3520 Sugar Cane Harvester
There is no match for the 3520’s powerful

The John Deere 3520 is the best-selling harvester in the global industry. No other chopper harvester can match its performance, reliability, comfort, options, and ease of use.

The new 3520 gets through the toughest conditions and is now powered by the proven 337 hp (375 hp optional) John Deere 4 Valve PowerTech\textsuperscript{TM} 9.0L engine developed specifically for agricultural applications.

The true test of strength is not what the harvester can do at rated engine power, but what it can do above it. When you lug down this harvester, it develops as much as 10% power bulge. This extra muscle is what truly keeps you moving in tough conditions.

Reliable, powerful, and easy on fuel, the John Deere 9.0L reshapes the boundaries of power.

The self-cleaning cooling package eliminates the need for regular stops to remove trash from the cooling system’s air intake surfaces, providing longer operating time during your season.

The 3520 comes with an impressive list of standard features and available options that will easily fulfill your needs and expectations.

9.0 L Engine

- Larger Engine Displacement
- Self Priming Fuel Pump
- Environmentally Friendly
- Tier II or Tier III Certified

Larger Engine Displacement

4 Valve Cylinder Head

Forged Steel Pistons

Tier II or Tier III Certified

200 Amp alternator replaces our previous 140 Amp for increased capacity.

New composite ejector pre-cleaner maximizes removal of dust. Larger capacity air filter reduces service intervals.

New muffler location provides less heat build up in the engine compartment.
You and your operators spend too much time in the cab to be uncomfortable. That's why the 3520 has a variety of features to provide all day & night comfort and convenience... so you feel as good at the end of the shift as you do at the start.

Inside, an expansive area of glass gives operators a clear view of the topper, crop dividers, side wagons and sugar cane. Thick acoustic insulation seals around the door and windows keeping the cab quiet. Once you are in the air-suspended seat, you’ll see that all the major machine and harvesting controls are within easy reach.

The GreenStar™ (optional) field documentation functions allow you to record operational data, along with user-defined weather, operator, and machine information. Data can be transferred to and from a desktop computer using the compact data card. Easy-to-use setup screen and on-screen keyboards allow you to input custom names for fields, farms, products, varieties etc.

GreenStar™ software offers you immediate access to AutoTrac™ guidance that gives you visual and audible signals to help guide you across the field while you steer the harvester. Upgrade to AutoTrac™ Assisted Steering and you get hands-free steering, accurate to within one inch when combined with the StarFire™ RTK system, or to within four inches using the standard SF2 signal.

AutoTrac™ reduces the strain on the operator, decreases stubble damage and prevents row crossing in heavy lodged cane. AutoTrac™ is especially useful when opening a field by keeping the harvester centered on the row. Combining this system with the new 3520 is the optimum choice when optimizing operations with precision farming technologies.
Benchmark for cutting and feeding

With the unmatched 5.20 meter topper reach, the 3520 is capable of handling the tallest cane.

Large diameter crop divider scrolls gently lift and feed cane into the harvester throat with a much lower approach angle, avoiding the "bulldozing effect" seen with other harvesters.

Optional dual scrolls with side knives help harvest long, heavy, down cane. The standard inside scrolls rotate to lift and center the cane as it is being harvested. Optional outside scrolls rotate in the opposite direction of the inside scrolls to push the cane of the adjacent row away from the machine.

Stalks not separated upon reaching the optional side knives are cut before the harvester pulls them from the ground.

The hydraulic crop dividers and knock down rollers tilt option turns a twenty-minute field adjustment into an on-the-move operation. The toe tilted down lifts the sprawling crop, ensuring all cane is fed into the machine. In standing cane, the toe angled up reduces soil content. The knock down roller positioned in the outer position facilitates feeding heavy lodged cane.

The deep-tooth paddles of the knockdown rollers prevent wrapping of cane leaves and vines.

The optional hydraulically driven crop dividers' knockdown rollers are independently mounted on the upper side of each crop divider. These rollers help gently guide long, wrapping cane to the center of the harvester's throat, which minimizes cane build-up at the top of the crop divider.

