



## WHEELED LOADING SHOVEL | 426/436

426 – Operating weight: 12,740kg Gross rated power: 112kW (150hp) Full turn tipping load: 8,271kg Standard shovel capacity: 2.1m<sup>3</sup>

436 – Operating weight: 14,564kg Gross rated power: 129kW (173hp) Full turn tipping load: 9,436kg Standard shovel capacity: 2.7m<sup>3</sup>



# A powerful machine that's fully loaded

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### **Excellent all-round visibility**

Large glass areas giving excellent visibility around the machine.

Sloped engine cover provides views at the rear.

Front quarter glass panels overlook central pivot area.

### **Power and performance**

Axles provide automatic traction control for all conditions.

Smart hydraulic systems maximise efficiency and drive down fuel costs.

Automatic transmission ensures the machine is always in the right gear.

### **Built to last**

High-quality, industry-recognised components.

Electronic safeguard systems prevent catastrophic failures.

Designed for easy servicing and maintenance.





### **Superb operator environment**

Ergonomic high-back seat for superior comfort.

Easy-to-use, clearly marked controls.

Large, spacious cabin with ample storage room.

### **Easy access to all areas**

Ground-level access for easy servicing and reduced downtime.

All components in accessible areas.

Large, single-piece engine cover and swing-out fan give access to engine and cooling bays.

### **Maximum safety**

Inclined steps and well-placed grab handles allow easy access.

Ground-level checks eliminate the need to climb onto the machine.

Optional rear-view camera systems available.

# Superb operator environment

**Central to the 426/436's well-thought-out design is the person who will be controlling it. With operators working for up to 12 hours a day, they need to be constantly alert and comfortable so they can be productive. The 426/436's cab is a remarkable achievement, combining a stylish interior with highly practical features.**



## **Easy, safe access**

With a wide door, steps inclined to 10° (something that's fast becoming a quarry standard), non-slip surfaces and well-positioned handles, access is always easy and safe, helping to minimise accidents on site.

## **The largest cab in its class**

At 3m<sup>3</sup>, the 426/436 has one seriously large operating environment, with every detail ergonomically designed for comfort and ease of use. There's also plenty of room for storage, including a massive open-floor space.

## **Positive pressure cab**

The cab is fully sealed in order to reduce dust and dirt entering the cabin, maintaining a healthy working environment. To suit different environments, a range of fresh air intake filters (P3, carbon and standard) is also available; all are easy to remove for cleaning and replacement.

## **Ergonomic high-back seat**

The standard high-backed suspension seat is fully adjustable and provides excellent support and comfort. The result is reduced operator fatigue for added productivity.

## **Just the right temperature**

The excellent heating and ventilation systems ensure ideal working temperatures. There is a variable blower speed and a range of fresh air intake filters to choose from. The temperature and recirculation controls are all well marked out and simple to use. An optional air-conditioning system and heated, air-suspended seat are also available.





# Complete controllability and all-round visibility

Today's worksites are busier than ever, so safety is always a primary concern. At JCB, we're committed to doing everything we can to reduce the risk of accidents and so we have designed the 426/436 to give operators the best possible visibility all around the machine.



## Large operator environment

The 360° tinted glass cab allows the operator not only to spot almost all potential hazards, but also to view the load throughout its full lift range. The cab features narrow uprights between the glass panels, an extra large wiper and a choice of front and rear blinds to keep the sun off.

## Heated mirrors

When it's cold outside, the heated mirrors prevent icing. Plus, there are two interior mirrors that provide superb views of hard-to-see areas.

## Controls

All the 426/436's controls are conveniently placed and incredibly easy to use. There's a choice of single or multi-lever controllers – both allowing for consistent use with minimum fatigue. The single-lever controller incorporates a forward/reverse switch that can be used without taking your hands off the steering wheel, while the multi-lever version is a switch located to the side. Both controllers feature gear-change and disconnect switches, and the latter speeds things up by transferring engine power to the hydraulics.





# Power and performance as standard

In a competitive world, you need to move the maximum amount of material at the lowest possible cost. Designed to deliver outstanding power and optimum efficiency, every component on the JCB 426/436 has been created to meet rigorous demands day in, day out.



## A world-class powertrain

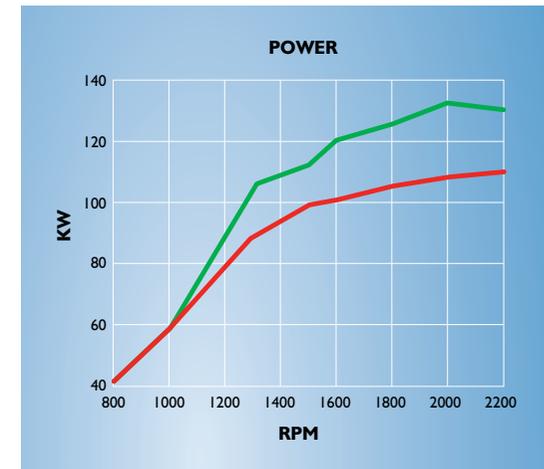
A perfectly matched, balanced powertrain provides the power to move even the most demanding material from A to B.

## Turbocharged Cummins QSB engine

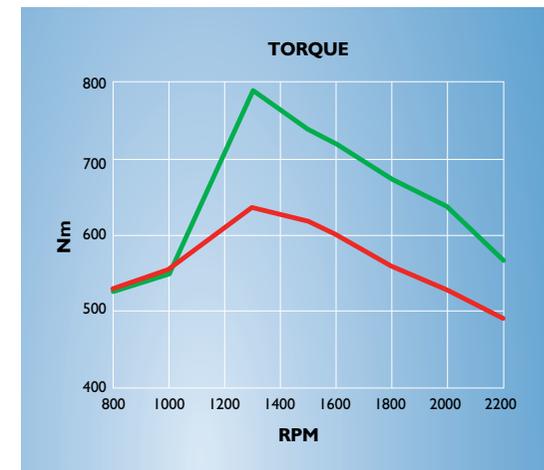
The 426/436 boasts an air-to-air intercooled low-emission engine with electronically controlled fuel-injection system. This delivers high torque at a low engine RPM, enabling the operator to fill the bucket faster.

