LEXION® ROTARY COMBINE MODELS 470 R, 475 R, 480 R, 485 R
After months of hard work, it all comes down to this. Harvest. When it’s just you against a sky full of clouds, acre-after-acre of fields and only 24 hours in a day, you need a combine you can count on. A Lexion combine.

Lexion combines are true to the Cat tradition of exceptional quality. They’re fast. Tough. Efficient. And no matter which model you choose, it will take you through the field in record time with little grain loss and unbeatable grain quality.

Harvest with a Lexion combine from Caterpillar, and you’ll discover that what used to be your most time-intensive job is the one you’ll look forward to the most.
### Feature Benefit

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headers</td>
<td></td>
</tr>
<tr>
<td>Auto Contour (optional)</td>
<td>Maintains consistent cutting height over uneven terrain with simultaneous up/down and side-to-side motion</td>
</tr>
<tr>
<td>Auto Pilot (optional)</td>
<td>Automatically steers the combine when harvesting corn to reduce operator fatigue and improve performance</td>
</tr>
<tr>
<td>Laser Pilot (optional)</td>
<td>Automatically steers the combine in small grains allowing the use of the full header width, freeing you to optimize machine settings</td>
</tr>
<tr>
<td>Multi-Link Connector</td>
<td>Electric and hydraulic connections can be made in one step—saves time and eliminates the chance for misconnections or oil leaks</td>
</tr>
<tr>
<td>Feederhouse</td>
<td></td>
</tr>
<tr>
<td>Long/Wide Feederhouse</td>
<td>Provides excellent crop capacity and support for large headers; allows superior visibility</td>
</tr>
<tr>
<td>Variable Speed Feederhouse Drive</td>
<td>Allows you to optimize feederhouse and header speed to harvest conditions</td>
</tr>
<tr>
<td>Threshing System</td>
<td></td>
</tr>
<tr>
<td>APS Cylinder (Accelerated Pre-Separation)</td>
<td>Preserves grain quality and maximizes performance by feeding crop to the main threshing cylinder at a constant speed, angle, width and thickness; up to 30 percent of the crop is pre-separated and goes directly to the cleaning system</td>
</tr>
<tr>
<td>APS Concave Blocking Plate</td>
<td>Improves threshing performance when engaged (single lever) to help thresh difficult crops</td>
</tr>
<tr>
<td>In-Cab Concave Adjustment</td>
<td>Saves time when dealing with changing crop conditions; choose factory settings or create your own</td>
</tr>
<tr>
<td>Parallel Concave Clearance</td>
<td>A long pathway through the threshing system with no pinch points improves capacity and protects grain quality</td>
</tr>
<tr>
<td>Hydraulic Overload Protection</td>
<td>Opens concaves to allow obstructions to pass through then returns to preset positions</td>
</tr>
<tr>
<td>Rotary Separating System</td>
<td></td>
</tr>
<tr>
<td>Two-Rotor Design</td>
<td>Increases productivity by using large-capacity dual rotors—high centrifugal force and a thin crop mat ensure excellent performance</td>
</tr>
<tr>
<td>Variable Speed Rotor (optional)</td>
<td>Improves productivity by matching separation speed to crop conditions from the cab</td>
</tr>
<tr>
<td>Independent Rotary Speed Adjustment</td>
<td>The speed of the separation rotors can be changed independently of the threshing system</td>
</tr>
<tr>
<td>Cleaning System</td>
<td></td>
</tr>
<tr>
<td>Visible Returns Window</td>
<td>An optional sensor monitors the volume of returns, and a window allows visual inspection of contents</td>
</tr>
<tr>
<td>Removable Preparation Pans</td>
