

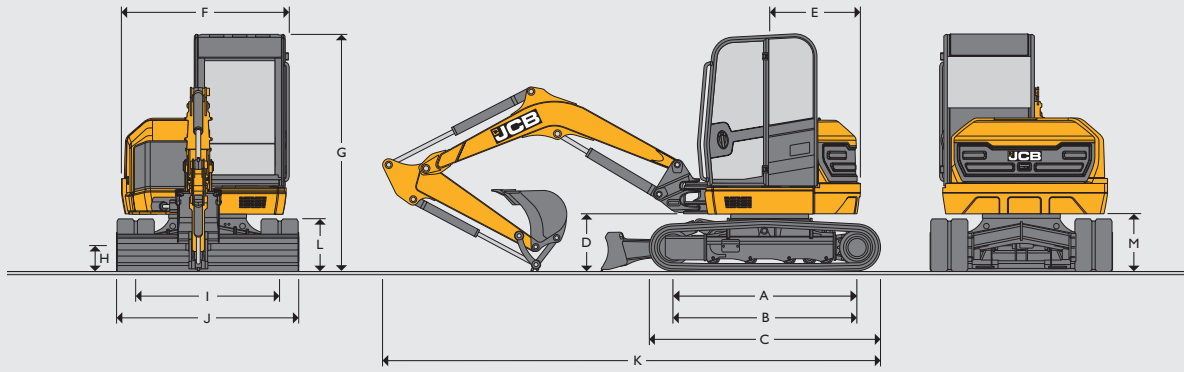


MINI EXCAVATOR | 51R-1 Canopy / Cabin AC

Operating weight: 4792/5112/5366/5483kg Net engine power: 33.1/33.4kW



STATIC DIMENSIONS



Machine model		48z-1	51R-1	55z-1	57C-1	
A	Sprocket idler centres	mm	1985			
B	Track length on ground	mm	1985			
C	Undercarriage overall length – rubber	mm	2490			
	Undercarriage overall length – steel	mm	2490			
D	Kingpost clearance	mm	631			
E	Tailswing radius	mm	975	1030	1000	1300
F	Overall width of superstructure	mm	1820	1850	1845	
G	Height over cab	mm	2551			2561
H	Ground clearance	mm	300			
I	Track gauge	mm	1550			
J	Width over tracks	mm	1950			
K	Transport length with standard dipper	mm	5353	5349	5518	5495
L	Track height	mm	560			
M	Counterweight clearance	mm	618			

UNDERCARRIAGE

Machine model		48z-1	51R-1	55z-1	57C-1
No of top rollers		1			
No of bottom rollers		4			
Track width rubber (STD)	mm	400			
Track width steel	mm	400			
Ground bearing pressure (400mm tracks)	kg/cm ²	0.30	0.32	0.35	0.36
Ground bearing pressure (550mm tracks)	kg/cm ²	0.22	0.23	0.25	0.26
Track tensioning		Grease			
Travel speed – low	kph	3			
Travel speed – high	kph	4.6			
Tractive effort	kN	35.7	36.5	38.1	40

ENGINE

Machine model		Standard		Optional	
		48z-1, 51R-1, 55z-1, 57C-1	48z-1, 51R-1, 55z-1, 57C-1		48z-1, 51R-1, 55z-1, 57C-1
Model		Stage 3A 404D-22		Tier 4 Final KDI 1903	
Fuel		Diesel			
Cooling		Water cooled			
Gross power ISO 14396	kW	35.7 (@ 2600rpm)		36 (@ 2200rpm)	
Net power	kW	33.1 (@ 2600rpm)		33.4 (@ 2200rpm)	
Gross torque ISO 14396	Nm	143 (@ 1800rpm)		225 (@ 1500rpm)	
Displacement	cc	2179		1903	
Gradeability	degrees	35		30	
Starter motor	kW	2		2	
Battery	volt / amps	12V / 75Ah		12V / 75Ah	
Alternator	amps (Air con)	85		100	

SERVICE CAPACITIES

Machine model		48z-1	51R-1	55z-1	57C-1
Fuel tank	ltr	76			
Engine coolant	ltr	Stage 3A: 12 / Tier 4: 9.2			
Engine oil	ltr	Stage 3A: 9.1 max / Tier 4: 8 max			
Hydraulic system	ltr	100		112	
Hydraulic tank	ltr	55		62	

HYDRAULIC SYSTEM

Machine model		48z-1	51R-1	55z-1	57C-1
Pump	cc	63			
Nominal output @ 2000rpm	lpm	126			
Excavator/track main relief pressure	bar	240		265	
Slew main relief pressure	bar	216			
Auxiliary hydraulic pressure (Low)	bar	190			
Auxiliary hydraulic pressure (High)	bar	190			
Auxiliary hydraulic flow (Low)	lpm	40			
Auxiliary hydraulic flow (High)	lpm	90			
Hydraulic pump		Piston			

WEIGHTS

Machine model		48z-1	51R-1	55z-1	57C-1
Operating weight* (400mm rubber tracks)	kg	4792	5112	5366	5483
Shipping** weight (400mm rubber tracks)	kg	4662	4982	5236	5353
With FOGs guard – stage 1	kg	+ 16			
Aircon (includes FOGS guard-stage 1)	kg	+ 61		+ 66	
With steel tracks (400mm)	kg	+ 154			
With steel tracks (550mm)	kg	+ 276			
With Geo grip tracks (400mm)	kg	+ 176			
With 4 way dozer	kg	+ 219			
Hydraulic quickhitch installation weight	kg	+ 72.5			

* Operating weight to ISO 6016 including cab, rubber tracks standard dipper, 600mm bucket, full tanks and a 75kg operator.

** Shipping weight to ISO 6016 is mass of the base machine without an operator, with the fuel level at 10% of tank capacity.

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