

CH7 & CH9 SERIES

SUGAR CANE HARVESTERS



JOHN DEERE







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RAISING CANE -THE ALL-NEW CH SERIES SUGAR CANE HARVESTERS

We started in the fields, threading our way through the stalks. We talked – and listened – to sugar cane growers like you. We spent hours in the cab. And when we were through, we came up with an all-new CH Harvester. From a large, spacious cab with plenty of comfort and visibility, to more automation technology to increase productivity and decrease stress, to the sleek new styling – the new CH Series is our most advanced and capable harvester yet.





CH7⁵⁰ HARVESTER

337 hp (251 kW) or 375 hp (280 kW)

9.0L Displacement

1.4-1.9 m (4.6-6.2 ft) Row Spacings

Wheel or Steel Track



CH7⁷⁰ HARVESTER

375 hp (280 kW)

9.0L Displacement

2.4 m (7.9 ft) Row Spacings

Steel Track



CH9⁵⁰ HARVESTER

540 hp (400 kW) for Tier III & 590 hp (440 kW) for Tier IV

13.6L Displacement

1.4-1.5 m (4.6-4.9 ft) Row Spacings

Steel Track



CH9⁶⁰ HARVESTER

540 hp (400 kW) for Tier III & 590 hp (440 kW) for Tier IV

13.6L Displacement

1.7-1.9 m (5.6-6.2 ft) Row Spacings

Steel Track

Variable Speed Secondary Cleaning System

Adapt to changing field and crop conditions directly from your cab by customizing your fan speed in the secondary cleaning system. Make 5% increments from 50 to 100% of the system's maximum available fan speed to dial in the precise cleaning outcome you want. And to reduce recirculation, we added vanes to better direct material into the extraction zone.

NEW OPTIMIZED PRIMARY EXTRACTOR

We started with a wider, better-distributed cane mat fed from the chopper. That creates more cane surface coming in contact with airflow. We also added a conical hub cover to reduce air voids that lead to trash recirculation. Then we reengineered the main air inlet and extended vanes to optimize airflow efficiency. The result? Up to 20% lower wagon trash levels at lower RPM without increased losses.¹

¹Based on internal testing. Average product line cleaning improvement results ranged from 19-37%. Actual results may vary based on fan speed settings and crop and operating conditions.



20%

Less wagon trash¹



Redesigned Split Feed Train System

New for CH9 Harvesters, a reengineered split feed train system increases productivity by reducing choking and slug-feeding in heavy conditions. By maintaining consistent crop-to-roller speed, you can reduce slippage that leads to stalk damage. And by reducing leaf wrap at the roller bearings, you'll avoid excess wear.



DuraSync™ Chopper System

The DuraSync Chopper System – exclusive to John Deere – changes swipe geometry, causing the chopper blades to interact sooner and stay engaged longer. That improves both chopper performance and blade longevity. Now, you can maintain longer timing intervals and say goodbye to tight, noisy blade alignment when timing.

COMFORT & CONVENIENCE





REDESIGNED OPERATING STATION

A totally new machine deserves a totally new operating experience. That's why we gave the CH cab a complete makeover, including modern styling that offers more comfort, better low light visibility, and more processing power.

We added plenty of comfort features to make long days seem shorter, including upgraded operator seat electronic height and pneumatic lumbar adjustments, auto-folding instructor seat, and electric heated mirrors you can adjust from inside your cab.



32-Bit Architecture

New 32-bit architecture gives you more processing power for fast communication and data transfer.



Improved LED Lighting

The halogen and LED auxiliary elevator and cooling package lighting has been upgraded to more powerful 2200 lumen LED lighting. Additionally, we added LED lights to the tail-light bracket for greater visibility of in-field haulage.



Fast and Easy Engine Access

New electronically actuated cab tilt cylinders provide faster and easier service access to the upper engine compartment.



Base Cut View Camera

A high-resolution digital camera and LED light – mounted under the chassis – gives you a clear video view of the row immediately after the crop is cut, and before residue can cover the area. Now, you can monitor base cut and stubble quality in real time, right from your G5 Display.