<td>Grain from the threshing system falls on preparation pans which transfer it to the cleaning system using a shaking motion that stratifies the grain from the chaff for easier cleaning—no augers needed</td>
</tr>
<tr>
<td>Top Sieve Adjustment</td>
<td>The upper and lower sieves can be adjusted independently to help you fine-tune your harvest</td>
</tr>
<tr>
<td>Feature</td>
<td>Benefit</td>
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<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Cleaning System (continued)</td>
<td></td>
</tr>
<tr>
<td>3-D Sieve System (optional)</td>
<td>Reduces grain loss and protects grain quality when harvesting on slopes up to 20 percent</td>
</tr>
<tr>
<td>Electric Sieve Adjustment</td>
<td>Saves time by allowing you to make in-cab adjustments to sieve openings as conditions change</td>
</tr>
<tr>
<td>(optional)</td>
<td></td>
</tr>
<tr>
<td>Turbine Fans</td>
<td>Adjust airflow amount and direction to match crop conditions</td>
</tr>
<tr>
<td>Full-Width Performance Monitors</td>
<td>Measure losses across the entire width of the cleaning system</td>
</tr>
<tr>
<td>Grain Tank/Grain Handling</td>
<td></td>
</tr>
<tr>
<td>Electric Grain Tank Extensions</td>
<td>Extensions fold down to keep out moisture and reduce machine height</td>
</tr>
<tr>
<td>Unloading Auger</td>
<td>Increases productivity by emptying the tank in less than two minutes</td>
</tr>
<tr>
<td>Grain Tank Sensors and</td>
<td>Two adjustable sensors alert you and the grain cart operator when the grain tank is nearing or at full capacity</td>
</tr>
<tr>
<td>Rotary Beacon</td>
<td></td>
</tr>
<tr>
<td>Clean-Out</td>
<td>Quick-release latches and a pre-programmed setting make clean-out fast and easy</td>
</tr>
<tr>
<td>Control and Monitoring System</td>
<td></td>
</tr>
<tr>
<td>Multi-Function Control Handle</td>
<td>Provides finger-tip control of header operation and unloading auger, as well as combine speed and direction</td>
</tr>
<tr>
<td>In-Cab Adjustability</td>
<td>Saves time by allowing many performance adjustments to be made from the cab, on-the-go, including concave opening, sieve opening, rotor speed, fan speed and monitor sensitivity</td>
</tr>
<tr>
<td>IMO Computer System</td>
<td>Assures timely, accurate information to maximize quality and productivity</td>
</tr>
<tr>
<td>CEBIS Computer System</td>
<td>Provides advanced feedback on combine performance, crop conditions, and records harvest data</td>
</tr>
<tr>
<td>(optional)</td>
<td></td>
</tr>
<tr>
<td>Quantimeter (optional)</td>
<td>Registers accurate readings on yield and moisture</td>
</tr>
<tr>
<td>Yield Mapping (optional)</td>
<td>Captures harvest data for future management practices</td>
</tr>
<tr>
<td>Engine</td>
<td></td>
</tr>
<tr>
<td>C-9 and C-12 Engines</td>
<td>Cat diesel engines give you the greatest fuel efficiency and highest reliability of any engine in the marketplace</td>
</tr>
<tr>
<td>Tracks/Wheels</td>
<td></td>
</tr>
<tr>
<td>Mobil-trac™ System</td>
<td>Allows harvesting in virtually any field condition; improves flotation, reduces transport width and maximizes soil health</td>
</tr>
<tr>
<td>Tires</td>
<td>A variety of sizes and treads are available</td>
</tr>
<tr>
<td>Service</td>
<td></td>
</tr>
<tr>
<td>Cat Service Support</td>
<td>Expert dealer network takes away the worry of downtime</td>
</tr>
<tr>
<td>Mobile Service Fleet</td>
<td>The most extensive fleet of service trucks provides fast in-field service</td>
</tr>
<tr>
<td>Parts Distribution Network</td>
<td>Maximizes uptime with 24-hour a day service</td>
</tr>
</tbody>
</table>
"I replaced two combines twice the work in the

