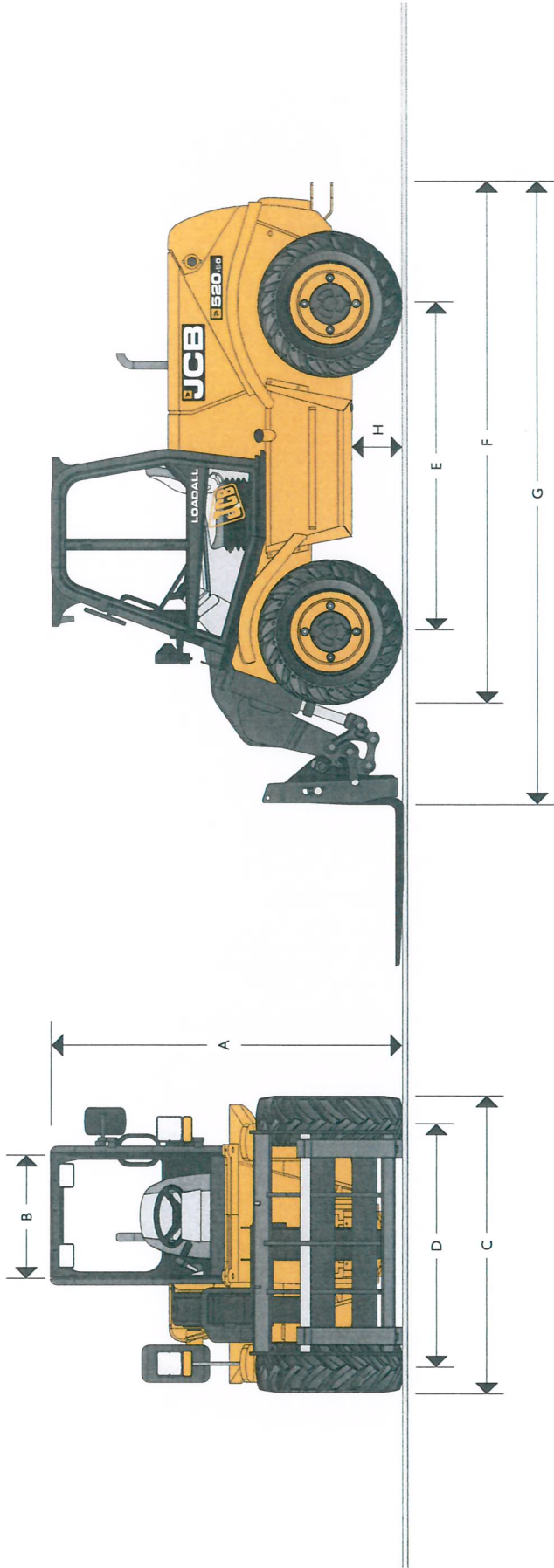




MAX. PAYLOAD: 2.0 tonnes (4409lb) MAX. LIFT HEIGHT: 5 metres (16ft 5in) MAX. HORSEPOWER: 55.9 kW (75hp)

