

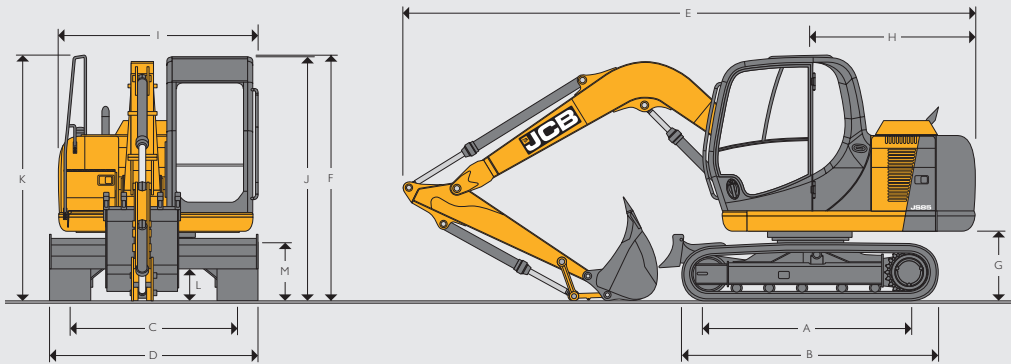


## TRACKED EXCAVATOR | JS85

Net engine power: 55.3kW (74hp) Operating weight: 8105kg – 8750kg Bucket capacity: 0.32 – 0.35m<sup>3</sup>



## STATIC DIMENSIONS



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A	Track length on ground	mm	2200
B	Undercarriage overall length	mm	2817
C	Track gauge	mm	1850
D	Width over tracks (450mm trackshoes)	mm	2300
D	Width over tracks (600mm trackshoes)	mm	2450
G	Counterweight clearance	mm	758.5
H	Tail swing radius	mm	1905
I	Width of superstructure	mm	2200
J	Height over cab	mm	2706
	Height over grab rail	mm	2706
K	Ground clearance	mm	359
L	Track height	mm	630
<b>Boom option</b>			<b>Monoboomb 3.7m</b>
	Dipper length		1.74m
E	Transport lengths	mm	6232
F	Transport height	mm	2706

## ENGINE

Model	JCB Dieselmex 444 N1 GBII, EU Stage II, EPA Tier 2 compliant.
Type	Water cooled, 4-stroke, 4-cylinder in-line, natural aspiration, rotary mechanical fuel injection pump, diesel.
Rated power (net)	55.3 kW (74.2 hp) at 2200 rpm
Torque	305 Nm @ 1200 rpm
Piston displacement	4.4 litres
Air filtration	Pre-filter and main filter (dry element with secondary safety element) and in-cab warning indicator.
Starting system	24 volt
Batteries	2 x 12 volt
Alternator	24 volt, 55 ampere

## SWING SYSTEM

Swing motor	Axial piston type.
Swing brake	Hydraulic braking plus automatic spring applied disc type parking brake.
Swing torque	14.3 kNm
Swing speed	11.5 rpm
Swing gear	Large diameter, heavy-duty internally toothed fully sealed grease bath lubricated.

## UNDERCARRIAGE

Carriage options	LC - Long Carriage.
Construction	Fully welded, "X" frame type with central bellyguarding and sloping side members with dirt relief holes under top rollers.
Recovery point	Rear
Track shoes	450mm standard, 600mm option.
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.
No. of track guides	1
No. of lower rollers	5
No. of upper rollers	1
No. of track shoes	39

In some cases (territory dependent), optional equipment can be standard. The information in this table should be used as a guide only, for more information on product specification contact your local dealer.

### TRACK DRIVE

Type	Fully hydrostatic, two speed with autoshift.	
Travel motors	Variable swash axial piston type, fully guarded within undercarriage frame.	
Final drive	Planetary reduction, bolt-on sprockets.	
Service brake	Hydraulic counter balance valve.	
Park brake	Disc type, spring actuated, automatic hydraulic release.	
Gradeability	70% (35 deg) continuous.	
Travel speed	High – 5.0 km/h	Low – 3.1 km/h
Tractive effort	58 kNm	58 kNm

### MAIN HYDRAULIC SYSTEM

A variable flow load sensing system with flow summation and servo operated, multi-function open centre control.

#### Pumps

Main pump	1 x Variable displacement axial piston type.
Maximum flow	148 l/min

#### Control valve

Seven spool valve (standard) and eight spool valve (dozer) with auxiliary service spool as standard.

