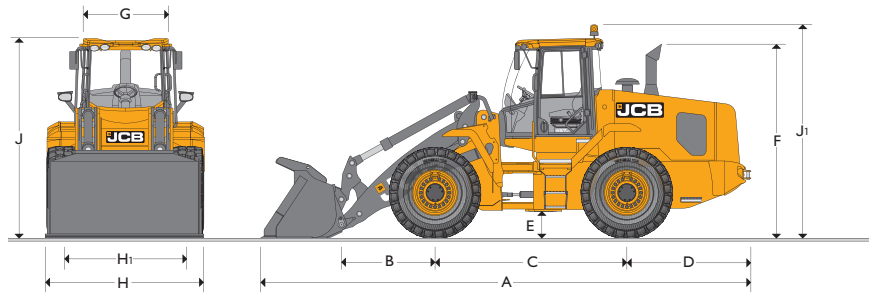
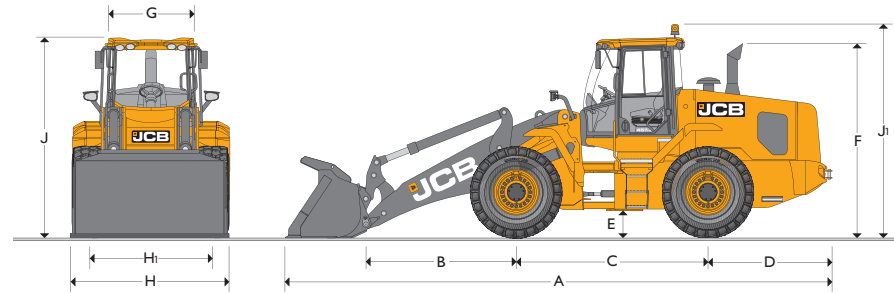


STATIC DIMENSIONS – Standard height arm



STATIC DIMENSIONS – Super high lift arm



STATIC DIMENSIONS – Standard height arm

		ft-in (mm)
A	Overall length with standard bucket	28-0 (8524)
B	Axle to pivot pin	5-7 (1713)
C	Wheel base	10-10 (3300)
D	Axle to counterweight face	6-6 (1974)
E	Minimum ground clearance	1-7 (470)
F	Height over exhaust	10-11 (3318)
G	Width over cab	4-7 (1400)
H	Width over tires	8-10 (2702)
Hi	Wheel track	6-10 (2100)
J	Height over cab	11-1 (3370)
J1	Overall height	12-2 (3714)
	Pin height (maximum)	14-1 (4304)
	Overall operating height	18-9 (5678)
	Front axle weight	lb (kg) 19,152 (8687)
	Rear axle weight	lb (kg) 26,442 (11,994)
	Total weight	lb (kg) 45,594 (20,681)
	Inside radius	10-5 (3182)
	Maximum radius	21-9 (6630)
	Articulation angle	degrees ±40°

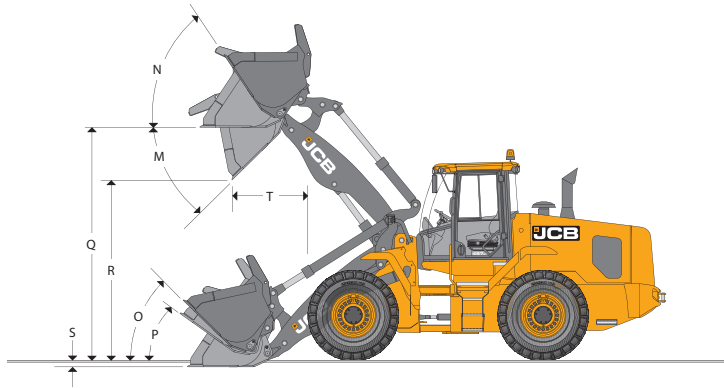
Data based on machine equipped with a 4.6yd³ bucket with bolt-on toeplates and 23.5 R25 Michelin XHA (L3) radial tires.

STATIC DIMENSIONS – High lift arm

		ft-in (mm)
A	Overall length with standard bucket	31-0 (9454)
B	Axle to pivot pin	8-11 (2727)
C	Wheel Base	10-10 (3300)
D	Axle to counterweight face	6-6 (1974)
E	Minimum ground clearance	1-7 (470)
F	Height over exhaust	10-11 (3318)
G	Width over cab	4-7 (1400)
H	Width over tyres	8-10 (2702)
Hi	Wheel track	6-10 (2100)
J	Height over cab	11-1 (3370)
J1	Overall height	12-2 (3714)
	Pin height (maximum)	17-3 (5270)
	Overall operating height	22-1 (6733)
	Front axle weight	lb (kg) 23,115 (10,485)
	Rear axle weight	lb (kg) 24,462 (11,096)
	Total weight	lb (kg) 47,578 (21,581)
	Inside radius	10-5 (3182)
	Maximum radius over shovel	23-4 (7121)
	Articulation angle	degrees ±40°

Data based on machine equipped with a 4.6yd³ bucket with bolt-on toeplates and 23.5 R25 Michelin XHA (L3) radial tires.