Remote View and Adjust

Ever wonder how a machine's doing when you're not the one in it? Remote View and Adjust sends real-time machine settings through JDLink™ to your John Deere Operations Center™ mobile app, so you can see – and adjust – parameters right from your phone. It's a great way to flatten learning curves for less experienced operators.



Machine Sync

Machine Sync automatically synchronizes the tractor and wagon with your harvester. When synchronized, the tractor follows the exact movements of the harvester with no input from the tractor operator. That means you can run at a continuous speed while also reducing spillage.





INTEGRATED CONNECTIVITY

An optional StarFire™ Receiver comes factory integrated into your cab roof to protect it from possible overhanging obstacles and theft. An in-base JDLink™ Modem¹ easily connects your machines and streams your ag data. And the optional JDLink Boost keeps you connected in remote areas with limited or no mobile connectivity.

Harvest Monitor™ – designed exclusively for sugar cane producers – feeds you pass-by-pass harvest data so you can monitor total tons harvested, machine productivity, trash percentage, fuel consumption, and more. And to help you keep a profitable balance between cane cleanliness and

reduced loss, we added a new SmartClean™ System that gives you automatic control of primary extractor fan speed based on your preferences.

All this connectivity ensures every pass is being recorded in your John Deere Operations Center™ account. There you can send work plans, monitor machine performance, and even analyze your harvest results – anytime, anywhere – on your desktop, tablet, or mobile device.

¹JDLink hardware comes standard with the machine. You can turn on JDLink connected service in your John Deere Operations Center account for free. JDLink requires a cellular connection to transfer information from machine to Operations Center. Consult your John Deere dealer for coverage availability.

POWER PERFORMANCE

Versatile and powerful when it counts, the CH Series powerplant develops a power bulge when and where you need it – 14% for the CH7 and 11% for the CH9. This extra muscle keeps them harvesting efficiently through the heaviest cane in the world, while reducing fuel usage. Developed specifically for agricultural duty, the proven CH Series John Deere engines are available in different emissions certification levels at all power ratings to satisfy requirements for every country in which we serve.

Reliability in Tough Environments

The reliability of the CH Series engine has been improved with a higher capacity suction control valve and top of the line injectors and piston rings. In addition all filters are located remotely to facilitate servicing.





up to **10%**
less fuel use in C7 Series¹

¹Up to 10% reduction in fuel consumption based on independent testing comparing Model Year 2027 CH7⁵⁰ to the prior model at engine speeds of 1800-1900 RPM at ground speed of 5 kph.



Handle Heavy Loads and Tough Conditions

With Auto FieldCruise™, engine speed adjusts to the load automatically. So, in low load conditions – like harvesting light cane – engine RPM decreases to save fuel. This can also increase the life of the engine and hydraulics, depending on field conditions and operating practices.



Hydraulics You Can Trust and Maintain

Top-of-the-line piston pumps are used on the propulsion, primary extractor, basecutter, and chopper circuits to handle the heaviest cane. Nitrogen accumulators protect the lift, elevator, and topper circuits. We kept hoses and fittings to a minimum for simplicity, reliability, and lower maintenance costs.

SUGAR'S HIGHEST REACHING TOPPER

We reached high when imagining the unmatched 17 ft topper reach on the CH Series Harvesters, with a boom designed for strength and a cushion accumulator that can top the highest cane. A piston motor offers higher torque than gear-type motors. And if flowering cane is common in your area, you can add optional extensions to the standard collecting drum to better guide leaves into the cutting blades.



Heavy-Feeding Front End

Designed to give you a smooth, uniform feed, our CH Series front ends help reduce cane losses and soil content. Longer outer scrolls start separation of cane closer to the ground and angled to improve row-to-row crop separation. Inner scroll geometry is designed to gather and detangle cane longer, improving feeding in heavy, lodged crop. Aggressive hydraulic knockdown rollers provide flexibility in changing conditions.





