NEW **JCB 345LC HEAVY DUTY** | TRACKED EXCAVATOR



POWER TO DO MORE

Engine power: 165 kW (221 hp) | Bucket capacity: 1.24 - 1.80 m^3 | Operating weight: 34.3 - 35.5 Tonne

JCB

POWER TO DO MORE

We don't settle for ordinary, we aim for exceptional. With enhanced power, precision, and versatility, this machine transcends limitations, enabling you to accomplish tasks that were once considered challenging.

When the going gets tough, the tough gets going. Introducing the JCB 345LC HD, which assures longevity and boosts productivity. It is a dependable product that comes with the advanced telematics technology of JCB LiveLink for enhanced connectivity. It's a vital product to excel in difficult quarrying and mining tasks with enhanced uptime monitoring and customer support.



RELIABILITY & DURABILITY

WHEN YOU'RE TACKLING TOUGH APPLICATIONS AND DIFFICULT WORKING CONDITIONS, YOU NEED RELIABILITY AND DURABILITY. THE NEW JCB 345LC HD OFFERS EXACTLY THAT. HIGH-QUALITY COMPONENTS ALONG WITH SIMPLE AND ROBUST MECHANICAL FUEL INJECTION ENSURES EASE OF MAINTENANCE.

1 JCB's DIESELMAX engine with mechanical inline fuel injection system helps to enhance life of the components of the fuel injection system.

2 Heavy-duty boom and arm with cast pivots provides high strength and long life durability.

3 Advanced manufacturing and assembly processes helps in high level of precision and quality in components.

4 With a heavy-duty lower frame, an upper structure, and a high-strength boom and arm, this excavator is designed to excel at tough work like quarry applications.

5 A mechanical override of the engine throttle system is provided which helps to enhance machine uptime.



2 **Dig end**: With cast pivots for high strength



3



4



Improved counter weight installation with 6 bolt mounting



Including improved bucket design
1.24,1.49,1.61,1.80 cu.m



13 mm Heavy-duty track chain with thicker shoes, large section links & rollers

1 **JCB's Dieselmax Engine**



Handrail improvement
(Side to top mounting)



5 **Mechanical override system**



PERFORMANCE

FIRST AND FOREMOST, THE NEW JCB 345LC HD IS DESIGNED TO MOVE MATERIAL IN GREAT QUANTITY AS QUICKLY AS POSSIBLE. IT HAS 7.2-LITRE JCB DIESELMAX FUEL EFFICIENT ENGINE THAT IS POWERFUL.

1 The 6 - cylinder 7.2 - litre JCB DIESELMAX engine produces its peak power 165 kW (221 hp) and torque (960 Nm).

2 With a massive 221.5 kNm of bucket tear out force, fast cycle times in quarry and mining applications. The intuitive multifunctional operation makes simultaneous tracking and excavation smooth and fast.

3 A JCB 345LC HD provides a solid, stable work platform.

4 Choose from a range of hydraulic pipework options and you'll be able to use your JCB 345LC HD with a variety of JCB attachments for the ultimate versatility.




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EFFICIENCY

THE JCB 345LC HD IS DESIGNED TO MOVE MORE MATERIAL FOR LESS. TO ACHIEVE THIS, WE'VE DESIGNED THE ENGINE AND HYDRAULICS TO WORK IN PERFECT HARMONY FOR THE ULTIMATE EFFICIENCY.

1 The JCB DIESELMAX engine has an Eco mode, which reduces fuel consumption whilst maintaining substantial productivity levels.

2 Auto idle reduces engine speed to 1100 rpm after 6 seconds of machine inactivity. The engine speed is restored as soon as you operate the excavator again.

3 The innovative hydraulic regeneration system recycles oil across the cylinders for faster cycle times and reduced fuel consumption.

4 For even more fuel savings, you can use our innovative one-touch idle feature to reduce engine speed at the push of a button.

5 The machine has an optimised hydraulic pump settings for precise and efficient oil flow. The optimised spool configuration within the main valve block delivers the flow for arduous applications.




