriage.



CHOOSE EASY.

MOST JOBS ARE HARD ENOUGH WITHOUT THE ADDED STRESS OF DIFFICULT AND FREQUENT SERVICING, HARD TO REACH CLEANING AND OF COURSE UNCOMFORTABLE OPERATING CONDITIONS. THAT'S WHY WE'VE JUST MADE THEM EASY.

Making life easy.

1 Easy pre-start checks allows you to check fluid oil levels whilst an analogue hour meter gives you quick and easy viewing without having to turn the machine on.

Standard two speed tracking is operated by a button on the dozer. Auto kick-down is standard on the 19C-1 PC and optional on the 16C-1, 18Z-1 and 19C-1.

2 New right hand positioned panel with easy button functions, easy to read indicators and warnings allow the operator to always be aware of the machines status as well as potential risks.

3 Electro proportional control as standard on the 19C-1 PC enables new finer control through an auxiliary thumb switch to allow for precision control of attachments.



All new valve block, spools and floor controls allow for fine control and smooth operation for even the less experienced operator, increasing productivity.

Supporting productivity.

4 180° opening service door to access all cleaning and maintenance points with a separate, daily checks door.

5 Our hydraulic system allows you to travel in a straight line at the same time as selecting excavator functions, increasing productivity.

6 Spacious cab with large door entry, excellent visibility and intuitive controls. 24% bigger than the previous model. Easily accessible external lockable fuel tank provides extra security.



CHOOSE SIMPLE.

DESIGNED TO SIMPLY GET ON WITH WORKING, THE NEW GENERATION MINIS ARE ALL DESIGNED WITH YOUR PROFITS IN MIND. WITH A SIMPLE, CLASSIC DESIGN, LOW COST MAINTENANCE AND EASY REPAIRS EQUALS MACHINES TAILORED TO YOUR NEEDS, WHY CHOOSE ANYTHING ELSE?

Bucket rotation is a huge 201°, offering great spoil retention during truck loading, providing total versatility. Dipper lengths are 950mm, 1100mm and 1344mm.

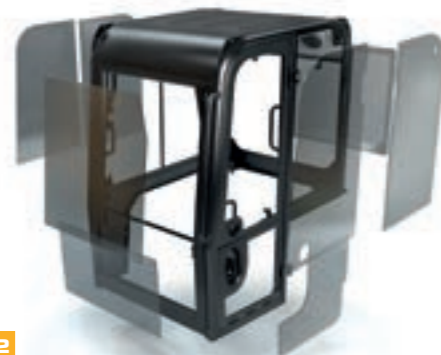
User-friendly environment.

1 Large glass area gives increased visibility. 70/30 split line and clear joining split gives perfect visibility down to the dozer blade.

2 Flat glass which is easier to replace and more cost effective than curved options, with the added benefit of sun reflecting tinted glass for operator comfort.

3 The new range boasts new instrumentation, the 19C-1 PC has the added benefit of an integrated membrane switch immobiliser pad.

4 Improved 2 speed heater with three multi-positioned vents for ultimate operator comfort.



Ultimate convenience.

5 Graphite impregnated bushes with industries lowest greasing intervals of 500 hours, means no need for daily greasing.

6 Hydraulic connections reduced along with hose length reductions and combined control valves; all deliver improved hydraulic efficiency and reduced component complexity.

Premium or rental specifications to help choose the right machine. Zero tailswing or Conventional tailswing plus cab or canopy options across the range.

7 Reduced minimum front swing radius for a compact machine that can tuck up to work in the tightest of conditions without compromise to load over height.



CHOOSE QUICK.

WHEN TIME IS MONEY AND GETTING FROM THE LAST JOB TO THE NEXT JOB QUICKER IS A HUGE ADVANTAGE, THE NEW GENERATION MINIS DON'T HANG ABOUT. QUICK CLEANING, TRANSPORTING AND ATTACHMENT CHANGES ALL ADD UP TO BIGGER PROFITS FOR YOU.



Ultimate versatility.

- 1** Industry standard bucket centres and pin sizes (30mm) for maximum attachment versatility.
- 2** Factory ready manual or hydraulic quick hitch (model specific) allows the operator to switch between attachments quickly and safely.
- 3** Choose from JCB's range of specially designed attachments. They provide ultimate performance, full JCB warranty compliance, and optimum fit and operation. Dual hydraulic flow is available as an option.

