SPECIFICATION

435S WHEEL LOADER

UNSTOPPABLE FORCE

JCB

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 and 1350Nm torque, 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?

UNRIVALLED PRODUCTIVITY

Choose between Standard Power Mode (230hp/171kW) for greater fuel efficiency, or Dynamic Power Mode (282hp/210kW) for increased productivity.

INCREASED VERSATILITY

The 435S is available with both standard lift and high lift arms. An optional tow hitch 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.

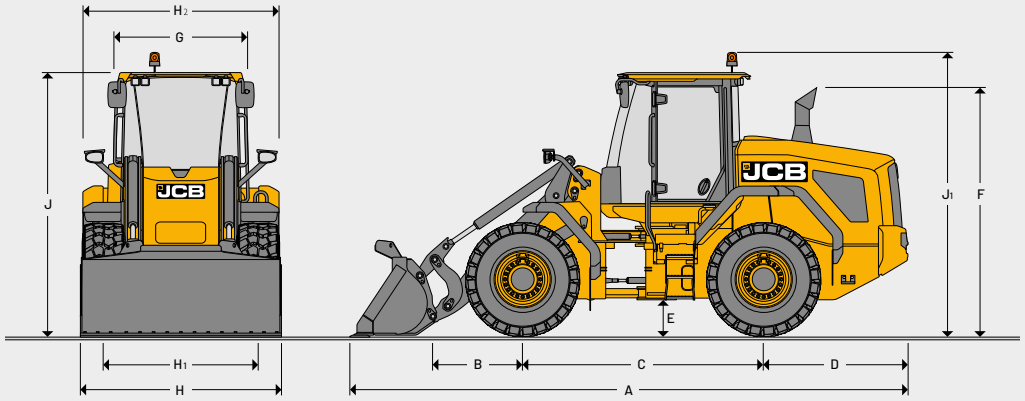
OPTIMUM UPTIME

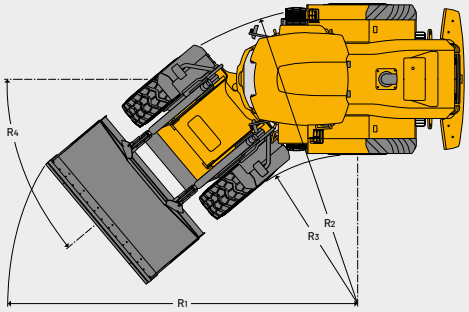
A large single-faced widecore cooling pack with automatic reversing fan removes build up chaff ensuring an optimum working temperature.

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
A	Overall length	mm	7203	7524
B	Axle to pivot pin	mm	1252	1252
C	Wheel base	mm	3050	3050
D	Axle to counterweight face	mm	1841	1841
E	Minimum ground clearance	mm	491	491
F	Height over exhaust	mm	3154	3154
G	Width over cab	mm	1594	1594
H	Max width over tyres	mm	2961	2961
H1	Wheel track	mm	2229	2229
H2	Max width over fenders	mm	2961	2961
J	Height over cab lowered beacon	mm	3373	3373
J1	Height over cab raised beacon	mm	3742	3742
	Pin height (maximum)	mm	3876	4306
	Front axle weight	kg	6200	6424
	Rear axle weight	kg	8766	8733
	Total weight	kg	14966	15157

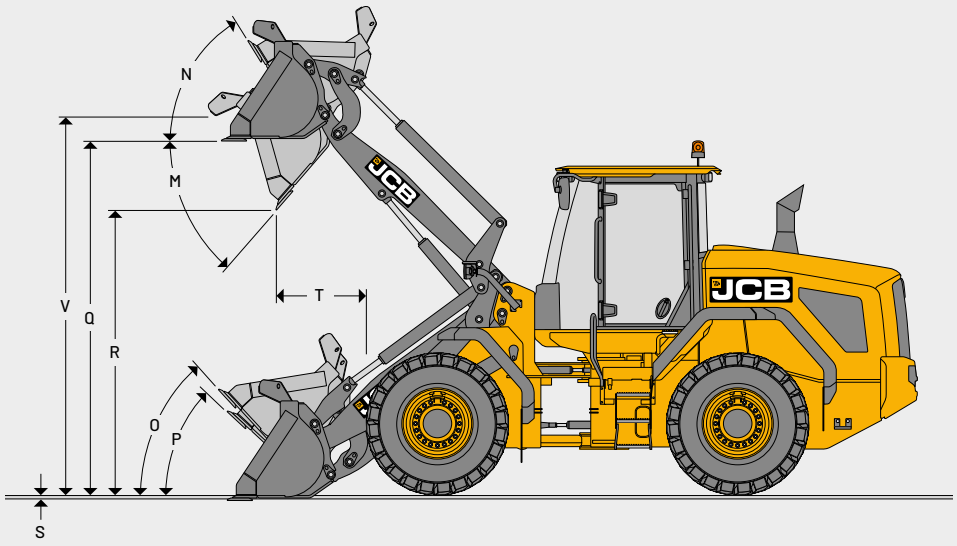
			435S	435S HL
R1	Maximum turn radius over shovel	mm	5902	6035
R2	Maximum turn radius over tyre	mm	5483	5483
R3	Inside turn radius	mm	2707	2707
R4	Articulation angle	degrees	+/- 40	+/- 40

