



JCB 508-66TC



FAST FACTS

- Large, spacious operator station
- JCB EcoMAX engine
- No after treatment required
- Simple, ergonomic joystick controls
- 29 gpm hydraulic pump for fast cycle times
- Five-section boom; 66' maximum lift height



TECHNICAL SPECIFICATIONS

Max. lift capacity	8,500 lb
Max. lift height	65' 9"
Engine power	74 hp
Machine weight	28,627 lb
Overall height	8' 11"
Max. travel speed	18 mph



STATIC DIMENSIONS	506-23	509-23	512-26	509-45	510-44	510-55	508-66
Overall height	8' 2"	8' 2"	8' 6"	8' 6"	8' 6"	8' 10"	8' 11"
Overall width (over tires)*	7' 4"	7' 4"	8' 4"	7' 8"	7' 9"	8'	8'
Inside width of cab	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"
Front track	5' 11"	5' 11"	6' 6"	6' 2"	6' 3"	6' 3"	6' 5"
Wheelbase	9'	9'	9'	9'	9' 6"	9'	9'
Overall length to front tires	14' 4"	14' 4"	14' 6"	15' 6"	17'	16' 8"	16' 8"
Overall length to front carriage	16' 4"	16' 4"	17' 3"	20' 5"	20' 6"	20' 10"	22' 4"
Ground clearance	1' 4"	1' 4"	1' 3"	1' 3"	1' 4"	1' 4"	1' 4"
Front wheel center to carriage	4' 1"	4' 1"		6' 11"	5' 4"	6' 3"	7' 10"
Rear wheel center to rear face	3' 2"	3' 2"		4' 5"	5' 5"	5' 4"	7' 10"
Overall width with stabilizers fully deployed	N/A	N/A	NA	8' 5"	8' 9"	11' 6"	12' 6"
Outside turn radius (over tires)	12' 2"	12' 2"	13' 5"	12' 3"	13' 5"	13' 5"	13' 5"
Carriage rollback angle	42.6°	42.6°	47°	37°	41.5°	39°	39°
Carriage dump angle	37.5°	33°	33°	12.5°	9.8°	8.8°	8.8°
Weight	15,560 lb	17,306 lb	24,340 lb	23,986 lb	24,449 lb	27,494 lb	28,627 lb
Tires	15.5/80-24	15.5/80-24	480/80 R26	15.5/80-24	15.5-25	17.5-25 16 PR	17.5-25

* Dependent upon tire specified

LIFT PERFORMANCE	506-23	509-23	512-26	509-45	509-45	510-44	510-44	510-55	510-55	508-66	508-66
Stabilizers				retracted	extended	retracted	extended	retracted	extended	retracted	extended
Maximum lift capacity	6,000 lb	9,000 lb	12,000 lb	8,800 lb	8,800 lb	10,000 lb	10,000 lb	10,000 lb	10,000 lb	8,800 lb	8,800 lb
Lift capacity to full height	6,000	5,250	6600	3300	6600	6000	10000	3000	5000	1100	3300
Lift capacity at full reach	3000	3500	3800	440	2750	1250	2500	0	1000	0	440
Lift height	23'	23'	26' 6"	45' 2"	45' 2"	44' 3"	44' 3"	42' 10"	54' 9"	65' 7"	65' 7"
Reach at maximum lift height	2'	2'	3'	10' 1"	10' 1"	5' 6"	5' 6"	7'	6' 8"	21'	21'
Maximum forward reach	12' 2"	12' 2"	14' 8"	31' 9"	31' 9"	30' 8"	30' 8"	30'	41' 5"	52' 1"	52' 1"
Reach with 1 ton load	12' 2"	12' 2"				20' 5"	30' 3"	18' 8"	34' 4"		
Placing height	20' 6"	20' 6"				40' 1"	43' 4"	35' 9"	53' 2"		

ENGINE – JCB EcoMAX - Latest technology and advanced design provides low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance. Two-stage, dry type air filter with primary and safety elements. EPA Stage IV / Tier 4 emissions compliant.