**Front End**

- Standard Topper
- Optional Extensions improve standard topper performance in tough conditions
- Optional Shredder Topper facilitates residue management
- Optional Side Knives for tangled cane
- Optional crop divider knock down rollers improve feeding
Feeding in the global market.

The basecutter and chopper are on one high pressure hydrostatic circuit, driven by a piston pump that maximizes efficiency and performance.

The basecutter is driven by a hydraulic piston motor.

The basecutter is a center driven design with just four gears to balance the load and reduce wear.

Grease lubricated lower bearings drastically reduces or eliminates oil leaks.

Three paddle buttlifter minimizes soil intake and mud build-up.

The feedroller path is straight and opens wide to reduce cane breakage and improve feeding to the chopper.

Large deep paddle lower rollers improve the removal of dirt and mud. Access is easy with externally mounted bearings and bolt-on cradle stops with rubber shock absorber pads.

Externally mounted chopper bearings allow the chopper shafts to easily slide out from the side and have no splines to wear.

An 8 blade overlap chopper is also available, which improves feeding, increases the life of the blades and facilitates trash removal in the primary extractor.

The sill roller option facilitates billet movement, augments cleaning, and avoids “back feeding.”

ISO compliance assures operator safety for all harvesting and maintenance functions.
Only John Deere gives you

**HIGH CAPACITY ELEVATOR**

- Specially designed for high yield sugar cane
- High sidewalls and 18 cm (7") reversible slats
- Accumulator on elevator circuit
- Sprockets on every curve
- Without head shaft
- Grease cylinder chain adjustment

**PRIMAR EXTRACTOR**

- Four-blade, 152 cm (5') diameter extractor
- New Hood shape
- Balance-free blades/hub exclusive design
- Motor drive support system with four rubber-mounted legs improves fan stability and reduces vibrations
- Operates efficiently at low RPM providing quality cleaning and low cane losses
- Efficient hydraulic system with variable displacement piston pump and piston motor

**SECONDARY EXTRACTOR**

- Unique design allows trash to be thrown away from the wagon more efficiently
- 360° turning radius that can be set at any position
- Ideal fan speed allows the best cleaning with low horsepower consumption
- Hydraulically adjustable bin flap

The 3520 features a high capacity structural tube frame elevator for extended durability. The top and bottom idler sprockets reduce wear and prolong the elevator chain life. The tall side walls and reversible slats will handle the heaviest cane keeping billets from "boiling down".

Like its predecessor, elevator hoses are routed inside the solid frame promoting longer life by improving protection and minimizing exposure.

A nitrogen accumulator is featured on the elevator hydraulic circuit to reduce elevator stress during operation.

Unique primary and secondary hood designs increase the 3520 cleaning capability to match customer needs consistently, delivering the cleanest cane in the market.

The largest primary extractor fan in the industry cleans at lower speeds, reducing horsepower consumption and noise levels. The new hood shape directs trash downward on a steeper angle reducing trash build-up at the cooling package.

Bolt-on elevator extensions provide extended reach for wider row spacing. The available extensions are 30.5 cm (12") for wheel and track units and 61 cm (24") for track only.

Heavy duty elevator swing table designed to withstand the heaviest loads and toughest field conditions. Optional wiper available.

Balance-free hub blades on the primary extractor make time-consuming balancing a thing of the past.

Now standard on all units, the taller wear liner covers more exposed area.
more standard features.

- **AutoTrac™** allows precise day and night harvest operation.
- **Hydraulic hand pump tilting cab** provides true access to engine.
- **Large air filter** reduces maintenance intervals and increases life.
- **The new reversible fan** with automatic cleaning cycle operates without a rotary screen and blower motor.
- **Unrestricted engine access** from three different service locations.
- **Reinforced Heavy Duty track frame**
- **Nitrogen accumulator** minimizes shock loads to elevator hydraulic system.
- **Reduced number of grease points**, hydraulic hoses and connections improve reliability and lower maintenance cost.

You have made the first step in improving efficiency in the field. Less down time means more money in your pocket and more value for your investment.

Service operations are now easier and more readily accessible than ever with the new ISO Compliant design that will save time for your technicians, whether entering the cab, changing oil, replacing filters, or checking the battery.

