



TRACKED EXCAVATOR | JS205 SC/LC/NLC

Engine power: 104 kW (140 hp) Bucket capacity: 0.9 – 1.02m³ Operating weight: 21000 – 21500kg



STRENGTH INSIDE AND OUT.

BEFORE YOU BUY AN EXCAVATOR, YOU NEED TO KNOW IT'S GOING TO BE TOUGH ENOUGH TO PERFORM ANY JOB YOU ASK OF IT. FORTUNATELY, WITH A JCB JS205, STRENGTH AND DURABILITY COME AS STANDARD.



1

Boom and dipper.

1 We've designed an all-new heavy-duty boom and dipper that's made up of bigger sections for high durability and strength.

Robust cast ends and pivot bosses make the new JS205's boom and dipper extremely strong.

2 Our advanced manufacturing and assembly processes produce high precision and quality assembled components.

Componentry.

3 JCB JS205s boast the best components in the industry, including Berco running gear, Kawasaki pumps, Cummins engine and Kayaba main control valves.



We use Finite Element Analysis with extensive rig and endurance testing to make key components last longer.



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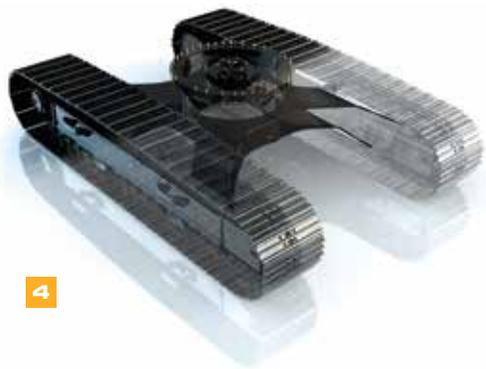
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Structural strength.

- 4 The new JS205 features a heavy-duty X-type frame with sloped side members to stop material build-up. Our Long Carriage version has a double-plate strengthened idler area.
- 5 A closed box section revolving frame increases strength and reduces stress. It is also highly resistant to impact damage.
- 6 The JS205's high-strength rigid upper frame provides maximum durability and support.
- 7 Our stiff, durable door design gives great strength and rigidity.
- 8 We've fitted under belly guards on the lower frame to give additional protection to key components.
- 9 A damage protection plate and wear ribs on the dipper guard against external damage.



The JCB JS205 turret is welded to both the upper and lower undercarriage frame.



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MAXIMUM PRODUCTIVITY, MINIMUM SPEND.

IT'S MORE IMPORTANT THAN EVER TO SAVE MONEY AND TIME; THE JCB JS205 RANGE IS DESIGNED TO MAKE THE MOST OF BOTH.

Upping output.

1 A bucket tearout of 129.5 kNm and a dipper tearout of 114.7 kNm mean the JS205 can really get the job done quickly, even in very hard strata.

2 Simultaneous tracking and excavating is smooth and fast with an intuitive multifunction operation.

Efficiency.

The new JS205 is highly fuel efficient, courtesy of JCB's advanced hydraulic system – this only uses as much power as it requires.

Optimised hydraulic pump settings and a revised spool configuration within the main valve block, only delivers the required oil flow, preventing wasted energy.

3 The proven and efficient Cummins engine is designed and developed to work in all climates around the world. The mechanical engine ensures more uptime, being better suited to lower quality fuel and air, making the JS205 reliable and durable.



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With two operating modes, you can optimise both power and economy on the JS205. Economy mode saves fuel without sacrificing too much performance, while Power mode provides increased engine power and pump flow for fast, high output operations.

Stability, hydraulics and attachments.

4 JCB's innovative hydraulic regeneration system means oil is recycled across the cylinders for faster cycle times and reduced fuel consumption.

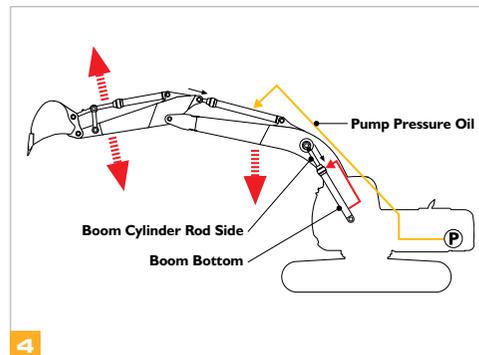
5 For versatility, JCB offers auxiliary pipework for hammers.

