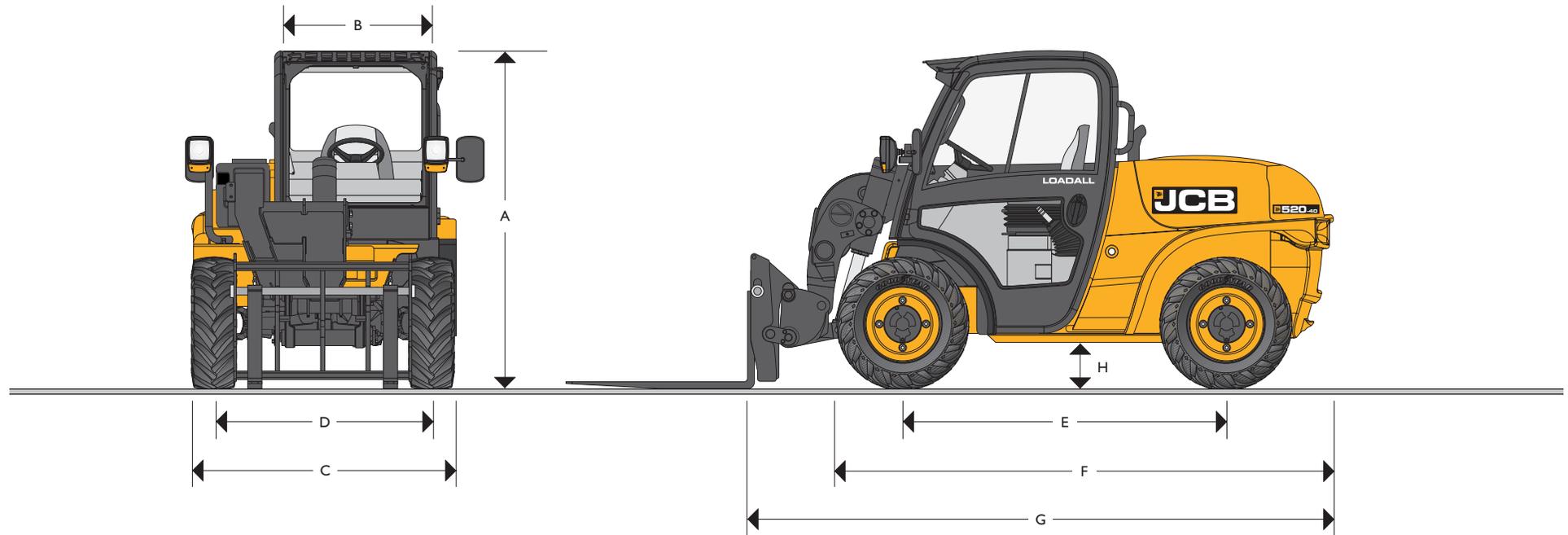


MAX. PAYLOAD: 2.0 tonnes (4409lb) MAX. LIFT HEIGHT: 4 metres (13ft 1in) MAX. HORSEPOWER: 36.3 kW (49hp)

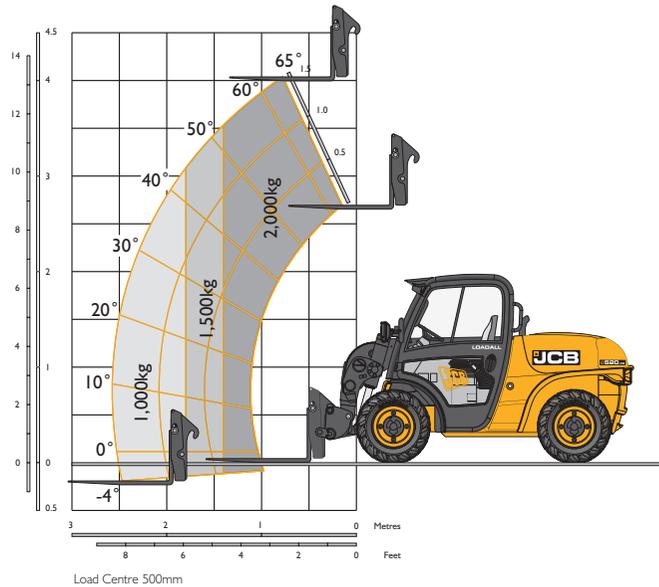


STATIC DIMENSIONS

Machine model	520-40
	m (ft-in)
A Overall height	1.97 (6-6)
B Inside width of cab	0.92 (3-0)
C Width over tyres (min)	1.56 (5-1)
D Front track	1.29 (4-3)
E Wheel base	1.90 (6-3)
F Overall length to front of tyres	2.92 (9-6)
G Overall length to front of carriage	3.38 (11-1)

Machine model	520-40
	m (ft-in)
H Ground clearance	0.27 (0-11)
Outer turn radius over tyres	3.05 (10-0)
Weight	4400 (9700)
Tyres	10x16.5 12 ply
	12x16.5 10 ply
	11.5/80x15.3 8 ply

