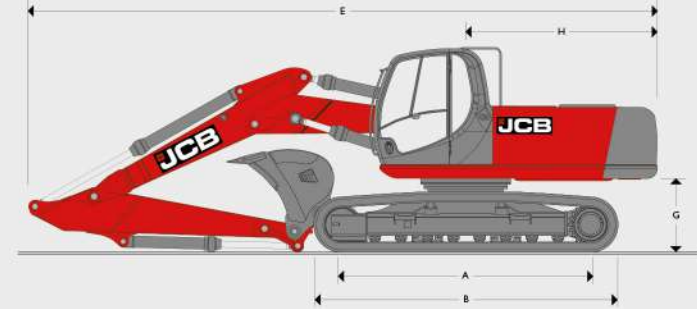
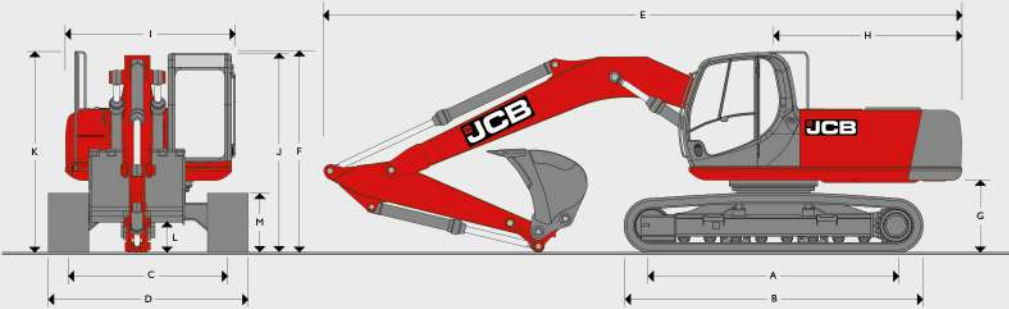


STATIC DIMENSIONS



STATIC DIMENSIONS

Dimensions in mm	JS220	JS235	
	NLC	HD	
A Track length on ground	3660	3420	
B Undercarriage overall length	4460	4220	
C Track gauge	1990	2000	
D Width over tracks (500mm trackshoes)	2490	-	
D Width over tracks (550mm trackshoes)	-	2550	
D Width over tracks (600mm trackshoes)	2590	-	
Dipper lengths	2.40m	3.0m	2.40m
E Transport length with Monoboam (T.A.B)	9584 (9600)	9584 (9600)	9584 (9600)
F Transport height with Monoboam (T.A.B)	3232 (3085)	3179 (3085)	3286 (3286)
G Counterweight clearance	1032	1140	
H Tailswing radius	2825	2825	
I Width of superstructure - upper	2548	2548	
J Height over cab	2996	3050	
K Height over grab rail	3179	3286	
L Ground clearance	485	550	
M Track height	885	995	

ENGINE

Model	JCB DIESELMAX 448 TCA EU Stage V
Type	4-stroke, 4-cylinder in-line, direct injection, turbocharged diesel.
Rated power (net)	129kW (173hp)
Piston displacement	4.8 litres
Injection	Electronic injection.
Air filtration	Dry element with in cab warning indicator.
Starting system	24 volt.
Batteries	2 x 12.
Alternator	24 Volt - 100 Amp

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 applied, automatic hydraulic release
Gradeability	70% (35 deg) continuous.
Travel speed	High - 5.6 km/h. Low - 3.3 km/h.
Tractive effort	191.1 kNm

WEIGHTS AND GROUND BEARING PRESSURES

Figures include 0.81m³ bucket 683kg, operator, full fuel tank and 2.4m dipper.

		500mm shoes	550mm shoes	600mm shoes
JS220 NLC MONO				
Machine weight	kg	22446	-	22724
Ground bearing pressure	kg/cm	0.57	-	0.48
JS220 NLC TAB				
Machine weight	kg	23592	-	23870
Ground bearing pressure	kg/cm	0.60	-	0.51
JS235 HD MONO				
Machine weight	kg	-	23384	-
Ground bearing pressure	kg/cm	-	0.57	-
JS235 HD TAB				
Machine weight	kg	-	24487	-
Ground bearing pressure	kg/cm	-	0.60	-

SWING SYSTEM

Swing motor	Axial piston.
Swing brake	Hydraulic braking plus automatic spring applied disc type parking brake.
Swing torque	68.3 kNm.
Swing speed	12.9rpm.
Swing gear	Large diameter, internally toothed fully sealed grease bath lubricated.