6 A JCB JS205 has cushioned boom and dipper ends to prevent shock loadings, protect your machine and increase operator comfort.

7 A JCB JS205 has a solid, stable work platform for fast cycle times.



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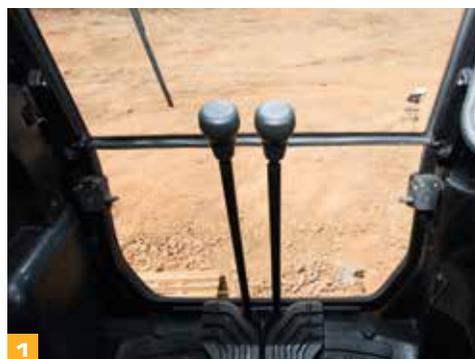
A COMFORTABLE FAVOURITE.

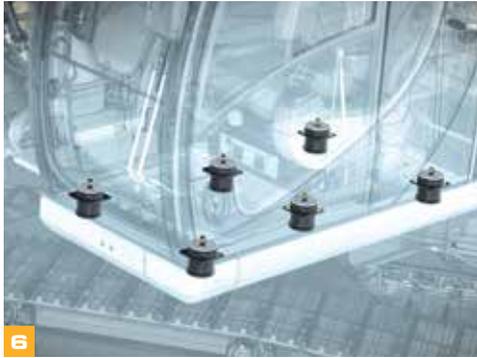
WE'VE DESIGNED THE JCB JS205 TO BE COMFORTABLE, ERGONOMIC, SIMPLE AND INTUITIVE TO OPERATE. WHICH IS GOOD FOR YOUR OPERATORS BUT EVEN BETTER FOR YOU; AFTER ALL, GREAT EASE OF USE EQUALS GREAT PRODUCTIVITY.



Visibly better.

- 1 JCB JS205s have excellent all round visibility allowing a safe working environment.
- 2 Visibility is enhanced with the additional glass provided at the top corner for high visibility whilst working at heights.
- 3 The JS205's distinctive low bonnet line gives excellent rear visibility.





6

Comfortably in control.

4 Light, intuitive and smooth controls improve comfort and productivity.

Even more comfort.

5 The cab of a JS205 is a comfortable, and therefore productive, place to be, with a rear storage box, bottle holder and file holder.

6 JCB JS205 cabs use 6 viscous rubber mounts to minimise noise and vibration.

7 A large floor area with large high grip pedals give easy and precise tracking.

8 We've fitted the new JS205 with an all-day comfy fully adjustable deluxe seat that boasts hand recline rests.

9 An opening roof hatch and rear sliding window provide excellent ventilation (region dependent).

10 Air conditioning is available as an option.



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The JS205's cab and controls are independently adjustable so that it's easy to find the perfect operating position.

