



WHEELED LOADING SHOVEL | 426/436

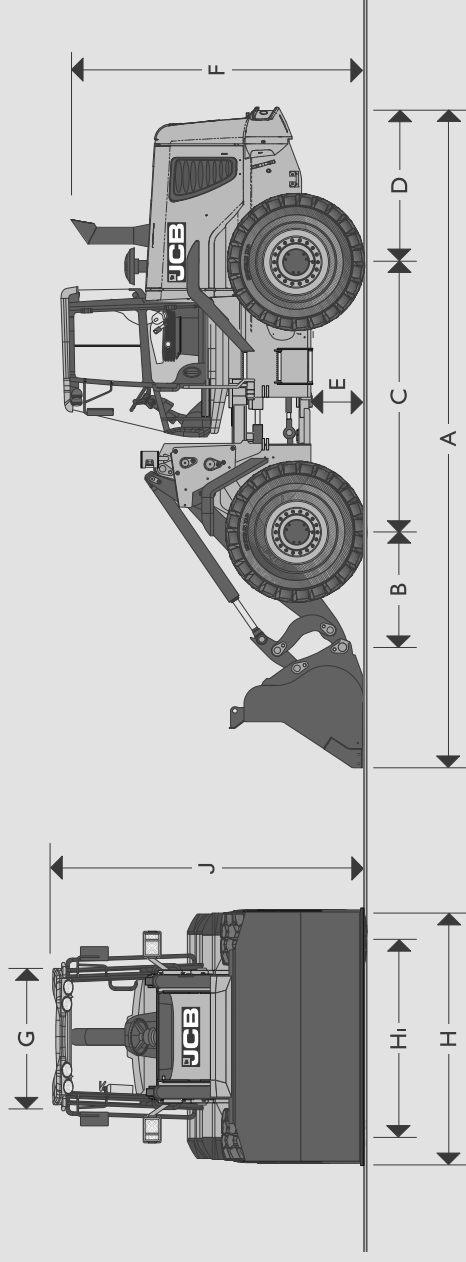
426 – Operating weight: 12,740kg Gross rated power: 112kW (150hp) Full turn tipping load: 8,271kg Standard shovel capacity: 2.1m³
436 – Operating weight: 14,564kg Gross rated power: 129kW (173hp) Full turn tipping load: 9,436kg Standard shovel capacity: 2.7m³



SPECIFICATION

426/436 WHEELED LOADING SHOVEL

STATIC DIMENSIONS – HT (HIGH-TORQUE)



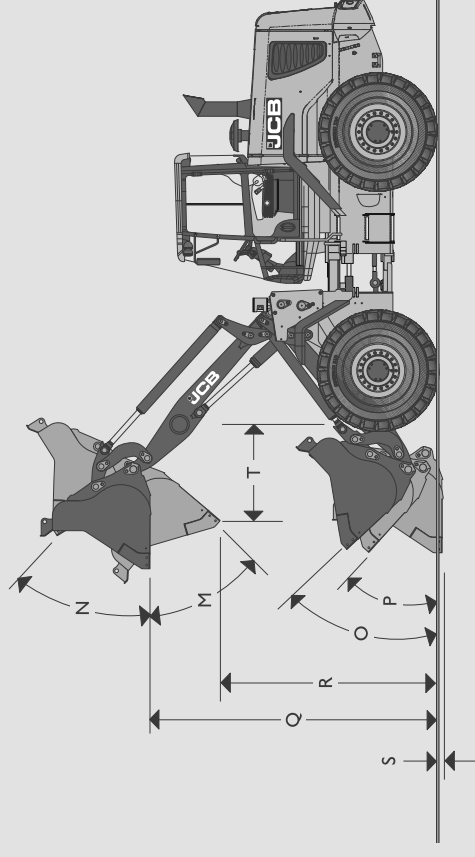
	426 HT	426 HT HL	426 ZX	436 HT	436 HT HL	436 HT SHL	436 ZX
A Overall length	mm	7244	6831	6926	7282	7726	7169
B Axle to pivot pin	mm	1509	1096	1143	1499	2366	1143
C Wheel base	mm	3000	3000	3000	3000	3000	3000
D Axle to counterweight face	mm	1816	1816	1816	1816	1816	1816
E Minimum ground clearance	mm	442	442	459	459	459	459
F Height over exhaust	mm	3236	3192	3192	3192	3192	3192
G Width over cab	mm	1400	1400	1400	1400	1400	1400
H Width over tyres	mm	2482	2482	2597	2597	2597	2597
Hi Wheel track	mm	1955	1955	2070	2070	2070	2070
J Height over cab	mm	3335	3335	3335	3335	3335	3335
Pin height (maximum)	mm	3906	3906	3996	4650	5213	3996
Overall operating height	mm	5095	5525	5305	5959	6522	5305
Front axle weight	kg	5574	5869	6013	7133	7968	6456
Rear axle weight	kg	7126	7101	8490	7860	7577	8466
Total weight	kg	12700	12970	14503	14993	15545	14922
Inside radius	mm	2920	2825	2825	2825	2825	2825
Maximum radius over shovel	mm	5790	5985	5860	6000	6196	5900
Articulation angle	degrees	± 40°	± 40°	± 40°	± 40°	± 40°	± 40°

