





# **UNSTOPPABLE FORCE**

The JCB 435S wheel loader is a machine designed to give you loads more productivity and versatility in comfort. Weighing just over 15 tonnes but delivering 282hp, it has a best in class power-to-weight ratio of 19hp per tonne, producing unstoppable pushing, lifting, climbing and roading performance. What more could you want?







#### **INCREASED VERSATILITY**

The 435S is available with both standard lift and high lift arms. An optional tow hitch with integrated camera, provides even greater versatility.

#### **EXCEPTIONAL COMFORT**

Our proven JCB CommandPlus cab is fitted as standard on the 435S. The spacious 3.4m³ cab provides excellent all-round visibility and a well laid out, ergonomic interface.





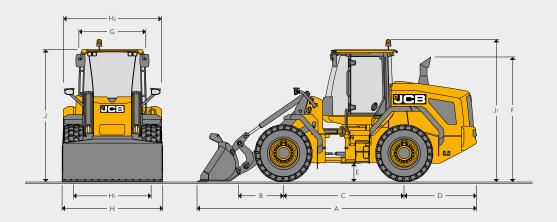
## **OPTIMUM UPTIME**

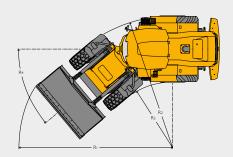
A large single-faced widecore cooling pack with automatic reversing fan removes build up chaff ensuring an optimum working temperature.

# **IMPROVED QUALITY**

Advanced manufacturing techniques, including robot welding, accurate machining and precision paint technology, provide a robust, long-lasting machine.

### STATIC DIMENSIONS





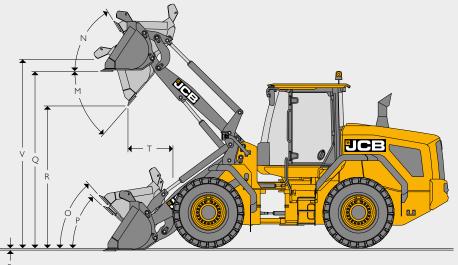
			435S	435S HL
Α	Overall length	mm	7203	7524
В	Axle to pivot pin	mm	1252	1252
С	Wheel base	mm	3050	3050
D	Axle to counterweight face	mm	1841	1841
Е	Minimum ground clearance	mm	491	491
F	Height over exhaust	mm	3154	3154
G	Width over cab	mm	1594	1594
Н	Max width over tyres	mm	2961	2961
ΗΙ	Wheel track	mm	2229	2229
H2	Max width over fenders	mm	2961	2961
J	Height over cab lowered beacon	mm	3742	3742
JI	Height over cab raised beacon	mm	4102	4102
	Pin height (maximum)	mm	3876	4306
	Front axle weight	kg	6200	6424
	Rear axle weight	kg	8766	8733
	Total weight	kg	14966	15157

			435S	435S HL
RI	Maximum turn radius over shovel	mm	5902	6035
R2	Maximum turn radius over tyre	mm	5483	5483
R3	Inside turn radius	mm	2707	2707
R4	Articulation angle	degrees	40	40

 $Data\ based\ on\ machine\ equipped\ with\ Michelin\ 750/65R26\ MegaXBib\ tyres\ and\ direct\ mount\ 1.9m^3\ shovel\ and\ toe\ plate\ with\ auxiliary\ fuel\ tank.$ 

