

FELLER BUNCHERS

643K/843K WHEELED



JOHN DEERE



It's time to work.

Meet the K-Series Wheeled Feller Bunchers. So tough, so robust, and proven to be reliable — the K-Series Wheeled Feller Bunchers are real go-getters in the woods. All to boost your uptime. Robust hydraulic and electrical systems, air-intake design, and front and rear 1400 heavy-duty axles see to that. It's all so you can put a fast and dependable work-horse on your team. One that delivers increased production, maximum uptime, and lower daily operating costs. And by adding a new FD55 felling head to your 643K or 843K Feller Buncher, you'll increase bunching and cutting versatility for trees of all diameters and mixed stands.

Fast ground speed and saw recovery jump-start the wood flow going to the landing.

Heavy-duty axles and other performance-boosting features deliver stability and hill-climbing power under the toughest circumstances.

Durable, reliable hydraulic and electrical plumbing keeps your cutter cutting — so you can focus on business.

Smooth controls and a quiet cab keep you comfortable and productive on long workdays.

Designed with extensive customer input, the new FD55 felling head delivers superior accumulation, for the ultimate in versatility.





Specifications	643K	843K
Engine	130-kW (174 hp) John Deere 6068H turbocharged diesel	168-kW (225 hp) John Deere 6068H turbocharged diesel
Transmission	Infinitely variable hydrostatic with 2-speed gearbox	Infinitely variable hydrostatic with 2-speed gearbox
Steering	Frame articulation: 84-deg. stop-to-stop; telescopic, tilt steering wheel or single-lever joystick	Frame articulation: 84-deg. stop-to-stop; telescopic, tilt steering wheel or single-lever joystick
Axles	Hydraulic lock, operated on-the-go front and rear	Hydraulic lock, operated on-the-go front and rear
Disk Saw Felling Heads	FD45 twin post/FD22B single post/FD55 twin post	FD22B single post/FD55 twin post

Top performer, top to bottom.

Take a walk around a K-Series machine, and you'll see that it means business.
And just imagine what that means for your business.





Heavy-duty axles. Exclusive to John Deere, TeamMate IV™ 1400 Heavy-Duty (HD) axles, both front and rear, deliver the tractive effort and stability your cutter needs to climb hills.

Optional Super-Wide Extreme-Duty Axles (SWEDA™). Massive housing, bigger axle, and larger-diameter hubs with thicker wheel flanges deliver durability when running duals in wet ground. Choose SWEDA for front axles only or for both front and rear.

Performance-minded heads. High-performing heads are both durable and precise.

Hydraulically reversing cooling fan. Automatically blows pine straw and leaves off the grill screen for better airflow into the engine, allowing it to run much cooler. Sucker fan is designed to draw air through the rear and out the sides to significantly reduce buildup under the cab and around the engine manifold.


Light package. Standard on all K-Series models, these lights make early mornings and late nights on the job a lot easier on the operator's eyes.

Standard JDLink™ machine-monitoring system. How's your wheeled feller buncher's fuel efficiency? Has it changed over time? When is the machine due for maintenance? Log into your account on the JDLink website and find answers that will help you better manage your business.

Digital saw-speed indicator allows operators to see a digital readout on the Standard Display Monitor (SDM) for reference.

JDLink provides location, diagnostic alerts, and machine- and saw-utilization data to help customers keep their machines at optimal performance.

In-cab saw-speed rpm indicator is a green light that signals the operator when the saw rpm has reached top speed and is ready to cut. Speed settings are adjustable to your operator and jobsite needs.

A yellow John Deere FD55 felling head is shown in a forest, cutting through a large tree trunk. The machine is positioned on the right side of the frame, with the tree trunk extending from the top left towards the center. The background is filled with tall, thin trees and green foliage. The text "FD55" is visible on the side of the machine's housing.

Please excuse us for letting maximum productivity go to our head.