## ZF Smoothshift transmission

The 426/436 features a fully automatic transmission. Normally the driver has to select the correct gear to ensure efficient fuel use. But with this system the correct gear is automatically and immediately selected ensuring the absolute maximum productivity and fuel efficiency, and prolonging the life of the machine.



— 426 — 436



**ZF axles**

The 436 is fitted with standard torque proportioning axles that keep the machine moving even in difficult conditions. If one wheel is slipping, power is automatically transferred to the wheel with traction. Torque is also increased at the hubs, which reduces stress on other components. Ultimately, this saves wear on the tyres and gets the job done faster. There's also the option to have even more advanced limited slip differential axles.

**Oil-immersed brakes**

The oil-immersed braking system not only ensures effective braking but also a long service life. Wheel speed braking means the brakes on the 436 rotate at the same speed as the wheels for heat and

drag reduction, as well as improved fuel economy. As a safety precaution, a back-up brake circuit allows safe stopping in the event of drivetrain failure.

**Load-sensing hydraulics**

The 436 delivers efficient hydraulic oil flow on demand thanks to a load-sensing circuit. This minimises fuel consumption, directs power where it is needed most and allows for accurate and efficient load placements. When it comes to driving, the steering requires minimum effort, even at full articulation.

**A choice of loader arms**

You can choose your ideal loader arm on a 426/436, with z-bar linkage (ZX) for high breakout applications or high torque (HT) for parallel lift and multi-attachment use.

Choose a HT high lift on the 426 or 436, or super high lift HT on the 436 and you can use the machine for higher loading height applications (hopper and lorry loading).



Z bar (ZX)

High Torque (HT)

HT High Lift

HT Super High Lift

# Maintenance made easy

**Once in use, the 426/436 rapidly becomes a vital part of the production process, so any downtime could mean a serious loss in productivity and, therefore, profitability. Keeping it in prime condition is vital, so we have made regular maintenance extremely easy to carry out, which in turn will maximise the machine's use and longevity.**

## Ground-level access

Daily and weekly maintenance checks can be completed easily and safely by operators, thanks to ground-level checkpoints.

## Optimum cooling performance

Keeping your machine at the right temperature will ensure it stays efficient and has a long life. The 426/436's cooling system is cleverly designed to stay free of dirt and debris, while the cooling pack can be easily cleaned via the swing-out rear grille and single-piece engine cover doors. For particularly arduous or dusty conditions, add-on options include a fully automatic reversing fan and a widecore cooling pack. The reversing fan is designed to protect the cooling pack while the widecore pack allows larger particles through the cooler without catching.

## The Electronic Monitoring System

Our sophisticated Electronic Monitoring System (EMS) controls and monitors the components, triggering built-in safeguards that prevent major damage to major parts. For example, if the coolant temperature gets too hot, the machine will automatically protect itself and shut down.

This multi-language system allows you to set certain functions to suit the application, for optimum performance, and displays key operation data in real time. Fault codes allow quick identification of problems enabling quicker turnaround of issues, while a service indicator lets you know when service is required.





# Built to last

**Everything about the new 426/436 indicates that it is built to last, offering maximum productivity over thousands of operational hours. Every single component has been carefully designed and manufactured to rigorous standards, ensuring long life, lower running costs and a high value when it finally comes to selling.**

## Designed-in strength

Using cutting-edge design techniques, the best components, sophisticated computational analysis and rigorous physical testing, JCB has created a machine fit for the demands of your business.

The cast steel rear end (often of plastic fabrication on competitor machines) gives real strength and protects against significant damage, reducing operating costs. The slope of the rear bonnet is shaped for better visibility so that it's easier to see potential hazards, again reducing damage to the machine. Full chassis belly guarding also protects the main driveline components from damage on the underside.

## Tailoring the machine for your needs

The 426/436 is built to cope with extremely demanding environments, but it can also be customised to meet the specific requirements of individual applications. For example, for waste applications a series of additional guards is available, including brake lines guards, extra belly guards, lift ram guards, cab screen guards, etc. And for load and carry operations, Smooth Ride Systems can be fitted, turning the arms into a form of suspension which allows them to float. The machine can then travel more quickly over the ground because shock loadings are not passed through the machine making it unstable, plus shock is not passed to loads through all the structures and systems.

## Protected hydraulic circuits

A high-quality filtration system ensures no debris passes through the hydraulic circuit. This, along with highly adapted assembly procedures, ensures a long operating life.

## Smooth operation

By reducing the shock passing through all the components, the machine is guaranteed smooth and easy operation – and a longer life span.

## Easy maintenance

Easier access for operators and maintenance technicians ensures that the machine can be kept in the best condition, maintaining availability and productivity. Service intervals are every 500 hours.



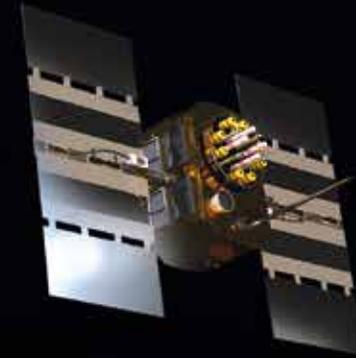


## LIVELINK, WORK SMARTER

LIVELINK IS AN INNOVATIVE SOFTWARE SYSTEM THAT LETS YOU MANAGE JCB MACHINES REMOTELY – ONLINE, BY EMAIL OR BY MOBILE PHONE. ACCESS EVERYTHING FROM MACHINE ALERTS TO FUEL REPORTS AND HISTORY INFORMATION, WITH ALL DATA STORED AT A SECURE CENTRE.

### Productivity and cost benefits

By providing information like idle time monitoring and machine fuel consumption, JCB Livelink helps reduce your fuel usage, saving money and improving productivity. Machine location information can help improve efficiency and perhaps even reduce insurance costs.



### Maintenance benefits

Manage machine maintenance easily – accurate hours monitoring and service alerts improve maintenance planning, while real-time location data helps you manage your fleet. Critical machine alerts and maintenance history records are also available.



### Security benefits

Livelink's real-time geofencing alerts tell you when machines move out of predetermined zones, and real-time curfew alerts inform you of unauthorised usage. Further benefits include real-time location information.