Model			435\$			435S HL													
Shovel mounting			Direct	mount			Quickhitch Grai		Grain shovel		Direct	mount			Quio	khitch		Grain shove	
Shovel type			General	purpose			General	purpose				General	purpose			Genera	l purpose		
Shovel Equipment			Reversibl	e toeplate			Reversibl	e toeplate				Reversible	e toeplate			Reversibl	le toeplate		
Shovel capacity (SAE heaped)	m <sup>3</sup>	1.9	2.1	2.4	2.7	1.9	2.1	2.4	2.7	4.0	1.9	2.1	2.4	2.7	1.9	2.1	2.4	2.7	4.0
Shovel capacity (struck)	m <sup>3</sup>	1.616	1.83	2.057	2.346	1.616	1.83	2.057	2.346	4	1.616	1.83	2.057	2.346	1.616	1.83	2.057	2.346	4
Shovel width	mm	2550	2550	2700	2700	2550	2550	2700	2700	2750	2550	2550	2700	2700	2550	2550	2700	2700	2750
Shovel weight	kg	810	850	1163	1236	810	850	1136	1211	1430	810	850	1163	1236	810	850	1136	1211	1415
Maximum material density	kg/m³	3064	2747	2347	2060	2496	2236	1905	1670	1028	2638	2366	2014	1769	2072	1856	1573	1379	849
Tipping load (straight)	kg	11906	11797	11518	11377	11099	10998	10741	10607	9726	9909	9819	9546	9427	9256	9172	8920	8806	8088
Tipping load (full turn)	kg	11643	11537	11264	11126	9484	9392	9142	9019	8227	10026	9936	9668	9550	7875	7797	7552	7447	6796
Payload	kg	5822	5768	5632	5563	4742	4696	4571	4510	4114	5013	4968	4834	4775	3937	3899	3776	3723	3398
Maximum Breakout Force	kN	138	128	123	115	121	113	106	99	53	138	128	123	115	121	113	106	99	53
Dump angle maximum	degrees	49	49	49	49	49	49	49	49	49	45	45	45	45	45	45	45	45	45
Roll back angle full height	degrees	58	58	58	58	58	58	58	58	58	58	58	60	60	58	58	60	60	60
Roll back carry	degrees	48	48	48	48	48	48	48	48	48	50	50	54	54	50	50	54	54	54
Roll back at ground level	degrees	43	43	43	43	43	43	43	43	43	48	48	45	45	48	48	45	45	45
Load over height	mm	3673	3673	3671	3673	3673	3673	3671	3671	3671	4103	4103	4101	4101	4103	4103	4101	4101	4101
Dump height (45 deg dump)	mm	3005	2957	2921	2857	2909	2836	2800	2737	2175	3435	3387	3351	3287	3339	3266	3230	3167	2605
Dig depth	mm	0	0	0	0	0	0	0	0	0	49	49	49	49	49	49	49	49	49
Reach at dump height	mm	897	963	1011	1070	1003	1069	1088	1146	1547	1059	1109	1011	1070	1165	1231	1088	1146	1146
Pin height	mm	3937	3937	3937	3937	3937	3937	3937	3937	3937	4367	4367	4367	4367	4367	4367	4367	4367	4367
Reach maximum (45 deg dump) horizontal arm	mm	1644	1694	1850	1914	1751	1816	1935	1999	2367	1992	2042	2340	2404	2099	2164	2425	2489	2489
Operating weight		14956	15000	15272	15335	15241	15285	15534	15596	15872	15147	15191	15463	15526	15432	15476	15725	15787	16063

<sup>\*</sup> Assumes machine is fitted with Michelin Mega XBib 750/65R26 tyres, 6 speed transmission and auxiliary fuel tank.



TYRE SIZE									
				43	5S	4359	HL	Dimer	nsions
Tyre size	Manufacturer	Туре	Operating weight (kg)	STL kg	FTTL kg	STL kg	FTTL kg	Vertical mm	Width mm
620/75R26	MICHELIN	MegaXBib	-200	-137	-117	-118	-101	-13	-278

ENGINE		
Manufacturer		Cummins
Model		B Series
Capacity	litres	6.7
Aspiration		Turbo Charged
Cylinders		6
Max gross power to SAE J1995/ISO 14396	kW (hp) @ 1900 rpm	210 (282)
Rated gross power to SAE J1995/ISO 14396	kW (hp) @ 2200 rpm	194 (260)
Nett power to ISO 9249	kW (hp) @ 2200 rpm	191 (257)
Max torque	Nm @1300 rpm	1200
Valves per cylinder		4
Air cleaner		Cyclonic pre filter with engine fan scavenge system
Fan drive type		Hydraulically driven cooling fan
Emissions		Stage V