Data based on machine equipped with Michelin 750/65R26 MegaXBib tyres and direct mount 1.9m³ shovel and toe plate with auxiliary fuel tank.

LOADER DIMENSIONS 435S

	Model		435S				435S HL				
	Shovel mounting		Quickhitch				Quickhitch				Grain shovel
	Shovel type		General purpose				General purpose				
	Shovel Equipment		Reversible toeplate				Reversible toeplate				
	Shovel capacity (SAE heaped)	m^3	1.9	2.1	2.4	2.7	1.9	2.1	2.4	2.7	4.0
	Shovel capacity (struck)	m^3	1.62	1.83	2.06	2.35	1.62	1.83	2.06	2.35	4
	Shovel width	mm	2550	2550	2700	2700	2550	2550	2700	2700	2750
	Shovel weight	kg	810	850	1136	1211	810	850	1136	1211	1415
	Maximum material density	kg/m^3	2496	2236	1905	1670	2072	1856	1573	1379	849
	Tipping load (straight)	kg	11099	10998	10741	10607	9256	9172	8920	8806	8088
	Tipping load (full turn)	kg	9484	9392	9142	9019	7875	7797	7552	7447	6796
	Payload	kg	4742	4696	4571	4510	3937	3899	3776	3723	3398
	Maximum Breakout Force	kN	121	113	106	99	121	113	106	99	53
M	Dump angle maximum	degrees	49	49	49	49	45	45	45	45	45
N	Roll back angle full height	degrees	58	58	58	58	58	58	60	60	60
O	Roll back carry	degrees	48	48	48	48	50	50	54	54	54
P	Roll back at ground level	degrees	43	43	43	43	48	48	45	45	45
Q	Load over height	mm	3673	3673	3671	3671	4103	4103	4101	4101	4101
R	Dump height (45 deg dump)	mm	2909	2836	2800	2737	3339	3266	3230	3167	2605
S	Dig depth	mm	0	0	0	0	49	49	49	49	49
T	Reach at dump height	mm	1003	1069	1088	1146	1165	1231	1088	1146	1146
V	Pin height	mm	3937	3937	3937	3937	4367	4367	4367	4367	4367
	Reach maximum (45 deg dump) horizontal arm	mm	1751	1816	1935	1999	2099	2164	2425	2489	2489
	Operating weight		15241	15285	15534	15596	15432	15476	15725	15787	16063

** Assumes machine is fitted with Michelin MegaXBib 750/65R26 tyres, 6 speed transmission and auxiliary fuel tank.*



TYRE SIZE

				435S		435S HL		Dimensions	
Tyre size	Manufacturer	Type	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	1350
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)	
Type		ZF 6WG210 with lock-up engaged	
Gear		Forward Dynamic Mode	Reverse Dynamic Mode
1	kph	5.87	6.13
2	kph	9.18	15.53
3	kph	14.73	36.68
4	kph	22.55	–
5	kph	34.86	–
6	kph	48	–

** Max road speed limited to 48 kph.*

AXLES		
Type	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)

2 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.

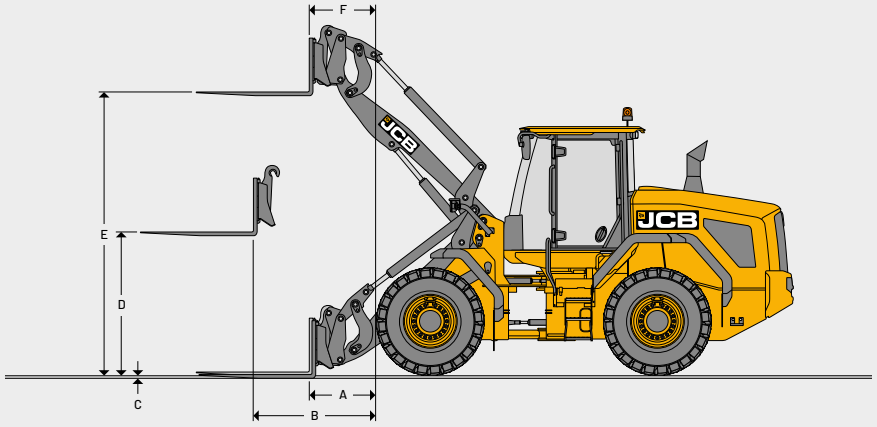
ELECTRICAL SYSTEM		
System voltage	Volt	24
Alternator output	Amp hour	120
Battery capacity	Amp hour	2 x 110

