Serious Balers
for serious hay producers

Mention the name “Challenger” and people naturally think of the rugged track tractors first introduced in 1987. Now, visualize the same strength, technology and dependability in a round baler series.

That’s what you get with a Challenger® RB Series round baler model. Whether you need a machine for custom baling, silage bales or a family dairy, Challenger has an RB model to fit your needs. A total of six different models and four bale sizes cover the full range of bale widths, diameters, capabilities and machine technology.

Most importantly, you aren’t short-changed on features when your needs call for a smaller model. Every RB Series baler boasts a rugged steel channel and high-strength welded box beam frame, for longer service life; dual twine tubes for faster tying, and flotation tires to spread the weight on soft or irrigated fields.

The Best Of Both Worlds
The Challenger name may be relatively new in North America’s hay fields, but seldom has a farm equipment company grown to prominence as quickly as the Challenger brand. In just a few short years, the name has become synonymous with quality and service, particularly among professional and commercial producers whose output represents 75% of the world’s commodity production.

The rapid growth started in March 2002, when AGCO Corporation acquired the highly respected Challenger line of track tractors from Caterpillar and began expanding it into a full line of serious farm machinery. Today, the Challenger brand includes a rugged line of wheel and track tractors from 23 to 570 engine horsepower; a high-quality family of hay equipment, that also includes self-propelled windrowers, rectangular balers and mower conditioners, and three of the most productive and reliable combines on the market.

Equally important, we partnered with Caterpillar and the Cat® dealer organization to develop the highest level of customer satisfaction in the world. Nobody commands more respect for their integrity, in-field service and parts support than the Cat dealer network.

And nobody is better prepared to keep your hay equipment running, no matter the hour, day or location of your parts and service needs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Bale Size</th>
<th>Max. Bale Weight (Dry Hay)</th>
<th>Min. Tractor HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB453</td>
<td>46.5” X 60” (1,181 X 1,524 mm)</td>
<td>1,140 lbs. (518 kg)</td>
<td>55 (41 kW)</td>
</tr>
<tr>
<td>RB463</td>
<td>46.5” X 72” (1,181 X 1,829 mm)</td>
<td>1,644 lbs. (746 kg)</td>
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</tr>
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In a typical year, I'll bale alfalfa, straw, fescue and a few acres of corn stalks; so I need a baler that can make a solid bale out of anything I throw at it.
**Designed For**

*trouble-free baling*

Every Challenger® RB Series round baling model features an open-throat design that feeds the crop directly into a vertical, variable bale chamber. As the hay moves into the cavity created by the forming belts, a starting roll begins rolling it into a tight core.

Special Features Add Up To Big Productivity

Challenger RB Series round balers are built to deliver years of trouble-free service while improving productivity in a wide variety of crops and conditions.

A Wide, Low-Profile Pickup is standard equipment on all models.

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The Simple Drive System is concentrated on the left side of the machine for quick inspection and maintenance.

Wedgegrip Bale Forming Belts feature deep tread and an aggressive surface that helps with bale core formation in difficult crops.

No other system provides quicker starts or more diversity in a wide variety of crop conditions. There’s also less chance of plugging and less concern about bunched crop, dead spots or stripped leaves.

The variable chamber, meanwhile, ensures consistent density from the core to the outer shell, while providing a wide range of bale diameter choices. The result is a dense, easy-to-handle bale produced with minimal horsepower.

Flotation Tires spread the weight on soft or irrigated fields.

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Hydraulic Density Control ensures uniform density from bale core to outer wrap.

Lights and reflectors improve visibility when traveling on public roads.
Step Up To The

efficiencies of bale silage

Throughout North America, hay and livestock producers are turning to round bale silage as a way to conserve feed protein and relative feed value—as well as reduce the weather dependence associated with hay making. What’s more, using a round baler is one of the lowest cost methods of putting up silage. There’s no need for a silo, compaction equipment or even a silage blower.

However, round bale silage does require a baler that’s built to handle high-moisture material and the extra weight of silage bales. That pretty much describes a Challenger RB Series baler equipped with the optional silage kit (not available on all models). Also available as a field-installed option on certain models, the kit includes scrapers and other components to reduce crop buildup when baling damp, gummy material.
Professional Grade performance

Challenger® RB Series round balers are the finest in the industry in terms of strength and quality. However, when it comes to high capacity and professional-grade performance, we’ve got that covered, too. Whether you need an auto-wrap model from the new “3” Series, which includes the RB493, RB463 and RB563, or the fully automatic RB463A or RB563A, with their self-contained hydraulic systems, you’ll find a number of shared features that improve productivity and efficiency.