ENGINE	506-23 TC/508-66 TC	506-23S TC/509-23S TC/509-45 TC/510-44 TC/510-55 TC	512-26 TC
Emissions level	Stage IV / Tier 4	Stage IV / Tier 4	Stage IV/Tier 4
Manufacturer	JCB	JCB	JCB
Displacement	4.4 liter	4.4 liter	4.4 liter
Cylinders	4	4	4
Bore size	4.05"	4.05"	4.05"
Stroke	5"	5"	5"
Aspiration	Turbocharged cooled	Turbocharged cooled & Intercooler	Turbocharged cooled
Power @ 2,200 rpm	74 hp	109 hp	125 hp
Torque @ 1,300 rpm	400 Nm	516 Nm	550 Nm
After treatment	N/A	SCR & DEF	SCR & DEF

HYDRAULIC CYCLE TIMES

	506-23	509-23	509-45	512-26	510-44	510-55	508-66
Lift (seconds)	7.2	88	13.5	7.4	15.1	22.7	17.3
Lower (seconds)	5.4	6.5	11	8.3	15.2	23.4	15.9
Extend (seconds)	6.8	6.8	15.6	8.3	19.5	18.3	28.1
Retract (seconds)	5	5	14.4	2.8	19.5	16.7	22.7
Bucket dump (seconds)	3.5	3.5	1.7	2.8	3.2	4.2	6.1
Bucket crowd (seconds)	2.9	2.9	2	3	2.5	4.6	5.9

HYDRAULICS

	506-23	509-23	509-45	512-26	510-44	510-55	508-66
Hydraulic system pressure (PSI)	3,500	3,770	3,770	3770	3500	3770	3770
Max. pump flow (gpm)	21.6	23.2	29	37	29	43	29

SERVICE CAPACITIES

	506-23	509-23	509-45	512-26	510-44	510-55	508-66
Coolant (gallons)	6	6	7	6	6	6	7
Engine oil sump (gallons)	3.6	3.6	4	3.6	3.6	3.6	4
Hydraulic oil (gallons)	29	29	35	29	35	40	48
Fuel tank (gallons)	38.5	38.5	38.5	38.5	38.5	38.5	38.5
DEF tank (gallons)	5.4	5.4	3	5.4	5.4	5.4	3

TRANSMISSION

	506-23	509-23	509-45	512-26	510-44	510-55	508-66
Travel speed	18mph	20mph	18mph	12mph	18mph	18mph	18mph

Torque converter, 4 speed powershift gearbox.

BRAKES

Service brakes: Hydraulically activated, self-adjusting, oil-immersed in-board high back-off multi-disc type on front axle.

Parking brake: Hand-operated disc brake on output of gearbox.

74hp: Hand-operated disc brake on output of gearbox.

109hp / 125hp: Oil immersed disc type.

BOOM & CARRIAGE

Boom is manufactured from high tensile steel. JCB self-leveling carriage and pallet forks and a wide range of attachments.

STEERING

Hydrostatic power steering with power track rods on both axles.

SAFETY CHECK VALVES

Fitted to carriage tilt, telescopic and boom lift cylinders.

DELUXE CAB

Quiet, safe and comfortable cab conforms to ROPS ISO 3471 and FOPS ISO 3449. Tinted glass all-around. Laminated roof screen. Roof bars, front, rear and roof screen wiper/washer and heater/screen defroster. Opening rear window. Audio-visual warning system for coolant temperature, engine oil pressure, air cleaner, battery charge, transmission oil, water in fuel temperature and pressure. Hour meter and road speed indicator. Engine temperature and fuel gauge. Full road lighting. Reversing light. Direction indicators. Adjustable steer column with stalk bar powershift change and forward reverse shuttle. Throttle and brake pedal. Adjustable suspension seat with adjacent mechanically activated park brake. Includes leveling inclinometer.

Safety canopy as above but with side glass and roof glass only (screen wiper and heater/screen defroster not applicable).