

JCB 81



HIGH ON PERFORMANCE, HIGH ON SAVINGS.

Engine Power : 76 hp (57 kW) | Bucket Capacity : 0.24 - 0.32 cu.m | Operating Weight: 8050 kg



The New JCB 81 Excavator.

The NEW **JCB 81** is engineered for performance and savings. It delivers high fuel efficiency with operational modes for productivity and economy. The robust design with high-quality aggregates assure the reliability and durability of this machine. The advanced telematics technology JCB LiveLink, now, helps you stay connected with your machine. The alerts and reminders increase your machine's uptime. This is the NEW **JCB 81** machine with an optimised operating weight that delivers fuel efficiency, excellent operator comfort, 24x7 connectivity for high success and performance.

JCB 81



RELIABLE & DURABLE



EXCELLENT FUEL EFFICIENCY



PERFORMANCE & PRODUCTIVITY RE-DEFINED



STAY CONNECTED 24X7 LIVELINK



LOW MAINTENANCE COST



EXCELLENT OPERATOR COMFORT

RELIABLE AND DURABLE

Rugged upper frame provides durability in tough conditions.



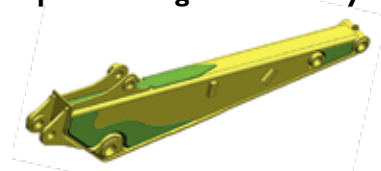
X-type construction of lower frame is for higher strength.



Reinforced boom : Sturdy construction with 3 box sections, strengthened boom base and boom top area.



Strengthened arm : Reinforced boom end joint, bucket mounting area & top plate for higher durability.



IP69 dust & waterproof connectors for electrical harness, for high reliability of electrical system.



Proven hydraulic components and filtration system for longer life



PERFORMANCE & PRODUCTIVITY REDEFINED

JCB 81 OFFERS YOU CLASS LEADING PRODUCTIVITY.

Excellent bucket and dipper tear-out force results in high output in hard strata.



Travel speed: JCB 81 is equipped with twin travel speeds for varying jobs.



Tear-out Forces

Bucket
5755 kgf

Dipper
4134 kgf



EXCELLENT FUEL EFFICIENCY

OFFERS EXCELLENT FUEL EFFICIENCY TO REDUCE YOUR FUEL COST.

New JCB 81 offers excellent fuel economy with a 10%* reduction in fuel consumption.



Auto idler for fuel saving, when machine is not at work.

Choice of

Productivity (P) & Economy (E) modes :

E : Economy mode - For fuel saving with optimum productivity.

P : Productivity mode- Increased productivity through pump flow when higher output is required.



*T&C Apply.

LOW MAINTENANCE COST

NOW MAINTENANCE HAS BECOME EASIER AND FASTER WITH THE NEW JCB 81.


Class-leading maintenance interval

Service intervals on bucket operation	
Engine oil, oil filter and fuel filters	Every 500 hours
Hydraulic main filter	Every 1,000 hours
Hydraulic oil	Every 5,000 hours


Hydraulic oil change interval
Every **5000** hours



Special filtration system extends hydraulic oil life up to 5000 hrs, which reduces the overall maintenance costs.




Radial seal-type air filter elements provide secure and error-free sealing. Filter elements are covered with wire mesh to avoid damage to filter paper during storage, handling and cleaning.



JCB 81 is equipped with robust filtration system having 3 nos. fuel filters and 1 no. water separator for high life of fuel injection system.

ULTIMATE EASE OF SERVICEABILITY



Compact and the easy-to-handle bonnet is assisted by a gas strut that helps in easy opening and closing. It makes periodic maintenance easy and effortless.

- Easy to access periodic checkpoints.
- Side by side radiator & cooler for ease of maintenance.
- Wire mesh provided to avoid clogging of radiator & oil cooler.
- Fuses & relays are located inside the cabin and are easy to access.
- Closed type grease bath system for slew gear.



Remote-mounted engine oil filter to allow easy access.

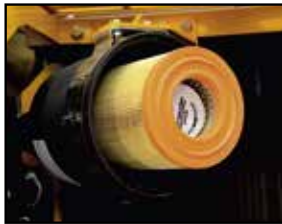
YOUR SAFETY OUR PRIORITY

JCB 8I OFFERS SAFE WORKING ENVIRONMENT.