Larry Bickham
Odem, TX
Milo and corn
with one Lexion combine. It’s doing same amount of time. "

PRODUCTIVITY
Productivity, Grain Quality and Ease of Operation Start Out In Front

One pass is all it takes to know that Lexion combines are powerful performers in the field. The strength of the cutting and feeding systems comes from components that set the Cat combine apart from the competition.

Feederhouse
The large, wide feederhouse is built to support large and heavy headers. Its ample size and shallow angle provide room for a thinner crop mat, minimizing loss and damage. The feederhouse length gives you greater visibility of the crop and the header.

Auto Contour System
Optional
Caterpillar Exclusive
Rolling ground is no excuse for inconsistent cutting heights. Sensors detect terrain changes and trigger header adjustments automatically, allowing you to concentrate on maximizing performance. (Auto Contour is available for all headers. Corn head shown)

Auto Pilot System
For Corn Heads
Optional
Caterpillar Exclusive
Auto Pilot keeps your Lexion combine on the row by sensing corn stalk location and automatically steers the combine.

Multi-Link Connector
Caterpillar Exclusive
Make five connections in one step. Two hydraulic and three electrical connections can be made quickly with no chance of errors or spilled oil.

Variable Speed Feederhouse Drive
Optional
Harvest faster and protect grain quality at the same time with the optional variable speed feederhouse drive.
Rock Trap
The large rock trap opens from the side making it easy to clean.

Hydraulic Reverser
The two-stage engagement of the hydraulic reverser ensures full power is available to clear blockages that may occur in the header or feederhouse.

Lift Cylinders, Float Springs and Hydraulic Accumulator
Cylinders supply ample power to lift/support headers in the field and on and off trailers. Three float springs and a hydraulic accumulator reduce shock loads up to 70 percent compared to an accumulator-only system.

Full-Length Retractable Fingers
Retractable fingers the entire length of the auger provide smooth crop flow into the feederhouse.

Laser Pilot
For Small Grains
Optional
Caterpillar Exclusive
Laser Pilot automatically guides the combine to follow the edge of the crop utilizing the full width of the header. With Laser Pilot, you have more time to manage machine settings, observe material flow and monitor other functions to maximize productivity.

One side of the module transmits a laser beam over a 12° arc three times per second. After it bounces back, the other side receives the beam and by comparing the length of time between transmission and reception, the Laser Pilot module can determine the edge between standing crop and stubble.
The Accelerated Pre-Separation System (APS) Allows You to Improve Capacity and Protect Quality

The Lexion combine’s threshing system is made up of three cylinders: the Accelerated Pre-Separation cylinder, main threshing cylinder and impeller.

**Accelerated Pre-Separation (APS) Cylinder**
*Catapillar Exclusive*
Up to 30 percent of the grain is separated at the APS cylinder and sent on to the cleaning system. The remaining crop is fed to the main threshing cylinder at a constant speed, angle, width and thickness. As a result, threshing is faster, more efficient and produces higher quality grain.

**Synchronized Tip Speed**
Maintaining a constant relative speed among all threshing cylinders is critical to efficient operation. The APS, main and impeller cylinders remain at an ideal ratio for smooth and gentle grain handling.

**Impeller**
The impeller features a chevron design to divide the threshed crop and feed it into two rotors for maximum separation.

**Intensive Threshing Segment**
Depending on crop conditions, you may choose to install the intensive threshing segment to create a narrower point in the threshing process.

**Blocking Plate**
If you’re harvesting a hard-to-thresh grain you may want the entire crop mat to go through to the main threshing cylinder. Simply engage the blocking plate with a single lever to cover the concave openings below the APS cylinder.

**Hydraulic Overload Protection**
The threshing system concaves will automatically open fully if an obstruction is brought in from the feederhouse. When the object has passed, the concaves automatically return to preset positions.

**Concaves for the APS and Threshing Cylinders**
Speed harvest and improve grain quality by making adjustments to the concaves from the cab as conditions change.
Only Lexion combines pre-separate the grain before it reaches the main threshing cylinder. This exclusive process means that at the end of the day you have truckload after truckload of higher quality grain and fewer acres to harvest tomorrow.

**APS Cylinder Concaves**

Three sizes of APS concaves are available for you depending on the crop you’re harvesting. Changing the three-piece concave is simple and takes fewer than 30 minutes.

**Universal Main Cylinder Concave**

The multi-crop concave handles all your crops gently and efficiently.

**Two-speed Cylinder Drive**

The standard variable cylinder speed range is 395-1150 rpm on small grain version combines. An optional two-speed system is available and offers an additional speed range that can go as slow as 166-483 rpm to help protect grain quality. (The two-speed cylinder drive is standard on corn and rice version combines.)
The crop mat is fed to the dual separation rotors in two equal parts. This division produces a thin crop mat, allowing the most effective grain separation. Two rotors give you more centrifugal force for unsurpassed separation capacity.

**Dual Function Rotors**

In fragile crops such as high-moisture corn, you can set the rotary separation system on Lexion combines to provide additional threshing as well as separation. This dual function allows the main threshing cylinder to operate at slower speeds contributing to higher grain quality.