## VALUE ADDED

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.



1

**1** Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

**2** The global network of JCB Parts Centres is another model of efficiency; with 15 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



2

**3** JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our Maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.

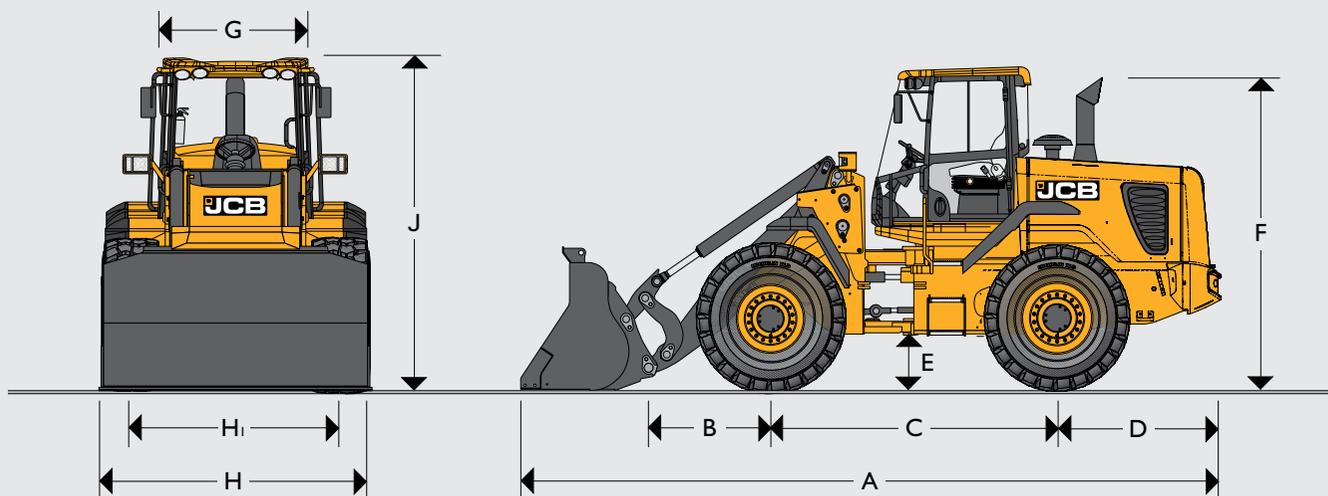


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*Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.*



## STATIC DIMENSIONS – HT (HIGH-TORQUE)

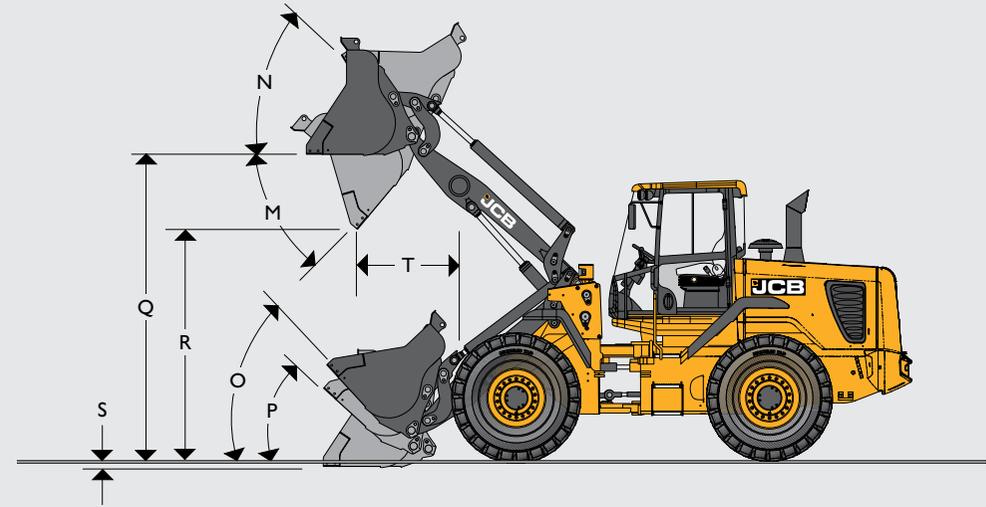


			426 HT	426 HT HL	426 ZX	436 HT	436 HT HL	436 HT SHL	436 ZX
A	Overall length	mm	6831	7244	6831	6926	7282	7726	7169
B	Axle to pivot pin	mm	1096	1509	1096	1143	1499	2366	1143
C	Wheel base	mm	3000	3000	3000	3000	3000	3000	3000
D	Axle to counterweight face	mm	1816	1816	1816	1816	1816	1816	1816
E	Minimum ground clearance	mm	442	442	442	459	459	459	459
F	Height over exhaust	mm	3236	3192	3192	3192	3192	3192	3192
G	Width over cab	mm	1400	1400	1400	1400	1400	1400	1400
H	Width over tyres	mm	2482	2482	2482	2597	2597	2597	2597
Hi	Wheel track	mm	1955	2070	1955	2070	2070	2070	2070
J	Height over cab	mm	3335	3335	3335	3335	3335	3335	3335
	Pin height (maximum)	mm	3906	4336	3906	3996	4650	5213	3996
	Overall operating height	mm	5095	5525	5095	5305	5959	6522	5305
	Front axle weight	kg	5574	5869	5830	6013	7133	7968	6456
	Rear axle weight	kg	7126	7101	7020	8490	7860	7577	8466
	Total weight	kg	12700	12970	12850	14503	14993	15545	14922
	Inside radius	mm	2920	2825	2920	2825	2825	2825	2825
	Maximum radius over shovel	mm	5790	5985	5790	5860	6000	6196	5900
	Articulation angle	degrees	± 40°	± 40°	± 40°	± 40°	± 40°	± 40°	± 40°

426 data based on machine equipped with pin mounted 1.9m<sup>3</sup> bucket with toe plates and Michelin 20.5 R25 XHA2 (L3) radial tyres.

436 data based on machine equipped with pin mounted 2.4m<sup>3</sup> bucket with toe plates and Michelin 20.5 R25 XHA2 (L3) radial tyres.

