

FELLER BUNCHERS

643K/843K WHEELED



JOHN DEERE



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

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.

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



It's time to work.

Meet the new 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. The 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 workhorse on your team. One that delivers increased production, maximum uptime, and lower daily operating costs. And, with the addition of JDLink™, the innovative Deere machine-monitoring system, you'll stay on top of productivity, too.



643K

843K

Engine	189-hp (141 kW) gross power John Deere 6068H turbocharged diesel	243-hp (181 kW) gross power John Deere 6068H turbocharged diesel
Transmission	Infinitely variable hydrostatic with two-speed gearbox	Infinitely variable hydrostatic with two-speed gearbox
Steering	Frame articulation: 90-degree stop to-stop; telescopic, tilting steering wheel or single-lever joystick	Frame articulation: 90-degree stop-to-stop; telescopic, tilting steering wheel or single-lever joystick
Wheelbase	110 in. (2794 mm)	110 in. (2794 mm)
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	FD22B single 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.

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

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.



AM/FM radio and CD player with remote-mounted speakers. Includes plug-n-play-ready mounting system for your own CB, too.

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.

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

Tinted polycarbonate windows provide an unobstructed view to the rear tires and bumper. At 25 x 18 inches, the skylight is one of the industry's largest, giving the operator better visibility and a third exit. Side windows slide open.

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.

Lever or wheel steering available.

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.

Saw speed indicator light is an easy-to-see green light that tells the operator when the saw is ready to cut. Adjust the light indicator according to current timber size.

Plenty of easily accessible storage areas.



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.



Felling Head Options

643K

843K

Disk Saw Felling Heads	FD45 twin post FD22B single post	FD22B single post
Weight	4,800 lb. (2200 kg)	6,640 lb. (3012 kg)
Cutting Capacity	20 in. (51 cm)	22 in. (56 cm)
Accumulating Capacity	6.9 sq. ft. (0.64 m ³)	5.17 sq. ft. (0.48 m ³)



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.

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 the J-Series axles to get you out of the toughest muddy spots.

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

Switches are positioned for optimal ergonomics and reliability.

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

Tilt-cylinder guard and plumbing ensure solid hose connections.

Put an end to guesswork with JDLink.



And there's JDLink. Now, you can pinpoint highly productive — or unproductive — pockets within minutes of logging on to your computer. With this information, you can make adjustments to your machines and operators to improve productivity. Begin with the basics, like monitoring machine usage and location, then move to more advanced functions, fuel consumption, efficiency, saw speeds, engine load, and more. JDLink tracks it all to help you make the most of the bottom line — and to help ensure that everyone from the operator to the comptroller is getting the best out of the machine.

Through a secure website and text alerts, you'll know:

- Fuel information — Consumption rates
- Machine utilization — When operators are actively felling, when machine is idling, and when it's turned off
- Saw speed
- Alerts operator that cutter needs attention
- Tracking saw-speed utilization and fuel efficiency over time will help you understand when to replace saw teeth



Maximize your productivity. At all times, from anywhere.

Whether you are in the woods or back at the office, you can still maximize impact at your jobsite. That's why the K-Series is outfitted with standard and optional equipment that will help improve your bottom line. The SDM's digital saw-speed indicator is electrically monitored. At 950 rpm, a green light tells you the saw is ready to cut. You can adjust this threshold indicator based on the size of the timber you're cutting. It doesn't get any more precise and reliable than that.



Optional JDLink provides location, diagnostic alerts, machine- and saw-utilization data that helps customers keep their machine 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.

Digital saw-speed indicator allows operators to see a digital readout on the SDM for reference.

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



The K-Series is designed to keep your daily operating costs low and your maintenance efforts manageable. Hinging around the tilting cab, service and maintenance is 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.

Load-center compartment, located behind the secondary door exit, gives quick and easy access to fuses and relays.

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.

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.

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.

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

Extended axle-service intervals. These durable axles keep going for 1,000 to 2,000 hours between scheduled maintenance intervals.