**Independent Rotor Speed Adjustment**

You can change all rotor speeds independently of the threshing system. This versatility compared to single rotor systems allows you to optimize grain quality and performance.

**Impeller**

The crop is divided evenly by the chevron impeller and fed into two rotors for maximum separation.
Easy Inspection/Service Access
The separation rotor grates can be removed for quick, effortless cleaning and maintenance. (470 R/475 R rotors shown)

Rotor Cover Plates
You can tailor MOG (Material Other than Grain) volumes by adding or removing rotor cover plates. This ability to balance combine systems gives you the ultimate flexibility in all harvest conditions.

Two Counter Rotating Rotors
Small diameter rotors generate more centrifugal force for better separation. By using two rotors, Lexion combines are able to maximize efficiency and capacity.

Variable Speed Rotor System
Optional
A rotor speed variator is available that allows you to fine-tune rotor speeds from the cab ranging from 360-1050 rpm. If you want an even slower rotor speed, a 300-rpm kit is available.

Multi-Speed Rotor System
You can set rotor speeds at 500/640/800 rpm on corn version combines or 640/800/962 rpm on small grain and rice version combines. These speed settings let you optimize separation performance.
The elevator operator as he has never seen grain

Chuck Bugg
Mayfield, KY
Corn, soybeans and wheat
ked me about my combine, because he said it was so clean. Just .3% foreign material.
Preparation Pans
Large preparation pans below the threshing system allow grain to stratify into layers below the MOG (Material Other than Grain) for efficient transfer to the sieves without augers.

Clean Grain Elevator
Lexion combines use nylon cord reinforced rubber paddles to move grain from the cleaning system to the grain tank. This conveyance method helps protect grain quality.

Straw Chopper
Optional
In terms of managing residue, you can change from uniform spreading to neat windrows at the turn of a lever.

Electric Sieve Adjustment
Optional
You can make changes to sieve openings and monitor the effects from your seat.

Chaff Spreader
Optional
Two large rotating disks uniformly spread chaff from the sieves. Its superior design allows you to easily swing it out of the way when you want access to the cleaning system.

An Intensive Cleaning Process Protects the Quality of Your Crop
The cleaning system of the Lexion combine is designed to move grain quickly and smoothly through the process to deliver the highest quality grain you’ve ever harvested.
Full-Width Performance Monitor
An acoustic sensor across the entire width of the cleaning system lets you know if you’re experiencing any loss.

Returns Volume Indicator
Optional
Keep an eye on the amount of returns going through the system with this monitor on the CEBIS screen.

Returns Elevator Window
In addition to the optional volume sensor, a window in the returns elevator allows you to see if the tailings are chaff-rich or grain-rich. You can make adjustments accordingly.

Grain Tank
The large capacity grain tank has few ledges so it unloads completely. Two adjustable sensors inform you of volume levels to prevent overfilling. Electric fold-down extensions help keep moisture out of the tank.

Full-Width Performance Monitor
An acoustic sensor across the entire width of the cleaning system lets you know if you’re experiencing any loss.

Ventilated Sieve System
Turbine fans provide the airflow to gently separate the chaff from the grain. Air volume and direction can be adjusted to assure a clean grain sample. Optional shutter plates help control loss when harvesting very light crops.

Unloading Auger
Grain in the Lexion combine’s unloading auger follows a gentle arc as it exits, preventing damage that can occur in “drop out” augers and increasing the effective length. The auger features 13” of clearance to accommodate the tallest grain carts and trucks.

3-D Sieve System
Optional
Caterpillar Exclusive
The 3-D sieve system keeps the grain from accumulating on the downhill side of the sieve when harvesting on a slope. By automatically adjusting lateral movement, it keeps the combine output at 100 percent on slopes up to 20 percent.
Ease of adjustment is 
You can do eve

Bruce Robinson
Taylorville, IL
Corn and soybeans
great with my Cat combine. Everything from the cab.
The precise engineering of the Lexion combine does more than move you through the field quickly, it provides a comfortable work environment. Most functions can be performed in the cab, on-the-go to save you time and effort.

Harvesting is Hard Work — Handling Your Lexion Combine Isn’t

On-Board Control and Monitoring Systems

Three-way Adjustable Steering Column
The steering column tilts and telescopes so you can adjust it perfectly.