CHANGES TO OPERATING PERFORMANCE AND DIMENSIONS										
426 HT										
Tyre 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	XRD 1A	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



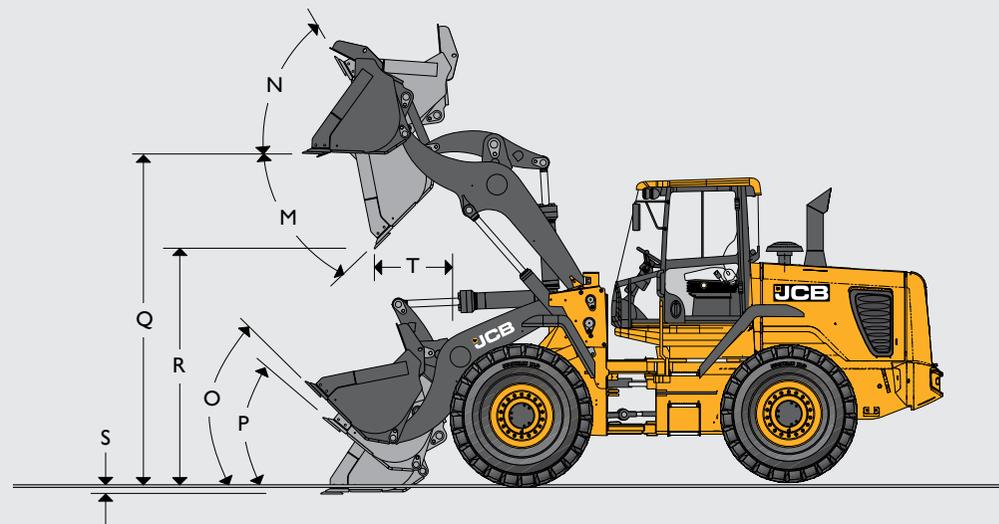
**LOADER DIMENSIONS – 426 HT**

Assumes the machine is fitted with 1.9m<sup>3</sup> shovel with toeplates and Michelin 20.5R25 XHA (L3) tyres.

Model	426 HT – STANDARD HEIGHT ARM														426 HT – HI LIFT ARM										
	Direct							Quickhitch							Direct					Quickhitch					
	General purpose														General purpose										
Bucket mounting	Tipped teeth							Reversible toeplate							Tipped teeth					Reversible toeplate					
Bucket type	Tipped teeth														Reversible toeplate										
Bucket equipment	Tipped teeth														Reversible toeplate										
Bucket capacity (SAE heaped)	m <sup>3</sup>	1.8	2.0	1.9	2.1	2.4	2.7	1.8	2.0	1.9	2.1	2.4	2.7	1.8	2.0	1.9	2.1	2.4	2.7	1.8	2.0	1.9	2.1	2.4	2.7
Bucket capacity (struck)	m <sup>3</sup>	1.556	1.765	1.616	1.830	2.057	2.346	1.554	1.749	1.594	1.787	2.057	2.346	1.556	1.765	1.616	1.830	2.057	2.346	1.554	1.749	1.594	1.787	2.057	2.346
Bucket width	mm	2550	2550	2550	2550	2700	2700	2550	2550	2550	2550	2700	2700	2550	2550	2550	2550	2700	2700	2550	2550	2550	2550	2700	2700
Bucket weight	kg	810	850	810	850	1136	1211	800	850	800	850	1136	1211	810	850	810	850	1136	1211	800	850	800	850	1136	1211
Maximum material density	kg/m <sup>3</sup>	2332	2068	2209	1969	1655	1439	2125	1884	2013	1794	1508	1311	1947	1726	1844	1644	1381	1201	1774	1573	1681	1498	1260	1095
Tipping load straight	kg	9819	9797	9819	9797	9334	9147	8983	8859	8983	8859	8554	8384	8199	8180	8199	8180	7794	7638	7501	7397	7501	7397	7142	7000
Tipping load full turn	kg	8396	8271	8396	8271	7944	7774	7650	7537	7650	7537	7243	7085	7010	6906	7010	6906	6633	6491	6388	6293	6388	6293	6048	5916
Payload	kg	4198	4136	4198	4136	3972	3887	3825	3768	3825	3768	3621	3542	3505	3453	3505	3453	3316	3245	3194	3146	3194	3145	3024	2958
Maximum break out force	kN	138	128	138	128	123	115	121	113	121	113	106	99	138	128	138	128	123	115	121	113	121	113	106	99
M Dump angle maximum	degrees	49°	49°	49°	49°	49°	49°	49°	49°	49°	49°	49°	49°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°
N Roll back angle full height	degrees	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°	58°
O Roll back at carry	degrees	48°	48°	48°	48°	48°	48°	48°	48°	48°	48°	48°	48°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°
P Roll back at ground level	degrees	43°	43°	43°	43°	43°	43°	43°	43°	43°	43°	43°	43°	48°	48°	48°	48°	48°	48°	48°	48°	48°	48°	48°	48°
Q Load over height	mm	3627	3627	3612	3612	3610	3610	3627	3627	3612	3612	3610	3610	4057	4057	4042	4042	4040	4040	4057	4057	4042	4042	4040	4040
R Dump height (45° dump)	mm	2817	2767	2944	2896	2860	2796	2697	2647	2848	2775	2739	2676	3247	3197	3374	3326	3290	3226	3212	3127	3278	3205	3169	3106
S Dig depth	mm	50	50	47	47	47	47	50	50	47	47	47	47	113	113	110	110	110	110	128	113	110	110	110	110
T Reach at dump height	mm	1071	1121	946	99	1028	1092	1191	1240	1052	1118	1149	1213	1233	1983	1108	1158	1190	1254	1244	1253	1214	1280	1311	1375
Reach maximum (45° dump) – horizontal arm	mm	1818	1868	1693	1743	1775	1839	1938	1987	1800	1865	1896	1960	2166	2216	2041	2091	2123	2187	2177	2286	2148	2213	2244	2308
Operating weight (includes 80kg operator and full fuel tank)	kg	12700	12740	12700	12740	13025	13100	12980	13030	12980	13030	13316	13390	12970	13010	12970	13010	13925	13370	13250	13300	13250	13300	13586	13660