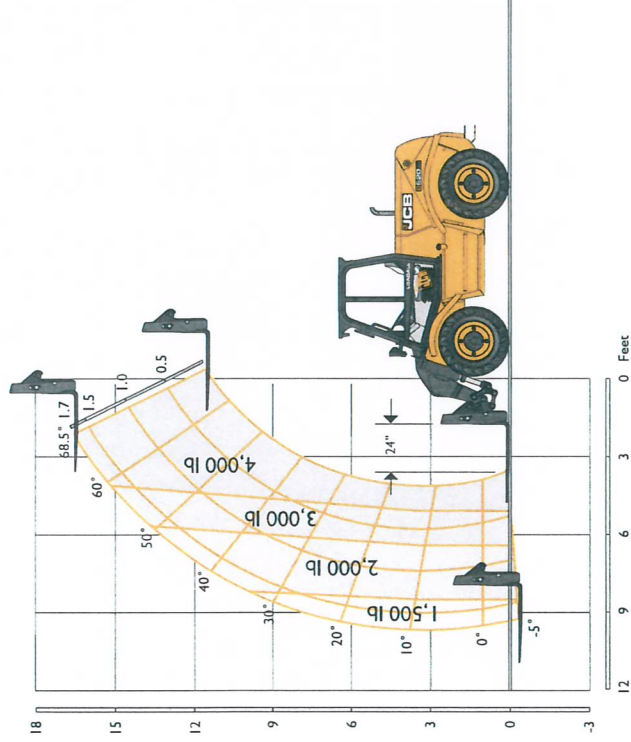


STATIC DIMENSIONS

Machine model	520-50	Machine model	520-50
A Overall height	m (ft-in)	G Overall length to front of carriage	m (ft-in)
B Inside width of cab	2.12 (6-11)	H Ground clearance	3.59 (11-9)
C Width over tyres (min)	0.80 (2-7)	Outer turn radius over tyres	0.30 (1-0)
D Front track	1.84 (6-0)	Weight	3.10 (10-2)
E Wheel base	1.53 (5-0)	Tyres	487/1 (10736)
F Overall length to front of tyres	2.00 (6-7)		10.5/80x18 10PR
	3.08 (10-1)		



LIFT PERFORMANCE



Load Centre 500mm

LIFT PERFORMANCE

Machine Model	520-50
Lift capacity at full height	kg (lb)
Lift capacity at full reach	kg (lb)
Max. lift height	mm (ft-in)
Reach at max. lift height	mm (ft-in)
Maximum reach forward	mm (ft-in)
Reach with 1 tonne load	mm (ft-in)
Placing height	mm (ft-in)

LOADER PERFORMANCE – Standard GP Bucket

Machine Model	520-50
Bucket rated capacity	m³ (yd³)
Bucket struck capacity	m³ (yd³)
Breakout force	kgf (lbf)
Dump height (max)	mm (ft-in)
Dump angle at max height	degrees
Loadover height (max)	mm (ft-in)
Rollback angle at ground	degrees
Carriage rotation angle (total)	degrees
Payload (max)	kg (lb)
Bucket width	mm (ft-in)



ENGINE

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.

Easily replaceable pre-finished dry liners, five bearing, heat treated crankshaft. Expansion controlled pistons.

Displacement	ltr (in ³)	4.4 (269)
No. of cylinders		4
Bore size	mm (in)	105 (4.13)
Stroke	mm (in)	127 (5)
Aspiration		Naturally aspirated
Power rating @ 2200rpm		
Gross SAE J1349	kW (HP)	55.9 (75)
Torque rating @ 1700rpm		
SAE J1349	Nm (lbf ft)	265 (195)
Noise level directive 2000/14/EC	dB(A)	104

TRANSMISSION

JCB Syncro Shuttle transmission incorporating torque converter, reversing shuttle and all synchromesh 4-speed gearbox in one resiliently mounted unit.

Electro-hydraulic direction control through a steering column mounted switch for modulated forward/reverse shuttling.

Gear lever and loader control transmission disconnect switches for fast gear changing.

Travel speed 30km/h (18mph)

Front and rear drive axles: Epicyclic hub reduction type with drop box on front axle, 4WS and permanent 4WD.

BRAKES

Service brake: Hydraulically activated, power assisted multi disc type brakes. Oil immersed for long life and fade free braking. Mounted within the planetary hub means that the brakes are direct acting to each wheel, greatly increasing deceleration and eliminating skid potential.

Parking brake: Electro/hydraulically operated oil immersed multi disc brake on the transmission output shaft and will hold the machine on 1 in 4 gradients.

BOOM AND CARRIAGE

Boom is manufactured from high tensile steel.

Low maintenance, hard wearing pads.

JCB tool carrier parallel lift carriage with pin locking, accepts forkframe with integral pallet forks and a wide range of attachments.

SERVICE CAPACITIES

	litres (UK gal)
Fuel tank	90 (19.5)
Hydraulic tank	70 (15.5)
Coolant	14 (3.7)

ELECTRICS

12 V negative earth, 110 AH heavy duty battery with isolator, 75 amp alternator, Full road lighting, directive indicators, hazard warning.