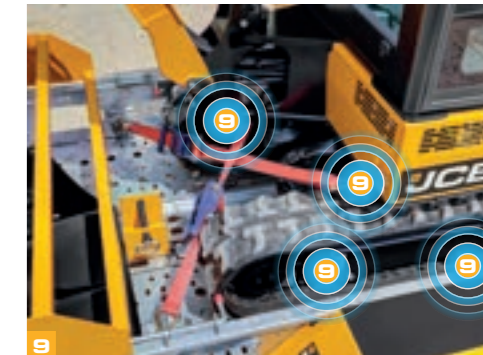


Low cost of ownership.

- 4** New dig end geometry allows the machines to load dumpers without the need to re-position speeding up arduous jobs on site.
- 5** Sloping undercarriage track legs gives minimal soil retention and enables fast cleaning.
- 6** The new dozer geometry allows the blade to become free of material build up. With easy to use swing out dozer wing extensions, there's no need for any tools for operation*.
- 7** No daily greasing with easy to access maintenance and cleaning means quicker turnaround times.

* Not applicable for the 15c-1

- 8** With low operating weights, each machine can be easily towed to wherever they're needed.
- 9** 10 tie down and lifting points ensure compliant, speedy machine transportation.



SAFE & SECURE.

WORKING QUICKER IS ALSO ABOUT WORKING SMARTER. AS WORKING CONDITIONS BECOME MORE AND MORE RESTRICTED, SAFETY BECOMES MORE AND MORE IMPORTANT. JCB HAS ALWAYS BEEN AT THE FOREFRONT OF SITE SAFETY AND PROVIDES INNOVATIVE WAYS TO IMPROVE IT.

Work smart.

- 1** The new cabs are fully ROPS and FOPS compliant, for increased protection laminated glass is available as an option.
- 2** All services, including tracking and dozer, are isolated when the control pod is raised as an additional safety precautionary measure.
- 3** Lift overload audible warning system on the 19c-1 PC ensures maximum stability and safety when working efficiently.
- 4** A lockable internal toolbox provides safe tool storage on all models.

Optional operator presence and seat belt isolation switches for increased on site safety.



Safely does it.

- 4** Optimum seat position with large glass area and bodywork design combine to give excellent all round visibility for increased on site safety. As a result, all models do not require mirrors to meet EU regulations.
- 5** JCB's unique 2GO system gives an additional layer of safety meaning all controls are fully isolated unless the 2GO button is activated.

For increased safety, there is a Thatcham approved immobiliser*, eliminating the possibility of an unauthorised start. Having the software system Livelink and Datatag* on the minis, will allow you to set a geofence and machine working restrictions.

A key benefit of the Livelink and immobiliser combination is the remote pin code management system, which allows you to remotely authorise or deny the usage of the machine. Up to 14 individual pin codes can be programmed into the system, offering the option to customise operator preferences by embedding a separate auxiliary mode in each code.

* Region specific.



LIVELINK, WORK SMARTER.

LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MANAGE JCB MACHINES REMOTELY – ONLINE, BY EMAIL OR BY MOBILE PHONE. ACCESS EVERYTHING FROM MACHINE ALERTS TO HISTORY INFORMATION, WITH ALL DATA STORED AT A SECURE CENTRE.

Productivity and cost benefits

By providing information like machine location, Livelink can help improve efficiency and perhaps even reduce insurance costs.



LIVELINK



Maintenance benefits

Manage machine maintenance easily – accurate hours monitoring and service alerts improve maintenance planning, while real-time location data helps you manage your fleet. Critical machine alerts and maintenance history records are also available.



Security benefits

Livelink's real-time geofencing alerts tell you when machines move out of predetermined zones, and real-time curfew alerts inform you of unauthorised usage. Further benefits include real-time location information, advanced ECU matching (pairs Livelink with the immobiliser or ECU), and PIN code management (to remotely authorise usage – perfect for plant hire).



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.

