CH330 Sugar Cane Harvester
Highly Maneuverable Sugar Cane Harvester

After decades of successful performance in large scale harvesting, John Deere is proud to introduce the highly maneuverable CH330 designed to operate in small sugar cane fields with narrow row spacing, limited headlands, and heavy crop yield.

Our Engineers used the experience with the latest 3520 harvester and improved many of its functions and components making the new unit even better in several areas.

Its unique patented 45 degree articulated frame steering system allows for the quickest turnaround in areas not fully prepared for mechanization. With crop dividers and topper pivoting with the tires, the CH330 can start harvesting as soon as the front section is inside the field increasing operational efficiency while a conventional harvester requires additional time to fully align with the row.
The Only 4WD Sugar Cane Harvester

The CH330 is the only 4 Wheel Drive Sugar Cane Harvester. Couple this with its unique slip prevention control system that always directs the power to the appropriate wheels and you have a machine that continuously harvests where others cannot.

Harvesting and traveling between fields is made simple with the hydrostatic propulsion system that lets the operator vary the speed infinitely in three “shift-on-the-go” ranges. Inherent to the system is the hydrostatic dynamic braking with instant stopping response.
Light & Extremely Robust Aluminum Elevator

The CH330 is introducing a new elevator concept that will revolutionize the industry. It combines a sturdy aluminum construction that guarantees durability with ultra light weight that improves harvester stability.

The folding frame with the ability to unload in any position allows the use of wagons and other transport equipment of different heights.

The floor is perforated to continuously remove dirt and with the hydraulic adjustable flap the operator can evenly load the wagon.

The slats are tall to handle heavy cane flow and reversible to increase life.

Variable unloading height facilitates the use of a wide range of transport equipment.
Wide Throat to Handle Heavy Cane

The crop dividers gently lift lodged cane from the ground and are widely spaced to offer a large throat to accommodate high-density crop. The narrow scrolls easily fit in the reduced row spacing.

Exclusive John Deere crop divider knock-down-rollers are standard to help guide long-wrapping cane and prevent build-up at the top of the scrolls.

The adjustable large diameter lower knock-down roller helps to feed the cane into the basecutter.

High Topping

The CH330 uses the proven 3520 topper design. The collecting drums efficiently gather the tops before they are cut. A nitrogen accumulator protects the structure from high impacts in rough field conditions.
Available Features for the Heaviest Cane

Optional outer scrolls and side knives will facilitate handling even heavier lodge cane.

The outside scrolls rotate in the opposite direction of the inside scrolls to push the cane of the adjacent row away from the machine. Stalks that are not separated upon reaching the side knives are cut before the harvester pulls them from the ground.

A front knockdown roller with hydraulically controlled tilt is also available to facilitate feeding.
Proven 3520 Basecutter Wide Design

The basecutter opening is practically the same as the high capacity 3520 allowing heavy cane to pass through without obstruction. Each large disc is equipped with 5 easily replaceable blades that ensure a clean cut with minimal stubble damage.

Selectable height positions and cutting angles will adapt to most row profiles.

The gear box is driven by two hydraulic piston motors for balance and increased torque.

The buttlifter and the first upper roller are mounted on the basecutter frame providing an optimum relationship with basecutter disks at all height positions (patent pending).
Clean Efficient Crop Feeding & High Quality Billets

The feed roller path is straight, and opens wide to reduce cane breakage, and improve feeding to the chopper. Large, deep-paddle, lower rollers improve the release of dirt and mud.

Access for maintenance is easy with externally mounted bearings and bolt-on cradle stops, with rubber shock-absorber pads.

The heavy duty 6 blade differential chopper handles the heaviest cane, sharply cutting the stalks into even billets, preparing them for the cleaning chamber.
Optimized Cleaning System

The large cleaning chamber has been designed to deliver the cleanest cane with minimum losses. It uses low fan speeds to keep power and fuel consumption to the lowest levels.

The self-balanced 4 blade fan is mounted directly to the motor shaft to reduce maintenance and vibration which extends the life of the components.
Quiet & Comfortable with High Visibility

The operator will be very comfortable during the long hours in the quiet air-conditioned cab that also features an air suspension seat for a smooth ride.

Great visibility of the crop, elevator, and the surroundings makes harvesting easy and efficient. A trainee or an instructor will also be comfortable from the second seat.

Night operation is made easy with 12 powerful lights that illuminate the harvesting area and transport equipment.
Smart Fingertip Controls

The CommandCenter armrest display is the interface that allows the operator to display harvester, engine and diagnostic information while harvesting.

With touch-screen technology it is simple to make quick adjustments to critical controls. Supervisors can lock important settings to maintain quality and uniformity of the operation, save fuel, and protect assets.

“Smart Mode” is available to automatically reduce the extractor speed to a preset minimum when the elevator is turned off. The elevator speed can be adjusted to match varying crop conditions to prolong chain and elevator life.