BUCKET AND ARM COMBINATION - MONOBOOM

Bucket options		GP Bucket							HD Bucket						
		600	750	900	1100	1200	1350	1500	600	750	900	1100	1200	1350	1500
Bucket width	mm	600	750	900	1100	1200	1350	1500	600	750	900	1100	1200	1350	1500
Bucket capacity	m ³	0.38	0.51	0.66	0.81	0.95	1.10	1.25	0.38	0.51	0.66	0.81	0.95	1.10	1.25
Bucket weight	kg	482	539	603	656	721	773	838	583	649	730	791	852	933	994
JS220 NLC															
2.4m Quickhitch (No Quickhitch)		□ (□)	□ (□)	□ (□)	□ (□)	■ (□)	● (■)	● (■)	□ (□)	□ (□)	□ (□)	□ (□)	■ (□)	● (■)	✕ (●)
3.0m Quickhitch (No Quickhitch)		□ (□)	□ (□)	□ (□)	■ (□)	● (■)	● (■)	✕ (●)	□ (□)	□ (□)	□ (□)	■ (□)	● (■)	✕ (●)	✕ (●)
JS235 HD															
2.4m Quickhitch (No Quickhitch)		□ (□)	□ (□)	□ (□)	□ (□)	□ (□)	□ (□)	■ (□)	□ (□)	□ (□)	□ (□)	□ (□)	□ (□)	■ (□)	● (■)
3.0m Quickhitch (No Quickhitch)		□ (□)	□ (□)	□ (□)	□ (□)	□ (□)	■ (□)	● (■)	□ (□)	□ (□)	□ (□)	□ (□)	■ (□)	● (■)	● (■)

□ = Suitable for general excavating (materials up to 2000kg/cu.m)

■ = Suitable for light excavating (materials up to 1600kg/cu.m.)

● = Suitable for grading and loading (materials up to 1200kg/cu.m)

✕ = Not warranted

* Bucket capacity recommendations calculated for Monoboom only.

SERVICE CAPACITIES

Fuel tank	litres	235
Radiator	litres	31.5
Engine oil	litres	20.4
Swing drive	litres	5.0
Hydraulic tank	litres	120
Final drive (each side)	litres	4.7
DEF tank	litres	65

UNDERCARRIAGE

Carriage options	NLC – Narrow Long Carriage, HD – Heavy Duty.	
Construction	Fully welded, 'X' frame type with central bellyguarding and sloping sidemembers with dirt relief holes under top rollers.	
Recovery point	Front and rear.	
Track type	Sealed and greased.	
Track shoe options	NLC – 500mm, 600mm. HD – 550mm.	
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.	
	NLC	HD
No. of track guides	2 per side	2 per side
No. of lower rollers	8 per side	8 per side
No. of upper rollers	2 per side	2 per side
No. of track shoes	49 per side	47 per side

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 228 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.
With power boost	372 bar.
Swing circuit	279 bar.
Travel circuit	343 bar.
Pilot control	40 bar.

Filtration

In tank	150 micron, suction strainer.
Main return line	10 micron glass fibre element.
Pilot line	10 micron, paper element.
Hydraulic hammer return	10 micron, reinforced microform element.