Adjustable Side Knives

We made it easy to adjust side knife height right from the cab, so you can make on-the-go adjustments as cane conditions change. And the unique geometry ensures a gentler cut, while allowing cane to flow freely when not in use.

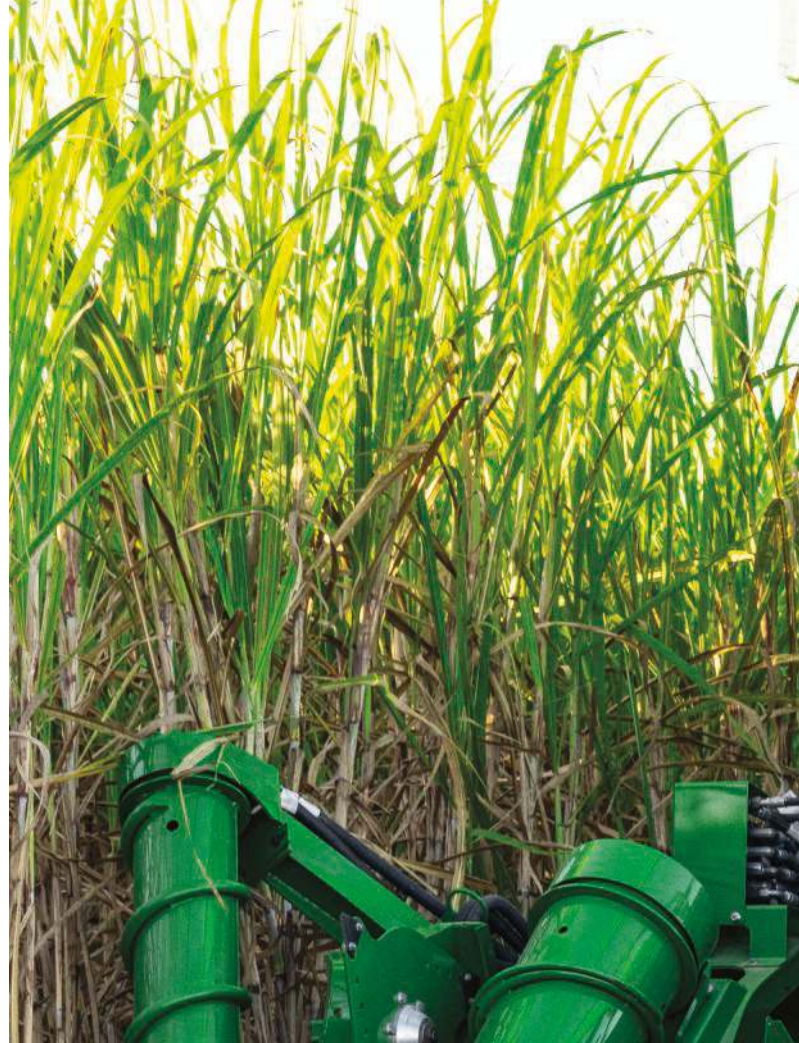


Synchronized Rollers and Self-Adjusting Sidewalls

Larger-diameter knockdown rollers give you better gripping, while extended front rollers start feeding cane earlier when needed. Plus, increased lower roller length eliminates dead spots near the walls, and floating sidewalls keep downed crop from escaping the throat and being left in the field.

CANE PRIORITIES

High productivity depends on efficient crop processing. That's why the CH Series is designed with multiple innovations to increase performance, improve wear and tear, and reduce downtime. From the center-driven basecutter to the modular chopper, you'll find details that set John Deere sugar harvesters apart from the others.



Scalloped Knockdown Roller End Caps

All CH Series Harvesters now feature a scalloped end cap with additional teeth for better crop engagement and feeding performance compared to the smooth, round end cap on previous models. This not only improves front-feeding, but it also allows you to harvest more aggressively in lodged and fallen cane.



Center-Driven Basecutter

Using just four gears – powered by a hydraulic motor – our center-driven basecutter balances your load and reduces wear. Two large discs with five easily replaceable blades ensure a clean cut with minimum stubble damage.