Multi-Function Control Handle
Control 14 functions, including header operation, unloading auger and combine speed. The handle is built into the right side armrest for convenience and comfortable operation.

Operator Comfort
Roomy, ergonomic air suspension seat, air conditioning, and right side controls keep you comfortably in reach of everything you need to operate the combine.

Instructional Seat
The instructional seat provides a comfortable, convenient place for a second person to observe the field, monitors and operation procedures.
Overhead Controls
Features like the cool compartment, sound system, electric mirrors and climate control make this cab the most comfortable you've ever experienced.

Operator View
The long feederhouse and large windows allow you to keep an eye on what's happening ahead of you.
Take the Guesswork out of Adjustments

Powerful in-cab computer systems provide you with the current information you need to make informed management decisions. That’s the essence of a successful harvest.

IMO Information Monitor
Using a combination of lights and liquid crystal displays, the IMO system gives you data from machine sensors. You can see how your machine is performing and make adjustments on-the-go.

IMO Functions
– Monitoring all machine functions
– Direct adjustment of individual components
– Eight automatic crop presets plus custom settings
– Performance monitoring
– Engine performance
– Service intervals and information
– Area meter
– Harvest data display
– Yield monitor (optional)

Quantimeter
Yield and moisture sensors provide accurate readings while you’re harvesting. Yield is determined by a light beam sensor and LEM module. A slope sensor ensures accurate yield readings when harvesting on slopes and inclines.

Yield Monitor
The quantimeter uses a beam of light to calculate the amount of grain in the clean grain elevator.

Slope Sensor
The Lexion combine’s computer automatically compensates for slope when calculating yield.
CEBIS
Combine Electronic Board Information System
Optional
More powerful than the IMO computer, CEBIS is the most advanced on-board system of any combine on the market. It displays performance, records harvest information and allows you to make function adjustments while you’re harvesting.

CEBIS Functions
All the functions of IMO plus:
– On-screen operation and maintenance manual
– Preset reel heights
– 23 automatic crop presets plus custom settings
– Optional printer
– Optional PCMCIA card reader
– Optional yield mapping

Yield Mapping
Data provided by the quantimeter and GPS system will help you determine which parts of the field provided the greatest yields.

Continuous Moisture Meter
Accurate crop moisture readings ensure precise dry yield calculations and provide you with useful information to make setting adjustments.

Hillside Leveling System
Work efficiently on steep slopes with this system.
The Cat combine will cut competitive mach\textsuperscript{ }

\textit{Clayton Befort}

Hays, KS
Barley, milo, soybeans, wheat and corn
many more acres in a day than a
ine and burn anywhere from
30 to 60 fewer gallons of fuel.
Caterpillar is famous the world over as the leader in diesel technology. Cat engines provide advanced electronics and rugged durability to give your combine the power to handle even the toughest conditions. At 400 hp and a power bulge up to 431 hp, the Cat C-12 diesel engine gives the Lexion 480 R/485 R the highest horsepower of any combine ever built. Right behind it, the Cat C-9 engine provides 340 hp using the most advanced engine design.

**The Power Behind the Lexion Combine is the Legendary Cat Engine**

Fuel Efficiency
You can count on Cat engines to get more horsepower from every gallon of fuel than any other engine. The Cat 3196 (C-12) engine was rated as the all-time fuel efficiency champion at the University of Nebraska Tractor Test Laboratory for a performance of 20.37 horsepower hours-per-gallon.

Cutting-Edge Technology
The C-9 and C-12 engines use ADEM III (Advanced Diesel Engine Management) technology to ensure smooth operation. Among other things, microprocessors make temperature-sensitive adjustments, cold start adjustments and changes to the fuel:air ratio.

Long-Lived, Worry-Free Operation
Caterpillar builds more high-horsepower diesel engines each year than any other company in the world. Cat engineers have pioneered reliability features like integrated oil and coolant lines to virtually eliminate leaks. The bottom line is year after year of reliable operation.

**Power Bulge**
Your Lexion combine has ample horsepower for tough conditions, but when you’re maximizing capacity and need even more power, you’ll appreciate up to a 31-horsepower increase.