Delivering outstanding accumulation capacity, our new FD55 felling head gives you the versatility you need to be highly productive, whether you're working with large- or small-diameter trees or in mixed stands. Developed with extensive customer input, the FD55 features a new larger pocket and taller horn that increase productivity and maximize stability. It's not only a great bunching head — its wider cutting capacity also allows it to cut large-diameter trees in final harvests. With TECHNODUR® wear plates protecting critical areas of the saw housing, this durable felling head won't let you down. Heavy-duty blade and rugged components that are easy to maintain, along with a proven chip-management system, ensure long life.



New FD55 felling head delivers superior mixed-stand accumulation capacity, for more versatility in handling everything from small-diameter thinning to cutting large single stems up to 584 mm (23 in).

The felling head's compact, streamlined design provides superior visibility around the saw motor to the cutting zone for maximum productivity, especially in multiple-tree harvesting.

Tall horn structure positions the centerline of large stems over the machine, optimizing the center of gravity for maximum stability and control when harvesting large trees.

Efficient arm design — one harvesting arm and one accumulating arm — ensures tight tree alignment in the pocket and clean bunch release.

Clamp cylinders are mounted higher, enabling cleaner operation and easier maintenance access. The frame is reinforced for protection against clamp cylinder forces.

The top of the saw housing contains no moving components that can be damaged by debris. Rugged motor and plumbing guard are also simply and efficiently designed to ensure maximum reliability.

A gate blocks chips from entering the saw housing, preventing clogging. Wide-open exit area further prevents buildup.

The most comfortable seat in the woods.

This cab is a keeper — so comfortable it will keep you in the woods working. Each K-Series cab is welcoming and spacious, as well as efficiently designed for maximum productivity. You'll appreciate the clear and expansive sight lines, the air-ride suspension seat, and the well-lit Standard Display Monitor (SDM). Instantly check your saw-speed rpm to know when the cutting can begin. The SDM also lets you check your saw speed, fuel levels, and temperature — without bringing work to a standstill.

Standard equipment includes AM/FM radio and CD player with remote-mounted speakers.

Air conditioning with vents placed in front of and around the operator delivers the utmost in operator comfort. Fresh air filter is easily accessible from the ground.

The option of armrest-mounted joystick levers or traditional steering wheel is available depending on customer preference.

Air-ride suspension seat is standard on K-Series machines for superior operator comfort and productivity. Fully adjustable suspension seat, armrests and backrest, and joysticks strategically located near the armrests provide additional operator comfort.

The comfortable and spacious cab includes plenty of easily accessible storage areas.





1. SDM and other easy-to-read gauges make it easy to keep track of your fuel and engine temperature, and are designed and located for your operator's ergonomic comfort.
2. Tinted polycarbonate windows provide an unobstructed view to the rear tires and bumper. At 25 x 18 in., the skylight is one of the industry's largest, giving the operator better visibility and a third exit. Side windows slide open.
3. Joysticks with smooth, responsive hydraulics require less effort from the operator, which means better control and less fatigue. And operators get a more comfortable grip when traveling through the woods.



A feller buncher built so well, it cuts down downtime, too.

When it comes to felling production, it's all about time. Time that should be spent cutting, not waiting. That's why the K-Series offers fast saw-speed recovery, effective load handling, and exceptional accumulating capacities — all to keep you running. Because, at the end of the day, what the K-Series really delivers is maximum uptime.



Hydraulic hoses have a simplified routing pattern and are better protected for greater hose longevity. New articulation plumbing routings provide added protection from falling debris.

SDM provides an at-a-glance, in-cab view of machine health.

Tilt-cylinder guard and plumbing ensure solid hose connections.

Switches are positioned for optimal ergonomics and reliability.

Electrical routings are centralized in the load-center compartment and easily accessible behind the secondary door.

Closed-circuit differential lock is simplified and, by design, axle oil is not shared with any system, which improves oil quality. Diff-lock has 200-percent more capacity than J-Series axles to get you out of the toughest muddy spots.

Pilot and pump manifold leverage reliable components. High- and low-pressure manifold circuits are separated, resulting in lasting durability.