LIFT PERFORMANCE



LIFT PERFORMANCE

Machine Model	Compact Tool Carrier	Skid Steer Tool Carrier
	520-40	520-40
Lift capacity at full height	kg (lb) 2000 (4408)	2000 (4408)
Lift capacity at full reach	kg (lb) 1000 (2204)	1000 (2204)
Max. lift height	mm (ft-in) 4035 (13-3)	4025 (13-2)
Reach at max. lift height	mm (ft-in) 890 (2-11)	815 (2-8)
Maximum reach forward	mm (ft-in) 2590 (8-6)	2515 (8-4)

LOADER PERFORMANCE

Machine Model	Compact Tool Carrier	Skid Steer Tool Carrier
	520-40	520-40
Shovel rated capacity	m ³ 0.7	0.5
Breakout force	kN (kg) 36 (3700)	33 (3390)
	kg (lb) 3700 (8157)	3400 (7495)
Dump height (max)	mm (ft-in) 3555 (11-8)	3500 (11-7)
Dump angle at max height	degrees 33	40
Loadover height (max)	mm (ft-in) 4015 (13-1)	4015 (13-1)
Rollback angle at ground	degrees 38	31
Carriage rotation angle (total)	degrees 140	140
Bucket width	mm (ft-in) 1750 (5-8)	1730 (5-7)

ENGINE

		520-40
Model		Perkins Diesel 404D-22
Displacement	litres	2.2
Fuel		Diesel
Cooling		Liquid
Bore	mm	84
Stroke	mm	100
Gross power @ 2800 rpm		
ISO 14396	kW (hp)	36,3 (49)
Gross torque @ 1800 rpm		
ISO 14396	Nm (lb/ft)	140 (103.7)
Emission certification		EC Stage IIIA/USA EPA Tier 3
Engine oil service intervals		500 hours

TRANSMISSION

Hydrostatic transmission.

Closed loop variable displacement piston pump and 2 speed bent axis motor.

Transmission inching facility on operation of a combined inching and braking pedal.

Front and rear drive axles: Epicyclic hub reduction type with mid mounted drop box. Permanent 4WS and 4WD.

- Rear axle oscillation.
- Optional front and rear limited slip diff axles.
- Travel speed 20kph

BRAKES

Service brake: Hydraulically activated, disc brake on the transmission output shaft.

Parking brake: Manually operated disc brake on the transmission output shaft.

BOOM AND CARRIAGE

Boom is manufactured from high tensile steel.

Low maintenance, hard wearing pads.

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

Compact Tool Carrier: Compact Loadall compatibility.

Skid Steer Tool Carrier: Skid steer universal compatibility hitch.

SERVICE CAPACITIES

	litres (UK gal)
Fuel tank	61 (13.4)
Hydraulic tank	33 (7.3)
Coolant	8 (1.8)

ELECTRICS

12 V negative earth, 75 AH heavy duty battery, 65 amp alternator. Full road lighting, directive indicators, hazard warning.

HYDRAULICS

Machine model		520-40
Operating system pressure	bar (psi)	250 (3626)
Flow at system pressure (@ 2800rpm)	ltr/min	60
Cycle times		seconds
Boom raise		5.8
Boom lower		4
Extend		5.7
Retract		4
Bucket dump		3.7
Bucket crowd		3.2

SAFETY CHECK VALVES

Fitted to crowd, extension and lift rams.

CAB

Quiet, safe and comfortable cab conforms to ROPS ISO3471 and FOPS ISO 3449. Tinted glass all round with laminated front and roof screen. Front, rear screen wash/wipe and heater/screen demister. Opening door window. Visual warning system for coolant temperature, engine oil pressure, air cleaner, battery charge, transmission oil pressure, engine temperature, fuel gauge and hourmeter.

Boom control lever incorporating forward/reverse switch. Throttle and brake pedals floor mounted. Adjustable deluxe suspension seat with side mounted park brake lever. Automatic eye level audio-visual load moment indicator warning system receiving a signal from a load sensor 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.

OPTIONS AND ACCESSORIES

Options: Work lights, rotating flashing beacon, fire extinguisher, limited slip diff front and rear axles, screen guard, sun blind, mechanical or hydraulic Compact tool carrier and Skid Steer tool carrier, battery isolator.

Attachments: Contact your local dealer for details of the comprehensive range.

A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into Britain's largest privately owned manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheeled loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders, tractors and compaction equipment.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in the world.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with a global sales and service network of more than 650 dealers and agents, we aim to deliver the best customer support in the industry.

Through setting the standards by which others are judged, JCB has become one of the world's most impressive success stories.