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COMFORT MADE EASY

HERE AT JCB, WE TAKE OPERATORS' COMFORT AS PRIORITY, BECAUSE IT CONTRIBUTES TO PRODUCTIVITY. THE NEW JCB 345LC HD IS THEREFORE, A COMFORTABLE AND ERGONOMICALLY DESIGNED EXCAVATOR. IT ALSO HAS AN AIR CONDITIONED CABIN FOR MAXIMUM OPERATOR COMFORT AS STANDARD.

1 To minimise noise and vibration, the cab sits on six viscous rubber mounts.

2 JCB's climate control option offers a precisely controlled cab temperature with fresh or recirculated air.

3 The spacious floor area with large high grip rubber coated pedals and a rubber footrest is a perfect set-up for operator comfort.

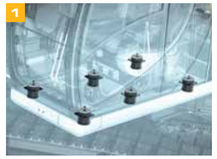
4 Ventilation is plentiful, through the standard cab roof hatch and sliding window on LH side.

5 A 70/30 front screen split gives the JCB 345LC HD excellent front visibility. A clear view of the front right track provides easy, safe trench digging and comfortable manoeuvring.

6 Operators are well informed about important information via the 8.89 cm (3.5 inch) display. Its settings can be accessed via a new rotary controller.

7 A spacious storage area behind the seat provides plenty of room for operator's personal items.



















EASE OF MAINTENANCE

WE WANTED TO MAKE SURE THAT THE NEW JCB 345LC HD WAS AS AFFORDABLE, EFFICIENT AND HIGHLY PRODUCTIVE AS POSSIBLE. IT IS AN EASY TO MAINTAIN AND SERVICE EXCAVATOR, HELPING YOU TO GET THE BEST.

1 To prevent blockages in the cooling pack, a fly-mesh guard has been fited. The condenser unit is hinged so it swings out easily, providing access to the other coolers for cleaning. Because they're mounted side by side on a JCB 345LC HD, the engine radiator, hydraulic cooler and intercooler can be serviced individually and cleaned easily.

2 Fluid filters (engine oil and fuel) are centrally located for fast and easy servicing.

3 It's easy to keep track on the maintenance on this excavator because the in-cab monitor displays useful reminders. Users can also track machines using JCB LiveLink telematics to stay well informed about all the upcoming maintenance requirements.

4 Radial seal air filter with wire mesh ensures error proof fitment and ease of maintenance.

5 JCB 345LC HD bonnet opens and closes easily with gas-assisted cylinders, and the service bays are large and wide for good access.

6 There is a large 590-litre fuel tank to allow long operating hours between refills.













SAFETY

FOR OVERALL SAFETY, THE NEW JCB 345LC HD IS EQUIPPED WITH EXCELLENT VISIBILITY TO ALL CORNERS, NON-SLIP SURFACES AND SAFE SERVICE ACCESS.

1 A large glass area and low bonnet line offers superb visibility.

2 This excavator is equipped with a full set of side and rear view mirrors for all round visibility.

3 With work lights, you can rely on optimum all-round visibility even in low-light conditions.

4 JCB's optional rear view camera displays an uninterrupted rear view for improved operator confidence whilst machine operation.

5 The bonnet opens front-to-rear for easy and safe engine service access.

6 JCB's Safety Level Lock fully isolates hydraulic functions to avoid unintended movements. JCB's 2GO system means a new JCB 345LC HD can only be started in a safe locked position via two separate inputs.

7 The steps and platforms have anti-slip punched steel plates for optimum grip. Bolt-on plates have recessed bolts to reduce trip hazards.

8 Livelink-telematics system is a standard feature. This innovative JCB feature helps you to maximise security, fleet utilisation, and allows you to monitor useful information like fuel usage on different shifts.