TRANSMISSION		
	6 Speed LUC	Converter (ZF)
Туре	ZF 6WG210 with	th lock-up engaged
Gear	Forward Dynamic Mode	Reverse Dynamic Mode
l k	h 5.87	6.13
2 k	h 9.18	15.53
3 k	h 14.73	36.68
4 k	h 22.55	-
5 k	h 34.86	-
6 k	h 48	-

<sup>\*</sup> Max road speed limited to 48 kph

AXLES		
Туре	Limited slip differential	Open differential with auto-locking front
Make & Model	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
Rear axle oscillation	+/-8	+/-8
Bias ratio	30%	100% (when locked)

<sup>2</sup> axle options available: Limited slip differentials or Open differentials with automatic locking. All axle options feature wheel speed braking and lower heat build up and longer service life.

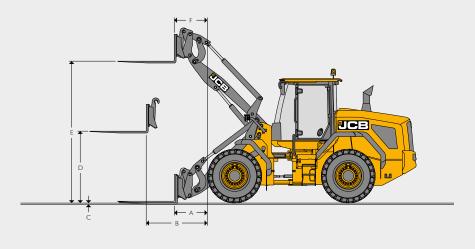
ELECTRICAL SYSTEM		
System voltage	Volt	24
Alternator output	Amp hour	120
Battery capacity	Amp hour	2 x 110

SERVICE FILL CAPACITIES		
Hydraulic system	litres	210
Fuel tank + Auxiliary	litres	400
DEF Tank	litres	75

HYDRAULICS		
Pump type		Twin variable displacement piston pumps
Pump I max. flow	l/min	132
Pump I max. pressure	bar	250
Pump 2 max. flow	l/min	132
Pump 2 max. pressure	bar	160
Hydraulic cycle times at full engine revs		
Arms raise (full bucket)	Seconds	4.7
Bucket dump (full bucket)	Seconds	1.8
Arms lower (empty bucket)	Seconds	2.8
Total cycle	Seconds	9.3

LOA	DER DIMENSIONS WITH FORKS			
			435\$	435S HL
	Fork carriage width	mm	1500	1500
	Length of tines	mm	1220	1220
Α	Reach at ground level	mm	722	1140
В	Reach at arms horizontal	mm	1480	1829
С	Top of tine above ground with arms down	mm	60	-2
D	Arms, horizontal height	mm	1895	1894
Е	Arms, maximum height	mm	3726	4090
F	Reach at maximum height	mm	741	803
	Tipping load straight	kg	7676	7496
	Tipping load full turn (40°)	kg	6586	6410
	Payload*	kg	5269	5128
	Attachment weight	kg	429	430
	Operating weight (includes 75Kg operator and full fuel and Urea tanks)	kg	14886	15078

<sup>\*</sup>At the centre of gravity distance 600mm. Based on 80% of FTTL as defined in ISO 8313. Machine equipped with Michelin 750/65R26 MegaXBib tyres & direct mount 1.9m³ shovel and toe plate with standard fuel tank



# SPECIFICATION 435S WHEEL LOADER

MATERIAL DENSITY		
Material	Loose density	Fill factor
	kg/m³	%
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 bitumous	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

NOISE AND VIBRATION								
			Uncertaincy	Measurement conditions.				
Noise at the operator station	LpA	68 dB	+/- I dB	Determined in accordance with the test method defined in ISO $6396$ and the dynamic test condition defined on $2000/14/EC$ .				
Noise emission from the machine	LWA	104 dB	+/- I dB	Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.				
Whole body vibration	m/s <sup>2</sup>	0.42	+/- 0.11 dB	ISO 2632-1:1997 normalised to an 8h reference period and based upon a test cycle comprising of loader work (soil).				
Hand-arm vibration	m/s <sup>2</sup>	<2.5	N/A	ISO 5349-2:2001 dynamic test conditions.				

