SPECIFICATION

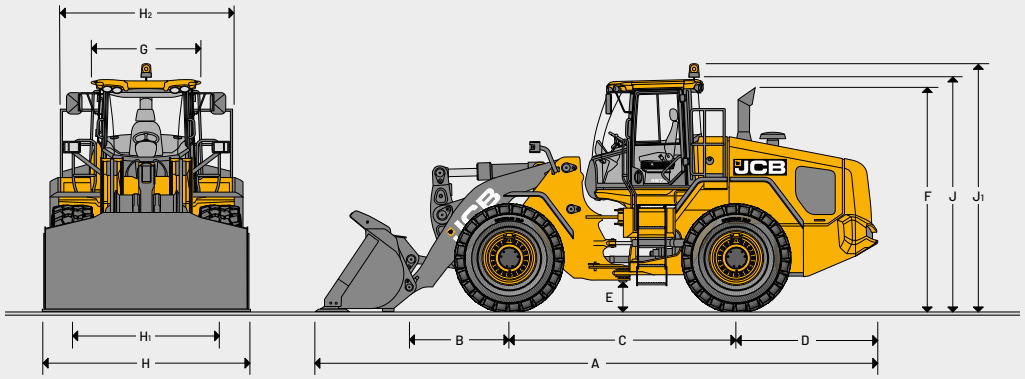


475ZX WHEEL LOADER

EASY IN A HARD WORLD

JCB

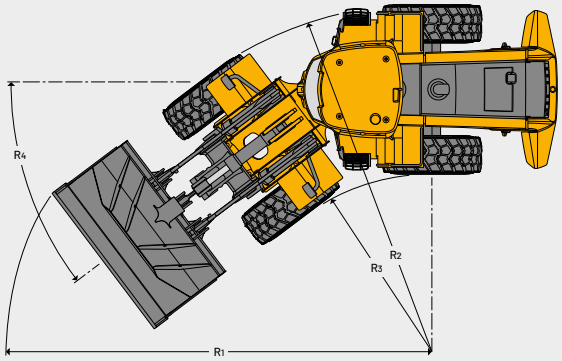
STATIC DIMENSIONS



A	Overall length	mm (ft-in)	8686 (28-6)
B	Axle to pivot pin	mm (ft-in)	1553 (5-1)
C	Wheel base	mm (ft-in)	3500 (11-6)
D	Axle to counterweight face	mm (ft-in)	2185 (7-2)
E	Ground clearance	mm (ft-in)	474 (1-7)
F	Height over exhaust	mm (ft-in)	3465 (11-4)
G	Width over cab	mm (ft-in)	1690 (5-7)
H	Max width over tyres	mm (ft-in)	2955 (9-8)
H1	Wheel track	mm (ft-in)	2280 (7-6)
H2	Max width over fenders	mm (ft-in)	2710 (8-11)
J	Height over cab lowered beacon	mm (ft-in)	3704 (12-2)
J1	Height over cab raised beacon	mm (ft-in)	3939 (12-11)
	Pin height (maximum)	kg (lbs)	4350 (14-3)
	Front axle weight	kg (lbs)	10980 (24207)
	Rear axle weight	kg (lbs)	12820 (2863)
	Total weight*	kg (lbs)	23800 (52470)