9 Standard ROPS & FOPS provides enhanced safety with standard Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS).

10 To prevent engine damage in arduous conditions, there is an engine overheat safety system as standard.




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6
HYDRAULIC • ISOLATION • SYSTEM
2 GO


7

8
LIVE JCB LINK

LIVELINK

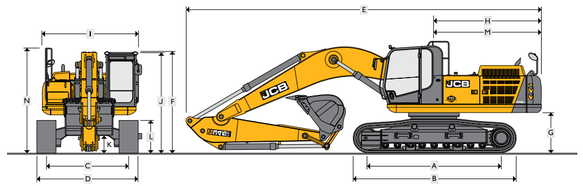
LIVE JCB LINK

MAXIMISE **UPTIME**

MAXIMISE **PRODUCTIVITY**

OPTIMISE **COST**

MAXIMISE **PROFITABILITY**



STATIC DIMENSIONS

Model			JCB 345LC HD	
	Dipper lengths	mm	2500	3100
A	Track length on ground	mm	4021	
B	Undercarriage overall length	mm	4962	
C	Track gauge	mm	2600	
D	Width over tracks (600 mm trackshoes)	mm	3200	
D1	Width over tracks (700 mm trackshoes)	mm	3300	
D2	Width over tracks (800 mm trackshoes)	mm	3400	
D3	Width over tracks (900 mm trackshoes)	mm	3500	
G	Counterweight clearance	mm	1160	
H	Tail swing radius	mm	3243	
I	Overall width of super structure	mm	2997	
J	Height over cab	mm	3232	
K	Ground clearance	mm	503	
L	Track height	mm	1003	
M	Tail length	mm	3213	
N	Height over grab rail	mm	3333	
	Boom option	mm	6200	
E	Transport length	mm	10 740	10 630
F	Transport height	mm	3 498	3 274

ENGINE

Model	JCB DIESELMAX 672 mechanical engine
Type	Water cooled, 4-stroke, 6-cylinder in line, mechanical direct injection, turbocharged, intercooled
Rated power	165 kW (221 hp) at 1800 rpm
Piston displacement	7.2 L
Air filtration	Dry element with secondary safety element & in-cab warning indicator.
Starting system	24 V
Batteries	2 x 12 V
Alternator	24 V, 55 A

SLEW SYSTEM

Slew motor	Axial piston type.
Slew brake	Negative type, oil lubricated, multi-disc parking brake.
Slew torque	100.3 kNm
Slew speed	9.4 rpm
Slew gear	Large diameter, internally toothed fully sealed grease bath lubricated.

UNDERCARRIAGE

Carriage options	LC - Long Carriage.			
Construction	Fully welded 'X' frame type with central belly guarding and sloping side members with dirt relief holes under top rollers.			
Recovery point	Front and rear.			
Track shoe options	600 mm	700 mm	800 mm	900 mm
Upper and lower rollers	Heat treated, sealed and lubricated.			
Track adjustment	Grease cylinder type.			
Track idler	Sealed and lubricated, with spring cushioned recoil.			
Track type	Sealed and lubricated.			
Rollers and shoes (each side)	LC			
No. of track guides	2 per side			
No. of lower rollers	9 per side			
No. of upper rollers	2 per side			
No. of track shoes	48 per side			

TRACK DRIVE

Type	Fully hydrostatic, two speed with autoshift
Travel motors	Variable swash axial piston type, fully guarded within undercarriage
Final drive	Planetary reduction, bolt-on sprockets
Service brake	Hydraulic counter balance valve
Park brake	Disc type, spring applied, automatic hydraulic release
Gradeability	70% (35 deg) continuous.
Travel speed	High - 4.5 km/h
	Low - 2.7 km/h
Tractive effort	289 kNm

HYDRAULIC SYSTEM

Open centered, negative control hydraulic system with twin variable flow piston pumps providing flow-on-demand.

Pumps	
Main pumps	2 variable displacement axial piston type.
Maximum flow	2 x 250 LPM
Servo pump	Gear type
Maximum flow	18 LPM
Control valve	
A combined four and five spool control valve with auxiliary service spool as standard	
Relief valve settings	
Boom/Arm/Bucket	343 bar MRV (392 bar ARV).
Swing circuit	290 bar
Travel circuit	343 bar
Pilot control	39 bar
Filtration	
In tank	195 μm, suction strainer.
Main return line	10 μm
Pilot line	10 μm
Hydraulic hammer return	10 μm, aluminium housing with perbunan (NBR) seals

SERVICE CAPACITIES

Fuel tank	L	590
Engine coolant	L	32
Engine oil	L	30
Swing reduction gear	L	16
Track reduction gear (each side)	L	5
Hydraulic system	L	430
Hydraulic tank*	L	239

*Deduction cylinder volumes and service fill (25 litres).