<table>
<thead>
<tr>
<th>Engine</th>
<th>Model</th>
<th>Rated Hp</th>
<th>Bulge Hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-9</td>
<td>470 R/475 R</td>
<td>340</td>
<td>355</td>
</tr>
<tr>
<td>C-12</td>
<td>480 R/485 R</td>
<td>400</td>
<td>431</td>
</tr>
</tbody>
</table>

Horsepower
Spend Your Time in the Field, not in the Shop

Ease of maintenance is a major design feature of Lexion combines. The engine, radiator and internal components are easily accessible for maximum uptime.
Every day you can’t get in the field because of wet conditions takes its toll on yield. With the exclusive Mobil-trac system from Caterpillar, you can harvest on your schedule, not the weather’s. Lexion combines are the only combines designed specifically for tracks. The result is better performance and longer life.

**Soil Compaction**
Compacted soil limits yields by reducing the space available for plant roots, nutrients, soil moisture and air. Tracks reduce compaction by distributing machine weight over a larger footprint. By exerting less PSI, the Mobil-trac system undercarriage maximizes soil health.

**Flotation**
Tracks enable the Lexion combine to operate in wet conditions. Increased flotation means lower ground pressure and less rutting.
Track Advantages
A Lexion combine with the Mobil-trac system undercarriage does more than keep you in the field when the weather wants to keep you out. It preserves the condition of the soil by reducing soil compaction.

Wheels
A variety of tire sizes and tread types are available up to 20.8 R-42 (front duals) and 28.1 L-26 (rear).

Powered Rear Axle
Optional
For added power in poor field conditions, this option will keep you going.
Cat service is second to none. We work as hard preventing problems as we do solving them.

Paul Grzadzielewski
Ardoch, ND
Wheat, edible beans, sugar beets and corn
one. They treat you great. The service techs problems as they do fixing them.
Unbeatable Customer Service is the Foundation of Every Cat Dealer

Cat dealers earn their business by delivering responsive, skilled service to every customer. No matter where you are or what machine you own, your Cat dealer’s main focus is keeping your equipment running.

Mobile Service Fleet
If you need service on your Lexion combine, a trained service specialist will come to your farm quickly to provide on-site diagnosis and repair. Cat service trucks carry more specialized equipment than many repair shops. More than 95 percent of problems can be handled on-site, saving you valuable harvest time.

Preventive Maintenance
Cat dealers use sophisticated methods including scheduled oil sampling to prevent problems from ever occurring.

Service is Never Far
With more than 75 years of experience in providing the best possible support for customers, Caterpillar is proud that our ag customers rate us higher than any other major equipment manufacturer.
Parts Distribution Network
Every Cat dealer is connected to the 24-hour a day parts network. In addition to their local warehouses, Cat dealers can search an interactive database and request immediate delivery.

Cat World Trade
Ask your dealer about Caterpillar’s ability to trade commodities for equipment. This provides cost-free marketing to develop new outlets for your farm’s production.

Cat Financial Services
Financing never has to stand between you and owning or leasing a Lexion combine. Cat Financial offers competitive terms and flexible payment schedules, as well as add-on insurance and extended warranties.
## Specifications