Equipment safety system:

Audio-visual alerts provided in instrument panel for the following purpose :

Air-filter blockage



Low coolant level



Machine safety:

Servo isolator lever, over-ride system & swing-lock system provide additional safety against unintended machine operations.



Damage protection:
Belly guard at lower frame & undercovers for upper frame.



High visibility:
Single right-hand glass and low bonnet height for high visibility leads to safe operation.



Electrical safety:
Battery cover provided.



STAY CONNECTED 24X7

NOW BE ASSURED OF YOUR JCB EXCAVATOR'S SERVICE, OPERATION AND SECURITY WITH THE ADVANCED TELEMATICS SYSTEM CALLED LIVELINK.



Security



Alerts in case the machine is used outside the set hours



Geofencing alerts

Operation & performance monitoring



Idle time monitoring



Working hour monitoring

Proactive maintenance & usage



Maintenance reminders

Reports & alerts



Customised reports on machine performance



Easier fleet management



Periodic reports

Safety

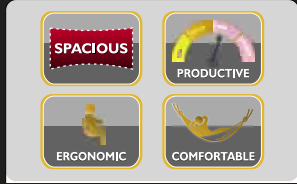


Critical health alerts



EXCELLENT OPERATOR COMFORT

A COMFORTABLE OPERATOR IS A PRODUCTIVE OPERATOR



Large cab with pressed steel construction offers increased internal space and enhanced overall visibility.



AC available as an option.



Clear display of warning & operating modes.



High visibility for working at different heights through glass provided in front of the cab.



Easy to open roof hatch assisted helps to keep the cab well ventilated.



Cabin is mounted on six viscous mounts to absorb vibrations.



Rubber coated track pedal and foot rests for operator comfort. Front lower glass can be removed for ventilation.

EXTENDED CARE

GIVE YOUR MACHINE EXTENDED WARRANTY AND CARE.

- JCB Careplus is an extended warranty programme that comes into effect after the machine standard warranty expires.
- JCB Careplus can be purchased within the 1st year from the sale of the machine.
- The programme offers you peace of mind and saves your maintenance cost even after your machine standard warranty expires.

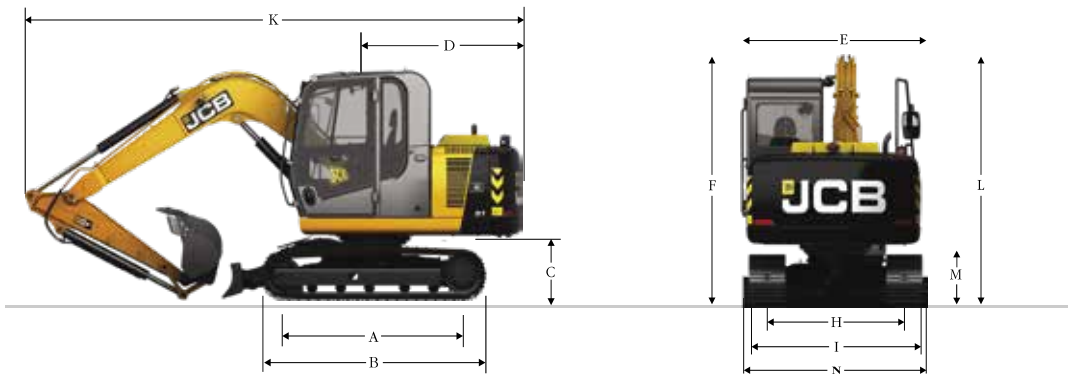


Extended Warranty Programme

BENEFITS OF JCB CAREPLUS

	No limits on number of claims		Preventive maintenance service*		Nationwide coverage*
	JCB skilled manpower support		Maximum productivity		Maximum uptime
	Maximum performance		Breakdown cost protection		Better resale value