426 data based on machine equipped with pin mounted 1.9m³ bucket with toe plates and Michelin 20.5 R2.5 XH-A2 (L3) radial tyres.

436 data based on machine equipped with pin mounted 2.4m³ bucket with toe plates and Michelin 20.5 R2.5 XH-A2 (L3) radial tyres.

CHANGES TO OPERATING PERFORMANCE AND DIMENSIONS

426 HT										
Type size	Manufacturer	Type	Rating	Op weight kg	Standard arms		HI LIFT arms		Dimensions	
					STL kg	FTTL kg	STL kg	FTTL kg	Vertical mm	Width mm
20.5 - 25 (crossply)	Firestone	SGG	L2	-348	-245	-215	-204	-179	-9	+5
20.5 - 25 (crossply)	Goodyear	SGL D/L	L2	-216	-152	-134	-126	-111	-9	+5
20.5 R 25 (radial)	Goodyear	RL - 2 +	L2	+76	+54	+47	+45	+39	-9	+5
20.5 R 25 (radial)	Bridgestone	VUT	L2	-160	-113	-99	-94	-82	0	0
20.5 R 25 (radial)	Michelin	XTLA	L2	-160	-113	-99	-94	-82	-9	+5
20.5 R 25 (radial)	Bridgestone	VMT	L3	0	0	0	0	0	0	0
550/65 R 25 (radial)	Michelin	XLD	L3	-120	-85	-75	-71	-62	0	0
20.5 R 25 (radial)	Michelin	XRD1A	L4	+332	+257	+206	+214	+171	+29	+8
20.5 R 25 (radial)	Michelin	XMINED2	L5	+680	+480	+421	+399	+350	+29	-3
20.5 R 25 (radial)	Goodyear	RL-5K	L5	+600	+423	+372	+352	+310	+29	-3
620/75 R25 (radial)	Michelin	MEGA XBIB		-107	-75	-67	-62	-56	+62	+258
Optional additional bolt-on counterweight				+380	+707	+598	+604	+513	0	0



LOADER DIMENSIONS – 426 HT

Assumes the machine is fitted with 1.9m³ shovel with toeplates and Michelin 20.5R25 XHA (L3) tyres.

Model	426 HT – STANDARD HEIGHT ARM									
	Direct					Quickhitch				
	General purpose					General purpose				
Bucket mounting	Direct					Quickhitch				
	General purpose					General purpose				
Bucket type	Direct					Quickhitch				
	General purpose					General purpose				
Bucket capacity (SAE heaped)	Direct					Quickhitch				
	General purpose					General purpose				
Bucket capacity (struck)	Direct					Quickhitch				
	General purpose					General purpose				
Bucket width	Direct					Quickhitch				
	General purpose					General purpose				
Bucket weight	Direct					Quickhitch				
	General purpose					General purpose				
Maximum material density	Direct					Quickhitch				
	General purpose					General purpose				
Tipping load straight	Direct					Quickhitch				
	General purpose					General purpose				
Tipping load full turn	Direct					Quickhitch				
	General purpose					General purpose				
Payload	Direct					Quickhitch				
	General purpose					General purpose				
Maximum break out force	Direct					Quickhitch				
	General purpose					General purpose				
Dump angle maximum	Direct					Quickhitch				
	General purpose					General purpose				
Roll back angle full height	Direct					Quickhitch				
	General purpose					General purpose				
Roll back at carry	Direct					Quickhitch				
	General purpose					General purpose				
Roll back at ground level	Direct					Quickhitch				
	General purpose					General purpose				
Load over height	Direct					Quickhitch				
	General purpose					General purpose				
Dump height (45° dump)	Direct					Quickhitch				
	General purpose					General purpose				
Dig depth	Direct					Quickhitch				
	General purpose					General purpose				
Reach at dump height	Direct					Quickhitch				
	General purpose					General purpose				
Reach maximum (45° dump) – horizontal arm	Direct					Quickhitch				
	General purpose					General purpose				
Operating weight (includes 80kg operator and full fuel tank)	Direct					Quickhitch				
	General purpose					General purpose				