**Assume machine is fitted with 26.5 R25 L3 tyre.*

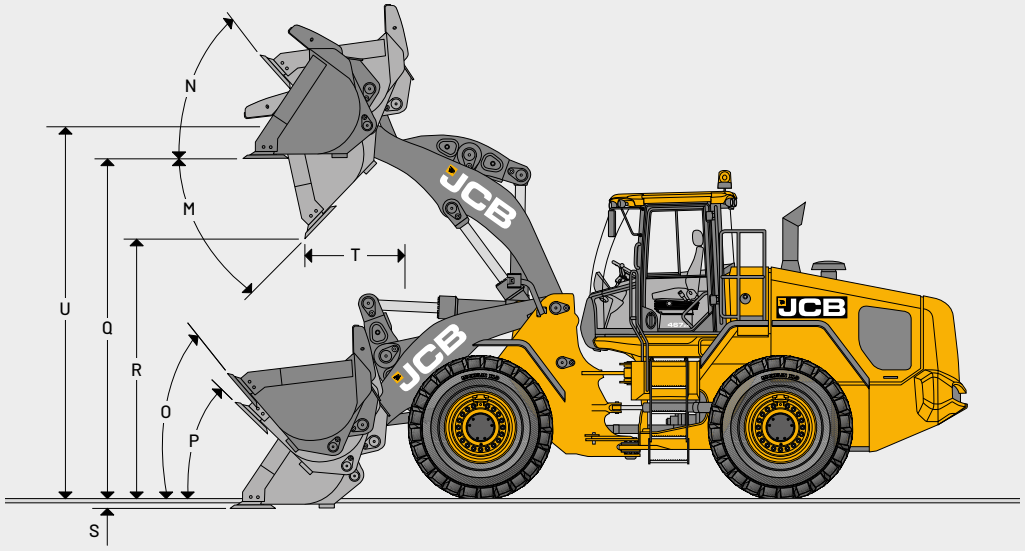
TURNING CIRCLE



R1	Maximum turn radius over shovel	mm	7910 (25-11)
R2	Maximum turn radius over tyre	mm	6726 (22-1)
R3	Inside turn radius	mm	3744 (13-3)
R4	Articulation angle	degrees	37

LOADER DIMENSIONS								
	Bucket mounting		Direct	Direct	Direct	Direct	Direct	Direct
	Bucket type		G.P.	G.P.	G.P.	G.P.	G.P.	G.P.
	Bucket equipment		Teeth	Toeplate	Teeth	Toeplate	Teeth	Toeplate
	Bucket capacity (SAE heaped)	m^3 (yd^3)	4 (5.23)	4 (5.23)	4.4 (5.76)	4.4 (5.76)	4.6 (6.02)	4.6 (6.02)
	Bucket capacity (struck)	m^3 (yd^3)	3.47 (4.54)	3.47 (4.54)	3.84 (5.02)	3.84 (5.02)	4.02 (5.26)	4.02 (5.26)
	Bucket width	mm (ft-in)	3258 (10-8)	3231 (10-7)	3258 (10-8)	3231 (10-7)	3258 (10-8)	3231 (10-7)
	Bucket weight	kg (lb)	2113 (4658)	2098 (4625)	2239 (4936)	2224 (4903)	2302 (5075)	2287 (5042)
	Maximum material density	kg/m^3 (lb/yd^3)	1907 (4204)	1913 (4217)	1712 (3774)	1717 (3785)	1628 (3589)	1633 (3600)
	Tipping load (straight)	kg (lb)	17353 (38257)	17405 (38371)	17140 (37787)	17192 (37902)	17034 (37554)	17086 (37668)
	Tipping load (full turn)	kg (lb)	15254 (33629)	15300 (33731)	15067 (33217)	15113 (33318)	14974 (33012)	15019 (33111)
	Payload	kg (lb)	7627 (16815)	7650 (16865)	7534 (16610)	7556 (16658)	7487 (16506)	7510 (16557)
	Maximum breakout force	kN (lbf)	188 (42264)	187 (42039)	180 (40466)	175 (39342)	175 (39342)	171 (38442)
	Tractive effort	kN (lbf)	237 (53280)	237 (53280)	237 (53280)	237 (53280)	237 (53280)	237 (53280)
M	Maximum dump angle	degrees	45.6	45.6	45.6	45.6	45.6	45.6
N	Roll back angle full height	degrees	51.4	51.4	51.4	51.4	51.4	51.4
O	Roll back carry	degrees	49.2	49.2	49.2	49.2	49.2	49.2
P	Roll back at ground level	degrees	44.3	44.3	44.3	44.3	44.3	44.3
Q	Load over height	mm (ft-in)	3938 (12-11)	3965 (13-0)	3938 (12-11)	3965 (13-0)	3938 (12-11)	3938 (12-11)
R	Dump height (45 deg dump)	mm (ft-in)	2849 (9-4)	3054 (10-0)	2792 (9-1)	2990 (9-9)	2764 (9-0)	2962 (9-8)
S	Dig depth	mm (ft-in)	60 (0-2)	95 (0-3)	60 (0-2)	95 (0-3)	60 (0-2)	95 (0-3)
T	Reach at dump height	mm (ft-in)	1424 (4-8)	1258 (4-1)	1481 (4-10)	1322 (4-4)	1509 (4-11)	1250 (4-1)
U	Height to bucket pivot pin	mm (ft-in)	4350 (14-3)	4350 (14-3)	4350 (14-3)	4350 (14-3)	4350 (14-3)	4350 (14-3)
	Reach maximum (45° dump) horizontal arm	mm (ft-in)	1561 (5-1)	1395 (4-6)	1618 (5-3)	1457 (4-9)	1646 (5-4)	1487 (4-10)
	Overall length	mm (ft-in)	8949 (29-4)	8686 (28-6)	9029 (29-7)	8776 (28-9)	9069 (29-9)	8816 (28-11)
	Operating weight*	kg (lb)	23815 (52503)	23800 (52470)	23941 (52781)	23926 (52748)	24004 (52920)	23989 (52887)