LOADER DIMENSIONS – Standard height arm



CHANGES TO OPERATING PERFORMANCE AND DIMENSIONS

Tire size	Manufacturer	Type	Rating	Op. weight lb (kg)	Tipping loads		Dimensions	
					Straight lb (kg)	Full turn lb (kg)	Vertical in (mm)	Width in (mm)
23.5R25 (radial)	Michelin	XLTA	L2	-220 (-100)	-146 (-66)	-125 (-57)	-0.08 (-2)	0
23.5R25 (radial)	Goodyear	TL-3A+	L3	714 (324)	474 (215)	406 (184)	0.75 (19)	0
23.5R25 (radial)	Goodyear	RT-3B	L3	388 (176)	258 (117)	220 (100)	0.39 (10)	0
23.5-25 (crossply)	Goodyear	HRL-3A	L3	-220 (-100)	-146 (-66)	-125 (-57)	0.59 (15)	0
23.5-25 (crossply)	Earthmover	20ply	L3	-335 (-152)	-222 (-101)	-190 (-86)	0.24 (6)	0
23.5R25 (radial)	Earthmover		L3	0	0	0	0.16 (4)	0
23.5R25 (radial)	Goodyear	GP-48	L4	838 (380)	556 (252)	476 (216)	1.38 (35)	0
23.5R25 (radial)	Michelin	XLDD2A	L5	1261 (572)	837 (380)	716 (325)	1.42 (36)	0
23.5R25 (radial)	Michelin	XMINED2	L5	1781 (808)	1183 (536)	1012 (459)	1.42 (36)	0
23.5R25 (radial)	Goodyear	RL-5K	L5	1552 (704)	1030 (467)	881 (400)	1.42 (36)	0
23.5-25 (solid cushion)*	SG Revolution	SE	-	5124 (2324)	0	0	1.18 (30)	0
23.5-25 (solid cushion)*	SG Revolution	DWL	-	5124 (2324)	0	0	1.18 (30)	0

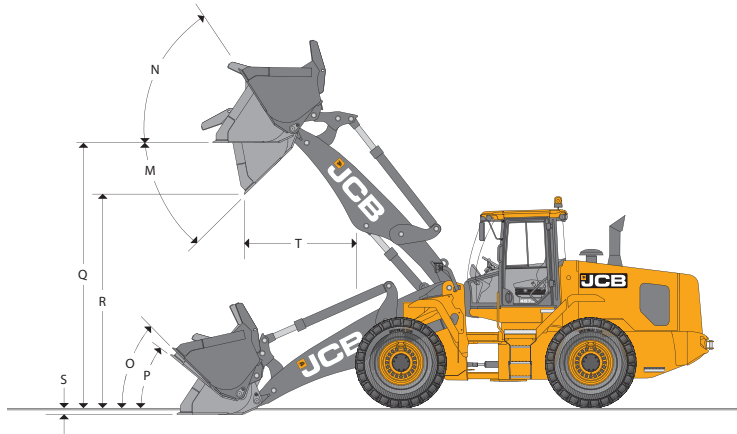
*Additional counterweight removed when solid tires fitted.

Assumes the fitment of Michelin 23.5R25 XHA (L3) tires.

