

### TRACKED EXCAVATOR | 205 NXT

Engine Power: I04KW (I40hp) Bucket Capacity: 0.9 – I.02m³ Operating Weight: 21000 – 21500kg



IT'S NOW MORE **IMPORTANT THAN EVER** TO SAVE TIME AND MONEY; THE JCB 205 NXT IS **DESIGNED TO MAKE THE** 

#### Upping output.

MOST OF BOTH.

- 1 A bucket tearout of I30kN and a dipper tearout of 115kN mean the 205 NXT can really get the job done quickly, even in hard ground conditions.
- 2 Simultaneous tracking and excavating is smooth and fast with an intuitive multifunction operation.
- The 205 NXT comes with 3 power modes using an electric dial type throttle:

Economy mode: lower fuel consumption at optimum output level.

Power mode: increases engine speed for faster operations when higher output is required.

Power+ mode: 6% more output over P mode.

4 The proven and efficient mechanical Cummins engine has been designed and developed to work in all climates around the world. Ensuring it is better suited to lower quality fuel and air, improving the 205 NXT's reliability and therefore machine uptime.



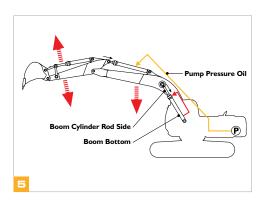


Power mode		Usage for
P+	Power plus	For maximum output Suitable for high output in tough ground conditions.
Р	Power	For high output needs
eco	Economy	For general duty operations & low fuel consumption



# Stability, hydraulics and attachments.

- JCB's innovative hydraulic regeneration system means oil is recycled across the cylinders for faster cycle times and reduced fuel consumption.
- For versatility, JCB offers auxiliary pipework for hammers.
- The 205 NXT features ECO Hydraulics which minimises hydraulic loss. Improving the machine's fuel efficiency.
- High swing speed of 12 rpm shortens the digging cycle time, thus increasing overall productivity.
- atto Idler & One Touch idler function: is a standard feature with the 205 NXT. Improving fuel efficiency by reducing the engine speed when the machine is not at work for a set period of time which can be customised.







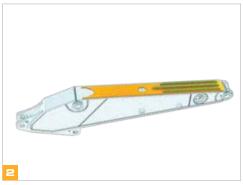




## STRENGTH INSIDE AND OUT.

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, STRENGTH AND DURABILITY COME AS STANDARD WITH THE JCB 205 NXT.





#### Boom and dipper.

Heavy duty boom uses deep section design and pivot ends made of cast steel for increased strength. The boom has been further enhanced with a strengthened foot box section and increased weld strength on the cylinder pivot section.

Robust cast ends and pivot bosses make the new 205 NXT's boom and dipper extremely strong.

Additional reinforcement plates and wear ribs on the arm provide strength and protection. Ideal for working in arduous environments.

### Componentry.

ICB 205 NXT boast the best components in the industry, including Kawasaki pumps, Cummins engine and Kayaba main control valves.

IP67/69 compliant dust & water proof electrical connectors enhance the reliability of 205 NXT, even in extreme wet and dusty conditions.







### Structural strength.

- 4 Heavy duty track chain with enhanced strength improves the life of the track links in tough working conditions.
- The upper frame has reinforced the boom mounting area and offers a closed box section design for improved durability.
- Heavy duty X Type track frame offers increased reliability for longer hours. The track frame has been further strengthened at the idler mounting area.
- A 0.9m<sup>3</sup> GP+ bucket is available as an option. Additional wear plates and reinforcement, make the GP+ bucket ideal for more arduous applications.











# LESS SERVICING, MORE SERVICE.

WE'VE DESIGNED THE JCB 205 NXT TO BE LOW MAINTENANCE AND EASILY SERVICEABLE. THEREFORE, MORE 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 205 NXT is easy; a radial seal provides error-free sealing on installation. Meanwhile, wire mesh elements make for easy storage, handling and cleaning.

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

The 205 NXT mechanical engine has an in-line direct injection mechanical fuel pump, making maintenance and reliability second to none.





	SERVICE INTERVALS
Engine oil and oil filter	Every 1,000 hours
Hydraulic oil	Every 5,000 hours

### Here to help.

- The 205 NXT's hydraulic filtration system provides 5000hrs of hydraulic oil life. Reducing maintenance costs and increases machine uptime.
- An air pre-cleaner comes as standard on the 205 NXT to ensure longer air filter life, reducing maintenance costs and enhancing engine life.
- Because they're mounted side by side on a JCB 205 NXT, the engine radiator and hydraulic cooler can be serviced individually yet cleaned easily.
- The engine bonnet is compact in size and is supported by a gas strut. This allows effortless handling of the bonnet during maintenance. Simultaneously providing the operator high rear end visibility.

The battery disconnection switch is easily accessible, meaning the machine's electric system can be isolated whenever necessary.









THE JCB 205 NXT 7 INCH DIGITAL COLOUR DISPLAY HOSTS ALL THE RELEVANT, REAL TIME, INFORMATION THAT WILL HELP THE OPERATOR TO MAXIMISE MACHINE OUTPUT AND UPTIME.