WORKING RANGE JS220NLC MONOBOOM

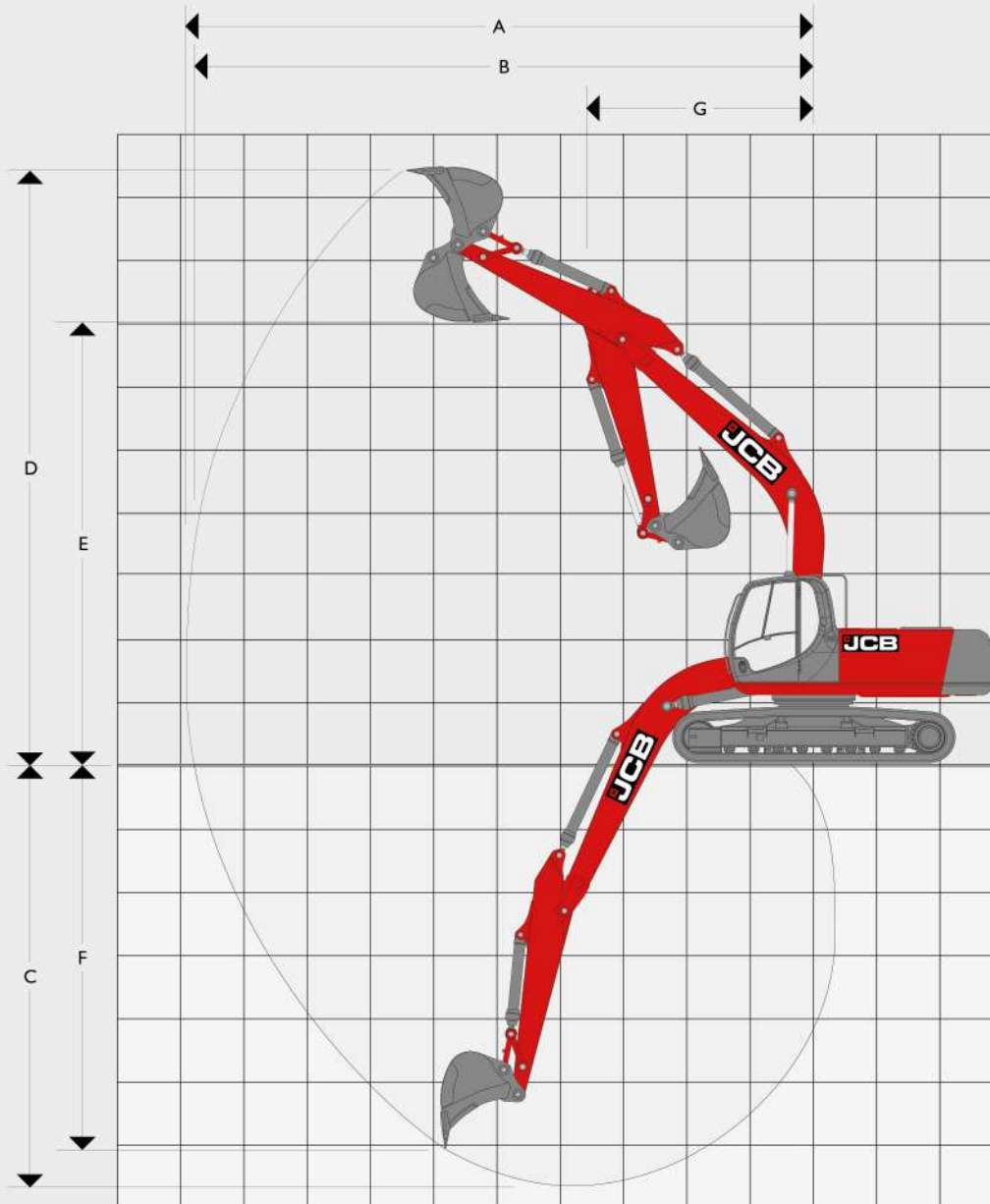
Boom length 5.70m

Dipper length		2.40m	3.00m	
A	Maximum digging reach	m	9.31	9.80
B	Maximum digging reach (on ground)	m	9.14	9.64
C	Maximum digging depth	m	6.16	6.75
D	Maximum digging height	m	8.93	9.03
E	Maximum dumping height	m	6.34	6.47
F	Maximum vertical wall cut depth	m	4.69	4.97
G	Minimum swing radius	m	3.84	3.80
	Bucket rotation	deg	183°	183°
	Dipper tearout	kNm	117.8	9974
	Dipper tearout with boost	kNm	127.8	106.1
	Bucket tearout	kNm	138.2	138.2
	Bucket tearout with boost	kNm	154.9	154.9

WORKING RANGE JS235HD MONOBOOM

Boom length 5.70m

Dipper length		2.40m	3.00m	
A	Maximum digging reach	m	9.34	9.89
B	Maximum digging reach (on ground)	m	9.16	9.70
C	Maximum digging depth	m	5.92	6.50
D	Maximum digging height	m	9.30	9.50
E	Maximum dumping height	m	6.63	6.85
F	Maximum vertical wall cut depth	m	5.37	5.97
G	Minimum swing radius	m	3.71	3.60
	Bucket rotation	deg	183°	183°
	Dipper tearout	kNm	113.4	94.1
	Dipper tearout with boost	kNm	123.1	102.1
	Bucket tearout	kNm	142.7	142.7
	Bucket tearout with boost	kNm	154.9	154.9



WORKING RANGE JS220NLC T.A.B

Boom length 5.70m			
Dipper length			
		2.40m	3.00m
A	Maximum digging reach	m	9.44
B	Maximum digging reach (on ground)	m	9.26
C	Maximum digging depth	m	5.72
D	Maximum digging height	m	10.61
E	Maximum dumping height	m	7.70
F	Maximum vertical wall cut depth	m	4.51
G	Minimum swing radius	m	2.55
	Bucket rotation	deg	183°
	Dipper tearout	kNm	113.4
	Dipper tearout with boost	kNm	123.1
	Bucket tearout	kNm	142.7
	Bucket tearout with boost	kNm	154.9

WORKING RANGE JS235HD T.A.B

Boom length 5.70m			
Dipper length			
		2.40m	3.00m
A	Maximum digging reach	m	9.44
B	Maximum digging reach (on ground)	m	9.26
C	Maximum digging depth	m	5.67
D	Maximum digging height	m	10.64
E	Maximum dumping height	m	7.75
F	Maximum vertical wall cut depth	m	4.44
G	Minimum swing radius	m	2.55
	Bucket rotation	deg	183°
	Dipper tearout	kNm	113.4
	Dipper tearout with boost	kNm	123.1
	Bucket tearout	kNm	142.7
	Bucket tearout with boost	kNm	154.9