Bucket mounting	Direct	Direct	Direct	Direct	Direct	Direct	Quickhitch	Quickhitch	Quickhitch	Quickhitch	Quickhitch	Quickhitch
Bucket type	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
Bucket equipment	Tipped teeth	Tipped teeth	Reversible t/plate	Reversible t/plate	Reversible t/plate & t/plate segments	Reversible t/plate & t/plate segments	Tipped teeth	Tipped teeth	Reversible t/plate	Reversible t/plate	Reversible t/plate & t/plate segments	Reversible t/plate & t/plate segments
Bucket capacity (SAE heaped) yd ³ (m ³)	4.1 (3.1)	4.3 (3.3)	4.3 (3.3)	4.6 (3.5)	4.3 (3.3)	4.6 (3.5)	4.1 (3.1)	4.3 (3.3)	4.3 (3.3)	4.6 (3.5)	4.3 (3.3)	4.6 (3.5)
Bucket capacity (struck) yd ³ (m ³)	3.3 (2.497)	3.5 (2.687)	3.5 (2.648)	3.7 (2.844)	3.5 (2.648)	3.7 (2.844)	3.3 (2.497)	3.5 (2.687)	3.5 (2.648)	3.7 (2.844)	3.5 (2.648)	3.7 (2.844)
Bucket width ft-in (mm)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)
Bucket weight with wearparts lb (kg)	3325 (1508)	3427 (1554)	3579 (1623)	3680 (1669)	3579 (1623)	3680 (1669)	3043 (1380)	3122 (1416)	3296 (1495)	3376 (1531)	3296 (1495)	3376 (1531)
Maximum material density lb/yd ³ (kg/m ³)	3538 (2099)	3300 (1958)	3287 (1950)	3077 (1825)	3287 (1950)	3077 (1825)	3352 (1989)	3127 (1855)	3111 (1846)	2913 (1728)	3111 (1846)	2913 (1728)
Tipping load straight lb (kg)	33,329 (15,118)	33,099 (15,014)	33,006 (14,971)	32,776 (14,867)	33,006 (14,971)	32,776 (14,867)	31,628 (14,346)	31,430 (14,256)	31,305 (14,200)	31,093 (14,104)	31,305 (14,200)	31,093 (14,104)
Tipping load full turn lb (kg)	28,697 (13,017)	28,485 (12,917)	28,381 (12,873)	28,167 (12,776)	28,381 (12,873)	28,167 (12,776)	27,176 (12,327)	26,994 (12,244)	26,862 (12,184)	26,663 (12,094)	26,862 (12,184)	26,663 (12,094)
Payload at 50% FTTL lb (kg)	14,350 (6509)	14,243 (6460)	14,190 (6437)	14,083 (6388)	14,190 (6437)	14,083 (6388)	13,589 (6164)	13,496 (6122)	13,430 (6092)	13,332 (6047)	13,430 (6092)	13,332 (6047)
Maximum break out force lbf (kN)	36,193 (161)	34,394 (153)	33,720 (150)	32,146 (143)	33,720 (150)	32,146 (143)	31,022 (138)	31,022 (138)	30,348 (135)	29,224 (130)	30,348 (135)	29,224 (130)
M Dump angle maximum degrees	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°
N Roll back angle at full height degrees	57°	57°	57°	57°	57°	57°	57°	57°	57°	57°	57°	57°
O Roll back at carry degrees	52°	52°	52°	52°	52°	52°	52°	52°	52°	52°	52°	52°
P Roll back at ground level degrees	46°	46°	46°	46°	46°	46°	46°	46°	46°	46°	46°	46°
Q Load over height ft-in (mm)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)	13-3 (4028)
R Dump height (45° dump) ft-in (mm)	9-7 (2930)	9-6 (2888)	10-1 (3069)	9-11 (3027)	9-7 (2930)	9-6 (2888)	9-3 (2824)	9-2 (2782)	9-9 (2963)	9-7 (2921)	9-3 (2824)	9-2 (2782)
S Dig depth ft-in (mm)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)
T Reach at dump height ft-in (mm)	4-5 (1334)	4-6 (1375)	4-0 (1220)	4-2 (1261)	4-5 (1334)	4-6 (1375)	4-9 (1440)	4-10 (1482)	4-4 (1326)	4-6 (1368)	4-9 (1440)	4-10 (1482)
Reach maximum (45° dump) ft-in (mm)	7-7 (2310)	7-9 (2352)	7-2 (2196)	7-4 (2238)	7-7 (2310)	7-9 (2352)	7-11 (2416)	8-1 (2458)	7-7 (2302)	7-8 (2344)	7-11 (2416)	8-1 (2458)
Operating weight (includes 176lb operator and full fuel tank) lb (kg)	44,838 (20,338)	44,939 (20,384)	45,091 (20,453)	45,193 (20,499)	45,091 (20,453)	45,193 (20,499)	45,261 (20,530)	45,340 (20,566)	45,514 (20,645)	45,594 (20,681)	45,514 (20,645)	45,594 (20,681)



LOADER DIMENSIONS – Super high lift arm



CHANGES TO OPERATING PERFORMANCE AND DIMENSIONS

Tire size	Manufacturer	Type	Rating	Op. weight lb (kg)	Tipping loads		Dimensions	
					Straight lb (kg)	Full turn lb (kg)	Vertical in (mm)	Width in (mm)
23.5R25 (radial)	Michelin	XLTA	L2	-220 (-100)	-110 (-50)	-94 (-43)	-0.08 (-2)	0
23.5R25 (radial)	Goodyear	TL-3A+	L3	714 (324)	355 (161)	304 (138)	0.75 (19)	0
23.5R25 (radial)	Goodyear	RT-3B	L3	388 (176)	193 (88)	165 (75)	0.39 (10)	0
23.5-25 (crossply)	Goodyear	HRL-3A	L3	-220 (-100)	-110 (-50)	-94 (-43)	0.59 (15)	0
23.5-25 (crossply)	Earthmover	20ply	L3	-335 (-152)	-167 (-76)	-143 (-65)	0.24 (6)	0
23.5R25 (radial)	Earthmover		L3	0	0	0	0.16 (4)	0
23.5R25 (radial)	Goodyear	GP-48	L4	838 (380)	417 (189)	356 (162)	1.38 (35)	0
23.5R25 (radial)	Michelin	XLDD2A	L5	1261 (572)	627 (284)	536 (243)	1.42 (36)	0
23.5R25 (radial)	Michelin	XMINED2	L5	1781 (808)	886 (402)	758 (344)	1.42 (36)	0
23.5R25 (radial)	Goodyear	RL-5K	L5	1552 (704)	772 (350)	660 (299)	1.42 (36)	0
23.5-25 (solid cushion)*	SG Revolution	SE	-	5124 (2324)	-2392 (-1085)	-1973 (-895)	1.18 (30)	0
23.5-25 (solid cushion)*	SG Revolution	DWL	-	5124 (2324)	-2392 (-1085)	-1973 (-895)	1.18 (30)	0

*Additional counterweight removed when solid tires fitted.