#### **BUCKET CAPACITIES** нт 4.85 HT Bucket capacity (m³) F.7 HT HT HL HT HT HL HT 2.1 HT HL HT 1.9 HT HL 500 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600

Material density (kg/m³)

HT = Standard height arm HL = High Lift arm



White noise reverse alarm and light

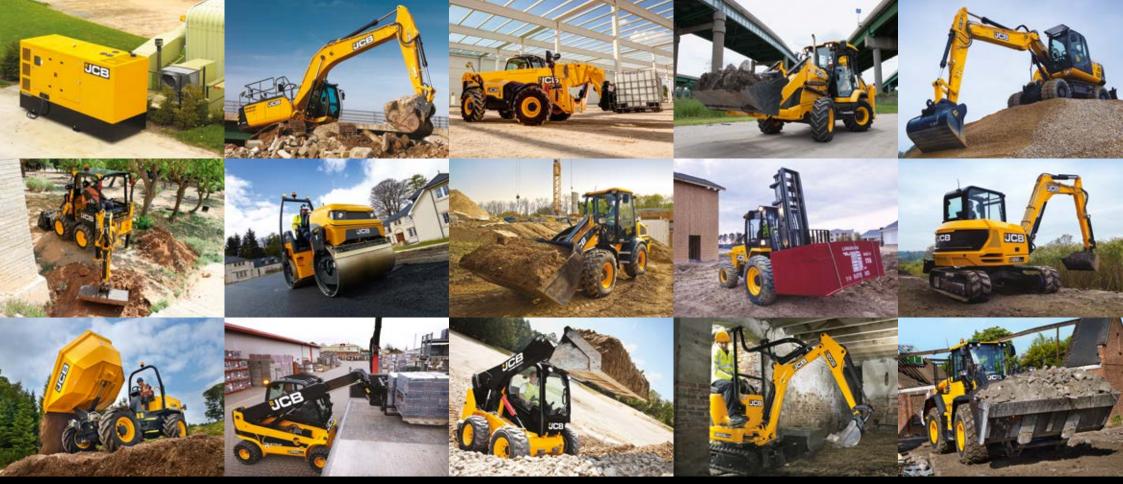
Engine pre-heat

Buzzer alerts Engine air filter blocked Diesel exhaust fluid (DEF) Torque reduction icase of malfunction Amber warning lamp Stop engine Gauge display Engine speed Coolant temperature Fuel level LCD screen display Current gear Stop engine Torque reduction in case of malfunction Amber warning lamp Diesel Exhaust Fluid (DEF) Engine air filter blocked Secondary steer system pressure Torque lockup Steer mode Ground speed Engine Speed (numeric display) Clock Hydraulic state SBS (Smooth ride system) Beacon Front work lamps Heated rear screen Transmission sump temperature Data screens DEF level Hydraulic oil temperature Torque convertor temperature Volume of fuel remaining Total fuel used (resettable) instantaneous fuel use Machine hours Trip Distance (resettable) Hours to Service Daily checks Engine oil level pre start check	EQUIPMENT (CONTINUED)	
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SRS (Smooth ride system)  Beacon  Front work lamps  Rear work lamps  Heated rear screen  Transmission sump temperature  Data screens  DEF level  Hydraulic oil temperature  Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use  Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Clock	•
Beacon Front work lamps Rear work lamps Heated rear screen Transmission sump temperature  Data screens DEF level Hydraulic oil temperature Torque convertor temperature Volume of fuel remaining Total fuel used (resettable) Instantaneous fuel use Average fuel use (resettable) Current date Machine hours Trip Distance (resettable) Hours to Service Daily checks Engine oil level pre start check	Hydraulic state	•
Front work lamps Rear work lamps Heated rear screen Transmission sump temperature  Data screens DEF level Hydraulic oil temperature Torque convertor temperature Volume of fuel remaining Total fuel used (resettable) Instantaneous fuel use Average fuel use (resettable) Current date Machine hours Trip Distance (resettable) Hours to Service Daily checks Engine oil level pre start check	SRS (Smooth ride system)	•
Rear work lamps Heated rear screen Transmission sump temperature  Data screens  DEF level Hydraulic oil temperature Torque convertor temperature Volume of fuel remaining Total fuel used (resettable) Instantaneous fuel use Average fuel use (resettable) Current date Machine hours Trip Distance (resettable) Hours to Service Daily checks Engine oil level pre start check	Beacon	•
Heated rear screen  Transmission sump temperature  Data screens  DEF level  Hydraulic oil temperature  Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use  Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Front work lamps	•
Transmission sump temperature  Data screens  DEF level  Hydraulic oil temperature  Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use  Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Rear work lamps	•
Data screens  DEF level  Hydraulic oil temperature  Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use  Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Heated rear screen	•
Data screens  DEF level  Hydraulic oil temperature  Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use  Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Transmission sump temperature	•
Hydraulic oil temperature  Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use  Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Data screens	
Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	DEF level	•
Torque convertor temperature  Volume of fuel remaining  Total fuel used (resettable)  Instantaneous fuel use Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Hydraulic oil temperature	•
Volume of fuel remaining Total fuel used (resettable) Instantaneous fuel use Average fuel use (resettable) Current date Machine hours Trip Distance (resettable) Hours to Service Daily checks Engine oil level pre start check	Torque convertor temperature	•
Total fuel used (resettable)  Instantaneous fuel use Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Volume of fuel remaining	•
Instantaneous fuel use Average fuel use (resettable) Current date Machine hours Trip Distance (resettable) Hours to Service Daily checks Engine oil level pre start check	Total fuel used (resettable)	•
Average fuel use (resettable)  Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Instantaneous fuel use	
Current date  Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Average fuel use (resettable)	•
Machine hours  Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Current date	•
Trip Distance (resettable)  Hours to Service  Daily checks  Engine oil level pre start check	Machine hours	
Hours to Service  Daily checks  Engine oil level pre start check  •		•
Daily checks Engine oil level pre start check		
Engine oil level pre start check		
	•	
	DEF level	