HYDRAULICS

Machine model		520-50
Operating system pressure	bar (psi)	241 (3500)
Flow at system pressure (@ 2200rpm)	ltr/min	65
Cycle times		seconds
Boom raise		7.4
Boom lower		5.3
Extend		5.7
Retract		3.2
Bucket dump		2.3
Bucket crowd		3.2

SAFETY CHECK VALVES

Fitted to carriage tilt, telescopic and boom lift rams.

CAB

Quiet, safe and comfortable cab conforms to ROPS ISO 3471 and FOPS ISO 3449. Toughened glass all round. Tinted with laminated roof screen. Roof bars, front screen and roof screen wipers and heater/screen demister. Rear opening window with wash/wipe. Audio-visual warning system for coolant temperature, engine oil pressure, air-cleaner, battery charge, transmission oil temperature and pressure. Hourmeter and tachometer. Multi lever direct acting hydraulic control levers with joystick control of lift and crowd, gear lever, park/brake. Throttle and brake pedals. Adjustable deluxe suspension seat fitted with levelling indicator.

Load moment indicator: Automatic eye level audio-visual safe load indicator warning system receiving a signal from a load sensor housed on the rear axle. This system continuously monitors the machine's forward stability and leaves the operator in control at all times.

STEERING

Full power hydrostatic steering. Permanent 4WS with 32" lock front and rear axles provides exceptional manoeuvrability. 4WS is provided by a steer priority flow from the main hydraulic pump. Flow is directed through a steer alignment valve to double acting steer rams (1 per axle).

Permanent 4WS.

OPTIONS AND ACCESSORIES

Options: Low cab, working lights, rotating flashing beacon, fire extinguisher, front screen guard, mechanical or hydraulic tow hitch for raulic pin locking for attachments, boom end auxiliary service. Low ground pressure bearing tyres, front and rear limited slip differential axles.

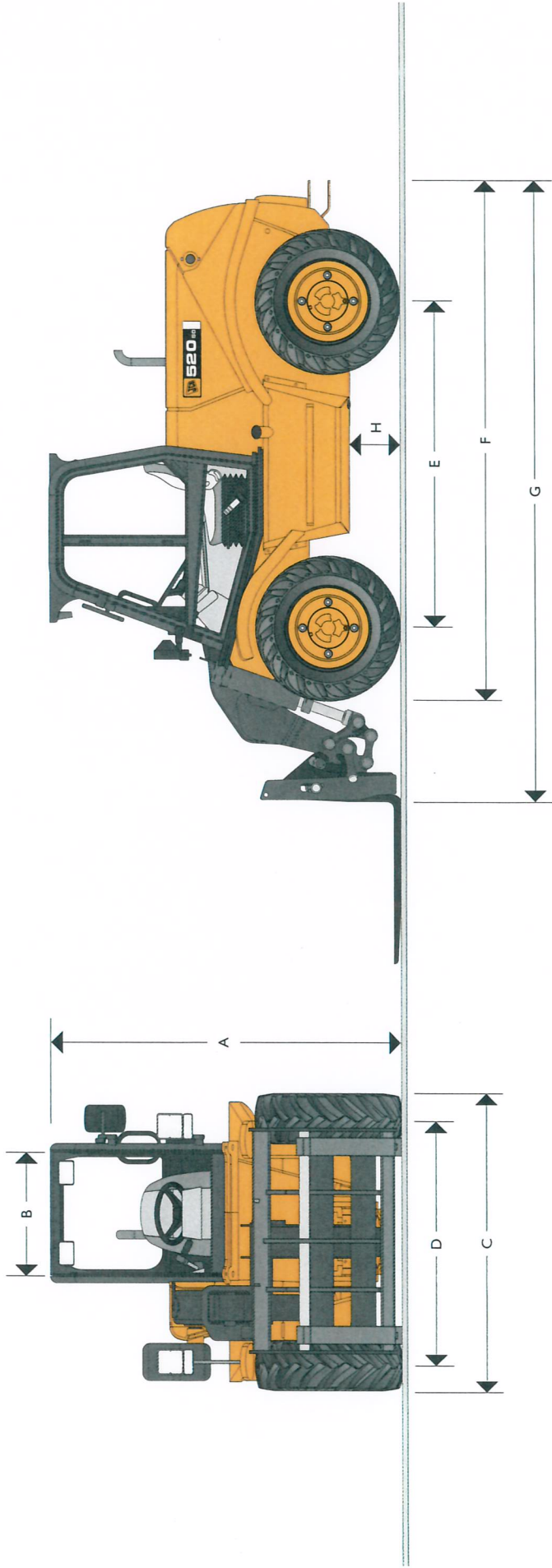
Attachments: 520-50 is available with hydraulic quickhitch. Contact your local dealer for details of the comprehensive range.