CHANGES TO OPERATING PERFORMANCE AND DIMENSIONS

426 ZX					Standard arms		Dimensions	
Tyre size	Manufacturer	Type	Rating	Op weight kg	STL kg	FTTL kg	Vertical mm	Width mm
20.5 - 25 (crossply)	Firestone	SGG	L2	-348	-245	-215	-9	+5
20.5 - 25 (crossply)	Goodyear	SGL	L2	-54	-38	-33	-9	+5
20.5 R 25 (radial)	Goodyear	RL - 2+	L2	+76	+54	+47	-9	+5
20.5 R 25 (radial)	Bridgestone	VUT	L2	-160	-113	-99	0	0
20.5 R 25 (radial)	Michelin	XTLA	L2	-160	-113	-99	-9	+5
20.5 R 25 (radial)	Bridgestone	VMT	L3	0	0	0	0	0
550/65 R 25 (radial)	Michelin	XLD	L3	-120	-85	-74	0	0
20.5 R 25 (radial)	Michelin	XRD1A	L4	+456	+332	+282	+29	+8
20.5 R 25 (radial)	Michelin	XMINED2	L5	+680	+480	+421	+29	-3
20.5 R 25 (radial)	Goodyear	RL-5K	L5	+600	+423	+372	+29	-3
Optional additional bolt-on counterweight				+380	+707	+598	0	0



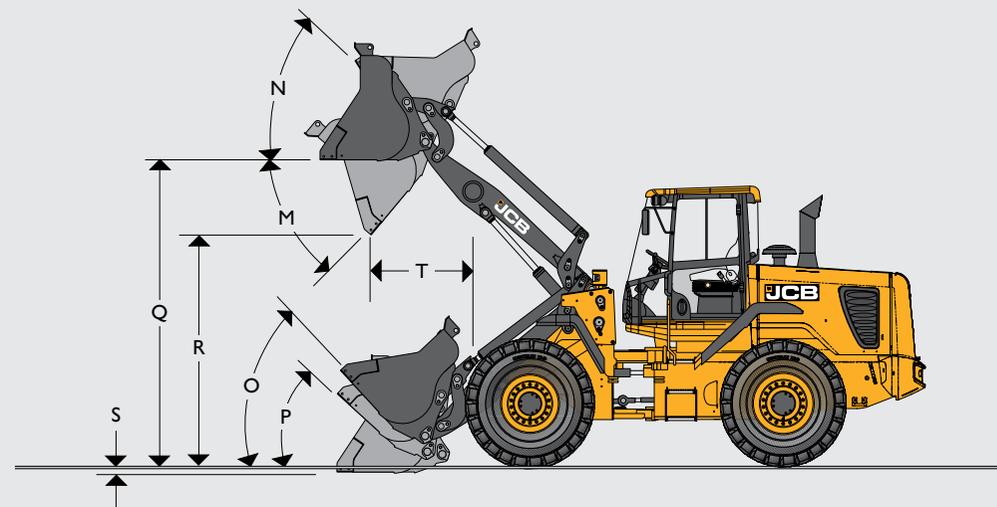
LOADER DIMENSIONS – 426 ZX

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

Model	426 ZX												
			Direct				Quickhitch						
			General purpose		Penetration		General purpose		Tipped teeth		General purpose		Reversible toeplate
Bucket mounting	Bucket type	Tipped teeth		Reversible toeplate		Tipped teeth		General purpose		Reversible toeplate			
Bucket capacity (SAE heaped)	m³	2.0	2.0	1.9	2.1	2.4	2.7	1.8	2.0	1.9	2.1	2.4	2.7
Bucket capacity (struck)	m³	1.724	1.724	1.612	1.785	2.057	2.346	1.554	1.749	1.594	1.787	2.057	2.346
Bucket width	mm	2550	2550	2550	2550	2700	2700	2550	2550	2550	2550	2700	2700
Bucket weight	kg	1040	1140	925	1040	1262	1329	800	850	800	850	1136	1211
Maximum material density	kg/m³	2068	2039	2202	1969	1677	1478	2152	1914	2039	1823	1549	1364
Tipping load straight	kg	9687	9574	9795	9687	9465	9398	9067	8969	9067	8969	8747	8680
Tipping load full turn	kg	8273	8159	8370	8273	8051	7984	7748	7659	7748	7659	7437	7370
Payload	kg	4136	4079	4185	4136	4025	3992	3874	3829	3874	3829	3718	3685
Maximum break out force	kN	135	135	145	135	129	120	126	118	126	118	113	106
M Dump angle maximum	degrees	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°
N Roll back angle full height	degrees	52°	52°	52°	52°	52°	52°	52°	52°	52°	52°	52°	52°
O Roll back at carry	degrees	44°	44°	44°	44°	44°	44°	44°	44°	44°	44°	44°	44°
P Roll back at ground level	degrees	35°	35°	35°	35°	35°	35°	35°	35°	35°	35°	35°	35°
Q Load over height	mm	3645	3640	3640	3640	3638	3638	3645	3645	3640	3640	3638	3638
R Dump height (45° dump)	mm	2786	2786	2962	2914	2878	2814	2715	2683	2841	2793	2757	2693
S Dig depth	mm	33	33	30	30	32	32	33	33	30	30	32	32
T Reach at dump height	mm	1121	1121	946	996	1029	1093	1192	1242	1067	1117	1150	1214
Reach maximum (45° dump) – horizontal arm	mm	1868	1868	1693	1743	1776	1840	1939	1989	1814	1864	1917	1961
Operating weight (includes 80kg operator and full fuel tank)	kg	12890	13180	12850	12890	13112	13179	13005	13045	13005	13045	13331	13406