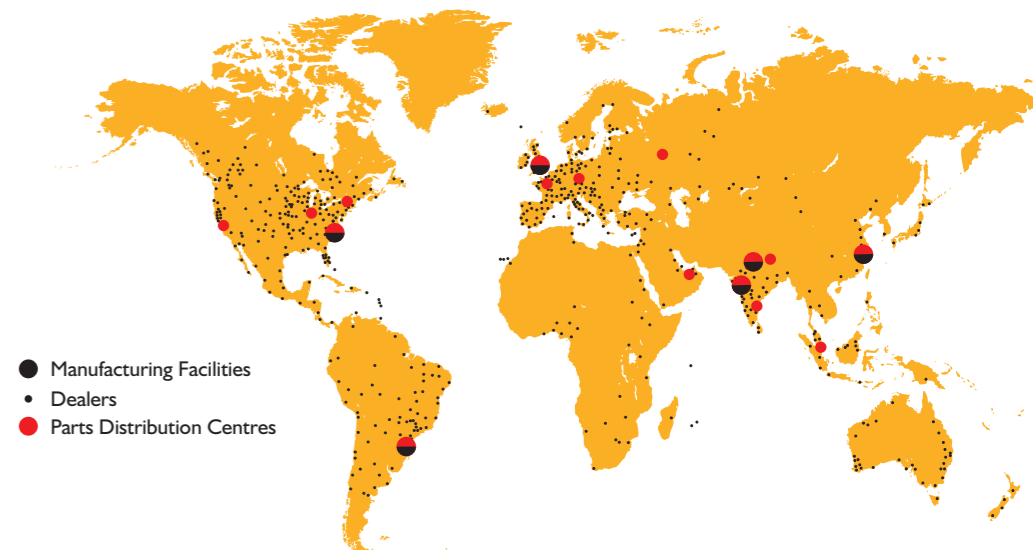


1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.



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.

3 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.



Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.

SPECIFICATION

15C-I/16C-I/18Z-I/19C-I/19C-I PC MINI EXCAVATOR

LIFT CAPACITIES – 230MM RUBBER TRACKS, 1800MM BOOM, 1100MM DIPPER, NO BUCKET.																						19C-I
Load Point	1.5m				2.0m				2.5m				3.0m				Capacity at maximum reach					
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	Distance	
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
2.5									401*	270	404*	420*					401*	270	404*	420*	2500	
2.0									372*	363*	376*	396*	404*	224	392*	412*	404*	224	392*	412*	3000	
1.5					465	439*	479*	506*	432*	278	445*	460*	398*	211	397*	417*	367*	188	371*	394*	3250	
1.0	942*	496	952*	987*	698	380	694*	732*	522*	280	524*	550*	430*	228	430*	451*	296	187	316	396*	3400	
0.5	718*	443	766	985*	599	348	617	806*	437	275	443	585*	343	214	363	460*	286	191	303	378*	3300	
0	840*	463	902*	885*	573	349	581	753*	435	269	449	586*	346	215	346	437*	346*	189	361*	363*	3300	
-0.5	856*	410	799*	820*	642	306	606*	634*	505*	258	452*	463*	385*	204	345*	345*	323*	197	313*	318*	3250	
-1.0	616*	403	668*	668*	509	302	518*	518*	383*	251	372*	372*					296*	231	295*	294*	2900	
-1.5					403*	298	413*	308*									330*	252*	338*	252*	2230	

LIFT CAPACITIES – 230MM RUBBER TRACKS, 1800MM BOOM, 1100MM DIPPER, NO BUCKET.																									19C-I PC	
Load Point	1.5m				2.0m				2.5m				3.0m				3.5m				Capacity at maximum reach					
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	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		

PSII NOISE/VIBRATION 15C-I / 16C-I / 18Z-I / 19C-I / 19C-I PC

Noise and Vibration		Uncertainty		Measurement conditions	
Noise at the operator station (LpA)	78 dB	(KpA)	± 1 dB	ISO 6396: 2008	
Noise emission from the machine (LWA)	93 DB	(KWA)	± 1 dB	ISO 6395: 1988	
Hand Arm Vibration (m/s ²)					
Tracking duty	≤ 2.5	(K)	*	EN ISO 5349-2: 2001	Based upon a test cycle defined in SAE J 1166
Low Idle & Excavating duty					
Whole Body Vibration (m/s ²)	0.41	(K)	0.21	ISO 2631-1: 1997	

* based on 50% uncertainty of measurement

- Lift capacity over front.
- 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.







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Mini Excavator 15c-1/16c-1/18z-1/19c-1/19c-1 PC

Transport weight: 1479-1868kg Net engine power: 10.8kW

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Download the very latest information on this product range at: www.jcb.com

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