### Operational information



Quantity of fuel left in tank



Engine speed & operating mode status



Trip meter



Auto idle status & time setting



Machine operating parameters







### Maintenance information



Maintenance due information



Colour coded health alerts based on severity



Hour meter, counting of attachment operation



Easy diagnostic system



Service warning alerts



## A COMFORTABLE FAVOURITE.

WE'VE DESIGNED THE JCB 205 NXT 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.** 

and has been designed to maximises the internal space. This means the operator will have enough leg and head room to work all day in comfort. Additionally the ergonomically positioned controls, along with reclining arm rests, enhances the operators comfort.

A powerful AC unit is available as an option to keep the operator comfortable in hot climate conditions.

- 2 Visibility is enhanced with the additional glass provided at the top corner for high visibility whilst working at heights.
- The cabin is mounted on six viscous mounts to reduce vibration levels in uneven ground conditions.















### Comfortably in control.

4 The rotary dial allows the operator to access to a variety of machine performance information within the new 7inch digital colour display.

#### Even more comfort.

- The cab of a 205 NXT is a comfortable, and therefore productive, place to be, with a rear stowage box, bottle holder and file holder.
- A large floor area with large high grip pedals give easy and precise tracking.
- For better ventilation this cabin is equipped with a roof hatch, sliding rear window and removable lower front end glass.
- Anti-slip covers and rigid hand rails provide the operator additional safety while working on the machine.





# 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.

# 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.

LIVEUCBLINK



## **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.





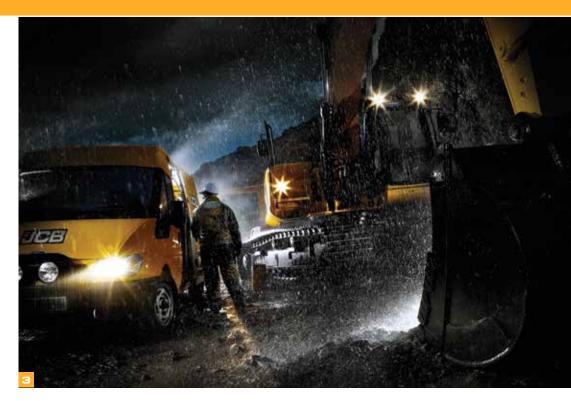
The global network of JCB Parts Centres is another model of efficiency; with 16 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.

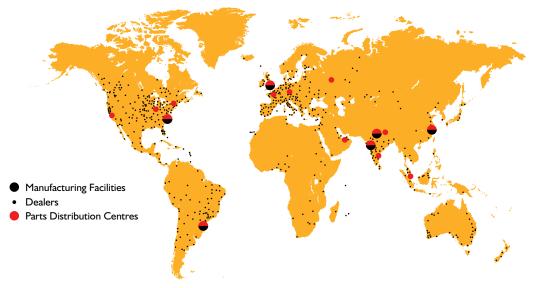


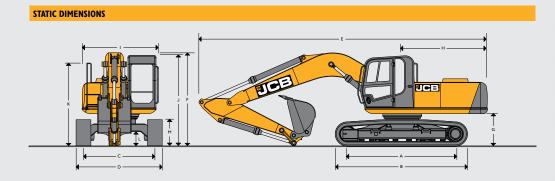
warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour











STA	TIC DIMENSIONS							
			Lo	С	S	С	N	LC
Α	Track length on ground	mm	36	60	33	70	36	560
В	Undercarriage overall length	mm	44	60	41	70	44	160
С	Track gauge	mm	23	90	22	00	19	990
D	Width over tracks	mm	29	90	30	00	24	190
G	Counterweight clearance	mm	10	79	10	79	10	)79
Н	Tailswing radius	mm	28	25	28	25	28	325
- 1	Width of superstructure	mm	25	49	25	49	25	549
J	Height over cab	mm	30	60	30	60	30	)60
Κ	Height over grab rails	mm	27	77	27	77	27	777
L	Ground clearance	mm	43	35	43	35	4:	35
Μ	Track height	mm	88	35	81	5	8	85
					Monobo	om 5.7m		
Dip	per lengths		2.4m	3.0m	2.4m	3.0m	2.4m	3.0m
Ε	Transport length	mm	9634	9562	9634	9562	9634	9562
F	Transport height	mm	3122	3122	3122	3122	3122	3122

ENGINE	
Model	CUMMINS 6BT 5.9C
Туре	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	24V, 75 amps

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	2×5

WEIGHTS AND GROUND BEARING PRESSURES			
Standard machine with 600mm tracks, 0.9m³ bucket, operator, full capacity lubes and fuel			
	LC	SC	NLC
Operating weight	21500 kg	21000 kg	21400 kg
Ground bearing pressure	0.49 kg <sup>2</sup>	0.39 kg <sup>2</sup>	0.58 kg <sup>2</sup>

TRACK DRIVE	
Туре	Fully hydrostatic
Travel motors	Axial piston type, fully guarded within undercarriage frame
Final drive	Planetary reduction, bolt-on sprackets
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	High - 5.9kph, Low - 3.4kph
Tractive effort	116kN - 203kN

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

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.