#### Relief valve settings

Boom/arm/bucket	284 bar
Swing circuit	190 bar
Travel circuit	284 bar
Pilot control	41 bar
Dozer circuit (option)	230 bar

#### Filtration

In tank	105 micron, suction strainer.
Main return line	10 micron, glass fibre element.
Drain line	25 micron, paper element.
Hydraulic hammer return	10 micron, reinforced microform element.

### SERVICE CAPACITIES

Fuel tank	litres	145
Engine coolant	litres	18.5
Engine oil	litres	14
Swing reduction gear	litres	1.5
Track reduction gear (each side)	litres	1.3
Hydraulic system	litres	90
Hydraulic tank	litres	60.5

### WEIGHTS AND GROUND BEARING PRESSURES

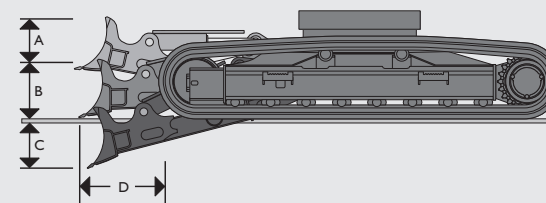
Figures include 0.32m<sup>3</sup> bucket, operator, full fuel tank and 1.74m dipper.

		450mm shoes	600mm shoes
<b>JS85 LC – No dozer</b>			
Machine weight	kg	8105	8300
Ground bearing pressure	kg/cm <sup>2</sup>	0.37	0.28
<b>JS85 LC – With dozer</b>			
Machine weight	kg	8555	8750
Ground bearing pressure	kg/cm <sup>2</sup>	0.39	0.30

### STANDARD EXCAVATING BUCKETS

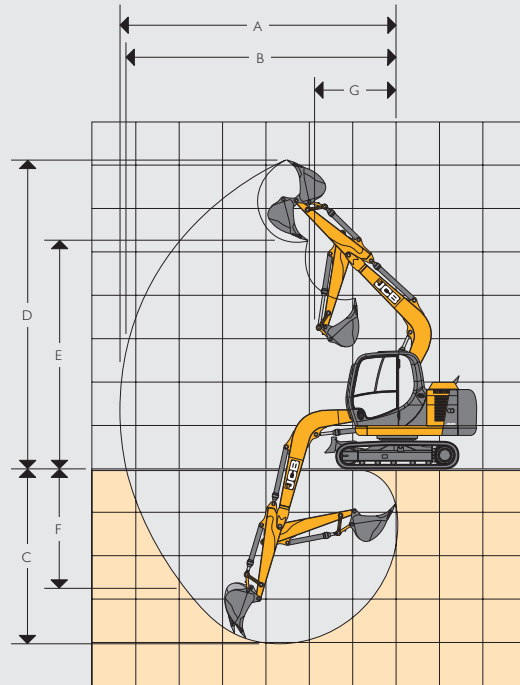
Bucket options		HD	GP
Bucket width	mm	760	810
Bucket capacity	m <sup>3</sup>	0.32	0.35
Bucket weight	kg	262	226

### OPTIONAL BLADE



A	Blade height	mm	389
B	Blade lift above ground	mm	358
C	Blade cut below ground	mm	434
D	Blade forward of track	mm	379
	Dozer width	mm	2300

## WORKING RANGE - MONOBOOM 3.7M



## WORKING RANGE - MONOBOOM 3.7M

Dipper length		1.74m
A	Maximum digging reach	mm 6358
B	Maximum digging reach (on ground)	mm 6220
C	Maximum digging depth	mm 4034
D	Maximum digging height	mm 7078
E	Maximum dumping height	mm 5204
F	Maximum vertical wall cut depth	mm 2745
G	Minimum swing radius	mm 1905
	Bucket rotation	degrees 179
	Maximum dipper tearout	kNm 40.1
	Maximum bucket tearout	kNm 60.3