Assumes the fitment of Michelin 23.5R25 XHA (L3) tires.

Bucket mounting	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Quickhitch	Quickhitch	Quickhitch	Quickhitch	Quickhitch	Quickhitch
Bucket type	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
Bucket equipment	Tipped teeth	Tipped teeth	Tipped teeth	Reversible t/plate	Reversible t/plate	Reversible t/plate	Reversible t/plate	Tipped teeth	Tipped teeth	Reversible t/plate	Reversible t/plate	Reversible t/plate	Reversible t/plate
Bucket capacity (SAE heaped)	yd ³ (m ³)	3.7 (2.8)	4.1 (3.1)	4.3 (3.3)	4.3 (3.3)	4.6 (3.5)	4.3 (3.3)	4.6 (3.5)	4.1 (3.1)	4.3 (3.3)	4.3 (3.3)	4.6 (3.5)	4.6 (3.5)
Bucket capacity (struck)	yd ³ (m ³)	2.9 (2.210)	3.3 (2.497)	3.5 (2.687)	3.5 (2.648)	3.7 (2.844)	3.5 (2.648)	3.7 (2.844)	3.3 (2.497)	3.5 (2.687)	3.5 (2.648)	3.7 (2.844)	3.7 (2.844)
Bucket width	ft-in (mm)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)	9-4 (2837)
Bucket weight with wearparts	lb (kg)	3166 (1436)	3325 (1508)	3427 (1554)	3579 (1623)	3680 (1669)	3579 (1623)	3680 (1669)	3043 (1380)	3122 (1416)	3296 (1495)	3376 (1531)	3296 (1495)
Maximum material density	lb/yd ³ (kg/m ³)	2556 (1516)	2283 (1354)	2128 (1262)	2121 (1258)	1985 (1178)	2121 (1258)	1985 (1178)	2161 (1282)	2016 (1196)	2008 (1191)	1879 (1115)	2008 (1191)
Tipping load straight	lb (kg)	22,063 (10,008)	21,833 (9903)	21,681 (9834)	21,619 (9806)	21,469 (9738)	21,619 (9806)	21,469 (9738)	20,717 (9397)	19,934 (9042)	20,505 (9301)	20,364 (9237)	20,505 (9301)
Tipping load full turn	lb (kg)	18,722 (8492)	18,510 (8396)	18,372 (8333)	18,306 (8303)	18,169 (8241)	18,306 (8303)	18,169 (8241)	17,529 (7951)	17,411 (7897)	17,326 (7859)	17,196 (7800)	17,326 (7859)
Payload at 50% FTTL	lb (kg)	9362 (4247)	9255 (4198)	9187 (4167)	9153 (4152)	9084 (4121)	9153 (4152)	9084 (4121)	8763 (3975)	8704 (3948)	8663 (3930)	8599 (3901)	8663 (3930)
Maximum break out force	lbf (kN)	39,340 (175)	36,642 (163)	34,844 (155)	34,170 (152)	32,596 (145)	34,170 (152)	32,596 (145)	32,821 (146)	31,472 (140)	30,978 (137)	29,674 (132)	30,978 (137)
M Dump angle maximum	degrees	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°
N Roll back angle at full height	degrees	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°
O Roll back at carry	degrees	54°	54°	54°	54°	54°	54°	54°	54°	54°	54°	54°	54°
P Roll back at ground level	degrees	46°	46°	46°	46°	46°	46°	46°	46°	46°	46°	46°	46°
Q Load over height	ft-in (mm)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)	16-5 (4994)
R Dump height (45° dump)	ft-in (mm)	13-0 (3960)	12-9 (3896)	12-8 (3854)	13-3 (4034)	13-1 (3993)	12-9 (3896)	12-5 (3790)	12-5 (3790)	12-4 (3748)	12-11 (3929)	12-9 (3896)	12-5 (3790)
S Dig depth	ft-in (mm)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)	0-4 (109)
T Reach at dump height	ft-in (mm)	4-4 (1327)	4-7 (1393)	4-8 (1432)	4-2 (1277)	4-4 (1318)	4-7 (1393)	4-8 (1432)	4-11 (1497)	5-1 (1539)	4-6 (1383)	4-8 (1425)	4-11 (1497)
Reach maximum (45° dump)	ft-in (mm)	10-0 (3046)	10-2 (3110)	10-4 (3152)	9-10 (2996)	10-0 (3038)	10-2 (3110)	10-4 (3152)	10-7 (3216)	10-8 (3258)	10-2 (3102)	10-4 (3144)	10-7 (3216)
Operating weight (includes 176lb operator and full fuel tank) lb (kg)		46,663 (21,166)	46,822 (21,238)	46,923 (21,284)	47,075 (21,353)	47,177 (21,399)	47,075 (21,353)	47,177 (21,399)	47,245 (21,430)	47,324 (21,466)	47,499 (21,545)	47,578 (21,581)	47,499 (21,545)



LOADER

Widely spaced four cylinder geometry provides the combination of excellent visibility with high bucket torque characteristics throughout the working arc. The pin, bush and sealing design on all pivot points provide extended maintenance intervals.