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.

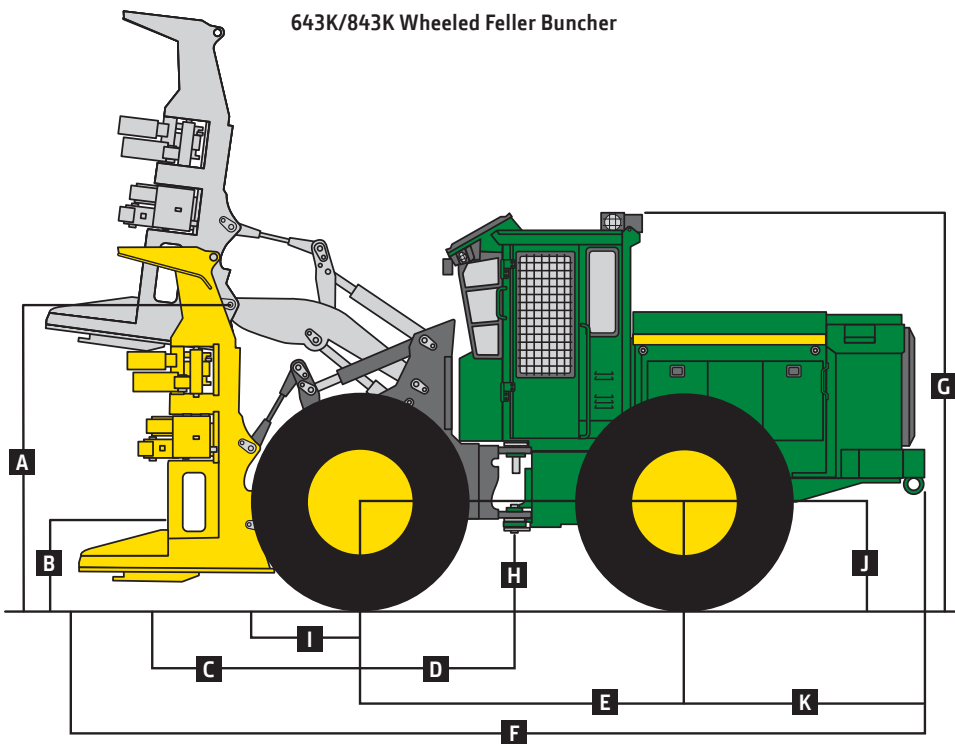
643K/843K



Engine	643K	843K
Manufacturer and Model	John Deere PowerTech™ 6068H	
Cylinders	6	
Displacement	414 cu. in. (6.8 L)	
Net Peak Power (ISO9249)	165 hp (123 kW) @ 2,000 rpm	219 hp (163 kW) @ 2,000 rpm
Net Peak Torque (ISO9249)	558 lb.-ft. (756 Nm) @ 1,400 rpm	719 lb.-ft. (975 Nm) @ 1,400 rpm
Gross Power (ISO14396)	189 hp (141 kW) @ 2,000 rpm	243 hp (181 kW) @ 2,000 rpm
Lubrication	Pressure system with oil cooler (oil to water)	
Cooling		
Fan Drive	Hydraulic reversing fan	
Powertrain		
Infinitely variable hydrostatic with 2-speed gearbox		
Maximum Speed with 28L-26 Tires:		
Low Range	5.0 mph (8.0 km/h)	
High Range	10.8 mph (17.3 km/h)	
Axles	1400 TMIV heavy-duty, front and rear	
Optional	SWEDA™ (Super Wide Extreme-Duty Axles)	
Differentials	Hydraulic locking	
Final Drive	Heavy-duty inboard planetary	
Brakes:	140 amp (28 volts)	
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 driveline-mounted multi disc	
Steering		
Steering wheel with telescopic and tilt column and spinner knob		
Frame Articulation, Stop to Stop (28L tires)	84-deg. total	
Optional	Lever steering	
Cylinders		
Lift Arm (2):		
Bore	3.9 in. (100 mm)	
Rod Diameter	2.2 in. (56 mm)	
Head Tilt (2):		
Bore	3.9 in. (100 mm)	
Rod Diameter	2.2 in. (56 mm)	
Electrical System		
Voltage	12 volt	
Batteries	2 x 12 volt	
Battery Capacity (each)	925 CCA	
Reserve Capacity (each)	180 min.	
Alternator Rating	95 amp	
Tires and Ground Pressure		
Data is for saw-equipped unit, tires inflated to recommended pressures, and 3-in. (76 mm) ground penetration		
28L-26 14 PR Standard	10.6 psi (73.1 kPa)	11.2 psi (77.2 kPa)
30.5-32 Optional	8.9 psi (61.4 kPa)	9.3 psi (64.1 kPa)
Felling Head		
Continuous-Type Disc Saw:		
Single Post	FD22B	FD22B
Twin Post	FD45	N/A
Filtration		
Engine Oil Filter	10 micron/vertically mounted	
Hydraulic Filter	10 micron/vertically mounted	