## CHANGES TO OPERATING PERFORMANCE AND DIMENSIONS

436 HT				Standard arms		HI LIFT Arms		SHL Arms		Dimensions		
Tyre size	Manufacturer	Type	Rating	Op weight kg	STL kg	FTTL kg	STL kg	FTTL kg	STL kg	FTTL kg	Vertical mm	Width mm
20.5 - 25 (crossply)	Firestone	-	L2	-348	-208	-201	-168	-164	-135	-130	-9	+5
20.5 - 25 (crossply)	Goodyear	SGL	L2	-54	-32	-31	-25	-24	-21	-20	-9	+5
20.5 R25 (radial)	Goodyear	RL - 2 +	L2	+76	+45	+44	+36	+35	-73	-64	-9	+5
20.5 R25 (radial)	Bridgestone	VUT	L2	-160	-96	-93	-78	-76	+29	+28	0	0
20.5 R25 (radial)	Michelin	XTLA	L2	-160	-96	-93	-78	-76	-73	-64	-9	+5
20.5 R25 (radial)	Bridgestone	VMT	L3	0	0	0	0	0	0	0	0	0
550/65 R25 (radial)	Michelin	XLD	L3	-120	-71	-69	-55	-55	-46	-45	0	0
20.5 R25 (radial)	Michelin	XRD1A	L4	+456	+272	+264	+219	+215	-177	-171	+29	+8
20.5 R25 (radial)	Michelin	XMINED2	L5	+680	+407	+393	+321	+321	+264	+255	+29	-3
20.5 R25 (radial)	Goodyear	RL-5K	L5	+600	+358	+347	+289	+283	+232	-225	+29	-3
Optional heavy counterweight				+380	+683	+570	+550	+466	+421	+353	0	0

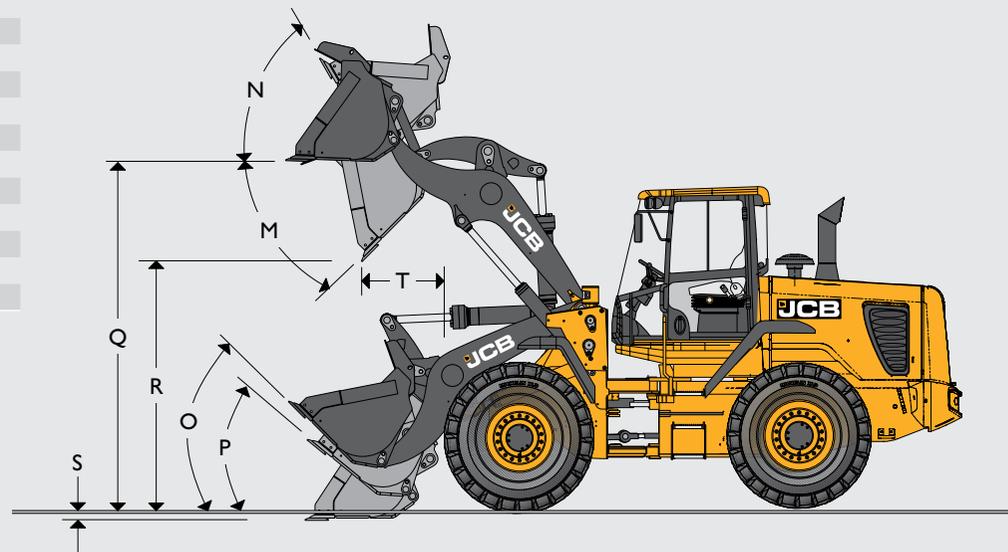


## LOADER DIMENSIONS – 436 HT

Assumes the machine is fitted with Michelin 20.5R25 XHA (L3) tyres.

Model	436 HT – STANDARD HEIGHT ARM								436 HT – HI LIFT ARM								436 HT – SUPER HI LIFT ARM								
	Direct				Quickhitch				Direct				Quickhitch				Direct				Quickhitch				
Bucket type	General purpose																								
Bucket equipment	Tipped teeth		Reversible toeplate		Tipped teeth		Reversible toeplate		Tipped teeth		Reversible toeplate		Tipped teeth		Reversible toeplate		Tipped teeth		Reversible toeplate		Tipped teeth		Reversible toeplate		
Bucket capacity (SAE heaped)	m <sup>3</sup>	2.3	2.6	2.4	2.7	2.3	2.6	2.4	2.7	2.3	2.6	2.4	2.7	2.3	2.6	2.4	2.7	2.3	2.6	2.4	2.7	2.3	2.6	2.4	2.7
Bucket capacity (struck)	m <sup>3</sup>	1.984	2.270	2.057	2.346	1.984	2.270	2.057	2.346	1.984	2.270	2.057	2.346	1.984	2.270	2.057	2.346	1.984	2.270	2.057	2.346	1.984	2.270	2.057	2.346
Bucket width	mm	2740	2740	2700	2700	2740	2740	2700	2700	2740	2740	2700	2700	2740	2740	2700	2700	2740	2740	2700	2700	2740	2740	2700	2700
Bucket weight	kg	1151	1224	1163	1236	1124	1199	1136	1211	1151	1224	1163	1236	1124	1199	1136	1211	1151	1224	1163	1236	1124	1199	1136	1211
Maximum material density	kg/m <sup>3</sup>	2082	1814	1995	1747	1958	1706	1876	1642	1582	1379	1516	1327	1488	1396	1426	1248	1288	1123	1235	1081	1212	1055	1161	1016
Tipping load straight	kg	11467	11310	11467	11310	10828	10676	10828	10676	8715	8595	8715	8595	8229	8114	8229	8114	7247	7148	7247	7148	6843	6747	6843	6747
Tipping load full turn	kg	9578	9436	9578	9436	9009	8870	9009	8870	7279	7171	7279	7171	6847	6741	6847	6741	5929	5841	5929	5841	5576	5490	5576	5490
Payload	kg	4789	4718	4789	4718	4504	4435	4504	4435	3639	3585	3639	3585	3423	3370	3423	3370	2964	2920	2964	2920	2788	2745	2788	2745
Maximum break out force	kN	147	134	147	134	131	122	131	122	147	134	147	134	131	122	131	122	153	139	153	139	136	124	136	127
M Dump angle maximum	degrees	50°	50°	50°	50°	50°	50°	50°	50°	45°	45°	45°	45°	45°	45°	45°	45°	50°	50°	50°	50°	50°	50°	50°	50°
N Roll back angle full height	degrees	58°	58°	58°	58°	58°	58°	58°	58°	60°	60°	60°	60°	60°	60°	60°	60°	58°	58°	58°	58°	58°	58°	58°	58°
O Roll back at carry	degrees	48°	48°	48°	48°	48°	48°	48°	48°	54°	54°	54°	54°	54°	54°	54°	54°	48°	48°	48°	48°	48°	48°	48°	48°
P Roll back at ground level	degrees	43°	43°	43°	43°	43°	43°	43°	43°	45°	45°	45°	45°	45°	45°	45°	45°	43°	43°	43°	43°	43°	43°	43°	43°
Q Load over height	mm	3755	3755	3755	3755	3755	3755	3755	3755	4409	4409	4409	4409	4409	4409	4409	4409	4976	4976	4976	4976	4976	4976	4976	4976
R Dump height (45° dump)	mm	2806	2742	2974	2883	2721	2657	2862	2798	3460	3396	3628	3537	3375	3311	3516	3452	4023	3959	4191	4100	3938	3874	4079	4015
S Dig depth	mm	132	132	106	106	132	132	106	106	127	127	101	101	127	127	101	101	105	105	79	79	105	105	79	79
T Reach at dump height	mm	1148	1207	1044	1103	1225	1283	1121	1179	1148	1207	1044	1103	1225	1283	1121	1179	1172	1231	1068	1127	1249	1307	1145	1230
Reach maximum (45° dump) – horizontal arm	mm	1987	2051	1883	1947	1772	2136	1968	2032	2477	2541	2373	2437	2262	2626	2458	2522	2952	3016	2848	2912	2737	3101	2933	2997
Operating weight (includes 80kg operator and full fuel tank)	kg	14491	14564	14503	14576	14788	14863	14800	14875	14981	15054	14993	15066	15278	15353	15290	15365	15533	15606	15545	15618	15830	15905	15842	15917