## STANDARD/OPTIONAL EQUIPMENT

Machine area	Standard equipment	Optional equipment
<b>ENGINE</b>	JCB Dieselmex 444 N1 GBII, EU Stage II, EPA Tier 2 compliant. Water cooled, 4-stroke, 4-cylinder in-line, Natural aspiration, Rotary mechanical fuel injection pump, Diesel. Meeting GBII, EU Stage II, EPA Tier 2 Emissions, Air filter with indicator, Pre-cleaner. Electric engine shut-off, Fuel filter and water separator, 55A Alternator.	Fuel Heater.
<b>ELECTRICS &amp; ELECTRONIC CONTROL SYSTEMS</b>	Automatic Idling System, Safety stop/start function, Machine status indication, Adjustable 3.5inch LCD colour monitor, Master electrical disconnect switch High capacity halogen lights: Frame mounted: 2; Boom mounted: 1. 2 x 12V 95Ah batteries. 24V / 4kW starter motor.	Extra worklights: Cab-mounted: 1. Livelink.
<b>HYDRAULIC SYSTEM</b>	Variable flow and load sensing pump, Flow summation multi-function open centre servo controlled main control valve, Auto Warm Up, Boom and arm regeneration spools, Auxillary spool, Multi-stage filtration system, Cylinder cushioning, Automatic two speed travel motors, Hydraulic oil ISO VG46, Travel motors with counterbalance valve to prevent over speeding on gradients, Multi-position switchable swing brake.	Dozer. Hammer pipework kit. ISO to Chinese control pattern changer.
<b>FRAME</b>	Top access way with handrail, Large tool storage area including grease bucket provision, Punched metal anti-slip plates, Undercovers.	Tool kit. Refueling pump.
<b>CAB AND INTERIOR</b>	Silicon oil and rubber mounts with spring, Travel pedals and hand levers, Adjustable operator seat and joystick control console, Heater and air conditioning system, Flexible antenna, AM/FM Radio with MP3, USB and Bluetooth inputs, 2-Go hydraulic safety system, All-weather sound-supressed cab, includes: Cup holder; Door locks; Tinted glass; Floor mat; Horn; Large storage area; Pull-up and over front screen; Removeable lower windshield; Seat belt; Safety glass; Sun screens front and roof; Windscreen wiper with intermittent feature.	
<b>UNDERCARRIAGE</b>	Undercover, Sealed and lubricated track links, Track guards.	
<b>TRACK SHOES</b>	450mm tripple grouser track plates.	600mm triple grouser track plates.
<b>DIGGING EQUIPMENT</b>	3.7m Monoboomb, 1.74m Arm, Manual centralised greasing.	Linkage with lifting eye.













**LIFT CAPACITIES: 1.74M ARM, 3.7M MONOBOOM, 450MM TRACKSHOES, NO BUCKET.**


**JS85 LC NO DOZER**


Reach	2m		3m		4m		5m		Capacity at Max Reach		
											
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
5m	-	-	1443*	1443*	-	-	-	-	1538*	1538*	3.90
4m	-	-	1539*	1539*	1481*	1481*	-	-	1502*	1502*	4.65
3m	2559*	2559*	1893*	1893*	1620*	1620*	1510*	1510*	1510*	1510*	5.10
2m	-	-	2393*	2393*	1841*	1841*	1586*	1586*	1507*	1294	5.35
1m	-	-	2808*	2808*	2053*	2053*	1678*	1404	1589*	1269	5.35
0m	-	-	2979*	2979*	2177*	1876	1720*	1374	1643*	1300	5.20
-1m	4196*	4196*	2919*	2919*	2158*	1849	-	-	1691*	1422	4.85
-2m	3666*	3666*	2619*	2619*	1895*	1895*	-	-	1745*	1745*	4.20
-3m	-	-	1821*	1821*	-	-	-	-	1677*	1677*	3.15

**LIFT CAPACITIES: 1.74M ARM, 3.7M MONOBOOM, 450MM TRACKSHOES, NO BUCKET.**

**JS85 LC WITH DOZER**

Reach	2m		3m		4m		5m		Capacity at Max Reach		
											
Load Point Ht.	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
5m	-	-	1443*	1443*	-	-	-	-	1538*	1538*	3.90
4m	-	-	1539*	1539*	1481*	1481*	-	-	1502*	1502*	4.65
3m	2559*	2559*	1893*	1893*	1620*	1620*	1510*	1510*	1510*	1510*	5.10
2m	-	-	2393*	2393*	1841*	1841*	1586*	1586*	1507*	1507*	5.35
1m	-	-	2808*	2808*	2053*	2053*	1678*	1678*	1589*	1589*	5.35
0m	-	-	2979*	2979*	2177*	2177*	1720*	1720*	1643*	1643*	5.20
-1m	4196*	4196*	2919*	2919*	2158*	2158*	-	-	1691*	1691*	4.85
-2m	3666*	3666*	2619*	2619*	1895*	1895*	-	-	1745*	1745*	4.20
-3m	-	-	1821*	1821*	-	-	-	-	1677*	1677*	3.15

 Lift capacity front and rear.

 Lift capacity full circle.

**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.



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### Tracked Excavator JS85

Engine power: 55.3kW (74hp) Operating weight: 8105 – 8750kg  
Bucket capacity: 0.32 – 0.35m<sup>3</sup>

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