Air Filter	Dual-element dry type with dust unloader valve	
Fuel Filters	2 with water separation	
Refill Capacities		
Cooling System	36 qt. (34 L)	
Fuel Tank	84 gal. (318 L)	
Hydraulic Reservoir and Filters	70 gal. (265 L)	
2-Speed Gearbox	5.2 qt. (5 L)	
Pump-Drive Gearbox	5.0 qt. (5 L)	



Operating Weights		643K	843K
Approximate Weight Includes:			
Standard Equipment, Less Felling Head:		27,990 lb. (12 696 kg)	27,990 lb. (12 696 kg)
With FD45 Saw		32,840 lb. (14 896 kg)	N/A
With FD22B Saw		34,630 lb. (15 708 kg)	34,630 lb. (15 708 kg)
Dimensions			
A	Maximum Height at Saw-Head Attaching Pin	8 ft. 2 in. (2480 mm)	8 ft. 2 in. (2480 mm)
B	Ground to Saw-Head Attaching Pin:		
	With FD45 (skis on ground)	23 in. (594 mm)	N/A
	With FD22B (skis on ground)	27 in. (676 mm)	27 in. (676 mm)
C	Front Axle to 20-in. (508 mm) Tree Centerline:		
	With FD45	6 ft. 7 in. (2005 mm)	N/A
	With FD22B	6 ft. 6 in. (1976 mm)	6 ft. 6 in. (1976 mm)
D	Machine Articulation to Front Axle	4 ft. 5 in. (1346 mm)	4 ft. 5 in. (1346 mm)
E	Wheelbase:	9 ft. 2 in. (2794 mm)	9 ft. 2 in. (2794 mm)
	Overall Width with 28-in. Tires (1400 axles)	9 ft. 7 in. (2913 mm)	9 ft. 7 in. (2913 mm)
F	Overall Length	24 ft. 4 in. (7405 mm)	24 ft. 4 in. (7405 mm)
G	Overall Height	10 ft. 8 in. (3246 mm)	10 ft. 8 in. (3246 mm)
H	Ground Clearance	19 in. (484 mm)	19 in. (484 mm)
I	Saw-Head Attaching Pin to Axle:		
	With FD45 (skis on ground)	35 in. (880 mm)	N/A
	With FD22B (skis on ground)	3 ft. 1 in. (930 mm)	3 ft. 1 in. (930 mm)
J	Ground to Axle	29 in. (741 mm)	29 in. (741 mm)
K	Rear Axle to Rear of Unit	6 ft. 11 in. (2110 mm)	6 ft. 11 in. (2110 mm)



John Deere is the world's leading designer, manufacturer, and distributor of forest machines. Our range of purpose-built forestry equipment is without equal in the industry.

From thinning to regeneration harvesting, for both cut-to-length and full-tree applications, John Deere builds woods-tough equipment with the logger in mind.