ENGINE		
426	436	
Type	4 stroke direct injection	
Model	Cummins BTA4.5.9C	
Capacity	litres5.9	
Aspiration	Turbo charged	
Cylinders	6	
Max gross power to SAE J1995/ISO 14396	kW (hp) @ 2000rpm	113 (152)132 (177)
Rated gross power to SAE J1995/ISO 14396	kW (hp) @ 2200rpm	112 (150)129 (173)
Nett power to SAE J1349/EEC 80/1269	kW (hp) @ 2200rpm	106 (146)123 (165)
Max torque	Nm @ 1300rpm	633786
Emissions	Tier 2	

TRANSMISSION		
426	436	
Make and model	ZF 4WG 190 4 Speed	
1st gear	kph	7.48.2
2nd gear	kph	14.514.5
3rd gear	kph	25.227
4th gear (forward only)	kph	37.937.9
Torque converter stall ratio	2.549:12.873:1	

AXLES		
426	436	
Type	Open differentials/Limited slip differential	
Make and model	ZF MT-L 3075 II (front) ZF MT-L 3065 II (rear)	
Overall axle ratio	21.53:1	
Rear axle oscillation	21°	
436		
Type	Open differential / Limited slip differential	
Make and model	ZF MT-L3085 II (front) ZF MT-L 3075 II (rear)	
Overall axle ratio	20.184:1	
Rear axle oscillation	21°	
STEERING	Priority steer hydraulic system with emergency steering.	
BRAKES	Hydraulic power braking on all wheels, hub mounted, oil immersed, multi-plate disc brakes, parking brake, mechanical type operating on transmission output shaft.	
TYRES	A variety of tyre options are available including: 20.5-25 SGG (L2), 20.5-25 SGL (L2), 20.5R25 RL-2 + (L2), 20.5R25 VUT (L2), 20.5R25 XLTA (L2), 20.5R25 VMT (L3), 20.5R25 XHA (L3), 550/65R25 XLD (L3), 20.5R25 XRDIA (L4), 20.5R25 XMINED2 (L5), 20.5R25 RL-5K (L5), 620-75 MEGA XBIB, 750-75 MEGA XBIB.	
ELECTRICAL SYSTEM		
System voltage	Volt	24
Alternator output	Amp hour	70
Battery capacity	Amp hour	2 x 110

LOADER HYDRAULICS		
	426	436
Pump type	Twin variable displacement piston pumps	
Pump 1 max. flow	l/min	132
Pump 1 max. pressure	bar	250
Pump 2 max. flow	l/min	132
Pump 2 max. pressure	bar	160
Hydraulic cycle times at full engine revs	Seconds	
	426	436
Arms raise (full bucket)	4.4	5.9
Bucket dump (full bucket)	1.0 (1.3 ZX)	1.0
Arms lower (empty bucket)	2.7	3.4
Total cycle	8.1 (8.4 ZX)	10.3
CAB	426/436 in cab noise level 73Lp	

SERVICE FILL CAPACITIES			
	426		436
Hydraulic system	litres	210	210
Fuel tank	litres	230	230
Engine oil sump	litres	14	14
Transmission oil system	litres	27	32.5
Axle oil (front)	litres	39	39
Axle oil (rear)	litres	37	39
Engine coolant system	litres	35	35

STANDARD EQUIPMENT

Loader: Bucket reset mechanism, loader arm kickout mechanism, loader control isolator, single lever servo control, high torque geometry combines with excellent visibility between the arms.

Engine: Air cleaner - 2 stage dry type - cyclonic with primary and safety elements, silencer and exhaust stack, sedimenter, twin bowl fuel filters, alternator and compressor drive belt guards, isolated cooling package with hydraulically driven cooling fan.

Transmission: Single lever shift control, speed inhibitor, neutral start, disconnect on footbrake and loader lever; disconnect isolator switch, 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, organic linings, dual circuit hydraulic power assisted. Parking disc brake on transmission output shaft.

Hydraulics: Twin piston pump with priority steer, emergency steer back-up, 2 spool loader circuit with accumulator support, 3rd spool auxiliary hydraulic circuit as standard. Hydraulic tank located in the rear chassis fabrication.

