



**MASTERING HEAVY LOADS,
ENSURING SMOOTH OPERATIONS.**

JCB 455ZX

W H E E L L O A D E R



Better Fuel
Efficiency



Better
Productivity



More
Cabin Space



500 Hours
Engine oil &
filter change



Stay Connected
24x7

INTELLI
LOAD



UK ENGINEERING

Operating weight: 17880 kg | Gross engine power: 165 kW (221hp)
Payload: 5585 kg | Standard shovel capacity: 3.3Cu.m

SPECIFICATION: JCB WHEEL LOADER 455ZX

ENGINE

Type	Common Rail Direct Injection (CRDi), Water cooled diesel engine
Model	JCB DIESELMAX 672
Capacity (Ltrs.)	7.2
Aspiration	Turbocharged and after cooler
Cylinders	6
Max gross power to (SAE J 1995/ISO 14396)	165kW (221hp)
Max torque	1000 Nm @ 1500rpm
Emissions	BSIII

TRANSMISSION

4 wheel drive automatic Power shift transmission electrically operated selector and gear change incorporating a speed inhibitor and modulation for responsive on-the-move direction and ratio changes. Single stage integral torque converter.

Type	4 Wheel drive, Automatic 4 speed transmission
Make & Model	ZF 4WG190

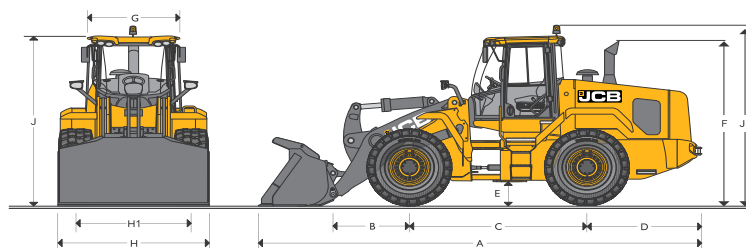
AXLES

Type	Limited slip differential
Make and model	Front- ZF MTL 3095 II Rear - ZF MTL 3085 II
Overall axle ratio	23.33
Rear axle oscillation	± 12.5°
Bias ratio	30%

ELECTRICALS

System voltage	Volt	24V
Alternator output	Amp hour	28V 100A
Battery capacity	Amp hour	2 x 12V 900CCA

LOADER DIMENSIONS



STATIC DIMENSIONS

A	Overall length	mm	7,984
B	Axle to pivot pin	mm	1,622
C	Wheel base	mm	3,300
D	Axle to counterweight face	mm	1,994
E	Minimum ground clearance	mm	470
F	Height over exhaust	mm	3,318
G	Width over cab	mm	1,400
H	Width over tyres	mm	2,702
H1	Wheel track	mm	2,100
J	Height over cab	mm	3,370
J1	Over all height with beacon	mm	3,714
	Total weight	kg	17,800
R1	Inside turn radius	mm	3211
R2	Radius over tyre	mm	5913
	Inside turn radius over tyres	mm	3,182
	Maximum turn radius over shovel	mm	6,554
	Articulation angle	degrees	±40

Data based on machine equipped with direct mounted 3.1 m³ bucket with toe plates and bolt on teeth & 23.5- 25 -20 PR L3 BKT

Assumes the fitment of BKT 23.5- 25 -20PR L3 tyres									
Shovel mounting		Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Shovel type		General purpose		General purpose		General purpose		Coal bucket	
Shovel equipment		Tipped teeth penetration		"Reversible toeplate no teeth"		Tipped teeth & toe plate segments		No teeth	"Reversible toeplate no teeth"
Shovel capacity (SAE heaped)	m ³	2.8	3.1	3.3	3.5	3.3	3.5	4.8	5.0
Shovel capacity (struck)	m ³	2.497	2.791	2.993	3.137	2.993	3.137	3.972	4.110
Shovel width	mm	2800	2800	2800	2800	2800	2800	3231	3231
Shovel weight	kg	1538	1614	1708	1757	1754	1803	1838	2100
Maximum material density	kg/m ³	1995	1790	1664	1557	1664	1557	1134	1063
Tipping load straight	kg	12353	12276	13170	10371	13170	10371	13086	12824
Tipping load full turn	kg	11170	11100	10975	10893	10975	10893	10891	10629
Payload (50% FTTL)	kg	5585	5550	5490	5450	5490	5450	5446	5315
Maximum breakout force	kN	175	164	154	148	154	148	139	132
M Dump angle maximum	degrees	45	45	45	45	45	45	45	45
N Roll back angle full height	degrees	67	67	67	67	67	67	67	67
O Roll back at carry	degrees	45	45	45	45	45	45	45	45
P Roll back at ground level	degrees	39	39	39	39	39	39	39	39
Q Load over height	mm	3822	3822	3831	3831	3822	3822	3769	3734
R Dump height (45° dump)	mm	2741	2741	2887	2845	2741	2699	2724	2647
S Dig depth	mm	74	74	91	109	109	109	125	160
T Reach at dump height	mm	1183	1183	1085	1039	1183	1135	1288	1321
V Pin height	mm	4107	4107	4107	4107	4107	4107	4107	4107
Reach maximum (45° dump) - horizontal arm	mm	2140	2140	2032	2074	2140	2182	2088	2120
R3 Maximum turn radius over shovel	mm	6603	6637	6565	6591	6637	6670	6832	6865
Operating weight (includes 80Kg operator and full fuel tank (includes aux tank))	kg	17805	17880	18000	18042	18000	18042	18084	18346

All dimensions may vary within 1.5% of nominal value. Photographs depicted may include optional equipment. Design & specifications are subject to change without prior notice or obligation.

All Available Variants: 432 ZX, 422 ZX

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