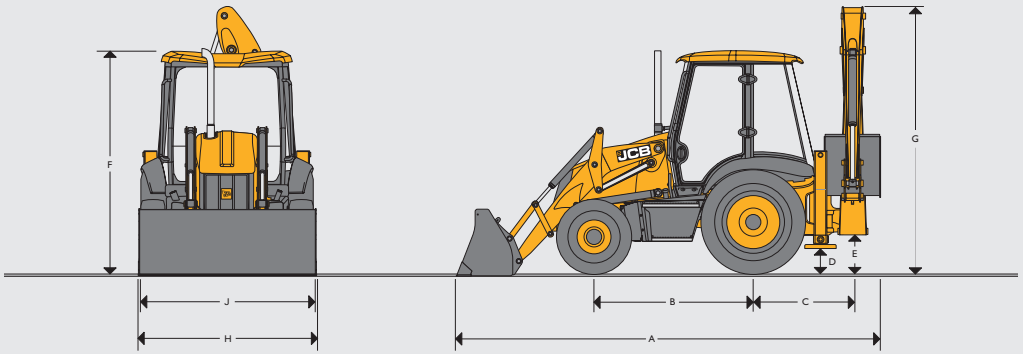
STATIC DIMENSIONS

Loader end max. payload: 1850kg (4078lb) Max. lift height: 3.23meters (10.59ft)

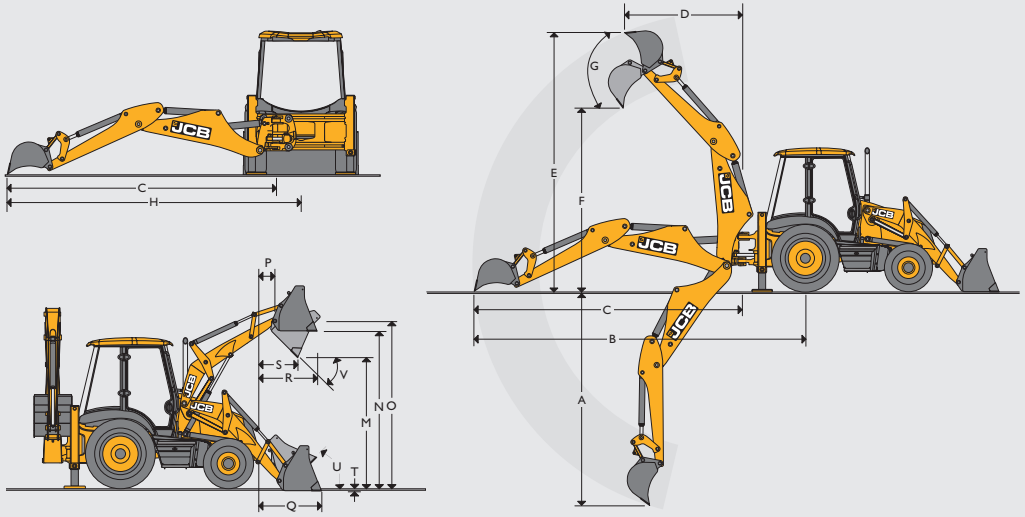


			4WD
A	Total travel length	m	5.62
B	Wheelbase	m	2.17
C	Slew centre to rear axle centre	m	1.36
D	Minimum ground clearance (stabiliser foot clearance)	m	0.36
E	Slew ground clearance	m	0.53
F	Cab roof height	m	2.89
G	Total travel clearance	m	3.61
H	Shovel width	m	2.23 (6-in-1 shovel) / 2.35 (GP shovel)
J	Rear frame width	m	2.35

ENGINE

Manufacturer		JCB
Aspiration		Turbocharged
Displacement	liter	4.4
No. of cylinders		4
Bore	mm	103
Stroke	mm	132
Rated engine	rpm	2200
Power ratings		
Gross HP – SAE J1995 (ISO 14396)	kW (hp)	68.6 (92)
Maximum torque		
Rated ISO 14396 (SAE J1995)	Nm (lb ft)	400 (295)
Max. Torque	rpm	14 00