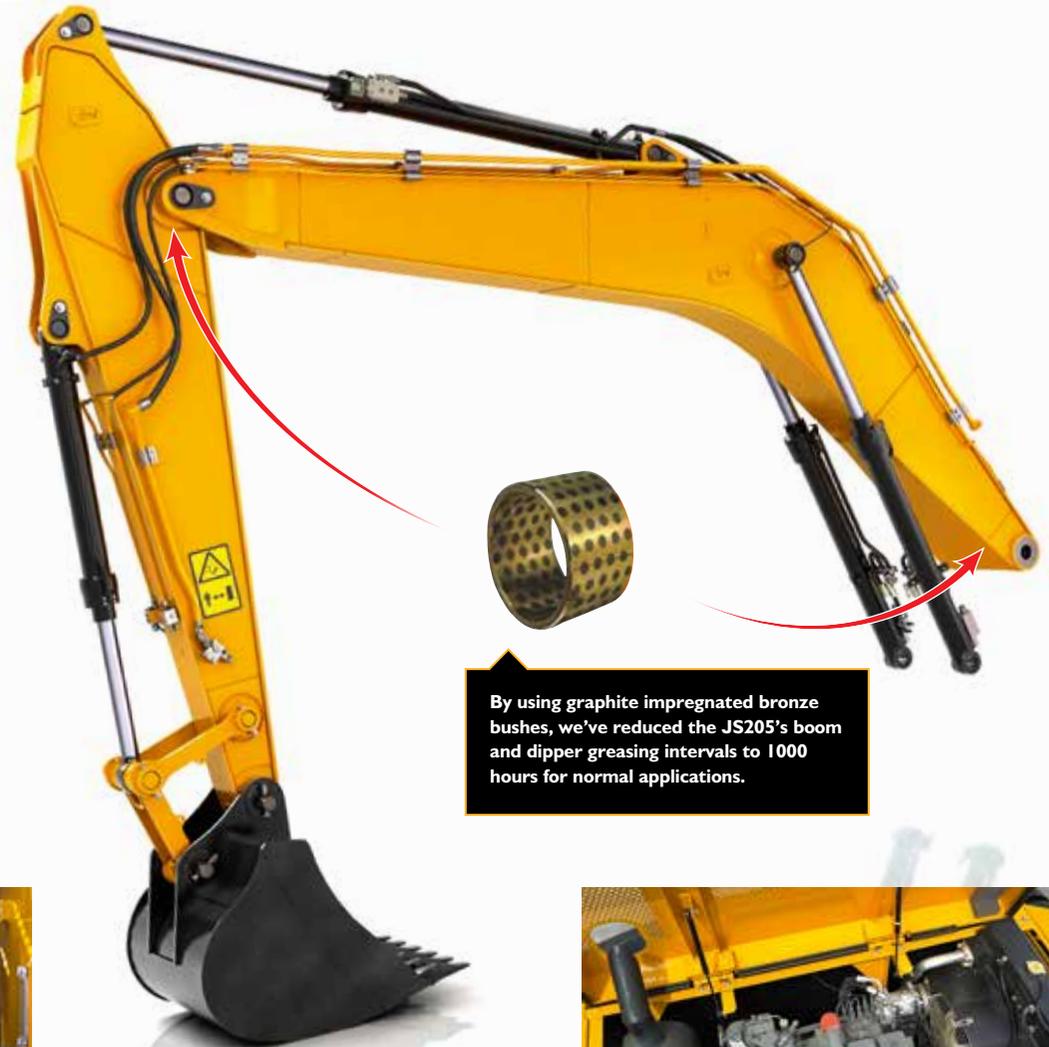
LESS SERVICING, MORE SERVICE.

WE'VE DESIGNED JCB JS205 TO BE LOW MAINTENANCE AND EASILY SERVICEABLE. WHICH MAKES THEM AFFORDABLE, EFFICIENT AND HIGHLY PRODUCTIVE. HELPING YOU GET THE BEST SERVICE FROM YOUR MACHINE.

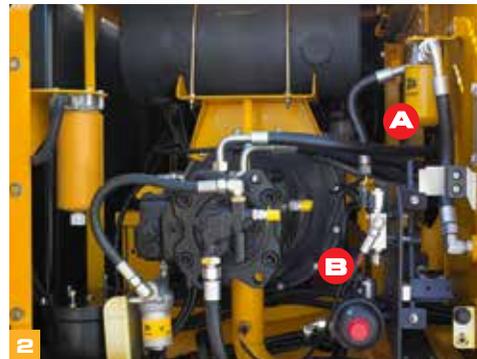
Easy does it.

- 1 Replacing the air filter element of a JS205 is easy; a radial seal provides error-free sealing on installation. Meanwhile, wire mesh elements make for easy storage, handling and cleaning.
- 2 The filters on a JCB JS205 (hydraulic oil and fuel) are centrally located for fast, easy servicing.

- 3 The JS205's mechanical engine has an in-line direct injection mechanical fuel pump, making maintenance and reliability second to none.



By using graphite impregnated bronze bushes, we've reduced the JS205's boom and dipper greasing intervals to 1000 hours for normal applications.



(A) Hydraulics oil filters (B) Fuel filters



SERVICE INTERVALS

Engine oil and oil filter	Every 250 hours
Hydraulic oil	Every 5000 hours
Hydraulic oil filter	Every 500 hours

Here to help.

4 To keep downtime to a minimum, the new JS205's high capacity fuel pre-filter also acts as a water separator, catching dust and impurities and helping to avoid blockages in the main fuel filters.

5 Equipment safety – audio and visual alerts provided in instrument panel for: low coolant level; air filter clog; high hydraulic oil temperature.