Diagnostic Trouble Codes are displayed as text alerting the operator of a possible malfunction.
Proven, Powerful & Fuel Efficient Engine and Hydraulics

Reliable, powerful, and easy on fuel, the John Deere 6068 HT, 6.8 liter engine was designed specifically for agricultural applications including the demanding harsh conditions of the sugar cane world. Its durability has been proven through years of operations in thousands of other John Deere products.

The radiator, oil cooler and other heat rejection components of the cooling package are located away from the engine in a cleaner area to reduce maintenance. It features a self cleaning reversible fan that cycles automatically to remove trash, maintain all circuits and components at optimum temperature and eliminate the need for regular service stops.

Until now, the 3520 hydraulic system was the most advanced and reliable system in the world. The CH330 is even better, designed with efficiency levels never seen before. The result is a powerful yet most fuel efficient hydraulic system in a sugar cane harvester. There are no directional valves or spool flow dividers on motor circuits minimizing power loss and heat generation. All cylinder functions, including steering, are operated by pressure compensated pumps that deliver oil flow only when required. Additionally, the system is protected from contamination with internal filters that typically require replacement only once a season. Furthermore, unit lift and topper circuits are cushioned from high impact with nitrogen accumulators.

Easy access to engine with tilting cab.

Self cleaning cooling system.

Double fuel filtration and water separation.

The most efficient hydraulics.
Easy to Service & High Quality Parts

At John Deere we make Safety a top priority. Service safety stops are available on all appropriate locations. Ladders and handrails are located on both sides of the machine. All steps are high-grip plate steel for additional footing. Service platforms have non-skid surfacing and are surrounded by handrails for safe, walk-around access.

The CommandCenter™ will help you protect your equipment and quickly find solutions to possible issues by displaying alarms and diagnostics instantly.

Top-quality parts and components are used to build your harvester, so why use anything other than these same top-quality parts to keep your investment up and running? Genuine John Deere Parts are the answer to all your maintenance needs.

John Deere offers superior parts service, so you achieve maximum uptime with the minimum investment.
### Engine
- **Brand**: John Deere
- **Model**: 6068H PowerTech E, (Tier III)
- **Cylinders**: 6 in line
- **Displacement**: 6.8 L
- **Power**: 148 kW (198 hp) with 6% power bulge
- **Air intake**: Turbo and after-cooler (air-to-air)
- **Injection pump**: Electronically controlled

### Transmission
- **Type**: Permanent Four Wheel Drive
- **Pumps**: Two hydrostatic pumps propel 4 wheel motors and provides variable speed
- **Speeds**: Three speed ranges with “Shift on the Go”
- **Control**: Traction slip prevention control system
- **Maximum travel speed**: 18 km/h

### Tank Capacities
- **Fuel**: 284 L (75 gal)
- **Hydraulic oil**: 227 L (60 gal)

### Tires
- **Front**: 11 × 20 – 12 Ply rating
- **Rear**: 20.5 × 25 – 16 Ply rating

### Harvesting Functions
- **Extractor**
  - Polyethylene plastic 120 cm hood
  - Hydrostatic variable speed fan
  - Vertical mount
  - Direct drive fan
  - Four blade fan (requires no balancing with blade change)
  - Hydraulically controlled hood rotation
  - Abrasive resistant steel wear ring

- **Elevator**
  - Aluminum construction frame
  - Adjustable loading height control
  - Hydraulically adjustable flap
  - Loading to either side
  - Grease cylinder chain adjustment
  - Motor driven directional discharge

- **Harvesting Functions (continued)**
  - Adjustable knockdown rollers
  - Three paddle closed butt lifter
  - High drive basecutter
  - Bolt-on wear plates for basecutter legs
  - 61 cm circular basecutter discs – Hard surfacing
  - External feed roller bearings
  - Reversible hydraulic-driven crop dividers and feed rollers system
  - Deep paddle lower feed rollers with teeth and hard surfacing
  - 6 blade differential chopper system with 95 mm blades

- **Comfort and Security**
  - Quick shut-off switch for all harvesting functions with quick reset feature
  - Engine oil pressure and cooling temperature alarm
  - Front tipping cab
  - Pressurized cab with air conditioning and heating systems
  - Air suspension operator seat
  - Wide cab with training seat
  - Adjustable side mirrors
  - Speedometer
  - Windshield wiper with water nozzle
  - Chemical fire extinguisher
  - Anti-slip platforms in service areas
  - Command Arm ergonomically adjusts to operator
  - CommandCenter™ touch display
  - Digital cornerpost display
  - Multifunction hydro handle
  - Reverse alarm
  - Engine compartment working lights
  - Signal and warning lights
  - 12 operating lights (Including headlights)
  - Compliant with all applicable standards

### Optional Features
- **Outer scrolls**
- **Side knives**
- **Front knockdown roller with hydraulic tilt**
- **Crop dividers vine cutter knives**
- **In-cab convex mirrors**
- **Service tool kit**
- **Optional rear tires**: 17.5 × 25 – 16 Ply rating
CH330 Sugar Cane Harvester Specifications

*Tread shown with 20.5 × 25 Rear tires. Tread with 17 × 25 Rear tires is 1.35 m.