Feed Roller System and Modular Chopper

CH Series feed rollers are larger to reduce stalk damage. They're also designed to spread cane out across the entire width of the feed train, improving billet length consistency and chopper blade wear life. The modular chopper system is independent from the harvester main frame for better fit-up, easier service, and reduced vibration.



Heavy-Duty Swing Table

The heavy-duty elevator swing table is designed to withstand the heaviest loads and toughest field conditions. The swing table is fully serviceable, outfitted with convenient recovery lugs, and includes a standard wiper.

EXTENDED DURABILITY AND LONGER WEAR

Both CH7 and CH9 Harvesters have a high-capacity structural tube frame elevator for extended durability. Exclusive X Wear™ components are used throughout to improve service life. The top and bottom idler sprockets and grease chain tensioning cylinder reduce wear and prolong the elevator chain life. And by routing elevator hoses inside the solid frame, they're better protected from exposure.



Efficient Cane Cleaning

Tall reversible slats and a perforated floor – John Deere exclusives – make cleaning cane even more efficient. Segmented floor plates are easier to service and solid floor plates for harvesting seed cane are available.



Set Secondary Extractor Speed from Your Cab

Optimize cleaning for changing conditions with in-cab secondary extractor speed controls. With in-cab controls, you can adjust secondary fan speeds from 50 to 100% of its maximum speed. Plus, vanes were added to better direct material into the extraction zone and reduce recirculation.

HARVESTER MODEL

CH7⁵⁰CH7⁷⁰

ENGINE		
Model	JD PowerTech™ Plus (Tier III) or JD PowerTech PSS (Tier IV)	JD PowerTech Plus (Tier III) or JD PowerTech PSS (Tier IV)
Cylinders / Displacement	6 in line / 9.0 L	6 in line / 9.0 L
Power	251 kW (337 hp)	251 kW (337 hp)
Air intake	Turbo & after-cooler (air-to-air) Injection pump electronically controlled	Turbo & after-cooler (air-to-air) Injection pump electronically controlled
Optional engines	251 kW (337 hp) Tier III or IV 280 kW (375 hp) Tier III or IV	251 kW (337 hp) Tier III or IV 280 kW (375 hp) Tier III or IV

TRANSMISSION

Type	2 hydrostatic pumps - variable speed	2 hydrostatic pumps - variable speed
Wheel machine	0 to 24.6 km/h (15.3 mph)*	N/A
Track machine	0 to 9.0 km/h (5.6 mph)* *Top speed dependent on tire and/or hydraulic system option	0 to 9.0 km/h (5.6 mph)*

TANK CAPACITIES

Fuel	605 L (160 gal)	605 L (160 gal)
Hydraulic oil	405 L (106 gal)	405 L (106 gal)
DEF (Tier 4)	54 L (14 gal)	54 L (14 gal)

TIRES

Front	14×17.5 – 10 Ply	N/A
Rear	23.5×25 – 20 Ply Industrial w/ Ag Lug	N/A
Option	Rear: 23.5 x 25 Industrial w/ Loader Tread	N/A

TRACKS

Type	Sealed track chains
Track Shoes	41 cm (16 in) Bent shoes
Options	Sealed and lubricated track chains 41 cm (16 in), 45.7 cm (18 in), 51 cm (20 in) track pad widths Bent & straight track shoes

TOPPER

Type	Standard wide whole topper w/ gathering drums	Standard wide whole topper w/ gathering drums
Maximum Reach	5.2 m (17 ft)	5.2 m (17 ft)
Options	Shredder topper Extensions for standard topper	Shredder topper Extensions for standard topper

CROP DIVIDERS & KNOCKDOWN ROLLERS

Type	Hydraulic tilt Side knives Floating crop dividers Crop divider vine cutter knives	Hydraulic tilt Side knives Floating crop dividers Crop divider vine cutter knives
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BASECUTTER