6 Because they're mounted side by side on a JCB JS205, the engine radiator, hydraulic cooler and intercooler can be serviced individually yet cleaned easily.

7 An air pre-cleaner assembly keeps dust particles out of the cab and reduces maintenance costs by increasing the life of the air filter and the engine.



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 AND HISTORY INFORMATION, WITH ALL DATA STORED AT A SECURE CENTRE.



LIVELINK

Manage machine maintenance easily

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.



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

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.



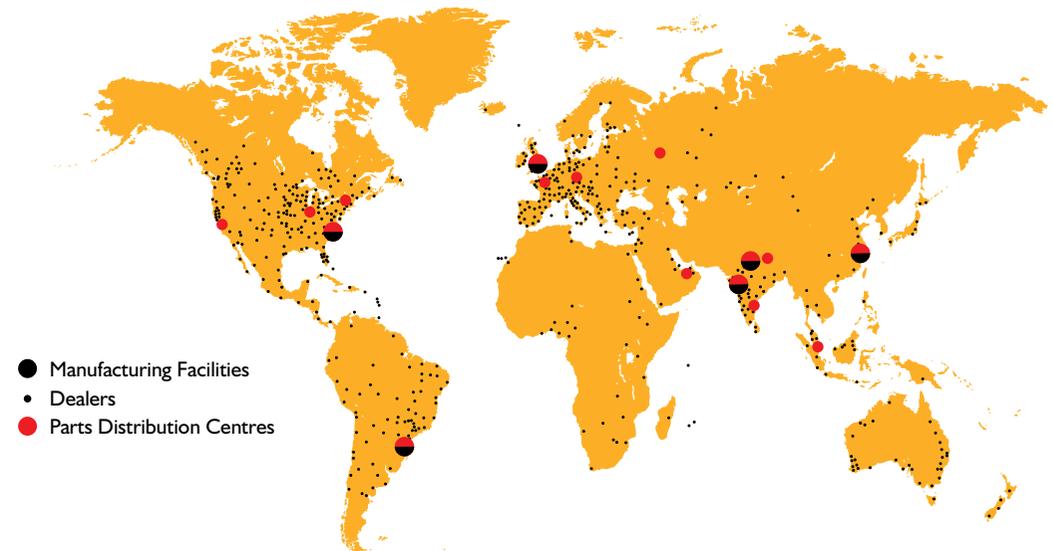
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3 JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.

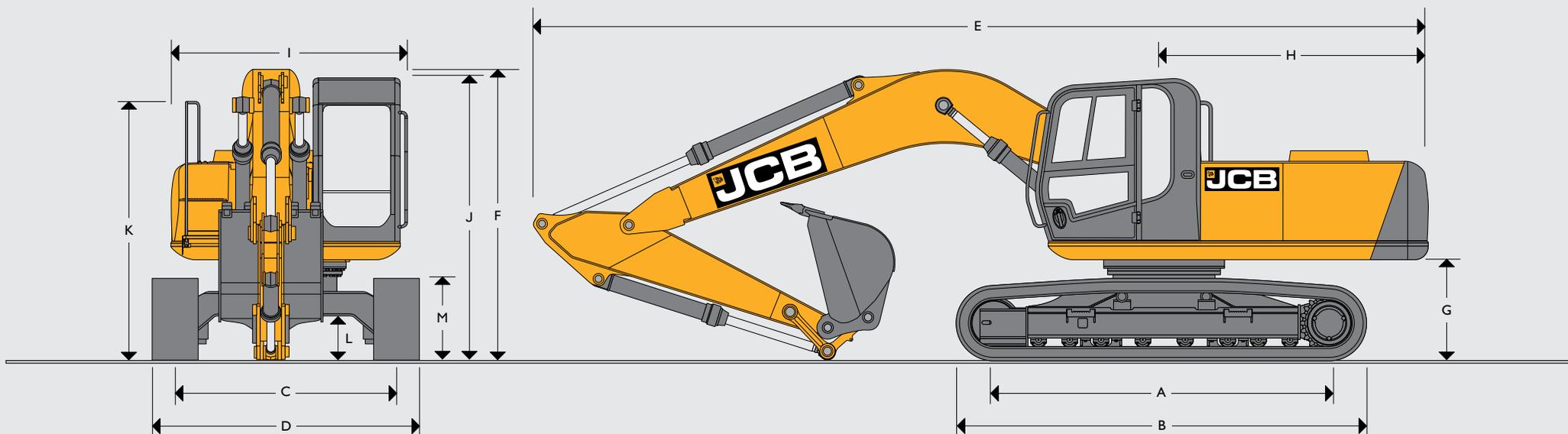


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Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.