ENGINE

6-cylinder variable geometry turbo-charged and charge air cooled 8.9l diesel engine. High pressure common rail fuel injection, cooled exhaust gas recirculation and a diesel particulate filter combine to reduce emissions and optimise fuel efficiency. Selectable Power or Economy modes.

Manufacturer		Cummins
Model		QSL9
Displacement	in ³ (ltr)	543 (8.9)
Bore	in (mm)	4.49 (114)
Stroke	in (mm)	5.69 (145)
Aspiration		Variable Geometry Turbocharger
No. of Cylinders		6
Max. Gross Power to SAE J1995/ISO 14396	hp (kW) @ 1800rpm	250 (186)
Rated Gross Power to SAE J1995/ISO 14396	hp (kW) @ 2200rpm	250 (186)
Net Power to SAE J1349	hp (kW) @ 2100rpm	247 (184)
Gross Torque at 1400rpm	lbf-ft (Nm) @ 1500rpm	800 (1085)
Economy Working Range	rpm	800 - 1800
Torque Rise	%	34.1
Valves per Cylinder		4
Wet Weight	lbs (kg)	1560 (708)
Air Cleaner		Cyclonic pre filter with scavenge system
Fan Drive Type		Hydraulic
Emissions		US EPA Tier 4i, EU Stage IIIB

TRANSMISSION

4 wheel drive, automatic 4 speed transmission. "Power-Inch" intelligent clutch cut off technology as standard . Optional 5 speed transmission with auto-locking torque converter available for even more speed and efficiency.

Type		4 speed non-lock up converter	5 speed with lock up torque converter
Make		ZF	ZF
Model		4WG210 (standard)	5WG210 with lock-up (option)
Forward speed 1	mph (kph)	4.3 (7.0)	4.4 (7.1)
Forward speed 2	mph (kph)	8.5 (13.7)	7.8 (12.6)
Forward speed 3	mph (kph)	16.2 (26.1)	11.9 (19.1)
Forward speed 4	mph (kph)	25.8 (41.5)	18.1 (29.1)
Forward speed 5	mph (kph)		26.6 (42.7)
Reverse 1	mph (kph)	4.6 (7.3)	4.7 (7.5)
Reverse 2	mph (kph)	9.0 (14.4)	8.3 (13.3)
Reverse 3	mph (kph)	17.0 (27.4)	19.0 (30.6)

AXLES

3 axles options available; Torque proportioning differentials, Limited slip differentials or Open differentials with automatic differential locking. All axle options feature wheel speed braking for lower heat build up and longer service life.

Type	Open Differential	Limited Slip Differential	Open Differential with auto-locking front
Make and Model	ZF MT-L 3095 MK 2 (front and rear)	ZF MT-L 3095 MK 2 (front and rear)	ZF MT-L 3095 MK 2 (front and rear)
Overall Axle ratio	23.334:1	23.334:1	23.334:1
Rear Axle Oscillation	± 12.5°	± 12.5°	± 12.5°

ELECTRICAL SYSTEM

24 volt negative ground system, 70 Amp alternator with 2 x 110 Amp hour low maintenance batteries. Isolator located in rear of machine. Ignition key start/stop and pre-heat cold start. Primary fuse box. Other electrical equipment includes quartz halogen, twin filament working lights, front/rear wash/wipe, heated rear screen, full roading lights, clock, gauge and warning light monitoring. Connectors to IP67 standard.

System voltage	Volt	24
Alternator output	Amp hour	70
Battery capacity	Amp hour	2 x 110



STEERING

Priority steer hydraulic system with emergency steering. Piston pump meters flow through steer valve to provide smooth low effort response. Steering angle $\pm 40^\circ$. Steering cylinders fitted with end rod damping to provide cushioned steering at full articulation. Adjustable steering column.

BRAKES

Hydraulic power braking on all wheels, operating pressure 1160psi (80 bar). Dual circuit with accumulator back-up provide maximum safety under all conditions. Hub mounted, oil immersed, multi-plate disc brakes with sintered linings reduce heat build up. Wheel speed braking improves performance and reduce wear. Parking brake, electro-hydraulic disc type operating on transmission output shaft.