EXCAVATOR/LOADER PERFORMANCE



Excavator performance				
			Fixed dipper	Extending dipper
A	Max dig depth	m	4.24	5.46
B	Reach-ground level to rear wheel center	m	6.72	7.87
C	Reach-ground level to slew center	m	5.37	6.52
D	Reach at full height to slew center	m	2.74	3.66
E	Max. working height	m	5.53	6.35
F	Max. load over height	m	3.84	4.72
G	Bucket rotation – power/speed	degrees	185°	185°/201°
H	Side reach to centre line of machine	m	5.94	7.09
	Bucket breakout force	kgf	6324	6228
	Dipper breakout force	kgf	3217	3225
Loader performance			**GP**	**6-in-1**
M	Dump height	m	2.74	2.72
N	Load over height	m	3.23	3.20
O	Pin height	m	3.45	3.45
P	Pin forward reach	m	0.36	0.36
Q	Reach at ground	m	1.42	1.37
R	Max. reach at full height	m	1.20	1.15
S	Reach at full height – bucket dumped	m	0.83	0.78
T	Below ground level dig depth	m	0.07	0.10
U	Rollback at ground	degrees	45°	45°
V	Dump angle	degrees	43°	43°
	Shovel breakout force	kgf	6170	6531
	Loader arm breakout force	kgf	4942	4732
	Shovel capacity	m^3	1.1	1.0
	Loader lift capacity	kg	3495	3205

SERVICE CAPACITIES

Cooling system	ltr	18.5
Fuel tank	ltr	128
Engine oil with filter	ltr	15
Gearbox with filter	ltr	16
Rear axle	ltr	16
Front axle	ltr	16
Hydraulic system incl. tank	ltr	130
Hydraulic tank	ltr	85

TRANSMISSION

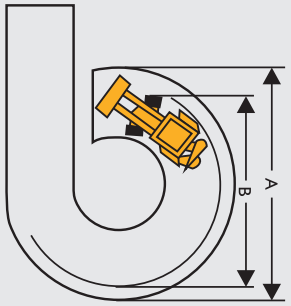
JCB Synchro-shuttle transmission: It provides superb drive power in all conditions. It consists of a 4-speed, full synchromesh gearbox with integral torque convertor and electrically operated reversing power shuttle.

- Easy-to-use, column mounted electric reversing shuttle which can change machine direction while allowing operator to keep hands on the steering wheel leading to fast cycle times.
- The pedal layout and conventional 4-pattern gear lever with transmission disconnect switch adds to the overall ease of operation. On-the-move gear changes are possible.
- Torque convertor stall ratio is 2.52:1

Manufacturer	JCB
Type	Synchroshuttle
Gears forward/reverse	4 forward/4 reverse
Shuttle control – F/R	Power shuttle
Travel speeds*	**kph**
Gear 1	7.3
Gear 2	11.7
Gear 3	22
Gear 4	40

*Speeds may vary dependant on tire selection.

TURNING CIRCLE



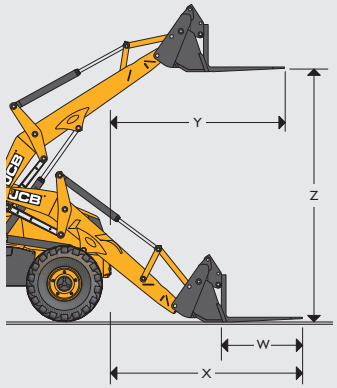
* Standard bucket in travel position

Inner wheels braked	
A Outside loader bucket	9.50m
B Outside wheels	6.90m
Inner wheels not braked	
A Outside loader bucket	10.40m
B Outside wheels	8.10m