*T&C Apply



STATIC DIMENSIONS

	Track Shoe Width	450 mm	600 mm
A	Track length on ground	2.24 m	2.24 m
B	Undercarriage overall length	2.84 m	2.84 m
H	Track gauge	1.70 m	1.70 m
I	Width over tracks	2.15 m	2.30 m
K	Transport with mono boom and 2.4 m dipper*	6.23 m	6.23 m
L	Transport height with mono boom and 2.4 m dipper*	2.77 m	2.77 m
C	Counterweight clearance	775 mm	775 mm
D	Tail swing radius	1.84 m	1.84 m
E	Width of superstructure*	2.22 m	2.22 m
F	Height over cab	2.72 m	2.72 m
N	Dozer blade width (back fill)	2.30 m	2.30 m
G	Ground clearance	365 mm	365 mm
M	Track height	660 mm	660 mm
Dozer blade (optional)			
	Max height (above ground)	366 mm	366 mm
	Dig depth (below ground)	243 mm	243 mm
	Approach angle	26°	26°
	Width	2.30 m	2.30 m
	Height	397 mm	397 mm
	Reach in front of tracks	480 mm	480 mm

WORKING RANGE: JCB 81

		
Boom length:		3.7 m
Dipper length:		1.74 m (Standard)
Maximum digging reach	m	6.45
Maximum digging reach (on ground)	m	6.32
Maximum digging depth	m	4.08
Maximum digging height	m	7.1
Maximum dumping height	m	5.40
Maximum vertical wall-cut depth	m	3.68
Minimum swing radius	m	1.84
Dipper tear-out	kgf	4.13
Bucket tear out - all machines	kgf	5.76
Bucket rotation	deg.	184°

ENGINE

Model	Kirloskar 4R 1040 NA
Gross power	76 hp at 2200 RPM (SAEJ 1995)
Alternator	85A

TRACK DRIVE

Gradeability	: 70% (35 deg.) continuous
Travel Speed	: High - 5.1 km/hr, Low - 3.1 km/hr
Tractive efforts	: 55.1 kN (5600 kgf)

UNDERCARRIAGE

Track type	: Sealed and greased
Track adjustment	: Grease cylinder type.
Track idler	: Sealed and lubricated, with spring enhanced recoil.
Track shoe	: 450 mm / 600 mm
Rollers and shoes (each side)	
Upper rollers	: 1
Lower rollers	: 5
Track shoes	: 39

SERVICE CAPACITIES

Fuel tank	164 L
Engine coolant	23 L
Engine oil	14 L
Track reduction gear (each side)	1.7 L
Hydraulic system	92 L
Hydraulic tank	55 L
Hydraulic tank	73.0 L

HYDRAULIC SYSTEM

Power modes

Pumps

Main pumps	: Variable displacement axial piston type.
Maximum flow	: 2 x 70.3 lpm (main).
Servo pump	: Gear type maximum flow.
Dozer	: Gear type, maximum flow 21.5 lpm

Control valve

Relief valve settings

Boom / Arm / Bucket	: 284 bar
Swing circuit	: 225 bar
Travel circuit	: 284 bar

FILTRATION SYSTEM

In-tank	: 105 microns, suction strainer.
Main return line	: 10 microns, fibre form element.
Pilot line	: 10 microns, paper element.
Hydraulic hammer (optional) return	: 10 microns reinforced microform element

SWING SYSTEM

Swing motor	: Axial piston type.
Swing brake	: Hydraulic braking assisted by spring applied disc-type parking brake.
Final drive	: Planetary reduction.
Swing gear	: Large diameter, internally toothed fully sealed grease bath lubricated.
Swing speed	: 12.5 rpm

EXCAVATOR BUCKET

Bucket size	Capacity	Weight
Max. width toe plate	Sae heaped	
800 mm	0.24 cu.m	318 kg
950 mm	0.32 cu.m	343 kg

STANDARD EQUIPMENT

- Dozer blade.
- FM radio.
- USB media player with speakers.
- Cab interior light.
- HSP pressure test points.
- Rock-breaker pipework mounting brackets.
- One work light each on boom & tool box.
- Upper structure under covers.
- Tool kit.
- Undercarriage belly guarding.
- 0.32 cu.m general purpose bucket.
- Additional work lights on cab and counterweight.
- Laminated glass on front and right hand side of cabin.
- LiveLink.

OPTIONAL EQUIPMENT

- Ripper tooth
- 0.24 cu.m bucket
- Rock-breaker (HM390)
- Rock-breaker circuit
- First aid kit
- Fire extinguisher
- Air-conditioned cabin
- Cab grill (front & top)
- Short boom & arm
- 450mm / 600 mm track shoes