Felling Head	643K	643K / 843K	643K / 843K
Attachment	FD45 DSFH – Twin Post	FD22B DSFH – Single Post	FD55 DSFH – Twin Post
Maximum Cutting Capacity	508 mm (20.0 in.)	559 mm (22.0 in.)	584 mm (23.0 in.)
Maximum Accumulation Capacity	0.65 m ² (7.0 sq. ft.)	0.48 m ² (5.2 sq. ft.)	0.63 m ² (6.8 sq. ft.)
Opening at Front of Housing	864 mm (34.0 in.)	1290 mm (50.8 in.)	1033 mm (40.7 in.)
Blade Diameter	1346 mm (53.0 in.)	1422 mm (56.0 in.)	1473 mm (58.0 in.)
Number of Teeth	18	18	18
Width at Saw Housing	1582 mm (62.3 in.)	1618 mm (63.7 in.)	1651 mm (65.0 in.)
Height	2515 mm (99.0 in.)	3068 mm (120.8 in.)	2954 mm (116.3 in.)
Weight (no blade cover or tilt links)	2424 kg (5,345 lb.)	3071 kg (6,770 lb.)	2971 kg (6,550 lb.)

Nothing runs like a Deere. Because nothing else is built like it.

The K-Series is designed to minimize maintenance and daily operating costs. Enabled by the tilting cab, service and maintenance are faster and easier than ever. A proven routing pattern for hydraulic and electrical plumbing prevents most rubs and leaks, for greater hose longevity. And, with closed-center diff-lock, extended oil and axle-service intervals, and a reversible cooling fan to shed debris, maintenance is easy. With the K-Series, you'll stay in the clear, both under the cab and around the engine.



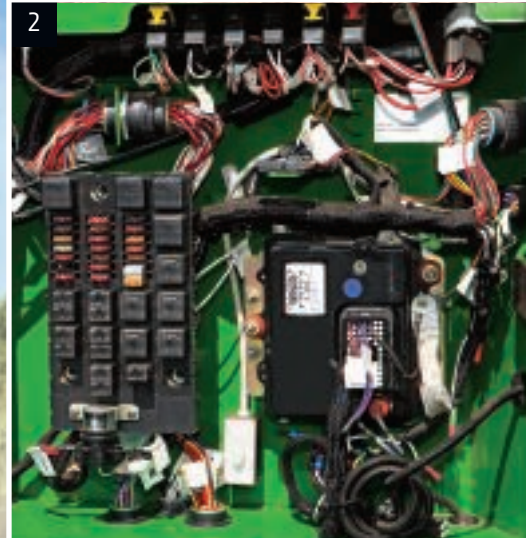
Tilting cab makes access to vital components and the engine easier.

Less debris buildup. Special plumbing design protects against debris and costly under-the-cab buildup.

Diff-lock actuation system. With a closed-center diff-lock, fewer components and cleaner axle oil lead to better durability — and getting out of tough spots is quicker and easier.

Hydraulic oil-change interval at 2,000 hours means less maintenance.

Reduced clogging. The air-intake design minimizes the impact of debris and buildup under the hood. The machine runs cooler, so your time in the woods is spent working, not waiting.