WEIGHTS AND GROUND BEARING PRESSURES

Figures include 1.49 m³ (1 443 kg) bucket, 80 kg operator, full fuel tank and 2.5 m dipper.

JCB 345LC HD		600 mm shoes	700 mm shoes	800 mm shoes	900 mm shoes
Operating weight	Tonne	34.23	34.55	35.19	35.54
Ground Pressure	kPa	64.86	56.10	50.00	44.89
Ground Pressure	kg/cm²	0.66	0.57	0.51	0.46

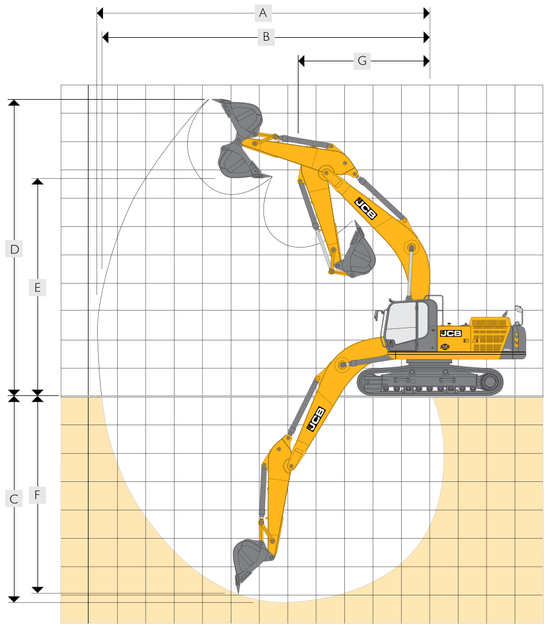
BUCKET AND ARM COMBINATION

Bucket width	m	1.3	1.51	1.6	1.76
Bucket capacity	m³	1.24	1.49	1.61	1.80
Bucket weight	kg	1 282	1 443	1 542	1 629
LC					
2.5 m No Quickhitch (Quickhitch)	m	❑ (■)	■ (●)	●	●
3.1 m No Quickhitch (Quickhitch)	m	❑ (●)	●	●	

❑ = Suitable for general excavating (materials up to 1 800 kg/m³)
■ = Suitable for light excavating (materials up to 1 500 kg /m³)
● = Suitable for grading and loading (materials up to 1 200 kg/m³)

STANDARD/OPTIONAL EQUIPMENT

	Standard	Optional
Alarm	-	Travel alarm
Arm	2.5 m Heavy-duty arm	3.1 m Heavy-duty arm
Beacon	-	Warning beacon
Breaker	-	HM270T (includes moil & chisel)
Belly plate thickness	Undercarriage 6 mm, revolving frame 2 mm	10mm plate (undercarriage & revolving frame)
Buckets	1.61 m³ HD	1.24 m³ HD, 1.49 m³ HD, 1.80 m³ HD
Camera	-	Rear-view camera with monitor
Climate control	Standard climate control	Carbon filter
Fire extinguisher	-	Fire extinguisher kit
Hydraulic oil	Hydraulic oil HP46	Hydraulic oil HP32, Hydraulic oil HP68
Lifting hook	-	Lifting hook on tipping link (hook or eye)
Lights	6 x Standard halogen worklights	Worklight guards
Pipework options	-	Hammer pipework Open/close pipework (high flow double acting) Rotate pipework (low flow double acting) Merged high flow (double acting)
Quickhitch	-	Hydraulic quick hitch & installation kit
Track guides	Three track guides	Full length track guides
Trackshoes	13 mm Standard duty	600 mm 700 mm
Cabin	ROPS/FOPS certifed cabin	-



WORKING RANGE MONOBOOM 6.2 M				
	Operating weight	kg	-	-
	Operating weight difference	kg	-	-
	Dipper length	mm	2 500	3 100
A	Maximum digging reach	mm	10 112	10 708
B	Maximum digging reach (on ground)	mm	9 895	10 494
C	Maximum digging depth	mm	6 562	7 152
D	Maximum digging height	mm	9 956	10 298
E	Maximum dumping height	mm	6 916	7 238
F	Maximum vertical wall cut depth	mm	5 777	6 495
G	Minimum swing radius	mm	4 070	4 105
	Bucket rotation	deg	175°	175o
	Maximum dipper tear-out	kN	156.2	126.5
	Maximum bucket tear-out	kN	221.3	221.5

LIFT CAPACITIES – Dipper length: 2.5m, Boom: 6.2m, 600mm Trackshoes, No bucket.