<table>
<thead>
<tr>
<th>ITEM</th>
<th>LEXION 470 R/475 R</th>
<th>LEXION 480 R/485 R</th>
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</thead>
<tbody>
<tr>
<td><strong>Pre-Separation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>APS</td>
<td>APS</td>
</tr>
<tr>
<td><strong>Threshing</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cylinder diameter</td>
<td>24 in (610 mm)</td>
<td>24 in (610 mm)</td>
</tr>
<tr>
<td>Cylinder width</td>
<td>56 in (1420 mm)</td>
<td>67 in (1700 mm)</td>
</tr>
<tr>
<td>Preconcave grate area</td>
<td>572 in² (0.37 m²)</td>
<td>685 in² (0.44 m²)</td>
</tr>
<tr>
<td>Main concave grate area</td>
<td>1664 in² (1.07 m²)</td>
<td>1992 in² (1.28 m²)</td>
</tr>
<tr>
<td><strong>Separation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of rotors</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Separation area</td>
<td>4607 in² (3.00 m²)</td>
<td>9641 in² (6.22 m²)</td>
</tr>
<tr>
<td><strong>Total Threshing &amp; Separation Area</strong></td>
<td>6843 in² (4.44 m²)</td>
<td>12,318 in² (7.95 m²)</td>
</tr>
<tr>
<td><strong>Cleaning System</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total cleaning area</td>
<td>7639 in² (4.93 m²)</td>
<td>9286 in² (6.00 m²)</td>
</tr>
<tr>
<td>Cleaning fan</td>
<td>4 turbine fans</td>
<td>6 turbine fans</td>
</tr>
<tr>
<td>Electric sieve adjustment</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>3-D sieve</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caterpillar</td>
<td>C-9</td>
<td>C-12</td>
</tr>
<tr>
<td>Horsepower (rated)</td>
<td>340 hp (253 kW)</td>
<td>400 hp (299 kW)</td>
</tr>
<tr>
<td>Horsepower (bulge)</td>
<td>355 hp (265 kW)</td>
<td>431 hp (321 kW)</td>
</tr>
<tr>
<td><strong>Capacities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grain tank</td>
<td>280 bu (10,000 L)</td>
<td>280 bu (10,000 L)</td>
</tr>
<tr>
<td>Unloading rate</td>
<td>2.7 bu/sec</td>
<td>2.7 bu/sec</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>170 gal (650 L)</td>
<td>170 gal (650 L)</td>
</tr>
<tr>
<td><strong>Tracks/Wheels</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobil-trac system</td>
<td>35 in (889 mm) x 72 in (1825 mm)</td>
<td>Variety of sizes and treads; optional powered rear axle available</td>
</tr>
<tr>
<td>Front and rear tires</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transport Weight</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32,190 lb (14,600 kg)*/</td>
<td>33,730 lb (15,300 kg)*/</td>
</tr>
<tr>
<td></td>
<td>38,800 lb (17,600 kg)</td>
<td>40,340 lb (18,300 kg)</td>
</tr>
<tr>
<td><strong>Headers</strong></td>
<td></td>
<td>Corn heads; rigid, flexible, rice and pick-up headers</td>
</tr>
</tbody>
</table>

*With 800/65 R-32 tires. Actual weight will vary depending upon machine configuration.

## Dimensions

<table>
<thead>
<tr>
<th>Track Combines 475 R/485 R</th>
<th>Wheel Combines* 470 R/480 R</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 30' (9122 mm)</td>
<td>30' (9122 mm)</td>
</tr>
<tr>
<td>B 72&quot; (1825 mm)</td>
<td>—</td>
</tr>
<tr>
<td>C 16&quot; (4880 mm)</td>
<td>15’10” (4840 mm)</td>
</tr>
<tr>
<td>D 12’ 10” (3910 mm)</td>
<td>12’ 8” (3870 mm)</td>
</tr>
<tr>
<td>E 35” (889 mm)</td>
<td>—</td>
</tr>
<tr>
<td>F 14’ (4255 mm)</td>
<td>13’ 9” (4200 mm)</td>
</tr>
</tbody>
</table>

*Dimensions calculated using 800/65 R-32 tires.
Standard Equipment

**Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.**

### Electrical
- Alternator, 145 Amp, 12 volts
- One auxiliary electrical circuit
- Battery, maintenance free
- Lights:
  - Halogen transport and field
  - Grain tank and unloading auger
- Two rear lights, sieve light and returns auger light
- Warning and road tail lights with signal and two rotating beacons

### Operator Environment
- Pressurized cab with air conditioner and heater
- Radio ready with two speakers
- One large rotating windshield wiper and windshield washer system
- Electrically adjustable rearview mirrors
- Tilting, telescoping steering column
- Multi-adjustable operator seat with air suspension and seat belt
- Storage compartment under the seat
- Instructional seat with seat belt
- Cooling compartment for food and beverages
- Pivoting operator access ladder
- Cup holder, lighter, ashtray
- Courtesy lights (inside cab)
- Tinted glass
- Horns, front and rear warning
- Floor mat
- Controls and instrumentation
  - All controls for header and separation as electric or electro-hydraulic controls in the cab
- Hydrostatic ground speed control with multi-functional handle integrated in the r/h armrest of the operator seat
- 14 functions at fingertip control in the multi-function handle
- IMO Information Monitor system
- Clear view monitor in the r/h panel with display of all major combine functions, alarm system for all combine functions, integrated diagnostic system
- Grain loss monitor
- Independent hydraulic brakes
- Foot-operated parking brakes