JCB LOADALL | 520-50



MAX. PAYLOAD: 2.0 tonnes (4409lb)
MAX. LIFT HEIGHT: 5 metres (16ft 5in)
MAX. HORSEPOWER: 57.5 kW (77hp)



STATIC DIMENSIONS

Machine model	520-50	Machine model	520-50
A Overall height	m (ft-in) 2.12 (6-11)	G Overall length to front of carriage	m (ft-in) 3.59 (11-9)
B Inside width of cab	0.80 (2-7)	H Ground clearance	0.30 (1-0)
C Width over tyres (min)	1.84 (6-0)	Outer turn radius over tyres	3.10 (10-2)
D Front track	1.53 (5-0)	Weight	kg (lb) 4870 (10736)
E Wheel base	2.00 (6-7)	Tyres	10x18 10PR
F Overall length to front of tyres	3.08 (10-1)		

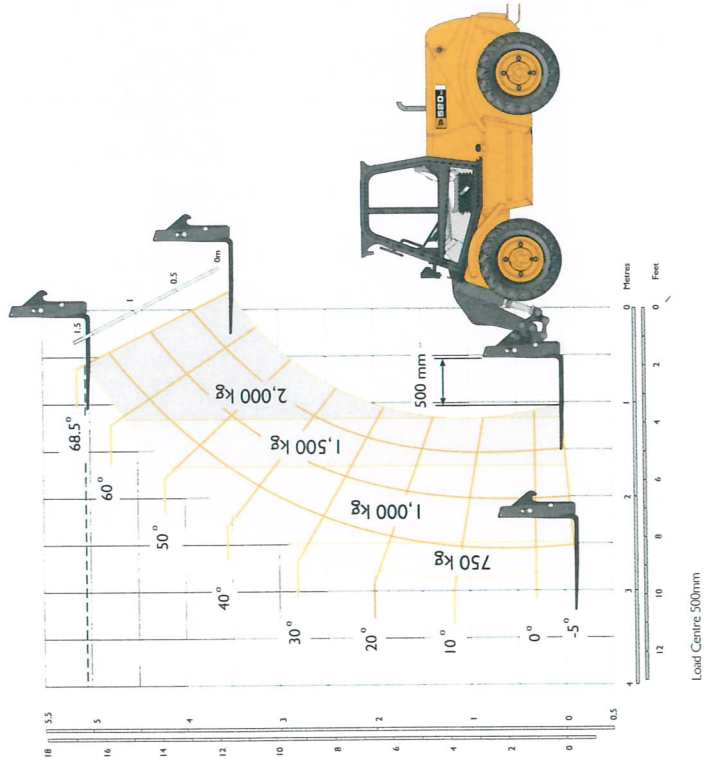


JCB LOADALL | 520-50



A Product
of Hard Work

LIFT PERFORMANCE



LIFT PERFORMANCE

Machine Model	520-50
Lift capacity at full height	kg (lb)
Lift capacity at full reach	kg (lb)
Max. lift height	mm (ft-in)
Reach at max. lift height	mm (ft-in)
Maximum reach forward	mm (ft-in)
Reach with 1 tonne load	mm (ft-in)
Placing height	mm (ft-in)

LOADER PERFORMANCE – Standard GP Bucket

Machine Model	520-50
Bucket rated capacity	m³ (yd³)
Bucket struck capacity	m³ (yd³)
Breakout force	kgf (lbf)
Dump height (max)	mm (ft-in)
Dump angle at max height	degrees
Loadover height (max)	mm (ft-in)
Rollback angle at ground	degrees
Carriage rotation angle (total)	degrees
Payload (max)	kg (lb)
Bucket width	mm (ft-in)



JCB LOADALL | 520-50



ENGINE

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 and pre cleaner.