	Reach from Swing Centre										
Load Point	3.0m		4.5m		6.0m		7.5m		Capacity at Maximum Reach		
Height	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
7.5m	-	-	-	-	7 108	7 108	-	-	7 221	7 221	6 552
6m	-	-	-	-	7 429	7 429	7 169	5 819	7 180	5 711	7 580
4.5m	-	-	10601	10601	8 424	7 995	7 468	5 676	7 292	4 905	8 203
3m	-	-	13 473	11 248	9 701	7 513	8 061	5 451	7 165	4 502	8 513
1.5m	-	-	-	-	10 806	7 121	8 479	5 243	7 002	4 366	8 546
0m	-	-	15 684	10 396	11 407	6 904	8 334	5 113	7 220	4 472	8 304
-1.5m	12 994	12 994	15 192	10 432	11 369	6 859	8 322	5 102	7 943	4 892	7 762
-3m	18 646	18 646	13 844	10 633	10 475	6 985	-	-	8 857	5 887	6 846
-4.5m	-	-	10 943	10 943	-	-	-	-	8 990	8 606	5 358
-6m	-	-	-	-	-	-	-	-	-	-	-

LIFT CAPACITIES – Dipper length: 3.1m, Boom: 6.2m, 600mm Trackshoes, No bucket.

	Reach from Swing Centre														
Load Point	1.5m		3.0m		4.5m		6.0m		7.5m		9m		Capacity at Maximum Reach		
Height	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
7.5m	-	-	-	-	-	-	-	-	-	-	-	-	5 536	5 536	7 304
6m	-	-	-	-	-	-	6 655	6 655	6 461	5 944	-	-	5 339	5 042	8 236
4.5m	-	-	-	-	9 355	9 355	7 708	7 708	6 917	5 760	-	-	5 364	4 407	8 812
3m	-	-	-	-	12 267	11 658	9 075	7 661	7 608	5 511	6 410	4 152	5 575	4 076	9 101
1.5m	-	-	-	-	14 576	10 806	10 349	7 216	8 312	5 272	6 484	4 042	5 994	3 956	9 131
0m	-	-	-	-	15 567	10 436	11184	6 931	8 325	5 100	-	-	6 502	4 028	8 906
-1.5m	-	-	12 202	12 202	15 519	10 367	11 422	6 818	8 248	5 031	-	-	7 037	4 340	8 404
-3m	14 090	14 090	19 159	19 159	14 588	10 489	10 926	6 867	8 327	5 107	-	-	8 209	5 052	7 568
-4.5m	-	-	17 149	17 149	12 434	10 814	9 122	7 126	-	-	-	-	8 547	6 741	6 262
-6m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lift capacity front and rear.

Lift capacity full circle.

Notes:
1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
2. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
3. Rated loads are limited by hydraulic capacity rather than tipping load.
4. Lifting capacities marked* are based on hydraulic capacity.

About us

JCB is the world's leading manufacturer of earthmoving equipment.

In 1945, Joseph Cyril Bamford embarked on a journey of engineering brilliance, channelling his innovative spirit to redefine construction equipment. His visionary engineering skills led to the groundbreaking JCB Backhoe Loader in 1953, a game-changer that transformed the construction landscape. Fast forward to today, where JCB boasts a diverse fleet of over 300 cutting-edge machines spanning six continents, solidifying its position as the global leader in Backhoes and Telescopic Handlers.



Lord Bamford
Chairman, JCB Group

JCB Group across the globe



ONE GLOBAL QUALITY

23 PLANTS | **770+** DEALERS | **2200+** OUTLETS | **150+** COUNTRIES | **15000+** EMPLOYEES

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