Basecutter Discs	61 cm (24 in) circular	73.7 cm (29 in) circular
Wear Plates	Bolt-on for basecutter legs	Bolt-on for basecutter legs
Options	56 cm (22 in) basecutter disc Contour basecutter height control Breakaway basecutter legs	Contour basecutter height control

BUTTLIFTER

Type	3 paddle closed type	3 paddle closed type
Options	3 paddle open type (limited availability) 4 bar open buttlifter	

HARVESTER MODEL	CH7 ⁵⁰	CH7 ⁷⁰
FEED ROLLERS		
Row spacing	Five fixed rollers below cane mat Five floating rollers above cane mat	Five fixed rollers below cane mat Five floating rollers above cane mat
CHOPPER		
Chopper System	Differential chopper	Differential chopper
Blades	95 mm	95 mm
	8-blade chopper	8-blade chopper
Options	6-blade chopper (limited availability) 8-blade DuraSync chopper 10-blade DuraSync chopper	10-blade DuraSync chopper 8-blade DuraSync chopper
PRIMARY EXTRACTOR		
Hood	Polyethylene plastic 152 cm (5 ft)	Polyethylene plastic 152 cm (5 ft)
Fan	4 blade	4 blade
Options	Duraliner steel wear ring	Duraliner steel wear ring
ELEVATOR		
Loading	Either left or right side	Either left or right side
Floor	Perforated	Perforated
Loading Flap	Hydraulic adjustable	Hydraulic adjustable
Options	Elevator extensions	Elevator extensions
SECONDARY EXTRACTOR		
Hood	Polyethylene plastic 90 cm (3 ft)	Polyethylene plastic 90 cm (3 ft)
Fan	3 blade	3 blade
Options	Less secondary extractor	Less secondary extractor
SECONDARY EXTRACTOR		
	Pressurized cab with air conditioning/heating systems	Pressurized cab with air conditioning/heating systems
	Front tipping cab	Front tipping cab
	Air suspension operator seat with swivel	Air suspension operator seat with swivel
	Training seat	Training seat
	Adjustable side mirrors	Adjustable side mirrors
	Speedometer	Speedometer
	Windshield wiper with water nozzle	Windshield wiper with water nozzle
	Side glass wipers	Side glass wipers
	Water and chemical fire extinguishers	Water and chemical fire extinguishers
	Anti-slip platforms in service areas	Anti-slip platforms in service areas
	Reverse alarm	Reverse alarm
	Engine compartment working light	Engine compartment working light
	Signal and warning lights	Signal and warning lights
	LED operating lights (Including headlights)	LED operating lights (Including headlights)
	Battery remote jump start terminals	Battery remote jump start terminals
	AM/FM radio with auxiliary input	AM/FM radio with auxiliary input
	Refrigerator	Refrigerator
	Compliant with all applicable standards Auxiliary LED lights Beacon lights	Compliant with all applicable standards Auxiliary LED lights Beacon lights
OTHER OPTIONAL FEATURES		
	Service tool kits	Service tool kits

HARVESTER MODEL

CH9⁵⁰CH9⁶⁰

ENGINE

Model	JD14 (Tier III or IV)	JD14 (Tier III or IV)
Cylinders / Displacement	6 in line / 13.6 L	6 in line / 13.6 L
Power	400 kW (540 hp) Tier III or 440 kW (590 hp) Tier IV	400 kW (540 hp) Tier III or 440 kW (590 hp) Tier IV
Air intake	Turbo & after-cooler (air-to-air) Injection pump electronically controlled	Turbo & after-cooler (air-to-air) Injection pump electronically controlled
Optional engines	251 kW (337 hp) Tier III or IV 280 kW (375 hp) Tier III or IV	251 kW (337 hp) Tier III or IV 280 kW (375 hp) Tier III or IV

TRANSMISSION

Type	2 hydrostatic pumps - variable speed	2 hydrostatic pumps - variable speed
Track machine	0 to 9.0 km/h (5.6 mph)	0 to 9.0 km/h (5.6 mph)