STATIC DIMENSIONS



STATIC DIMENSIONS

		LC	SC	NLC			
A	Track length on ground	mm	3660	3660			
B	Undercarriage overall length	mm	4460	4460			
C	Track gauge	mm	2390	1990			
D	Width over tracks	mm	2990	2490			
G	Counterweight clearance	mm	1079	1079			
H	Tailswing radius	mm	2825	2825			
I	Width of superstructure	mm	2549	2549			
J	Height over cab	mm	3060	3060			
L	Ground clearance	mm	435	435			
M	Track height	mm	885	885			
		Monoboam 5.7m					
Dipper lengths		2.4m	3.0m	2.4m	3.0m	2.4m	3.0m
E	Transport length	mm	9634	9562	9634	9562	9634
F	Transport height	mm	3122	3122	3122	3122	3122

ENGINE	
Model	CUMMINS 6BT 5.9C
Type	Water cooled, 4 stroke, 6 -cylinder in-line, direct injection, turbocharged diesel
Nett power	Gross power: 104 kW (140 hp)
Piston displacement	5.88 litres
Air filtration	Dry element with secondary safety element plus air pre-cleaner
Cooling	Water cooled via large capacity radiator
Starting system	24 volt
Alternator	24 V, 75 ampere

UNDERCARRIAGE	
Track shoe options	500mm, 600mm, 700mm, 800mm
Upper & lower rollers	Heat treated, sealed and lubricated
Track adjustment	Grease cylinder type
Track idler	Sealed and lubricated, with spring enhanced recoil
No. of track guides	2 per side
No. of lower rollers	SC - 7 per side, LC & NLC - 8 per side
No. of upper rollers	2 per side
No. of track shoes	49 per side (LC & NLC), 46 per side (SC)

SERVICE CAPACITIES			
Fuel tank	Litres		343
Engine coolant	Litres		25.5
Engine oil	Litres		19
Hydraulic system	Litres		203
Hydraulic tank	Litres		120
Swing device	Litres		5
Travel device	Litres		2 x 5

WEIGHTS AND GROUND BEARING PRESSURES			
Standard machine with 600mm tracks, 0.9m ³ bucket, operator, full capacity lubes and fuel			
	LC	SC	NLC
Operating weight	21 500 kg	21 000 kg	21 400 kg
Ground bearing pressure	0.49 kg ²	0.39 kg ²	0.58 kg ²

TRACK DRIVE	
Type	Fully hydrostatic
Travel motors	Axial piston type, fully guarded within undercarriage frame
Final drive	Planetary reduction, bolt-on sprockets
Service brake	Hydraulic counter balance valve to prevent over speeding on gradients
Park brake	Disc type, spring applied, automatic hydraulic release
Gradability	70% (35 deg.) continuous
Travel speed	3.8 kph
Tractive effort	166 kNm

HYDRAULIC SYSTEM	
Pumps	
Main pumps	2 variable displacement axial piston type
Maximum flow	2 x 220 L/min
Servo pump	Gear type
Maximum flow	20 L/min
Control valve	
A combined four and five spool control valve with auxiliary service spool as standard	
Relief valve settings	
Boom/Arm/Bucket	343 bar
Swing circuit	289 bar
Travel circuit	343 bar
Pilot control	40 bar

SWING SYSTEM	
Swing motor	Axial piston type
Swing brake	Hydraulic braking, electrically operated spring applied disc type parking brake
Final drive	Planetary reduction
Swing torque	65.2 kNm
Swing gear	Large diameter, internally toothed fully sealed grease bath lubricated.
Swing speed	12 RPM

CAB & CAB GUARD	
Pressed steel construction with high strength rolled sections. Excellent all round visibility during digging, loading & positioning. Removable front lower glass and sliding rear window. Excellent ergonomic positioning of operating levers for reduced operator fatigue. Optional ducted AC unit with heater for operator comfort. Windscreen wiper & lockable stowage available. Rubber covered track pedal, water bottle & document holders provided. Optional cab guards for cab front & top available for protection against flying objects. Additional cab top lights for illumination.	

