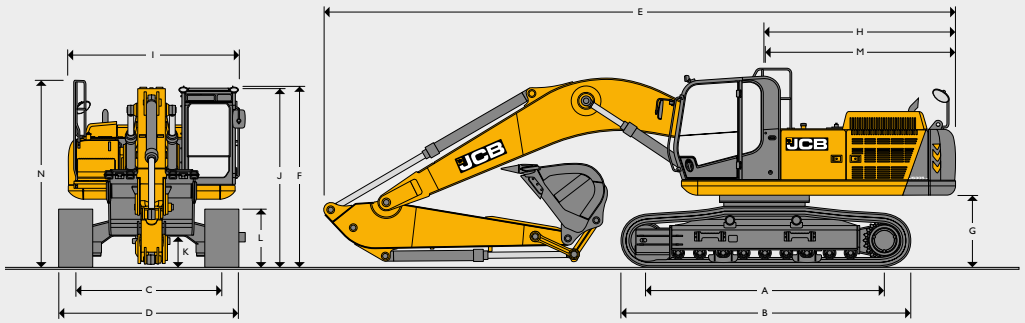
STATIC DIMENSIONS



STATIC DIMENSIONS

Model			LC	
A	Track length on ground	mm	3990	
B	Undercarriage overall length	mm	4954	
C	Track gauge	mm	2600	
D	Width over tracks (600mm trackshoes)	mm	3200	
D	Width over tracks (700mm trackshoes)	mm	3300	
D	Width over tracks (800mm trackshoes)	mm	3400	
D	Width over tracks (900mm trackshoes)	mm	3500	
G	Counterweight clearance	mm	1223	
H	Tail swing radius	mm	3213	
I	Overall width of superstructure	mm	3067	
J	Height over cab	mm	3331	
K	Ground clearance	mm	550	
L	Track height	mm	1026	
M	Tail length	mm	3185	
N	Height over grab rail	mm	3374	
			Monoboom 6.2m	
Dipper lengths			2.5m	3.1m
E	Transport length	mm	10755	10630
F	Transport height	mm	3459	3344

ENGINE

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

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 sidemembers with dirt relief holes under top rollers.			
Recovery point	Front and rear.			
Track shoe options	600mm	700mm	800mm	900mm
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	50 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 – 5.2 km/h
	Low – 2.1 km/h
Tractive effort	246.3 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 l/min.
Servo pump	Gear type.
Maximum flow	18 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 MRV (392 bar ARV).
Swing circuit	290 bar.
Travel circuit	343 bar.
Pilot control	39 bar.
Filtration	
In tank	195 micron, suction strainer.
Main return line	10 micron.
Pilot line	10 micron.
Hydraulic hammer return	10 micron, aluminium housing with perbunan (NBR) seals.

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

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

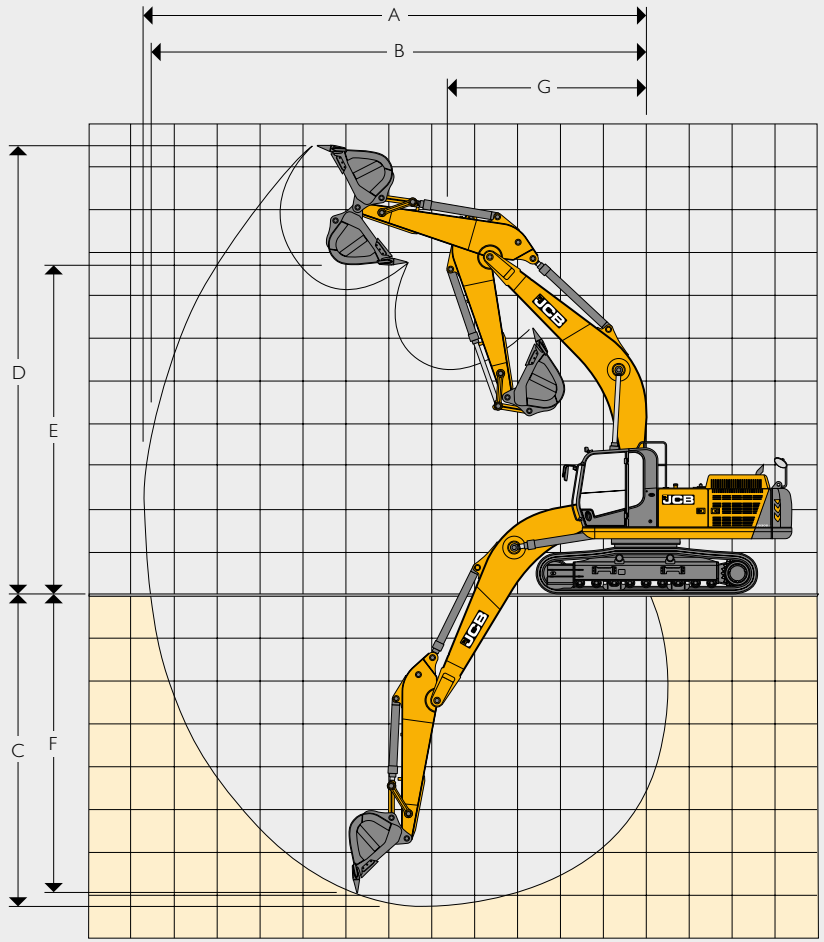
WEIGHTS AND GROUND BEARING PRESSURES					
Figures include 1.49m³ (1364kg) bucket, 80kg operator, full fuel tank and 2.5m dipper.					
		600mm shoes	700mm shoes	800mm shoes	900mm shoes
Machine weight	kg	31700	32054	32408	32762
Ground bearing pressure	kg/cm²	0.66	0.57	0.51	0.46