Easily replaceable pre-finished dry liners, five bearing, heat treated crankshaft. Expansion controlled pistons.

Displacement	ltr (in ³)	4.20 (256)
No. of cylinders		4
Bore size	mm (in)	103 (4.06)
Stroke	mm (in)	127 (5)
Aspiration		Naturally aspirated
Power rating @ 2000rpm		
Gross SAE J1349	kW (HP)	57.5 (77)
Torque rating @ 1200rpm		
SAE J1349	Nm (lbf ft)	290 (214)
Noise level directive 2000/14/EC	dBa	104

TRANSMISSION

JCB Syncro Shuttle transmission incorporating torque converter, reversing shuttle and all synchromesh 4-speed gearbox in one resiliently mounted unit.

Electro-hydraulic direction control through a steering column mounted switch for modulated forward/reverse shuttling.

Gear lever and loader control transmission disconnect switches for fast gear changing.

Travel speed 30km/h (18mph)

Front and rear drive axles: Epicyclic hub reduction type with drop box on front axle. 4WS and permanent 4WD.

BRAKES

Service brake: Hydraulically activated, power assisted multi disc type brakes. They are oil immersed for long life and fade free braking. Mounted within the planetary hub means that the brakes are direct acting to each wheel, greatly increasing deceleration and eliminating skid potential.

Parking brake: Electro/hydraulically operated oil immersed multi disc brake on the transmission output shaft and will hold the machine on 1 in 4 gradients.

BOOM AND CARRIAGE

Boom is manufactured from high tensile steel.

Low maintenance, hard wearing pads.

JCB tool carrier parallel lift carriage with pin locking, accepts forkframe with integral pallet forks and a wide range of attachments.

SERVICE CAPACITIES

	litres (UK gal)
Fuel tank	90 (19.5)
Hydraulic tank	70 (15.5)
Coolant	20 (4.4)

ELECTRICS

12 V negative earth, 92 AH heavy duty battery with isolator. 65 amp alternator. Full road lighting, directive indicators, hazard warning.

HYDRAULICS

Machine model		520-50
Operating system pressure	bar (psi)	241 (3500)
Flow at system pressure (@ 2200rpm)	ltr/min	65
Cycle times		seconds
Boom raise		7.4
Boom lower		5.3
Extend		5.7
Retract		3.2
Bucket dump		2.3
Bucket crowd		3.2

SAFETY CHECK VALVES

Fitted to carriage tilt, telescopic and boom lift rams.

CAB

Quiet, safe and comfortable cab conforms to ROPS 86/295/EEC and FOPS 86/296/EEC Directives. Toughened glass all round. Tinted with laminated roof screen. Roof bars, front screen and roof screen wipers and heater/screen demister. Rear opening window with wash/wipe. Audio-visual warning system for coolant temperature, engine oil pressure, air-cleaner, battery charge, transmission oil temperature and pressure. Hourmeter and tachometer. Multi lever direct acting hydraulic control levers with joystick control of lift and crowd, gear lever, parkbrake. Throttle and brake pedals. Adjustable deluxe suspension seat fitted with levelling indicator.

Load moment indicator: Automatic eye level audio-visual safe load indicator warning system receiving a signal from a load sensor housed on the rear axle. This system continuously monitors the machine's forward stability and leaves the operator in control at all times.

STEERING

Full power hydrostatic steering. Permanent 4WS with 32° lock front and rear axles provides exceptional manoeuvrability. 4WS is provided by a steer priority flow from the main hydraulic pump. Flow is directed through a steer alignment valve to double acting steer rams (1 per axle).

Steering option: Three steer mode options: front wheel steer; all wheel steer; crab steer; operated from in the cab by a selection switch, with automatic alignment.

OPTIONS AND ACCESSORIES

Options: Low cab, working lights, reversing light, reverse alarm, rotating flashing beacon, fire extinguisher, front screen guard, mechanical or hydraulic tow hitch for maximum gross weight of 5 tonnes. Complete with trailer light socket and trailer tip hydraulics, hydraulic pin locking for attachments, boom end auxiliary service. Low ground pressure bearing tyres, front and rear limited slip differential axles.

Attachments: 520-50 is available with hydraulic quickhitch. Contact your local dealer for details of the comprehensive range.