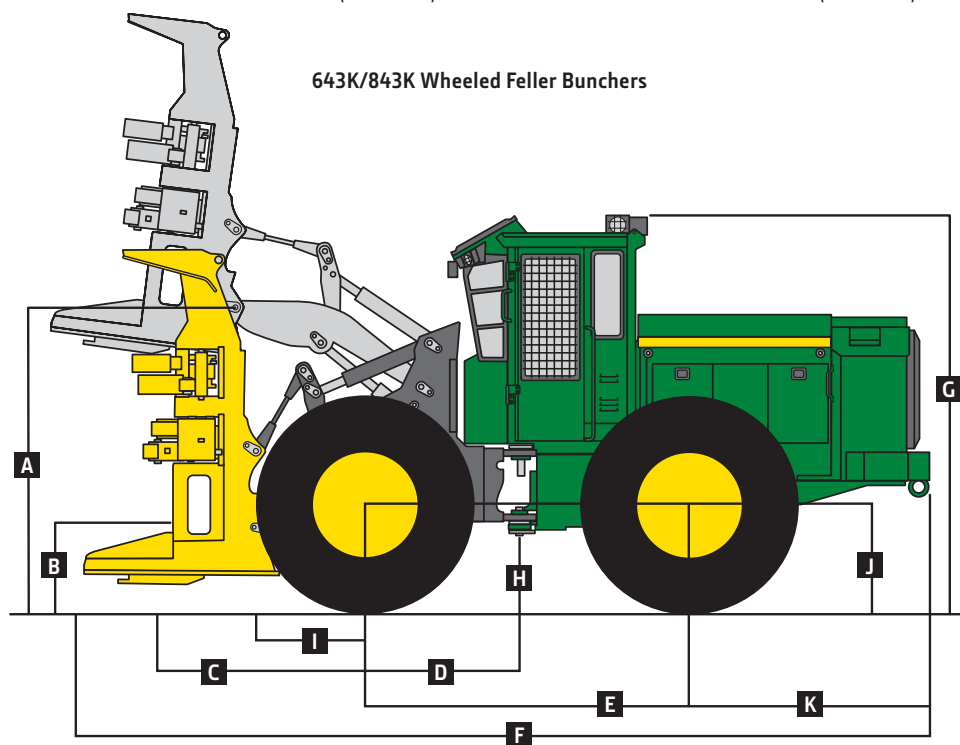
1. Automatic reversible cooling fan keeps debris buildup to a minimum — blowing leaves and other debris off the grill — keeping the engine running cooler, and eliminating the downtime usually needed for maintenance.
2. Load-center compartment, located behind the secondary door exit, gives quick and easy access to fuses and relays.
3. Extended axle-service intervals reduce downtime and daily operating costs.
4. Swing-out A/C condenser allows easy cleaning of the hydraulic oil cooler, radiator, and charge air cooler. Side-by-side coolers make for easy cleaning.