SERVICE FILL CAPACITIES

	gal (liters)
Hydraulic system	35.7 (135)
Fuel system	81.6 (309)
Engine oil (includes filter)	5.0 (19)
Engine coolant	10.6 (40)
Axles	9.0 (34)
Transmission	10.8 (41)

CAB

Resiliently mounted ROPS/FOPS structure (tested in accordance with EN3471:2008/EN3449: 2008 (Level 2). Entry/exit is via a large rear hinged door, grab handles giving 3 points of contact and anti-slip inclined steps. Forward visibility through a curved, laminated windscreen with lower glazed quarter panels, two interior mirror and heated exterior mirrors. Instrumentation analogue/digital display gauges along with full color LCD screen including selectable machine and operator menus along with service and diagnostic screens. Heating/ventilation provides balanced and filtered air distribution throughout the cab via a powerful 27,300 BTU capacity heater, with air conditioning and climate control system as options. Provision of speakers and antenna for radio fitment (radio/CD not included). The cab environment is positively pressurised preventing the ingress of dust including in-cab recirculation filter. Fabric mechanical suspension seat as standard with various options including vinyl material, air suspension, heating and deluxe Grammer Actimo XXL air suspension seat with headrest, twin armrests, lumbar support, backrest extension, heating and full adjustment. Coat hook, cup holder and additional storage space. Fuse box positioned at rear for access to fuses, relays and diagnostic connectors.

TIRES

A variety of tire options are available including: 23.5R25 XTLA (L2), 23.5R25 XHA (L3), 23.5R25 TL-3A+ (L3), 23.5R25 RT-3B (L3), 23.5x25x20 ply HRL (L3), 23.5x25x20 ply (L3), 23.5R25 JCB (L3), 23.5R25 XMINE (L5), 23.5R25 XLDD2 (L5), 23.5R25 RL-5K (L5), 23.5R25 DWL (Solid Cushion), 23.5R25 SE (Solid Cushion)

ATTACHMENTS

An extensive range of attachments are available to fit directly or via the JCB quickhitch mounting.

LOADER HYDRAULICS

Twin variable displacement piston pumps feed a "load sensing" system providing a fuel efficient and responsive distribution of power as required. Main services are servo actuated from a single lever (joystick) loader control. Auxiliary circuits controlled via additional lever or joystick mounted electrical buttons. Accumulator back-up is available to control loader in the event of loss of pump pressure.

Pump type	Twin variable displacement piston pumps	
Pump 1 max. flow	gal/min (l/min)	43 (163)
Pump 1 max. pressure	PSI (bar)	3625 (250)
Pump 2 max. flow	gal/min (l/min)	43 (163)
Pump 2 max. pressure	PSI (bar)	2320 (160)
Hydraulic cycle times at full engine revs		seconds
Arms raise (full bucket)		5.8
Bucket dump (full bucket)		1.2
Arms lower (empty bucket)		4.1
Total cycle		11.1

Ram dimensions		Bore	Rod	Closed centers	Stroke
Bucket ram x2	in (mm)	5.1 (130)	3.0 (75)	72.6 (1845)	50.0 (1270)
Lift ram x2	in (mm)	6.3 (160)	3.1 (80)	50.8 (1290)	29.3 (744)
Steer ram x2	in (mm)	3.5 (90)	2.0 (50)	24.4 (621)	12.3 (312)



STANDARD EQUIPMENT

Loader: Bucket reset mechanism (selectable), loader arm kickout mechanism (selectable), loader control isolator, single lever or multi lever servo control, high torque geometry combines with excellent visibility between arms, parallel linkage, safety strut.

Engine: Air cleaner – cyclonic pre filter with scavenge system. Variable geometry turbocharger, cooled exhaust gas recirculation, diesel particulate filter, isolated cooling package with hydraulically driven cooling fan. Selectable ECO mode (217hp)

Transmission: Single lever shift control, neutral start, 'Power-Inch' Intelligent clutch cut off on footbrake (selectable), direction changes and kickdown on gear selector and loader control lever.

Axles: Epicyclic wheel hub reduction, fixed front, oscillating rear.

Brakes: Multi-plate wet disc brakes, sintered brake pads, dual circuit hydraulic power, wheel speed braking. Parking disc brake on transmission output shaft.

Hydraulics: Twin piston pumps with priority steer, emergency steer back-up, 2 spool loader circuit with accumulator support, 3rd spool auxiliary hydraulic circuit, 4th spool optional.

Steering: Adjustable steering column, "soft feel" steering wheel, 5 turns lock to lock, resilient stops on max lock.

Cab: ROPS/FOPS safety structure, interior light, center mounted master warning light. Electronic monitoring panel with full color LCD display. Two speed intermittent front windscreen wipe/wash and self park, single speed rear windscreen wipe/wash and self park. 3 speed heater/demisting with replaceable air filter, RH opening windows, sun visor, internal rear view mirror, heated external mirrors, adjustable suspension seat with belt and headrest, operator storage, laminated windscreen, heated rear screen, loader control isolator, horn, adjustable armrest.

Electrical: Road lights front and rear, parking lights, front and rear working lights, reverse alarm and light, rear fog light, battery isolator, radio wiring and speakers, 70 amp alternator, rotating beacon.

Bodywork: Front and rear fenders, side and rear access panels, mesh air intake screens, flexible bottom step, full width rear counterweight, recovery hitch, lifting lugs, belly guards.