Assumming the machine is fitted with 26.5 R25 L3 tyre and 80kg operator and full tank of fuel.



TYRE SIZE						
				Tipping Loads		Dimensions
Tyre size	Type	Rating	Operating weight kg (lbs)	Straight kg (lb)	Full turn kg (lb)	Width mm (in)
26.5 R25	Cross Ply	L3	24430 (53858)	16888 (37231)	14915 (32882)	2957 (116.4)
26.5 R25	Radial	L3	+308 (679)	+178 (392)	+157 (346)	14 (0.55)
26.5 R25	Radial	L5	+1140 (2513)	+787 (1735)	+694 (1530)	+20 (0.787)

ENGINE		
Manufacturer		Cummins
Model		QSM11
Displacement	ltr (in^3)	10.8 (660)
Bore	mm (in)	125 (4.92)
Stroke	mm (in)	147 (5.79)
Aspiration		Turbocharged
No. of cylinders		6
Max. gross power to SAE J1995/ISO 14396	kW (hp) @ 1800rpm	239 (320)
Rated gross power to SAE J1995/ISO 14396	kW (hp) @ 2100rpm	216 (290)
Nett power to SAE J1349	kW (hp) @ 2100rpm	214 (287)
Gross torque at 1400rpm	Nm (lbf-ft) @1400rpm	1478 (1090)
Economic working range	rpm	800 - 1800
Torque rise	%	50.4
Valves per cylinder		4
Wet weight	kg	984
Air cleaner		Donaldson 15" 2 stage
Fan drive type		Hydraulic
Emissions		US EPA Tier 3, CARB Tier 3, EU Stage IIIA

TRANSMISSION		
Type		ZF 4WG260
Forward speed 1	kph (mph)	7.3 (4.6)
Forward speed 2	kph (mph)	12.5 (7.8)
Forward speed 3	kph (mph)	27.5 (17.1)
Forward speed 4	kph (mph)	40.0 (24.9)
Reverse 1	kph (mph)	7.3 (4.6)
Reverse 2	kph (mph)	12.5 (7.8)
Reverse 3	kph (mph)	27.5 (17.1)

AXLES		
Type		Open with auto-locking front
Make and model		ZF MT-L 3105 MK 2 (front and rear)
Overall axle ratio		24.666:1
Rear axle oscillation	degrees	± 12.5

ELECTRICAL SYSTEM		
System voltage	Volt	24
Alternator output	Amp hour	70
Battery capacity	Amp hour	180
Cold cranking capacity (SAE)	Amp hour	1,150