STANDARD / OPTIONAL EQUIPMENT

Equipment	Standard/Optional
Auto-Idler	Standard
Work lights: 1 each on boom and main frame	Standard
Additional lights: 2 nos. on cab & 1 no. on Counterweight	Standard
Windscreen wiper	Standard
Engine fan guard	Standard
Undercarriage belly guarding	Standard
Upper structure under covers	Standard
Engine pre-cleaner	Standard
Double element radial type air cleaner with wire mesh protection	Standard
Heavy-duty alternator (75 amp)	Standard
Cabin fan	Standard
Suspension seat	Standard
Cab floor mat	Standard
Rubber covered track pedals	Standard
Removable front lower cab glass	Standard
Hammer pipe mounting brackets	Standard
Tool kit	Standard
Handrail and nonslip walk ways	Standard
Radiator fly screen	Standard
FM radio and music player with speakers	Optional
Fully ducted air conditioner unit with heater	Optional
Cabin guard (front/top)	Optional
Rock breaker pipe work	Optional
General purpose buckets (0.9 cum, 1.02 cum)	Optional
First aid kit	Optional
Fire extinguisher	Optional
3m arm	Optional
Refueling pump	Optional
500mm, 600mm, 700mm, 800mm track shoe options	Optional
Long reach boom and arm (8.7m boom and 6.4m arm)	Optional
HD bucket (0.9m ³)	Optional
HMI 60T breaker	Optional

FILTRATION SYSTEM

In tank	150 micron, suction strainer.
Main return line	10 micron, fibre form element.
Pilot line	10 micron, paper element.
Hydraulic hammer return	10 micron, reinforced microform element.
Cooling	Worldwide cooling is provided via a full return line air blast cooler with anti-block wavy cooling fins. Fly mesh provided to avoid clogging of radiator and cooler films.

EXCAVATOR BUCKET

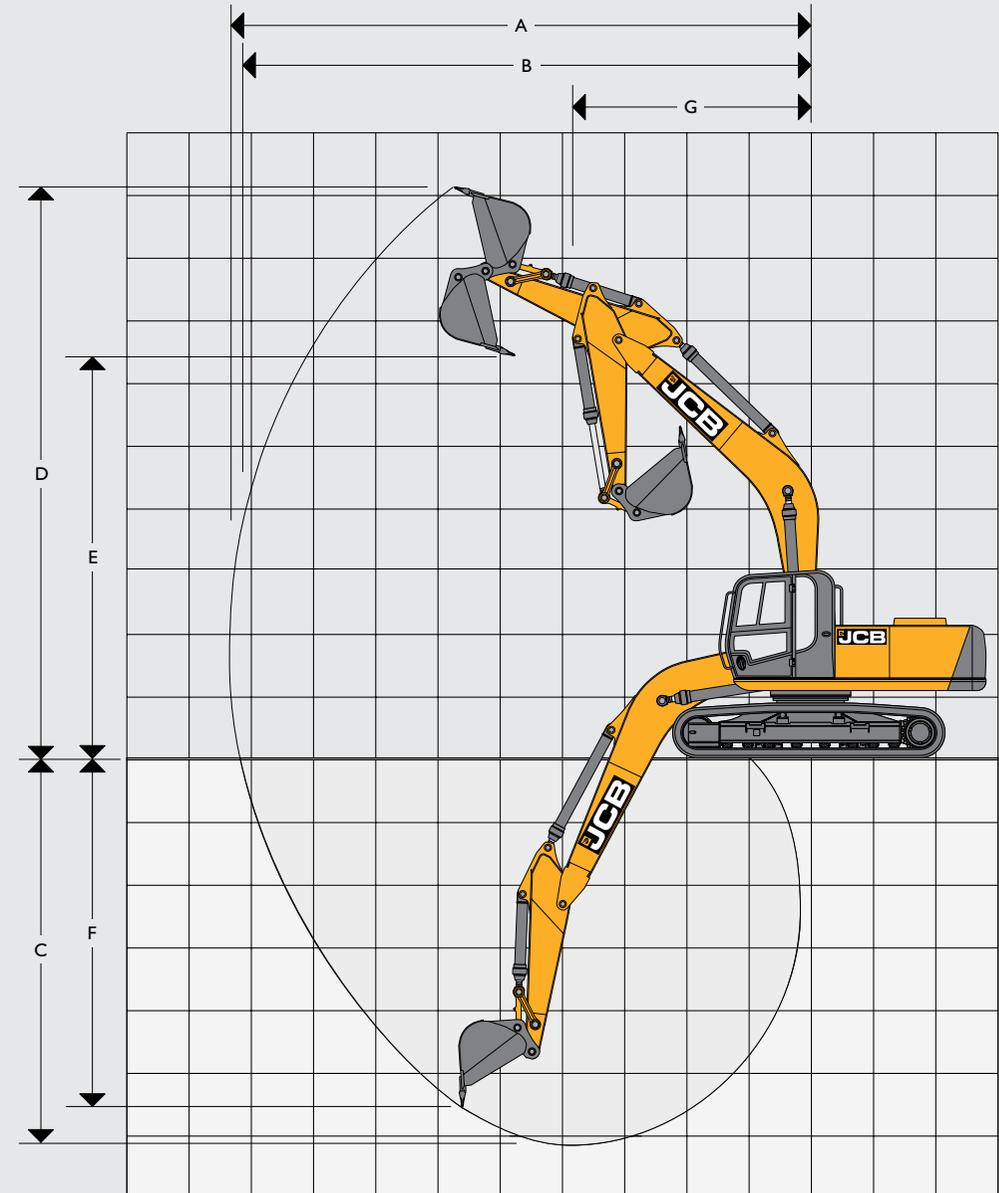
Bucket	Toe plate width (mm)
0.9 m ³ (GP)	1198
1.02 m ³ (GP)	1350