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

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

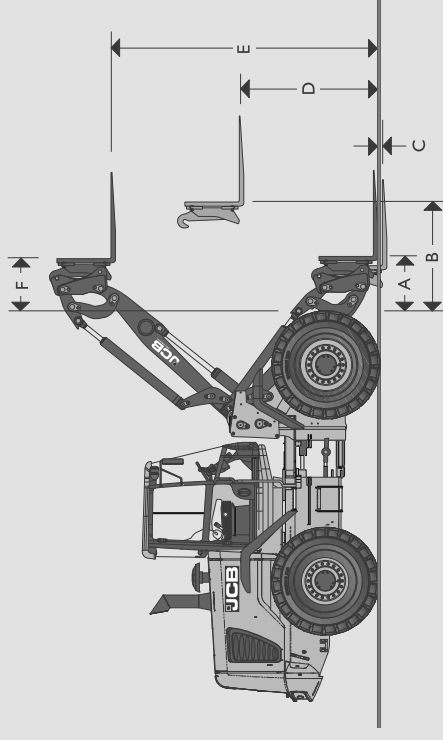
Electrical: Road lights front and rear, parking lights, front and rear working lights, reverse alarm and light, rear fog light, battery isolator, radio wiring and speakers, 70 amp alternator, rotating beacon.

Bodywork: Front and rear fenders, side and rear access panels, flexible bottom step, full width rear counterweight, recovery hitch, lifting lugs.

OPTIONAL EQUIPMENT

Air conditioning, limited slip differentials front/rear axles, Turbo 2 and dust buster pre-cleaner, tooth guard, replaceable bucket wearparts, epoxy coated radiator/coolers, automatically reversing cooling fan, stainless steel brake pipes, smooth ride system (SRS), hydraulic quickhitch, full rear fenders, reversing camera (colour), additional front and rear worklights, auto greasing system, joystick or Multi-lever hydraulic controls, auxiliary hydraulic control on separate lever or joystick mounted (proportional), Smart reverse alarm, canopy cab, Wastemaster cab, LiveLink telematics, widerear radiator, sealed electrics, grease gun and cartridge, basic and full belly guard kits, mesh air intake screen, ARV kit, safety strut, transmission cooler bypass, 24V to 12V in cab converter, cab screen guards, additional front and rear work lights, heated air suspension seat, heated mirrors, extra counterweight, light guards, front and rear blinds, engine block heater, biodegradable hydraulic oil, cab filtration options, fire extinguisher, number plate light kit, auxiliary 4th spool hydraulic service, grease gun, LiveLink telematics.