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 1 max. flow	l/min	140
Pump 1 max. pressure	bar	250
Pump 2 max. flow	l/min	140
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

LOADER DIMENSIONS WITH FORKS				
			435S	435S HL
	Fork carriage width	mm	1500	1500
	Length of tines	mm	1220	1220
A	Reach at ground level	mm	722	1140
B	Reach at arms horizontal	mm	1480	1829
C	Top of tine above ground with arms down	mm	60	-2
D	Arms, horizontal height	mm	1895	1894
E	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

** 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 with standard fuel tank.*



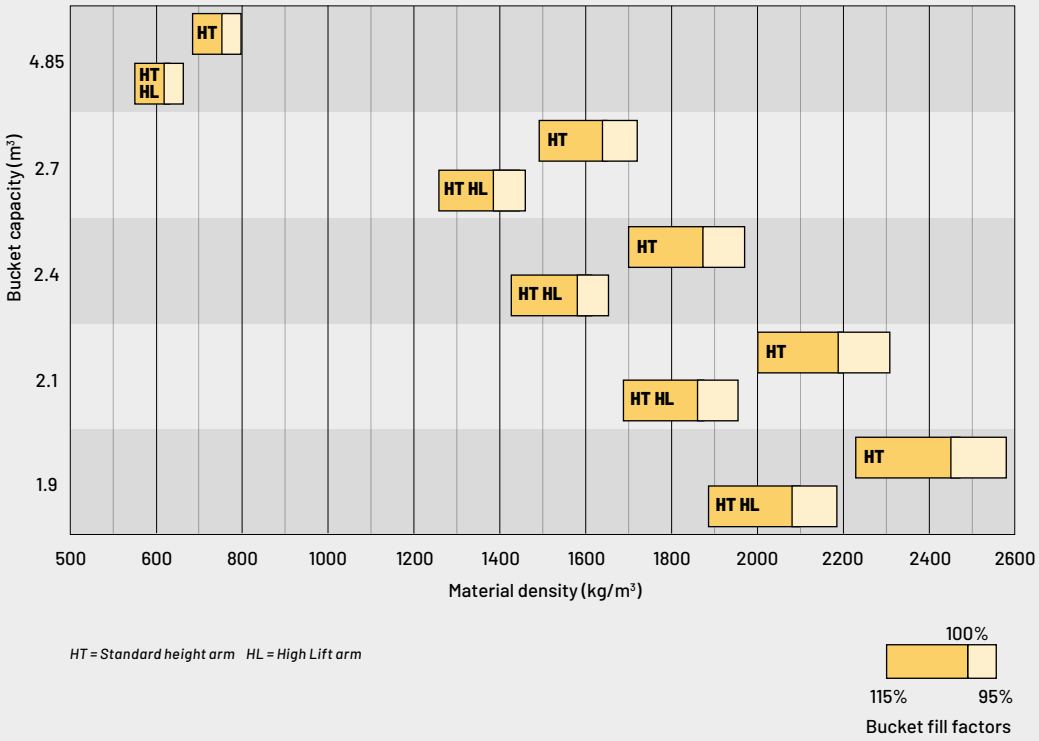
MATERIAL DENSITY

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	+/- 1 dB	Determined in accordance with the test method defined in ISO 6396 and the dynamic test condition defined on 2000/14/EC.
Noise emission rom the machine	LWA	104 dB	+/- 1 dB	Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.
Whole body vibration	m/s²	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/s²	<2.5	N/A	ISO 5349-2:2001 dynamic test conditions.