643K / 843K

Engine	643K	843K	
Manufacturer and Model	John Deere PowerTech™ 6068H	John Deere PowerTech 6068H	
Non-Road Emission Standards	EPA Tier 2/EU Stage II	EPA Tier 2/EU Stage II	
Engine Displacement	6.8 L (414 cu. in.)	6.8 L (414 cu. in.)	
Aspiration	Turbocharged, charge air cooled	Turbocharged, charge air cooled	
Gross Power (ISO14396)	130 kW (174 hp) @ 2,200 rpm	168 kW (225 hp) @ 2,200 rpm	
Slope Operation, Maximum Angle	0 deg.	0 deg.	
Cooling	643K / 843K		
Fan Drive	Hydraulic reversing fan		
Powertrain	Infinitely variable hydrostatic with 2-speed gearbox		
Steering	Steering wheel with telescopic and tilt column and spinner knob		
Frame Articulation, Stop to Stop (28L tires)	84-deg. total		
Optional	Lever steering		
Number of Gears			
Forward	2		
Reverse	2		
Maximum Speed with 28L-26 Tires			
Low Range	8.0 km/h (5.0 mph)		
High Range	17.3 km/h (10.8 mph)		
Axles			
Rear Axle Oscillation, Stop to Stop	24 deg.		
Transmission	4.14 / 1.613		
Axle Ratio	32.915		
Differentials	Hydraulic locking		
Final Drive	Heavy-duty inboard planetary		
Brakes			
Service	Long-life, inboard-mounted, wet-disc, oil-cooled, self-adjusting and self-equalizing front axle		
Parking	Automatic spring-applied, hydraulically released, sealed and lubricated, wet multi-disc driveline mounted		
Hydraulics			
Implement Functions	Axial-piston, variable-displacement, open-circuit pump; closed-center pilot-controlled load-sensing valves		
Saw	Axial-piston, variable-displacement, open-circuit pump and motor		
Fan	Hydraulic		
Ground Drive	Axial-piston, variable-displacement, open-circuit pump and motor		
Cylinders			
Lift Arm (2)			
Bore	100 mm (3.9 in.)		
Rod Diameter	56 mm (2.2 in.)		
Stroke	485 mm (19.1 in.)		
Closed Length	851 mm (33.5 in.)		
Head Tilt (2)			
Bore	100 mm (3.9 in.)		
Rod Diameter	56 mm (2.2 in.)		
Stroke	523 mm (20.6 in.)		
Closed Length	896 mm (35.3 in.)		
Electrical System			
Voltage	12 volt		
Batteries	2 x 12 volt		
Tires and Ground Pressure	643K	843K	
Data is for saw-equipped unit, tires inflated to recommended pressures, and 76-mm (3 in.) ground penetration			
28L-26 14 PR Standard	73.1 kPa (10.6 psi)	77.2 kPa (11.2 psi)	
30.5-32 Optional	61.4 kPa (8.9 psi)	64.1 kPa (9.3 psi)	
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Refill Capacities		643K / 843K	
Cooling System		34.06 L (36 qt.)	
Fuel Tank		318 L (84 gal.)	
Hydraulic Reservoir and Filters		265 L (70 gal.)	
2-Speed Gearbox		4.92 L (5.2 qt.)	
Pump-Drive Gearbox		4.73 L (5.0 qt.)	
Operating Weights		643K	843K
Approximate Weight Includes Standard Equipment, Less Felling Head		12 696 kg (27,990 lb.)	12 696 kg (27,990 lb.)
With Shear FB20		15 554 kg (34,290 lb.)	N/A
With Continuous FD45 Saw		15 186 kg (33,479 lb.)	N/A
With Continuous FD22B Saw		15 876 kg (35,000 lb.)	15 876 kg (35,000 lb.)
With Continuous FD55 Saw		15 733 kg (34,685 lb.)	15 733 kg (34,685 lb.)
Dimensions			
A	Maximum Height at Saw-Head Attaching Pin	2480 mm (8 ft. 2 in.)	2480 mm (8 ft. 2 in.)
B	Ground to Saw-Head Attaching Pin (skis on ground)		
	With FD45	604 mm (24 in.)	N/A
	With FD55	606 mm (24 in.)	606 mm (24 in.)
	With FD22B	676 mm (27 in.)	676 mm (27 in.)
C	Front Axle to 508-mm (20 in.) Tree Centerline		
	With FD45	2005 mm (6 ft. 7 in.)	N/A
	With FD55	1806 mm (5 ft. 11 in.)	1806 mm (5 ft. 11 in.)
	With FD22B	1976 mm (6 ft. 6 in.)	1976 mm (6 ft. 6 in.)
D	Machine Articulation to Front Axle	1346 mm (4 ft. 5 in.)	1346 mm (4 ft. 5 in.)
E	Wheelbase	2794 mm (9 ft. 2 in.)	2794 mm (9 ft. 2 in.)
	Overall Width with 711-mm (28 in.) Tires (1400 axles)	2913 mm (9 ft. 7 in.)	2913 mm (9 ft. 7 in.)
F	Overall Length	7405 mm (24 ft. 4 in.)	7405 mm (24 ft. 4 in.)
G	Overall Height	3246 mm (10 ft. 8 in.)	3246 mm (10 ft. 8 in.)
H	Ground Clearance	484 mm (19 in.)	484 mm (19 in.)
I	Saw-Head Attaching Pin to Axle (skis on ground)		
	With FD45	880 mm (35 in.)	N/A
	With FD55	880 mm (35 in.)	880 mm (35 in.)
	With FD22B	930 mm (3 ft. 1 in.)	930 mm (3 ft. 1 in.)
J	Ground to Axle	741 mm (29 in.)	741 mm (29 in.)
K	Rear Axle to Rear of Unit	2110 mm (6 ft. 11 in.)	2110 mm (6 ft. 11 in.)



John Deere

REMAN components
aren't **REBUILT**, they're

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COMPONENTS

FUEL PUMPS &
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AXLES

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COMPONENTS

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