### Powertrain
- CAT C-9, 340 hp (253 kW) (470 R/475 R)
- CAT C-12, 400 hp (299 kW) (480 R/485 R)
- Turbocharged, air-to-air aftercooled, six-cylinder diesel engine
- Electronic fuel shut-off
- 170-gallon (650 L) fuel tank
- Rotary screen air intake cooling system with dust extraction
- Rotary screen suction fan
- Air cleaner with dust ejector
- Variable hydrostatic ground drive with three-speed Servo-Shift transmission
- Three-speed Servo-Shift transmission
- Three-feederhouse lift cylinders and single accumulator header shock-absorbing system
- Multi-link header coupling system
- Slow moving vehicle emblem
- Fire extinguisher bracket
- Toolbox with assorted tools and parts

### Undercarriage
- Mobil-trac System undercarriage with 35” (889 mm) Caterpillar low-vibration belts (475 R/485 R)
- Front tires: 800/65 R-32 172 A8 Radial (470 R/480 R)
- Rear tires: 16.5/85-24 8PR

### Other Standard Equipment
- Header guidance: Contour
- Variable speed feederhouse (corn version)
- Fixed speed feederhouse (small grain and rice versions)
- Threshing
  - APS threshing system with:
    - Accelerator cylinder
    - Threshing cylinder
    - Multi-crop concave
  - Stone trap with remote dump
- Two rotor separation system
- Cleaning
  - Mechanical sieve adjustment
  - Four fluted turbine fans (470 R/475 R)
  - Six fluted turbine fans (480 R/485 R)
  - High performance cleaning shoe
  - Ventilated pre-cleaning step
  - General purpose chaffer and sieves, infinitely adjustable at three levels
- Removable preparation pan
- Regular cleaning fan air intake screen
- Grain handling
  - 280 bu (10,000 L) grain tank
  - 20’ unloading auger
  - 2.7 bushels per sec. unloading rate
  - Heavy-duty grain handling system (corn version combines)
- Electrically folding grain tank covers
- Adjustable covers for grain tank cross auger
- Serviceability
  - Flip open side shields
  - Central lube charts
  - Easy access lube banks
  - Hydraulic diagnostic quick disconnect
  - Central electric compartment
  - Electronic diagnostic recepactbles
  - Hydraulic reel drive
  - Hydraulic fore/aft reel control
- Three feederhouse lift cylinders and single accumulator header shock-absorbing system
- Multi-link header coupling system
- Slow moving vehicle emblem
- Fire extinguisher bracket
- Toolbox with assorted tools and parts

### Optional Equipment

#### Operator Environment
- Header guidance: Auto Contour
- Operator controls
- CEBIS – Combine Electronic Board Information System
- Reel control
- Auto speed; or auto speed/height
- Operator environment
- Quantimeter with sensor
- Yield mapping
- Auto Pilot
- Laser Pilot
- Automatic climate control
- Printer
- Cardreader
- Radio with weatherband or radio with weatherband and CD
- Electronic tailings monitoring
- Fuel consumption monitoring

#### Undercarriage
- Variety of tire sizes and tread types (470 R/480 R)
  - Rear axle
    - Non-powered, fixed or adjustable
    - Powered, adjustable to 120”
    - Powered, adjustable to 144”

#### Other Attachments
- Unloading auger lengths
  - 22.6’, 24.2’
- Residue disposal
  - Straw deflector; Straw chopper; Straw spreader
- Fixed speed feederhouse (corn version)
- Variable speed feederhouse (small grain and rice versions)
- Chaffer
  - 3-D sieve system
  - Chaffer fan and elevator guards
  - Electrical sieve adjustment
  - Spike tooth threshing system (rice version)
  - Feederhouse dust suction fan
  - Cylinder/concave conversion kits:
    - To small grain; To corn; To rice
- Cylinder drive
  - Single range; Dual range
- Separation
  - Rotor cover plates
  - 962 rpm rotor drive kit
  - 500 rpm rotor drive kit
  - 300 rpm rotor drive kit
- Variable 360 – 1050 rpm rotor drive kit
- Miscellaneous attachments
  - Small seed wind reduction kit
  - Chaff spreader