OPTIONAL EQUIPMENT

Loader: High lift loader end (ZX loader only), Super high lift loader end (HT loader only), Smoothride system (SRS), hydraulic quickhitch with in-cab pin isolation.

Engine: Widecore radiator, epoxy coated radiator / coolers, automatically reversing cooling fan, engine block heater

Transmission: 5 speed transmission with Lock-up torque converter, transmission cooler bypass

Axles: Limited slip differentials front and rear, Open differential with automatic differential locking -100% (front axle only)

Hydraulics: ARV kit, 4th hydraulic spool

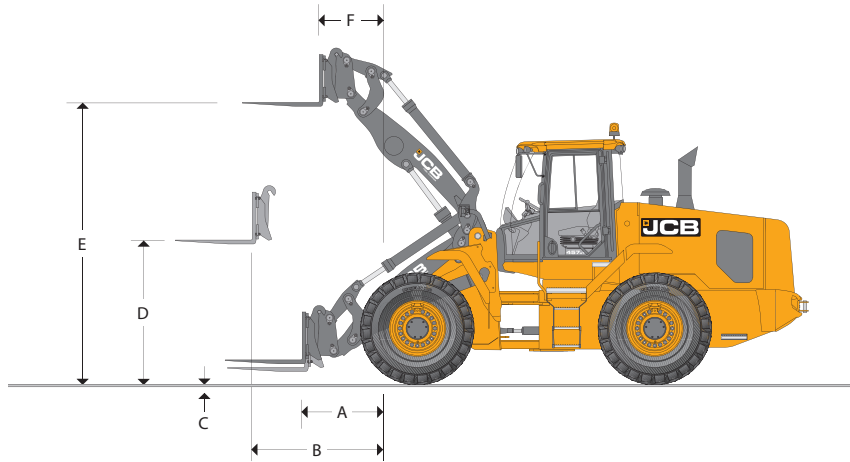
Cab: Canopy cab, wastemaster cab, air conditioning, Climate control, joystick or multi-lever hydraulic controls, auxiliary hydraulic control on separate lever or joystick mounted (proportional), 24V to 12V in cab converter, cab screen guards, heated air suspension seat, Grammer Actimo XXL seat, front and rear blinds, P3 cab air filter, Carbon cab air filter

Electrical: Reversing camera (color), additional front and rear work lights, sealed electrics, non-heated mirrors

Bodywork: Full rear fenders, light guards, number plate light kit, white noise reverse alarm, smart reverse alarm.

Miscellaneous options: Automatic greasing system, Biodegradable hydraulic oil, fire extinguisher, grease gun and cartridge Wastemaster package: Includes front and rear light guards, widecore radiator, carbon cab air filter, front screen guard, full belly guarding, Wastemaster decal.

457 HT – LOADER DIMENSIONS – FORK FRAME WITH FORKS



LOADER DIMENSIONS – FORK FRAME WITH FORKS

		Standard height arm	Super high lift arm
		ft-in (mm)	ft-in (mm)
Fork carriage width		4-11 (1500)	4-11 (1500)
Length of tines		4-0 (1220)	4-0 (1220)
A Reach at ground level		3-10 (1175)	7-0 (2143)
B Reach at arms horizontal		6-1 (1851)	8-8 (2650)
C Tine surface to ground level		0-2 (50)	0-2 (50)
D Arms horizontal height		6-6 (1975)	6-6 (1975)
E Arms maximum height		13-9 (4194)	16-11 (5160)
F Reach at maximum height		2-10 (874)	3-1 (931)
Payload **	lb (kg)	17,637 (8000)	13,106 (5945)
Tipping load straight	lb (kg)	25,691 (11,653)	18,934 (8588)
Tipping load full turn (40°)	lb (kg)	22,227 (10,082)	16,381 (7430)
Attachment weight	lb (kg)	1301 (590)	1301 (590)

Assumes the machine is fitted with Michelin 23.5R25 XHA (L3) tires.

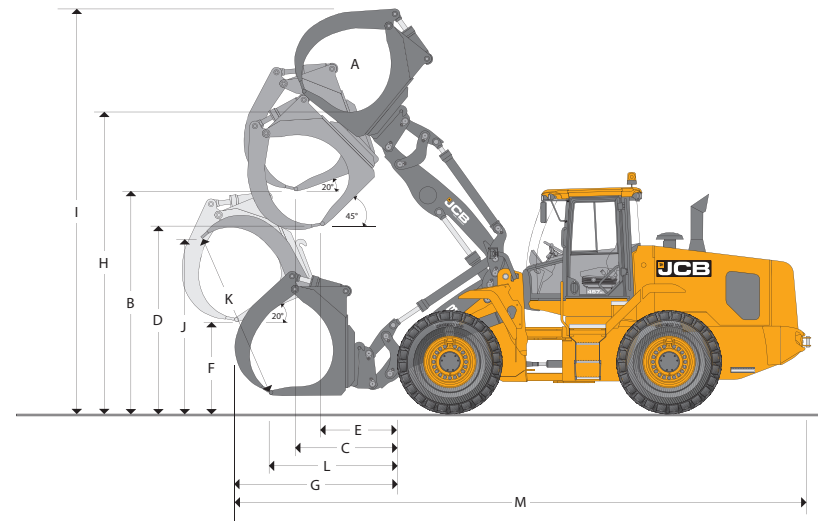
** At a center of gravity distance of 24 in (600mm).