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Technical sheet :

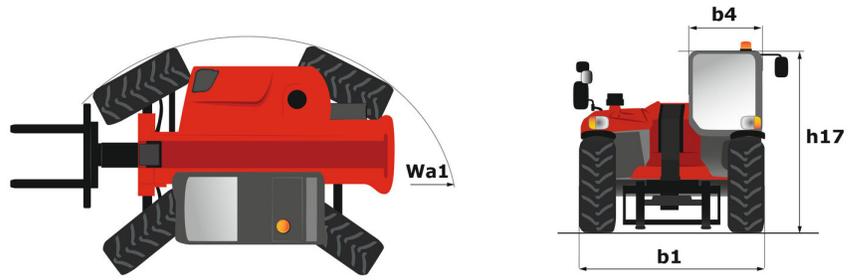
MT 420 H



Capacities		Imperial
Max. capacity		4409 lbs
Max. lifting height		14 ft 3 in
Max. outreach	r1	8 ft 8 in
Breakout force with bucket		1886 daN
Weight and dimensions		
Overall length to carriage	l11	11 ft 11 in
Overall width	b1	4 ft 11 in
Overall height	h17	6 ft 6 in
Wheelbase	y	7 ft
Ground clearance	m4	9 in
Overall cab width	b4	2 ft 7 in
Tilt-up angle	a4	12 °
Tilt-down angle	a5	116 °
External turning radius (over tyres)	Wa1	9 ft 9 in
Unladen weight (with forks)		9237 lbs
Tyres type		Pneumatic
Standard tyres		Camso SKS-532 - 12 - 16.5-12PR
Forks length / width / section	l / e / s	47 in x 5 in / 2 in
Performances		
Lifting		5 s
Lowering		3.50 s
Extension		4.80 s
Retraction		3 s
Crowd		3.30 s
Dump		2.70 s
Engine		
Engine brand		Kubota
Engine norm		Stage V
Engine model		2607-CR-E5
Number of cylinders / Capacity of cylinders		4 - 160 in ³
I.C. Engine power rating - Power (kW)		57 Hp / 42 kW
Max. torque / Engine rotation		174 Nm @ 1600 rpm
Drawbar pull (Laden)		2850 daN
Transmission		
Transmission type		Hydrostatic
Number of gears (forward / reverse)		2 / 2
Max. travel speed		15 mph
Parking brake		Automatic Negative Hand-brake
Service brake		Disk brake on the cadran shaft
Hydraulics		
Hydraulic pump type		Gear pump
Hydraulic flow / Pressure		77.40 l/min / 3408 PSI
Tank capacities		
Engine oil		3 US gal
Hydraulic oil		18 US gal
Fuel tank		16 US gal
Noise and vibration		
Noise at driving position (LpA)		76 dB(A)
Noise to environment (LWA)		104 dB(A)
Vibration on hands/arms		< 2.50 m/s ²
Miscellaneous		
Steering wheels (front / rear)		2 / 2
Drive wheels (front / rear)		2 / 2
Safety / Safety cab homologation		Standard EN 15000 / ROPS - FOPS cab (level 1)
Controls		JSM

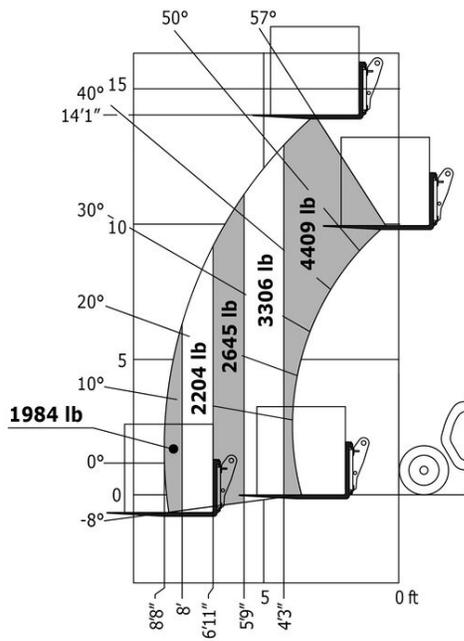
MT 420 H - Dimensional drawing

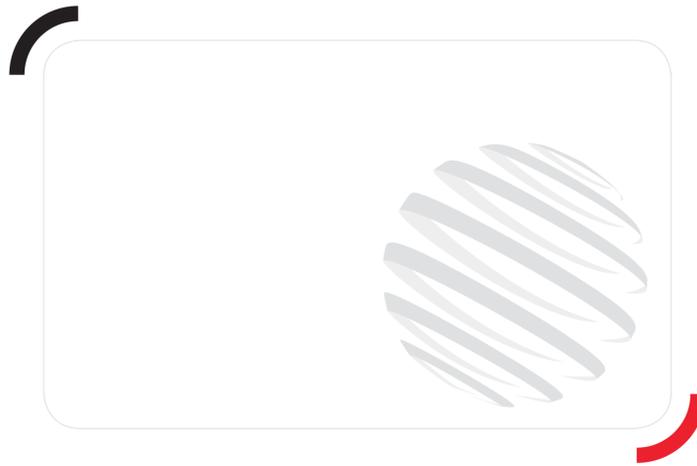
MT 420 H



MT 420 H - Load chart

Machine on tyres with forks Imperial





Siège Social

430 rue de l'Aubinière - 44150 Ancenis Cedex - France

Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

www.manitou.com



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