HYDRAULICS				
Pump type		Bosch/Rexroth axial piston, variable displacement pump, load sensing		
Pump 1 max. flow	l/min (UK gal/min)	240 (52.8)		
Pump 1 max. pressure	bar (lb/cubic in)	280 (4061)		
Pump 2 max. flow	l/min (UK gal/min)	155 (34.1)		
Pump 2 max. pressure	bar (lb/cubic in)	200 (2901)		
Hydraulic cycle times				
Arms raise (laden)	seconds	5.2		
Arms lower	seconds	3		
Bucket dump (laden)	seconds	1.9		
Bucket crowd	seconds	1.7		
Total cycle time	seconds	10.1		
Ram dimensions		**Bore**	**Rod (diameter)**	**Closed centres stroke**
Bucket rams	mm	180	110	1229 ±2.5 540 ±2.5
Lift rams	mm	160	95	1425 ±2.5 777 ±2.5
Steer rams	mm	90	50	809 ±2.5 471 ±2.5

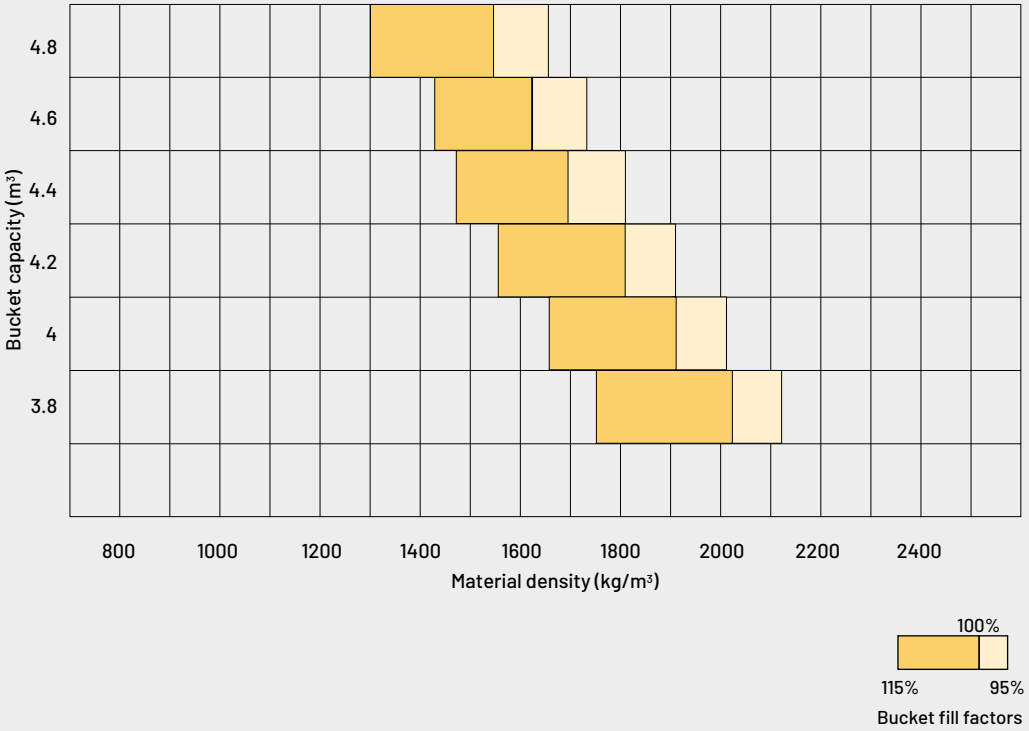
SERVICE FILL CAPACITIES

Hydraulic system	litres (UK gal)	170 (37.4)
Fuel system	litres (UK gal)	325 (71.5)
Engine oil (includes filter)	litres (UK gal)	41 (9.0)
Engine coolant	litres (UK gal)	39 (8.5)
Axles	litres (UK gal)	42 (9.2)
Transmission	litres (UK gal)	42 (9.2)

BUCKET SELECTOR

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

BUCKET CAPACITIES



475ZX WHEEL LOADER

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