LOADER DIMENSIONS – FORK FRAME WITH FORKS

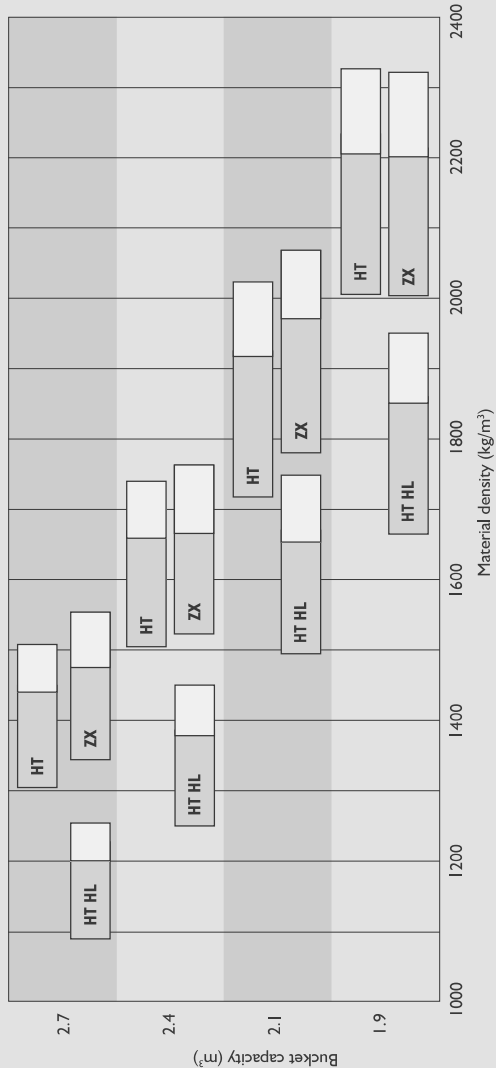


	Standard Height Arm				Hi Lift Arm				Super Hi Lift Arm		ZX Arm	
	Parallel fork		Non parallel fork		Parallel fork		Non parallel fork		Parallel fork	Non parallel fork	426 ZX	436 ZX
Assumes the fitment of Michelin 20.5R25 XHA (L3) tyres	426 HT	436 HT	426 HT	436 HT	426 HT	436 HT	426 HT	436 HT	436 HT	436 HT	426 ZX	436 ZX
Fork carriage width	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Length of lines	1220	1220	1220	1220	1220	1220	1220	1220	1220	1220	1220	1220
A Reach at ground level	760	791	770	798	1173	1147	1183	1154	2014	2021	770	798
B Reach at arms horizontal	1545	1613	1545	1620	1893	2103	1893	2110	2578	2585	1545	1620
C Below ground level	-52	8	-25	16	11	3	38	11	-19	-11	-42	16
D Arms, horizontal height	1906	1946	1867	1936	1906	1946	1867	1936	1946	1936	1867	1936
E Arms, maximum height	3718	3828	3695	3818	4148	4482	4125	4472	5045	5045	3695	3818
F Reach at maximum height	792	862	800	869	954	862	962	869	886	893	800	869
Payload*	5000	5000	5000	5000	4518	4650	4518	4650	3599	3599	5260	5610
Tipping load straight	7571	8589	7571	8589	6587	6871	6587	6871	5428	5428	7722	8289
Tipping load full turn (40°)	6492	7267	6492	7267	5648	5813	5648	5813	4499	4499	6575	7013
Attachment weight	440	482	440	482	440	482	440	482	440	440	440	482

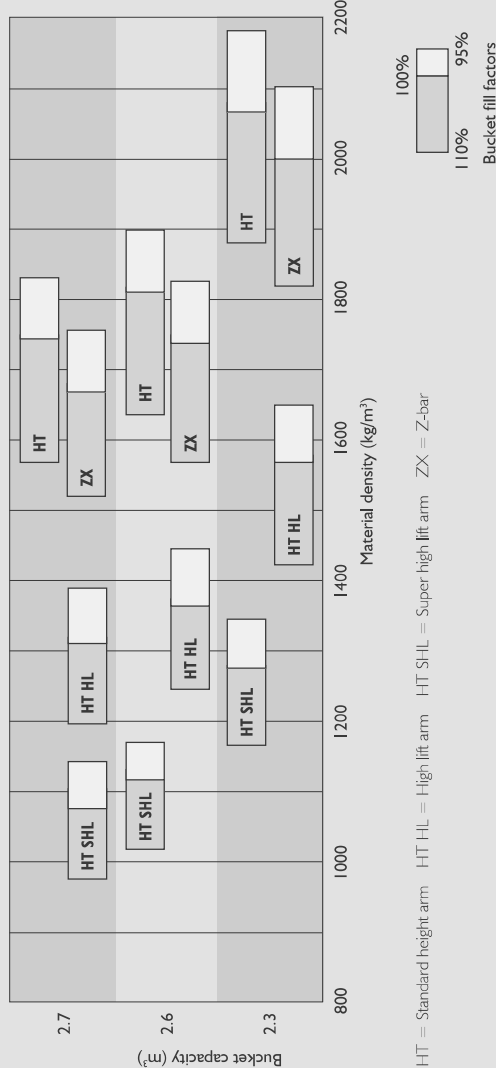
*At the centre-of-gravity distance 500mm. Based on 80% of full turn tipping load as defined by ISO 8313.

Manual fork spacings at 50mm increments. Fork section 100mm x 50mm.

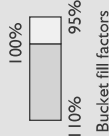
BUCKET CAPACITIES – 426



BUCKET CAPACITIES – 436



HT = Standard height arm HT HL = High lift arm HT SHL = Super high lift arm ZX = Z-bar



BUCKET SELECTOR – STANDARD HEIGHT ARM

Material	Loose density (kg/m³)	Fill factor (%)
Snow (fresh)	200	110
Peat (dry)	400	100
Sugar beet	530	100
Coke (loose)	570	85
Barley	600	85
Petroleum coke	680	85
Wheat	730	85
Coal bituminous	765	100
Fertiliser (mixed)	1030	85
Coal anthracite	1046	100
Earth (dry) (loose)	1150	100
Nitrate fertiliser	1250	85
Sodium chloride (dry) (salt)	1300	85
Cement Portland	1440	100
Limestone (crushed)	1530	100
Sand (dry)	1550	100
Asphalt	1600	100
Gravel (dry)	1650	85
Clay (wet)	1680	110
Sand (wet)	1890	110
Fire clay	2080	100
Copper (concentrate)	2300	85
Slate	2800	100
Magnetite	3204	100





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Wheeled Loading Shovel 426/436

426/436 Operating weight: 12,740kg/14,564kg Gross rated power: 112kW (150hp)/129kW (173hp)

Full turn tipping load: 8,271kg/9,436kg Standard shovel capacity: 2.1m³/2.7m³

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