TYRE SIZE								
436 ZX					Standard arms		Dimensions	
Tyre size	Manufacturer	Type	Rating	Op weight kg	STL kg	FTTL kg	Vertical mm	Width mm
20.5 - 25 (crossply)	Firestone		L2	-348	-208	-201	-9	+5
20.5 - 25 (crossply)	Goodyear	SGL	L2	-54	-32	-31	-9	+5
20.5 R 25 (radial)	Goodyear	RL - 2 +	L2	+76	+45	+44	-9	+5
20.5 R 25 (radial)	Bridgestone	VUT	L2	-160	-96	-93	0	0
20.5 R 25 (radial)	Michelin	XTLA	L2	-160	-96	-93	-9	+5
20.5 R 25 (radial)	Bridgestone	VMT	L3	0	0	0	0	0
550/65 R 25 (radial)	Michelin	XLD	L3	-120	-71	-69	0	0
20.5 R 25 (radial)	Michelin	XRD1A	L4	+456	+272	+264	+29	+8
20.5 R 25 (radial)	Michelin	XMINED2	L5	+680	+407	+393	+29	-3
20.5 R 25 (radial)	Goodyear	RL-5K	L5	+600	+358	+347	+29	-3
Optional additional bolt-on counterweight				+380	+680	+570	0	0



**LOADER DIMENSIONS – 436 ZX**

Assumes the machine is fitted with Michelin 20.5R25 XHA (L3) tyres

Model	436 ZX									
	General purpose			Direct Penetration	General purpose		Quickhitch General purpose			
Bucket type	Tipped teeth				Reversible toeplate		Tipped teeth		Reversible toeplate	
Bucket mounting										
Bucket equipment										
Bucket capacity (SAE heaped)	m <sup>3</sup>	2.3	2.6	2.6	2.4	2.7	2.3	2.6	2.4	2.7
Bucket capacity (struck)	m <sup>3</sup>	1.984	2.274	2.274	2.057	2.346	1.984	2.274	2.057	2.346
Bucket width	mm	2740	2740	2740	2700	2700	2740	2740	2700	2700
Bucket weight	kg	1250	1317	1361	1262	1329	1124	1199	1136	1211
Maximum material density	kg/m <sup>3</sup>	1999	1744	1752	1913	1676	1908	1664	1811	1600
Tipping load straight	kg	11057	10911	10953	11044	10898	10551	10404	10451	10388
Tipping load full turn	kg	9199	9069	9110	9185	9055	8778	8656	8694	8643
Payload	kg	4599	4535	4555	4592	4527	4389	4328	4347	4321
Maximum break out force	kN	176	162	162	176	162	157	144	157	144
M Dump angle maximum	degrees	47°	47°	47°	47°	47°	47°	47°	47°	47°
N Roll back angle full height	degrees	58°	58°	58°	58°	58°	58°	58°	58°	58°
O Roll back at carry	degrees	45°	45°	45°	45°	45°	45°	45°	45°	45°
P Roll back at ground level	degrees	37°	37°	37°	37°	37°	37°	37°	37°	37°
Q Load over height	mm	3755	3755	3755	3755	3755	3755	3755	3755	3755
R Dump height (45° dump)	mm	2824	2759	2759	2965	2833	2739	2674	2880	2748
S Dig depth	mm	131	131	131	105	105	131	131	105	105
T Reach at dump height	mm	1248	1312	1312	1144	1103	1333	1397	1229	1188
Reach maximum (45° dump)	mm	2000	2064	2064	1896	1947	2077	2141	1973	2024
Operating weight (includes 80kg operator and full fuel tank)	kg	14910	14977	15021	14922	14989	15207	15274	15219	15286

ENGINE			
		426	436
Type		4 stroke direct injection	
Model		Cummins BTAA 5.9C	
Capacity	litres	5.9	
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	633	786
Emissions		Tier 2	

TRANSMISSION			
		426	436
Make and model		ZF 4WG 190 4 Speed	
1st gear	kph	7.4	8.2
2nd gear	kph	14.5	14.5
3rd gear	kph	25.2	27
4th gear (forward only)	kph	37.9	37.9
Torque convertor stall ratio		2.549:1	2.873:1

AXLES	
<b>426</b>	
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°
<b>436</b>	
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°

<b>STEERING</b>	Priority steer hydraulic system with emergency steering.
<b>BRAKES</b>	Hydraulic power braking on all wheels, hub mounted, oil immersed, multi-plate disc brakes, parking brake, mechanical type operating on transmission output shaft.
<b>TYRES</b>	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	132
Pump 1 max. pressure	bar	250	250
Pump 2 max. flow	l/min	132	132
Pump 2 max. pressure	bar	160	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

<b>CAB</b>	426/436 in cab noise level 73Lp
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## 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 wipe/wash and self park, single speed rear windscreen wipe/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.