STEERING	Front wheel full power hydrostatic system utilizing the main hydraulic pump via a steering priority valve. In the event of engine failure, emergency steering is maintained (all models).
BRAKES	**Service:** Hydraulically actuated dual line, self adjusting, oil immersed, multi-disc type on the rear axle, well protected from dirt, water etc. requiring no maintenance. **Parking:** Hand operated, disc brake on rear axle input disc. **Brake pedal:** Two independently operable foot pedals enable machine to manoeuver in tight spaces. Pedals are linked together for normal use.
HYDRAULIC SYSTEM	• Main relief valve: 251 bar • Unloader valve: 207 bar • Pump type: 2 section displacement gear • Pump capacity: 123 l/min - 143 l/min* • Filtration through suction strainer and return line JCB Filtermatic filter • During excavation the circuit automatically varies hydraulic power to match digging conditions for extra performance, control and power • Careful routing of hydraulic hoses and pipework guards against site damage and allows easy servicing.
CAB	• Floormats • Fully adjustable seat and soft touch steering wheel • 'Walk through' two door access • Seat belt • Large convex rear view mirror • Interior light • Front screen wiper • Horn • Hazard warning system • Tool box • Instrumentation panel includes engine speed, engine hours, fuel level, water temperature gauge and 12v connection • Audible and visual fault warning system for alternator charge, coolant temperature, engine oil pressure, blocked air filter, transmission oil pressure and temperature, and hand brake on • ROPS/FOPS level 2 certified.
AXLES	**Rear:** Drive axle rigidly mounted, incorporates JCB Max-Trac torque proportioning differential, driven by short propshaft from gear box. **Front:** 4WD, Steer axle, centrally pivoted with oscillation angle of 16°.
ELECTRICAL AND INSTRUMENTATION	12 volt negative ground, utilising wiring and connectors meeting IP69 water ingress test standard. Central fuse panel. **Battery:** 110 A/hr **Alternator:** 95 amp standard. **Rear working lights:** 4 adjustable. **Front working lights:** 4 adjustable.
TYRES	**Standard:** Sitemaster 12.5-18/80 12ply (Front) Sitemaster 16.9-28 (Rear)
WEIGHT	**Operating:** 7800kg (17196lb)

*Regional dependent.

LOADER ATTACHMENTS – 6 in 1 Shovel Fork Dimensions



			6-in-1 bucket mounted forks
W	Forks – tine length	m	1.1
	Forks – tine width	m	0.08
X	Forks reach at ground level	m	2.66
Y	Forks reach at full height	m	2.25
Z	Forks lift height – max	m	2.92
	Fork spacing – min/max	mm	260 to 1725

LOADER ATTACHMENTS – Direct Mount

HD GP shovel – 2337mm, 1m³	kg	770
6-in-1, with forks – 2337mm, 1m³	kg	880

BACKHOE ATTACHMENTS – Patch Planer

Cutting width	mm	400
Cutting length	mm	1-115
Weight	kg	540
Hydraulic flow range	lpm	90-200
Hydraulic pressure range	psi (bar)	2030-3046 (140-210)

BACKHOE ATTACHMENTS – Hydraulic Breakers

Breaker model		HM380	HM386Q
Operating weight	kg	330	360
Impact energy	joules	981	600
Impact frequency	bpm	380-900	720-1380
Oil flow range	lpm	40-80	60-100
Operating pressure	psi (bar)	120-165 (1740-2393)	1450-2175 (100-150)
Tool diameter	mm	75	80

A wide variety of tools are available for JCB breakers. See your JCB Dealer for details.

BACKHOE ATTACHMENTS – Compactor

Weight	kg	179
Width	mm	305
Length	mm	739
Optimum machine down force	kg	700
Centrifugal force	kN	16.3
Frequency	Hz	33
Oil flow	lpm	24

BACKHOE ATTACHMENTS – Auger*		ED3500	ED6000
Width	mm	254	253
Length	mm	591	614
Power head and hanger weight	kg	105	110
Oil flow @ 60rpm	lpm	60	104
Oil flow min.	lpm	115	115
Oil flow max.	lpm	300	300

BACKHOE ATTACHMENTS – Auger Flights*

Weight	mm	150 - 460
Width	kg	19 - 91.2
No. of teeth		2-16
Length	mm	1000 - 1200

*available from September 2014

BACKHOE ATTACHMENTS – Buckets

Bucket width	mm	305	455	610	610	760	910
Number of teeth		3	4	4	5	5	6
Heavy-duty trenching buckets			18	24	24	30	36
Capacity	cu m	0.08	0.14	0.20	0.20	0.26	0.32
Weight	kg	100	128	145	190	166	189
Heavy-duty high capacity trenching buckets		–	4	4	5	14.1 (5)	- (6)
Capacity	cu m	0.15	0.24	0.24	0.32	14.1	-
Weight	kg	195	231	233	267	303	-

See your JCB Dealer for availability of backhoe buckets and attachments.
All JCB buckets include heavy-duty features consisting of a 1"x18" cutting edge, back straps, box section cross member, and full length, chamfered side cutters.