

THE NXT LEVEL

Engine Power : 100 hp (75 kW) | Bucket Capacity : 0.63 - 0.72 cu.m | Operating Weight : 14,500 kg



Take your business to THE NXT LEVEL, with the JCB NXT 145 Quarry Master Tracked Excavator.

JCB presents the JCB NXT 145 Quarry Master Tracked Excavators, a rugged solution that is tough outside and intelligent inside.

It has enhanced endurance attributed to a newly inducted heavy-duty boom, extra safety features and added comfort for the operators.Powered by IntelliControl, an intelligent way that offers NXT level fuel efficiency and productivity, with the utmost ease of use and control on the machine operation, maintenance and safety. IntelliControl offers 3 power modes, across 10 engine speed bands.

The JCB NXT 145 Quarry Master comes with an advanced telematics system - JCB LiveLink, which is CAN based technology that keeps you connected for total control over machine improving your business efficiency.Backed by industry's finest customer support network, always look for a better way with JCB.

Take your business to THE NXT LEVEL, with the new JCB NXT 145 Quarry Master Tracked Excavators.

UCE

THE NXT LEVEL | 2

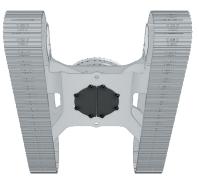




NXT LEVEL OF RELIABILITY ENHANCED ENDURANCE INSIDE AND OUTSIDE.







Belly guard ensures protection of the rotary joint and hoses from any external damage

2 nos of track guides on each side-retain the track in its position while working in tough underfoot conditions



NXT LEVEL OF PERFORMANCE

GET NXT LEVEL OF PERFORMANCE WITH NEW POWER MODES FOR UNMATCHED OUTPUT.

3 User-friendly modes			
Powe	er	Usage	
P+	Power Plus	Provides maximum output. Suitable for high output in heavy-duty strata.	
Р	Power	For high output requirements.	
E	Economy	For general duty and digging operations.	



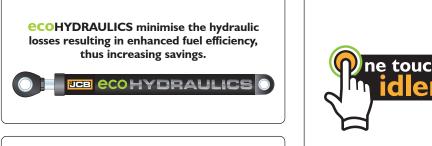
KCELLENT

Excellent bucket and arm tear-out forces resulting

higher output.

NXT LEVEL OF EFFICIENCY

THE CLASS-LEADING EFFICIENCY WITH ENERGY SAVING **COHYDRAULICS** OFFERING NXT LEVEL OF SAVINGS.

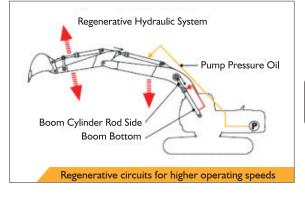




Auto idler reduces engine speed automatically when the machine is not at work, thus saving fuel.



One-touch deceleration system, helps to reduce engine rpm by just giving one-touch to the switch.





*T&C Apply.

THE NXT LEVEL | 6



7 | JCB NXT 145 QUARRY MASTER

NXT LEVEL OF EASY MAINTENANCE AND SAFETY

THE JCB NXT 145 QUARRY MASTER ENSURES EASE OF MAINTENANCE AND ALERTS ON DISPLAY.



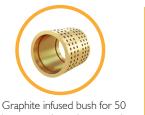


health alerts





due reminder



hours greasing at boom ends

overuse alert

First-in-class safety features



Te Selectable swing lock

Hydraulic interlock

to start the engine



2 Go system



Hydraulic accumulator

Q



Engine & hydraulic overheat safety system



Advanced self-diagnosis system with error codes and multi-coloured warning alerts for easy and quick maintenance.



Display of all critical parameters accessed through internal menu for easy health monitoring.



Alerts about high engine coolant temp, low engine oil pressure & high hydraulic oil temperature.



Wire mesh guard on the cooling pack to prevent entry of debris or other objects.



Compact size engine bonnet helps in easy and effortless handling during the maintenance.



Battery disconnect switch helps to isolate the machine's electric system easily, whenever required.



NXT LEVEL OF COMFORT

A COMFORTABLE OPERATOR IS A PRODUCTIVE OPERATOR.



controls.



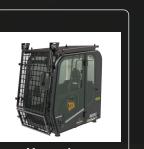
Powerful AC cabin.



Thin and low effort joystick.



Laminated glass on the front and right-hand side of the cabin.



Heavy-duty cab guards.



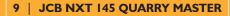
6 nos. viscous mounts to absorb vibration that ensures comfort for the operator.



Better ventilation and visibility.



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



"All dimensions, weights, timings, features & measurements mentioned in the brochure could have variance. JCB reserves the right to change specifications without prior notice."