TANK CAPACITIES

Fuel	1135 L (300 gal)	1135 L (300 gal)
Hydraulic oil	309 L (82 gal)	309 L (82 gal)
DEF (Tier 4)	78 L (21 gal)	78 L (21 gal)

TIRES

Front	14×17.5 – 10 Ply	N/A
Rear	23.5×25 – 20 Ply Industrial w/ Ag Lug	N/A
Option	Rear: 23.5 x 25 Industrial w/ Loader Tread	N/A

TRACKS

Type	Sealed track chains
Track Shoes	Bent
Options	41 cm (16 in), 56 cm (22 in) track pad widths

TOPPER

Type	Standard wide whole topper w/ gathering drums	Standard wide whole topper w/ gathering drums
Maximum Reach	4.2 m (13.75 ft)	4.2 m (13.75 ft)

CROP DIVIDERS & KNOCKDOWN ROLLERS

Type	Hydraulic tilt Side knives Floating crop dividers Crop divider vine cutter knives	Hydraulic tilt Side knives Floating crop dividers Crop divider vine cutter knives
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BASECUTTER

Basecutter Discs	56 cm (22 in) circular	56 cm (22 in) circular
Wear Plates	Bolt-on for basecutter legs	Bolt-on for basecutter legs
Options	N/A	61 cm (24 in) basecutter disc

BUTTLIFTER

Type	Two, 4 paddle open type	Two, 4 paddle open type
Options	N/A	Two, 4 paddle closed type

HARVESTER MODEL**CH9⁵⁰****CH9⁶⁰****FEED ROLLERS**

Model	Two front split feed trains & one rear common feed train	Two front split feed trains & one rear common feed train
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CHOPPER

Chopper System	Differential chopper	Differential chopper
Blades	95 mm	95 mm
Options	8-blade chopper 10-blade DuraSync chopper system 12-blade DuraSync chopper system	8-blade chopper 10-blade DuraSync chopper system 12-blade DuraSync chopper system

PRIMARY EXTRACTOR

Hood	Polyethylene plastic 152 cm (5 ft)	Polyethylene plastic 152 cm (5 ft)
Fan	4 blade	4 blade

ELEVATOR

Loading	Either left or right side	Either left or right side
Floor	Perforated	Perforated
Loading Flap	Hydraulic adjustable	Hydraulic adjustable

SECONDARY EXTRACTOR

Hood	Polyethylene plastic 122 cm (4 ft)	Polyethylene plastic 122 cm (4 ft)
Fan	3 blade	3 blade

SECONDARY EXTRACTOR

	Pressurized cab with air conditioning/heating systems	Pressurized cab with air conditioning/heating systems
	Front tipping cab	Front tipping cab
	Air suspension operator seat with swivel	Air suspension operator seat with swivel
	Training seat	Training seat
	Adjustable side mirrors	Adjustable side mirrors
	Speedometer	Speedometer
	Windshield wiper with water nozzle	Windshield wiper with water nozzle
	Side glass wipers	Side glass wipers
	Water and chemical fire extinguishers	Water and chemical fire extinguishers
	Anti-slip platforms in service areas	Anti-slip platforms in service areas
	Reverse alarm	Reverse alarm
	Engine compartment working light	Engine compartment working light
	Signal and warning lights	Signal and warning lights
	LED operating lights (Including headlights)	LED operating lights (Including headlights)
	Battery remote jump start terminals	Battery remote jump start terminals
	AM/FM radio with auxiliary input	AM/FM radio with auxiliary input
	Compliant with all applicable standards	Compliant with all applicable standards
	Auxiliary LED lights	Auxiliary LED lights
	Beacon lights	Beacon lights

SUPPORTED BY ONE OF THE MOST RESPONSIVE DEALER NETWORKS IN THE BUSINESS

Nobody cares more about keeping your equipment in solid working order than your John Deere dealer. With a complete inventory of genuine John Deere parts, highly trained service technicians, and a thorough understanding of your business, your John Deere dealer knows how to keep you and your equipment up and running. A strong name in equipment, and a strong dealership network: get it all with John Deere.



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