Based on 80 % of full turn tipping load as defined by ISO 8313.

Manual fork spacings at 2 in increments.

Class 4A fork section 2.4 x 6 in (60 mm x 150 mm).

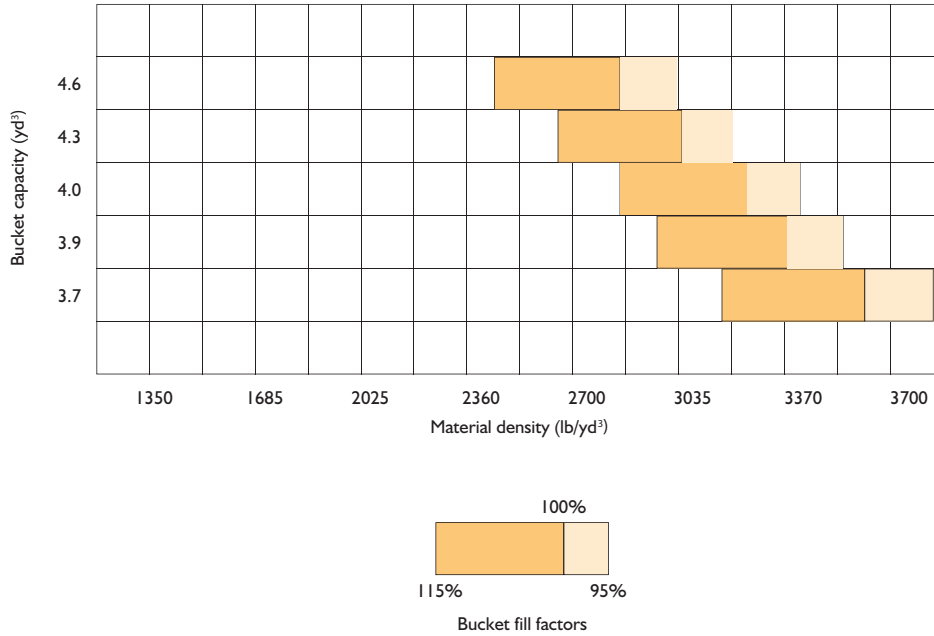
UNLOADING GRAPPLE DIMENSIONS – STANDARD HEIGHT ARM



UNLOADING GRAPPLE DIMENSIONS – STANDARD HEIGHT ARM

		Standard height arm
		ft-in (mm)
A Grapple capacity	yd ² (m ²)	2.87 (2.40)
B Tine height at 20° dump		12-2 (3707)
C Reach at full height and 20° dump		6-7 (1998)
D Tine height at 45° dump		10-2 (3087)
E Reach at full height and 45° dump		4-11 (1494)
F Tine height, arms horizontal and 20° dump		4-0 (1228)
G Reach, arms horizontal and 20° dump		10-1 (3086)
H Maximum height inside grapple		16-10 (5129)
I Maximum height		23-3 (7084)
J Height at maximum opening		7-9 (2357)
K Maximum opening		8-11 (2706)
L Reach at ground level		9-2 (2804)
M Overall length		31-3 (9524)
Operating weight	lb (kg)	45,481 (20,630)

Assumes the machine is fitted with Michelin 23.5R25 XHA (L3) tires.



BUCKET SELECTOR

Material	Loose density		Fill factor
	lb/yd³	kg/m³	%
Snow (fresh)	337	200	110
Peat (dry)	674	400	100
Sugar beet	894	530	100
Coke (loose)	961	570	85
Barley	1012	600	85
Petroleum coke	1146	680	85
Wheat	1231	730	85
Coal bituminous	1290	765	100
Fertilizer (mixed)	1737	1030	85
Coal anthracite	1764	1046	100
Earth (dry) (loose)	1939	1150	100
Nitrate fertilizer	2180	1250	85
Sodium chloride (dry) (salt)	2192	1300	85
Cement Portland	2428	1440	100
Limestone (crushed)	2580	1530	100
Sand (dry)	2613	1550	100
Asphalt	2698	1600	100
Gravel (dry)	2782	1650	85
Clay (wet)	2832	1680	110
Sand (wet)	3187	1890	110
Fire clay	3507	2080	100
Copper (concentrate)	3878	2300	85
Slate	4721	2800	100
Magnetite	5402	3204	100



A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into one of the world's largest manufacturers 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 and tractors.

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 an extensive dealer sales and service network in over 150 countries, 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.



JCB Headquarters Savannah, 2000 Bamford Blvd., Savannah, GA 31322. Tel: 912.447.2000. Fax: 912.447.2299. www.jcb.com

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