TRAVEL SPEED & TRACTIVE EFFORT

Travel speed	3.8 km/h
Tractive force	166 kNm

WORKING RANGE

		5.7m	
Boom length:			
Dipper length:		2.4m	3.0m
A	Maximum digging reach	mm	9.30
B	Maximum digging reach (on ground)	mm	9.10
C	Maximum digging depth	mm	5.98
D	Maximum digging height	mm	9.03
E	Maximum dumping height	mm	6.46
F	Maximum vertical wall cut depth	mm	5.47
G	Minimum swing radius	mm	3.85
Bucket rotation			183°
Maximum dipper tearout		kNm	114.7
Maximum bucket tearout		kNm	129.5



LIFT CAPACITIES – DIPPER LENGTH: 2.4M, 5.7M MONOBOOM, TRACKSHOES: 600MM, NO BUCKET											JS205 LC
Reach	3m		4.5m		6m		7.5m		Capacity at Max Reach		
											
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
7.5m									5248*	5248*	5577
6.0m					6046*	4933			4840*	4009	6782
4.5m			7624*	7427	6573*	4775	4786*	3346	4760*	3343	7504
3.0m			9624*	6864	7250	4539	5134	3264	4754	3023	7876
1.5m			11036	6414	6999	4317	5023	3163	4609	2909	7950
0m			10789	6210	6837	4174	4949	3096	4742	2974	7735
- 1.5m	10531*	10531*	10753	6175	6789	4134			5238	3265	7202
- 3.0m	14788*	12217	10778*	6279	6882	4214			6466	3989	6273
- 4.5m		12473	7952*	6442					7449*	6179	4711

LIFT CAPACITIES – DIPPER LENGTH: 3.0M, 5.7M MONOBOOM, TRACKSHOES: 600MM, NO BUCKET											JS205 LC
Reach	3m		4.5m		6m		7.5m		Capacity at Max Reach		
											
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
7.5m									4591*	4376	6450
6.0m							4307*	3373	4240*	3360	7515
4.5m					6036*	4776	5220	3332	4134*	2866	8171
3.0m			8795*	6931	6992*	4514	5090	3214	4157	2614	8514
1.5m			10714*	6399	6945	4256	4949	3084	4037	2518	8583
0m			10680	6098	6736	4071	4840	2986	4128	2560	8383
- 1.5m	9085*	9085*	10562	6000	6640	3986	4802	2951	4481	2767	7896
- 3.0m	15226*	11815	10618	6047	6669	4012			5299	3259	7059
- 4.5m	13221*	12180	9478*	6252					6975*	4491	5721