Equipment	Standard/Optional
Auto-Idler	Standard
Work lights: I 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
Roll over protective structure (ROPS)	Optional
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 (0.9m³)	Optional
HMI60T breaker	Optional

#### 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.

#### **EXCAVATOR END - MONOBOOM**

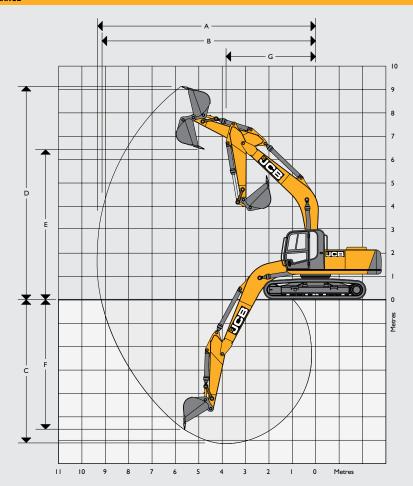
5.7m Monoboom available along with a choice of dipper lengths to suit the requirements of reach, dig-depth, loadover height and tearouts. Reserve strength is built into the fully welded structures for hydraulic hammer and other arduous operations.

EXCAYATOR BUCKET								
Bucket	Toe plate width (mm)							
0.9 m <sup>3</sup> (GP)	1180							
1.02 m³ (GP)	1320							

<b>BUCKET AND ARM COMBINATION</b>										
Bucket width	mm	12	76 (CUTT	ER)	12	76 (CUTTI	ER)	1350 (CUTTER)		
Bucket capacity	m³		0.9			0.9			1.02	
Bucket weight	kg		822			986			874	
		822 GP			GP+			GP		
		NLC	SC	LC	NLC	SC	LC	NLC	SC	LC
Dipper length										
2.4	m				-			•	-	-
3.0	m	•	•		•	•	۵	•	•	•

- $\square$  = Suitable for general excavating materials up to 2000kg/m<sup>3</sup>.
- = Suitable for light excavating materials up to 1600kg/m³.
- = Suitable for grading and loading materials up to 1200kg/m³.
- X = Not recommended.

#### **WORKING RANGE**



	Boom length:		5.7	7m
	Dipper length:		2.4m	3.0m
Α	Maximum digging reach	mm	9.30	9.79 m
В	Maximum digging reach (on ground)	mm	9.10	9.61
С	Maximum digging depth	mm	5.98	6.59
D	Maximum digging height	mm	9.03	9.12
Е	Maximum dumping height	mm	6.46	6.57
F	Maximum vertical wall cut depth	mm	5.47	6.14
G	Minimum swing radius	mm	3.85	3.74
	Bucket rotation		183°	182°
	Maximum dipper tearout	kN	115	96
	Maximum bucket tearout	kN	130	130

LIFT CAPACITIES - DI	PPER LENGTH: 2.4M, 5	.7M MONOBOOM, TRACK	SHOES: 600MM, NO BU	CKET							205 NXT LC	
Reach	3:	m	4.	5m	6	6m		7.5m		Capacity at Max Reach		
		Ī	=									
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 - DI	IPPER LENGTH: 3.0M, 5.	.7M MONOBOOM, TRACK	(SHOES: 600MM, NO BU	СКЕТ							205 NXT LC
Reach	31	m	4.	5m	6	6m		.5m			
		1									
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 - DI	IPPER LENGTH: 2.4M, 5	.7M MONOBOOM, TRACI	(SHOES: 800MM, NO BU	ICKET							205 NXT SC
Reach	3	m	4.5m		é	óm	7.	7.5m		Capacity at Max Reach	
		<u>1</u>						<u>1</u>		<u></u>	
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

#

Lift capacity front and rear.

Lift capacity full circle.

- Notes: 1. For lifting capacity including bucket, subtract total weight of 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.

LIFT CAPACITIES - D	IPPER LENGTH: 3.0M, 5.	7M MONOBOOM, TRACK	(SHOES: 800MM, NO BU	CKET							205 NXT SC
Reach	31	m	4.	5m	6	6m		.5m			
		Į.		Į.							
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 - D	IPPER LENGTH: 2.4M, 5	.7M MONOBOOM, TRACK	SHOES: 500MM, NO BU	CKET							205 NXT NLC
Reach	31	m	4.	5m		6m	7.	.5m	Capacity at Max Reach		
		J.		1							
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 - DI	IPPER LENGTH: 3.0M, 5	.7M MONOBOOM, TRACK	SHOES: 500MM, NO BU	CKET							205 NXT
Reach	n 3m		4.	5m	6	m	7.	5m			
		<u>1</u>									
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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Lift capacity front and rear. Lift capacity full circle.





ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

#### **Tracked Excavator 205 NXT**

Engine power: 104 kW (140 hp) Bucket capacity: 0.9 – 1.02m<sup>3</sup> Operating Weight: 21000 – 21500kg

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