BUCKET CAPACITIES



EQUIPMENT

SERVICE AND MAINTENANCE	
LiveLink telematics	•
Engine oil remote drain and fill	•
Grouped pressure test points	•
Lockable tool box	•
Lubrication points accessible from ground level	•

ENGINE	
Air cleaner – cyclonic pre filter with engine fan scavenge system	•
Automatically reversing cooling fan	•
Crankcase breather oil trap	•
DEF fluid	•
Electrical opening rear bonnet	•
Epoxy coated radiator / coolers	+
Fixed mounted fan	•
Fuel filter	•
Fuel pre-filter with water trap	•
Hydraulically driven cooling fan	•
Manual override rear bonnet opening	•
-20° cold start	•
DOC / DPF / SCR Exhaust emission control	•
Swing out fan	•
Waste gated turbo	•
Widecore radiator	•
Auto engine idle shut down timer (in cab adjustable)	•

ELECTRICAL	
120 amp alternator	•
Amber rotating beacon	•
Electrical adjustable mirrors	•
Heated mirrors	•
External battery isolator	•
Fold down beacon arm	•
Green seatbelt beacon	+
360 degree work lights	•
Hazard warning lights	•
Integrated rear view camera	•
Number plate light kit	•
Parking lights	•
Radio	•
Radio wiring and speakers	•
Rear fog light	•
Reverse alarm and light	•
Reversing object detection system	+
Road lights front and rear	•
Smart reverse alarm and light	•
Turn signals	•
White noise reverse alarm and light	+

ELECTRICAL (CONTINUED)	
Work lights in rear grille	•
Bonnet operation alarm	•
Blue LED reverse lights	•
Amber LED reverse lights	+
24v Trailer electrics	+
12v Trailer electrics	+

DRIVE TRAIN	
Operator controlled driving modes - Standard & Dynamic	•
6 speed transmission with lock-up torque converter	•
Epicyclic wheel hub reduction	•
Fixed front axle	•
Gear kick down on loader control lever	•
Indicator glass for transmission oil level	•
Loader lever direction control	•
Neutral start	•
Limited slip differentials front and rear	+
Open differential with automatic locking -100% (front axle only)	+
Oscillating rear axle	•
Power-inch intelligent clutch cut off on footbrake (selectable)	•
Selectable automatic power shift	•
Speed limiter 48 km/h	•
Steering column single lever shift control (direction and gear)	•
Transmission cooler bypass	•

BRAKE SYSTEM	
Multi-plate wet disc brakes	•
Sintered brake pads	•
Dual circuit hydraulic power	•
Wheel speed braking	•
Parking disc brake on transmission output shaft	•
Electrical hydraulic park brake actuation	•
Trailer brake hydraulic supply	+

OPERATOR STATION	
Fully glazed cab	•
Climate control	•
Single lever joystick	•
Multi-lever hydraulic controls	+
Proportional electro hydraulic auxiliary control	+
JCB INTELLIWEIGH	+
Lever Steer	+
Super deluxe heated & cooled air suspension half leather seat	•
Front roller blind	•
Rear roller blind	•
Cab air intake filter	•

OPERATOR STATION (CONTINUED)	
Carbon cab air intake filter	+
12V in cab power socket	•
2 x 12V in cab power socket	•
24V in cab power socket	+
Reversing camera (colour)	•
Fold away adjustable steering column	•
ROPS/FOPS safety structure	•
Interior light	•
Front primary display screen	•
Secondary A post display screen, rotary control menu interface	•
A post mounted membrane switches	•
Variable fan speed control on climatic control system	•
50 mm seatbelt	•
75 mm seat belt	+
Fire extinguisher (UK only)	•
Two speed intermittent front windscreen wipe/wash and self-park	•
Single speed rear windscreen wipe/wash and self-park	•
3 speed heater/demisting	•
LH and RH sliding opening windows	•
Floor mat	•
Cup holder	•
Steering wheel spinner knob	•
Internal rear view mirror	•
Tinted cab glass	•
Multi-media port (USB and 3.5mm)	•
Operator stowage	•
Laminated windscreen	•
Heated rear screen	•
Loader control isolator	•
Horn	•
Adjustable armrest	•
Removable storage rubber mats	•
Adjustable seat mounted controls	•

FRONT PRIMARY DISPLAY	
Warning lights	
Direction indicators	•
Master warning	•
High coolant temperature	•
Battery charging condition	•
Low fuel level	•
Engine oil pressure	•
Hazard lamps	•
Park brake state	•
Road lights	•
Main beam lights	•
Rear fog lights	•
Engine pre-heat	•

EQUIPMENT (CONTINUED)

FRONT PRIMARY DISPLAY (CONTINUED)	
Brake system pressure	•
Differential lock	•
Low steering pressure	•
Buzzer alerts	
Engine air filter blocked	•
Diesel exhaust fluid (DEF)	•
Torque reduction in case 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	•
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	•
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 •
OPTIONAL +

JCB
435S
MICHELIN
MEGAX BIB

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435
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MICHELIN
MICHELIN

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435S WHEEL LOADER

UNSTOPPABLE FORCE

JCB, Rocester, Staffordshire, United Kingdom ST14 5JP. Tel: +44 (0)1889 590312. salesinfo@jcb.com. www.jcb.com

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