LIFT CAPACITIES – DIPPER LENGTH: 2.4M, 5.7M MONOBOOM, TRACKSHOES: 800MM, NO BUCKET											JS205 SC
Reach	3m		4.5m		6m		7.5m		Capacity at Max Reach		
											
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
7.5m									5830*	5220	5533
6.0m					5630*	4590			5580*	3750	6755
4.5m			7130*	6900	6110*	4450			4710	3120	7486
3.0m			9020*	6390	6500	4240	4620	3040	4290	2820	7868
1.5m			9750	5980	6280	4030	4520	2950	4150	2710	7949
0m			9530	5790	6130	3900	4460	2890	4260	2770	7741
- 1.5m	11210*	11020	9500	5760	6080	3860			4700	3040	7218
- 3.0m	14070*	11210	9600	5850	6170	3930			5770	3700	6300
- 4.5m	10600*	10600*	7520*	6120					6930*	5670	4760



- Notes:
1. For lifting capacity including bucket, subtract total weight of bucket or bucket and quickhitch from above values.
 2. 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.
 3. Lift capacities assume that the machine is on firm, level ground.
 4. Lift capacities may be limited by local regulations. Please refer to your dealer.

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

LIFT CAPACITIES – DIPPER LENGTH: 3.0M, 5.7M MONOBOOM, TRACKSHOES: 800MM, NO BUCKET												JS205 SC
Reach	3m		4.5m		6m		7.5m		Capacity at Max Reach			
												
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	
7.5m									4591*	3935	6450	
6.0m							4307*	3023	4240*	3011	7515	
4.5m					6036*	4285	4671	2982	4038	2557	8171	
3.0m			8795*	6147	6430	4029	4545	2866	3712	2324	8514	
1.5m			9609*	5633	6148	3776	4407	2739	3600	2232	8583	
0m			9265	5342	5945	3595	4301	2642	3675	2264	8383	
-1.5m	9085*	9085*	9153	5247	5853	3513	4264	2608	3984	2447	7896	
-3.0m	15226*	10094	9206	5293	5881	3538			4703	2884	7059	
-4.5m	13221*	10438	9441	5491					6538	3977	5721	

LIFT CAPACITIES – DIPPER LENGTH: 2.4M, 5.7M MONOBOOM, TRACKSHOES: 500MM, NO BUCKET												JS205 NLC
Reach	3m		4.5m		6m		7.5m		Capacity at Max Reach			
												
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	
7.5m									5830*	5000	5533	
6.0m					5630*	4400			5580*	3610	6755	
4.5m			7130*	6570	6110*	4270			5420	3000	7486	
3.0m			9020*	6070	6940*	4060	5320	2920	4940	2710	7868	
1.5m			10630*	5670	7290	3860	5220	2830	4790	2610	7949	
0m			11280	5490	7130	3730	5150	2770	4930	2660	7741	
-1.5m	11210*	10190	11170*	5460	7090	3690			5440	2920	7218	
-3.0m	14070*	10370	10190*	5550	7170	3760			6690	3550	6300	
-4.5m	10600*	10600*	7520*	5810					6930*	5400	4760	

LIFT CAPACITIES – DIPPER LENGTH: 3.0M, 5.7M MONOBOOM, TRACKSHOES: 500MM, NO BUCKET												JS205 NLC
Reach	3m		4.5m		6m		7.5m		Capacity at Max Reach			
												
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	
7.5m						4800*	4490		4130*	4130*	6226	
6.0m									3870*	3190	7332	
4.5m					5530*	4320	5230*	3030	3840*	2700	8011	
3.0m	12490*	11200	8140*	6200	6420*	4090	5330	2930	3970*	2450	8367	
1.5m			9960*	5720	7300	3860	5200	2810	4250*	2350	8444	
0m	6660*	6660*	11020*	5450	7100	3690	5100	2720	4450	2390	8249	
-1.5m	11050*	9950	11140	5360	7010	3620	5070	2690	4830	2580	7760	
-3.0m	15210*	10100	10630*	5400	7040	3640			5740	3040	6916	
-4.5m	12430*	10420	8850*	5590					6850*	4210	5552	



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JCB

JCB

JS205L

JCB

JCB



ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

JS205 SC/LC/NLC Tracked Excavator

Engine power: 104 kW (140 hp) Bucket capacity: 0.9 – 1.02m³
 Operating weight: 21000 – 21500kg

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