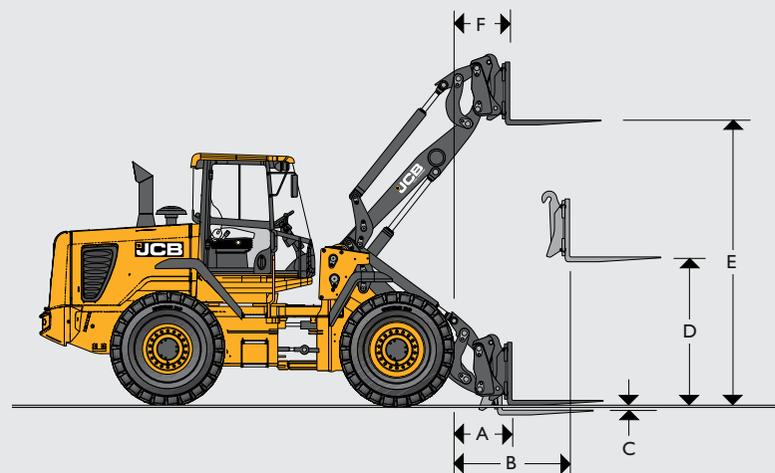
**Electrical:** Road lights front and rear, parking lights, front and rear working lights, reverse alarm and light, rear fog light, battery isolator, radio wiring and speakers, 70 amp alternator, rotating beacon.

**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, widecore 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

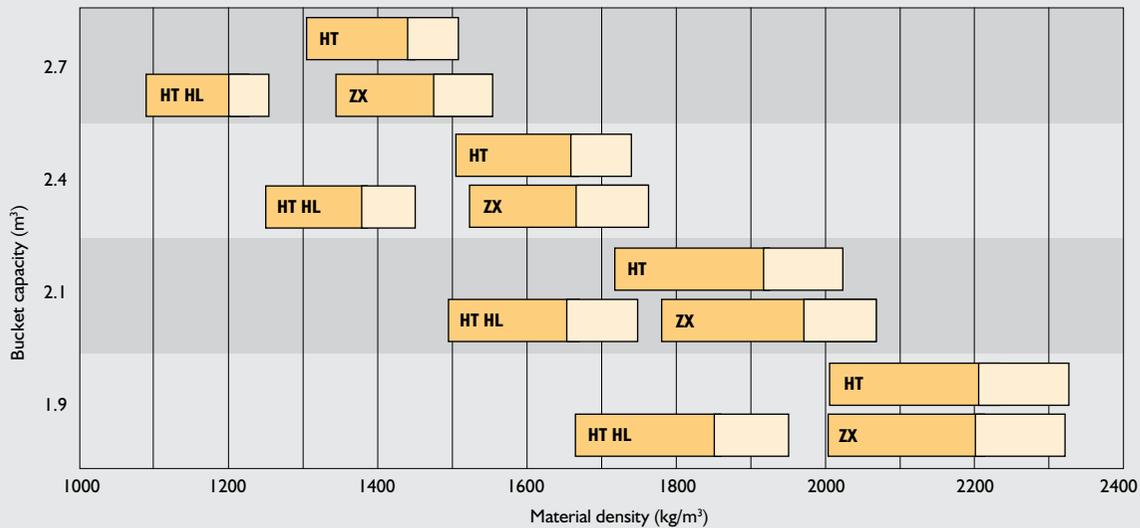


Assumes the fitment of Michelin 20.5R25 XHA (L3) tyres	Standard Height Arm				Hi Lift Arm				Super Hi Lift Arm		ZX Arm		
	Parallel fork		Non parallel fork		Parallel fork		Non parallel fork		Parallel fork	Non parallel fork	426 ZX	436 ZX	
	426 HT	436 HT	426 HT	436 HT	426 HT	436 HT	426 HT	436 HT	436 HT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

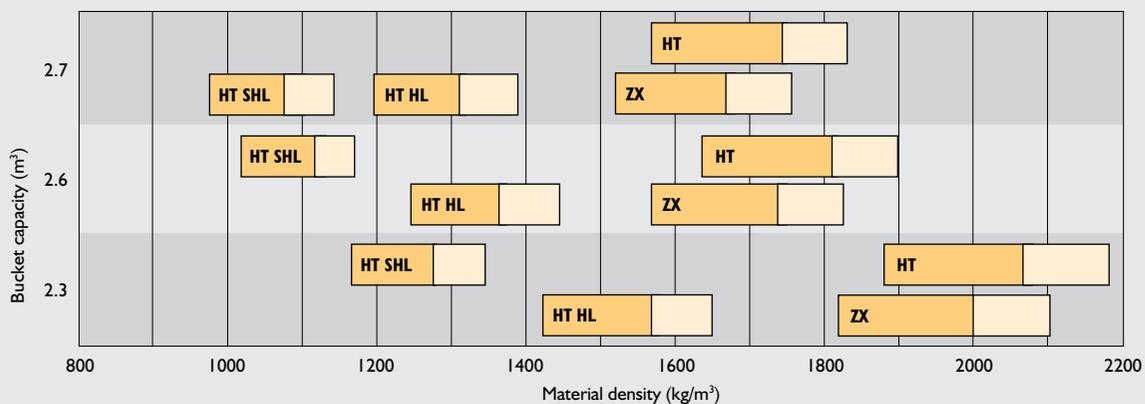
\*At the centre-of-gravity distance 500mm. Based on 80% of full turn tipping load as defined by ISO 8313.

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

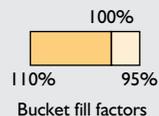
**BUCKET CAPACITIES – 426**



**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: 2.1m<sup>3</sup>/2.7m<sup>3</sup>

JCB Sales Limited, Rocester, Staffordshire, United Kingdom ST14 5JP.

Tel: +44 (0)1889 590312 Email: [salesinfo@jcb.com](mailto:salesinfo@jcb.com)

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