BUCKET AND ARM COMBINATION					
Bucket width	mm	1360	1570	1660	1825
Bucket capacity	m³	1.24	1.49	1.61	1.80
Bucket weight	kg	1259	1364	1449	1532
LC					
2.5m Quickhitch (No Quickhitch)	m	❑ (❑)	❑ (❑)	■ (❑)	■ (❑)
3.1m Quickhitch (No Quickhitch)	m	❑ (❑)	■ (❑)	■ (❑)	● (■)

❑ = Suitable for general excavating (materials up to 1800kg/m³)
■ = Suitable for light excavating (materials up to 1500kg/m³)
● = Suitable for grading and loading (materials up to 1200kg/m³)

STANDARD / OPTIONAL EQUIPMENT		
	Standard	Optional
Alarm	-	Travel alarm
Arm	2.5m Heavy duty arm	3.1m Heavy duty arm
Beacon	-	Warning beacon
Breaker	-	HM270T (includes moil and chisel)
Belly plate	6mm plate (undercarriage & revolving frame)	10mm plate (undercarriage and revolving frame)
Buckets	1.61m³ HD	1.24m³ HD, 1.49m³ HD, 1.80m³ 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 and installation kit
Track guides	Twin track guides	Full length track guides
Trackshoes	**12mm Standard duty** 600mm 700mm 800mm 900mm	**15mm Heavy duty** 600mm 700mm

WORKING RANGE MONOBOOM 6.2M



WORKING RANGE MONOBOOM 6.2M

Dipper length			2.5m	3.1m
A	Maximum digging reach	mm	10158	10686
B	Maximum digging reach (on ground)	mm	9933	10473
C	Maximum digging depth	mm	6499	7090
D	Maximum digging height	mm	9935	10289
E	Maximum dumping height	mm	7238	7516
F	Maximum vertical wall cut depth	mm	6133	6628
G	Minimum swing radius	mm	4181	4136
	Bucket rotation	deg	185°	185°
	Maximum dipper tearout	kNm	156.4	129.0
	Maximum bucket tearout	kNm	222.6	222.6

LIFT CAPACITIES – Dipper length: 2.5m, Boom: 6.2m, 600mm Trackshoes, No bucket. **JS305 LC MONO**

	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
6m					7460*	7460*	7170*	5430	7170*	5340	7565
4.5m			10700*	10700*	8470*	7540	7480*	5280	7290	4540	8190
3m			13600*	10590	9760*	7030	8080*	5040	6720	4130	8501
1.5m					10880*	6610	7950	4820	6540	3980	8533
0m			15830*	9630	10900	6370	7790	4670	6740	4070	8291
– 1.5m	13440*	13440*	15320*	9650	10830	6300	7760	4650	7420	4460	7748
– 3m	18820*	18820*	13940*	9840	10520*	6410			8910	5400	6830

LIFT CAPACITIES – Dipper length: 3.1m, Boom: 6.2m, 600mm Trackshoes, No bucket. **JS305 LC MONO**

	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
6m					6680*	6680*	6460*	5550	5290*	4690	8210
4.5m			9450*	9450*	7740*	7700	6920*	5360	5340*	4050	8787
3m			12380*	10980	9120*	7160	7610*	5090	5570*	3710	9077
1.5m			14690*	10060	10400*	6680	7980	4830	5910	3580	9108
0m			15670*	9640	10920	6370	7770	4640	6050	3640	8882
– 1.5m	12510*	12510*	15600*	9550	10760	6240	7670	4560	6550	3920	8378
– 3m	19540*	19540*	14640*	9660	10810	6270	7750	4630	7690	4590	7540

 Lift capacity front and rear.

 Lift capacity full circle.

Notes:

1. 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.
2. Lift capacities assume that the machine is on firm, level ground.
3. Lift capacities may be limited by local regulations. Please refer to your dealer.