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.

Factors such as cane variety, operator skill, weather conditions, soil type, drainage issues and more make each farm unique. John Deere wants to work with you to customize your equipment package.

Choose options to maximize productivity and profits.
3520 Sugar Cane Harvester Specifications

**Engine**
- **Brand**: John Deere
- **Model**: 6090T PowerTech (Tier II)
- **Cylinders**: 6 in line
- **Displacement**: 9.0 L
- **Power**: 251 kW / 337 hp / 342 cv
- **Air intake**: Turbo and After-cooler (air-to-air)
- **Injection pump**: Electronically controlled

**Transmission**
- Two hydrostatic pumps providing variable speed
  - Wheel machine: 0 to 24.6 km/h (15.3 mph)*
  - Track machine: 0 to 9.0 km/h (5.6 mph)**
  - *(Top speed dependent on tire and/or hydraulic system option)*

**Tank Capacities**
- **Fuel**: 568 L (150 gal)
- **Hydraulic oil**: 405 L (106 gal)

**Tires**
- Front: 14x17.5 - 14 Ply Skidder Tire
- Rear: 23.5x25 - 20 Ply Industrial w/ Ag Lug

**Tracks**
- Sealed track chains
- Single piece bolt-on sprocket
- 457.2 mm track shoes working width
- Welded track guides with bolted wear out plates

**Primary Extractor**
- Polyethylene plastic 152 cm (5 ft) 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**
- Loading to either side
- Grease cylinder chain adjustment
- Motor driven directional discharge
- Nitrogen accumulator

**Secondary Extractor**
- Polyethylene plastic hood
- Hydraulically controlled hood rotation
- Hydraulically driven flap

**Harvesting Functions**
- Emergency shut-off switch for all harvesting functions
- Accumulator cushioned topper and elevator
- Large diameter tapered single scrolls (low approach angle)
- Factory hard surfaced skirts, slip-on shoes and toes
- Two adjustable knockdown rollers
- Three paddle closed bufflitter
- High drive basecutter
- Bolt-on wear plates for basecutter legs
- 61 cm (24 in.) circular basecutter discs - Hard surfacing
- External feedroller and chopper bearings
- Reversible hydraulic-driven crop dividers and feeders system
- 8 blade differential chopper system with 95 mm blades

**Comfort and Security**
- 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
- Windshield wiper with water nozzle
- Chemical fire extinguisher
- ISO compliant rails
- Anti-slip platforms in service areas
- CommandArm ergonomically adjusts to operator
- Reverse alarm
- Working lights at the engine compartment
- Signal and warning lights
- 10 operating lights (Including headlights)
- Compliant with ASAE standards
- Fuel water separator

**Optional Features**
- 375 hp engine Tier II & III or 337 hp engine Tier III
- Assisted basecutter control (ABC)
- Sealed and lubricated track chains
- 41 cm (16 in.), 51 cm (20 in.), track pads widths
- HID lights
- 8 blade overlap chopper
- Bent trak shoes
- Shredder topper
- Shredder topper with piston motor
- Side knives
- Outer scrools
- Elevator extensions
- Less secondary extractor
- Sill roller
- GPS Speedometer
- Radio
- Battery Remote Jump Start Terminals
- Side windshield wipers
- Rear center pull hitch
- Convex Miroir
- Additional Floor Mat
- AutoTrac™ ready
- Service Tool Kits
- Crop dividers knock down rollers
- Primary Extractor Duraliner steel wear ring
- Crop dividers vines cutter knives
- 6 blade chopper
- 22” basecutter disc
- Hydraulic Crop Divider & Knockdown Roller Tilt
- Swing Table Wiper

**Specifications throughout this brochure are subject to change without notification. Some photos may contain optional equipment. Some options may not be available in some markets due to legal restrictions.**

Revised 01/09

244 Hwy 3266 • Thibodaux • LA • 70301 • USA
Phone: (985) 447-7285
www.johndeere.com

244 Hwy 3266 • Thibodaux • LA • 70301 • USA
Phone: (985) 447-7285
www.johndeere.com