NXT LEVEL OF CARE

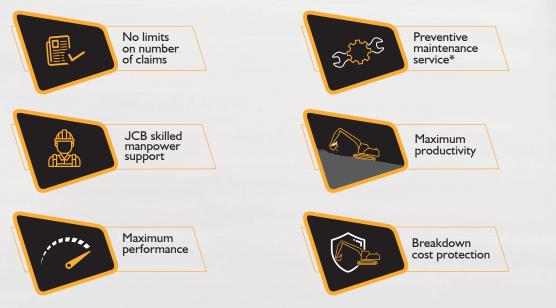
GIVE YOUR MACHINE EXTENDED WARRANTY AND CARE.

- 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.

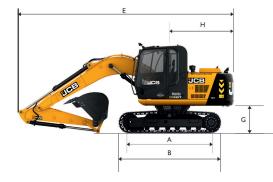


BENEFITS OF JCB CAREPLUS

THE NXT LEVEL | 10





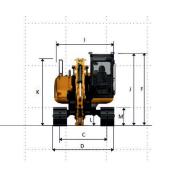


STATIC DIMENSIONS

		<u> </u>	
	With boom length: 4.70 m, dipper length: 2.10 m		
Α	Track length on ground	m	2.78
В	Undercarriage overall length	m	3.55
С	C Track gauge		1.99
D	Width over tracks (500 mm track shoes)	m	2.49
E	Transport length with mono boom	m	7.63
F	Transport height with mono boom		2.98
G	G Counterweight clearance		910
н	Tail swing radius	m	2.15
I	Width of superstructure	m	2.41
J	Height over cab	m	2.98
К	Height over grab rail	m	2.62
L	Ground clearance	mm	460
М	1 Track height		815

* Machine in transport position

WORKI	NG RANGE	
Boom length:		4.70 m
Dipper length:		2.10 m
Maximum digging reach	m	8.04
Maximum digging reach (on ground)	m	7.89
Maximum digging depth	m	5.21
Maximum digging height	m	8.89
Maximum dumping height	m	6.37
Maximum vertical wall cut depth	m	4.64
Maximum swing radius	m	2.12
Bucket rotation	dig.	182°
Maximum dipper tear-out (ISO 6015	kgf	7566
Maximum bucket tear-out (ISO 6015)	kgf	9432



	E	NGINE
Model	:	Cummins 4BT 3.9C.
Gross Power	:	100 HP
Piston displacement	:	3.9 L

	TR	ACK DRIVE
Gradeability	:	70% (35 deg.) continuous
Travel speed	:	3.6 kmph
Tractive effort	:	104.1 KN (10615 kgf)

EXCAVATOR BUCKET

Bucket size Max. width toe plate	Capacity
1.04 m	0.63 cu.m
1.16 m	0.72 cu.m

UNDERCARRIAGE		
	JCB NXT 145Quarry Master	
Track Shoe	500 mm (standard)	
Upper & lower rollers	Heat-treated, sealed and lubricated.	
Track adjustment	Grease cylinder type.	
No. of track guides	2 per side	
No. of lower rollers	7 Per side	
No. of upper rollers	l per side	
No. of track shoes	44 per side	

FORCES	
Bucket tear-out force	9432 kgf
Arm digging force	7566 kgf

SWING SYSTEM

Swing motor	:	Axial piston type.
Swing brake	:	Hydraulic braking, electrically operated spring applied disc type parking brake.
Final drive	:	Planetary reduction.
Swing gear	:	Large diameter, internally toothed fully sealed grease bath lubricated.
Swing speed	:	13.6 RPM

HYDRAULIC SYSTEM

3 Work modes: eco, Power & Power+ Pumps Main pumps : 2 variable displacement axial piston type. Maximum flow : 2 x 120 L/min Servo pump : Gear type. Maximum flow : 20 L/min Control valve Relief valve settings Boom / Arm / Bucket : 330 bar Swing circuit : 279 bar : 330 bar Travel circuit Pilot control : 40 bar

WEIGHT AND GROUND BEARING PRESSURE			
Operating weight	14,500 kg.		
Ground bearing pressure	0.47 kg/sa.cm.		

STANDARD EQUIPMENT

Engine fan guard Turbine type air pre-cleaner FM radio and music player with speakers Auxiliary pipework mounting brackets Boom and mainframe mounted work lights Cab mounted work lights (2 no.) Undercarriage belly guards Upper structure under covers Tool Kit Handrail Windscreen wiper Radiator fly mesh Mirror on cab grabrail LiveLink Heavy-duty track motor cover Heavy-duty cab front & top guard Front work lamp guards 500 mm track shoe Laminated glass on the front and right-hand side of the cabin

OPTIONAL EQUIPMENT

Fully-ducted, air-conditioned cab (Cooling only)
Mirror on handrail RH
Refuel pump
Rockbreaker
Rockbreaker pipework
Ripper tooth
Option of 0.72 & 0.63 cu.m buckets
Counterweight lamp
First aid kit
Fire extinguisher
Reflectors
Cold start kit

FILTRATION SYSTEM

In-tank Main return line		150 microns, suction strainer.10 microns, high-efficiencyglass fibre
Pilot line	:	10 microns, paper element.
Hydraulic hammer return	:	5 microns, reinforced microform element.