RIGHT HAND SECONDARY DISPLAY	
Clock	•
Climate control	•
Fan speed	•
In cab temperature set	•
Machine hours	•
Rear view camera	•
Fuel use	•
Time and date	•
Auxiliary flow rate	•
Hydraulic oil temperature	•
Transmission oil temperature	•
Auto engine shutdown	•
Automatic front and rear worklights	•
Machine settings screen	
Coolant temperature	•
Engine oil pressure	•
Air filter	•
Transmission sump temperature	•
Transmission torque convertor temperature	•
Transmission sump temperature	•
Hydraulic oil temperature	•
Park brake pressure	•
Battery voltage	•
Help display	•
On-screen Handbook	•
HYDRAULIC SYSTEM	
Smoothride system (SRS)	•
Hydraulic quick hitch with in cab isolation	•
Auxiliary ARV kit	+
Auxiliary hydraulic service	•
Twin auxiliary hydraulic service	+
Twin piston pumps with priority steer	•
Emergency steer back-up	•
JCB biodegradable hydraulic oil	+
Electronic hydraulic isolation	•
Automatic boom kick-out.	•
Automatic bucket positioner	•
Front loader float	•
Indicator glass for hydraulic oil level	•
Hydraulic oil cooler	•

EXTERNAL EQUIPMENT	
Front and rear fenders	•
Front adjustable mud flaps	•
Front wheel spray guards	•
Rear fender chevrons	•
Full tyre coverage fenders	•
Automatic greasing system	+
Grease gun and cartridge	+
One piece electrical opening bonnet	•
Mesh air intake screens	•
Flexible bottom step	•
Full width rear counterweight	•
Recovery hitch	•
Lifting / tie down lugs	•
Rear counterweight chevrons	+
Folding stainless steel rear step	•
PROTECTIVE EQUIPMENT	
Rear grille guard	+
Fire suppression system	+
Safety strut loader arm	•
Light guards	+
Rear belly guard	•
Articulation joint safety strut	•
OTHER EQUIPMENT	
High lift loader end (HT loader only)	+
Rockinger tow hitch - 38mm Ø pin	+

STANDARD • +



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#### Wheel Loader 435S

Engine power: 282hp (210kW) Operating weight: 15,534kg Tipping load: 9,142kg Standard shovel capacity: 2.4m³

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