- Converging augers on each side of the wide pickup assembly extend the effective pickup width up to 84 inches to gather in large-volume and fluffy windrows.
- Center bulkheads on the pickup reels on all models, along with dual cam tracks on the RB563, RB463A and RB563A prevent tine bar twisting in heavy crop conditions and help extend service life.
- Semi-pneumatic gauge wheels, which can never go flat, promise less maintenance and improved pickup flotation.
- Double tailgate rollers improve bale starting and help carry the bale, for less stress on forming belts.
- Belts remain tight during bale ejection, reducing the chance of loose belts crossing or miss-tracking.
- Bale and belt tensions are controlled with four hydraulic cylinders for more consistent density and heavier bales.

- Edge-to-edge mesh wrap is available for wrapping bales even faster, while retaining more leaves and fine stems.
- A hydraulic bale ejector, which is gentler than spring-loaded systems, is standard equipment on the RB463A and RB563A and optional on “3” Series models. The ejector can also be turned on and off by the operator from the operator’s seat for greater control and convenience.

- Bale shape monitors use rollers that directly sense bale shape rather than belt slack for more accurate feedback to the bale monitoring system.
- An electronically controlled hydraulic baler clutch on the RB463A and RB563A works as a declutcher when an oversize bale is made; and acts as a slip clutch when an obstruction enters the baler.

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RB453, RB463 AND RB563: a size for every farm

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Designed for 4X5, 4X6 and 5X6 (1.18 X 1.52 m; 1.18 X 1.83 m; & 1.56 X 1.83 m) bales sizes, the new “3” Series Challenger balers build on the proven design of the RB463A and RB563A, while adding features for today’s producer.

We started by offering you both automatic and semi-automatic wrap modes on each model.

When baling in the automatic wrap mode, the operator is alerted when the preset bale size is reached. At that point, the baler will automatically tie or wrap the bale, while the operator cycles the tailgate using one double-acting tractor hydraulic remote.

When operating in the semi-automatic wrap mode, the operator is still alerted when the preset bale size is reached. However, the tying or wrapping cycle doesn’t begin until the cycle start switch on the control console or remote start switch is activated — providing the operator complete control of the tying cycle.

For even more efficiency, a mesh wrap system, which functions in the same automatic or semi-automatic manner, can be installed as a factory or field-installed option. A hydraulically actuated bale ejector that automatically cycles with the tailgate is also optional.

Technologically Advanced Monitoring

One of the best features of the Challenger “3” Series is its compliance with ISO BUS or ISO11783 control system technology. That means the RB453, RB463 and RB563 can be used with any tractor equipped with an ISO virtual terminal (VT) without the need to purchase a separate monitor.

Otherwise, the “3” Series uses the AGCO GTA Console I for monitoring and controlling all baler functions and settings. Equipped with an icon-based color screen, the GTA Console I allows the operator to quickly and easily navigate through a broad list of menus and settings using a single dial and a series of soft keys for input.

The GTA Console I permits the operator to select from four programmable twine spacing/tying memories to match specific crops. The monitor also includes four separate bale counters, plus a lifetime bale count. Other menus allow for manual cycle start; baler settings; mesh wrapping preferences, and service records.

Bale shape on the “3” Series is monitored by a three-bar color-coded bale shape display on the GTA Console I or VT. This unique feature not only tells the operator which side of the bale chamber needs to be filled, but identifies cone, barrel and hourglass-shaped bales. While a green bar is standard, a yellow bar means attention is needed and a red bar calls for immediate action to correct the bale shape.
The Most Advanced
balers in the business

RB463A And RB563A: Automatic Baling That Lives Up To The Name

If you can operate a tractor and push a button, you can build rock-solid bales with the Challenger® RB463A or RB563A. Unlike many so-called automatic balers, the RB463A and RB563A models are automatic in every sense of the word. Simply hitch up the baler to the tractor, connect the PTO and monitor, and start baling.

Once the system has been actuated, either automatically or manually, the baler’s hydraulic system wraps the bale with twine or mesh wrap, declutches the pickup and forming belts, opens the tailgate, ejects the bale, closes the tailgate and re-engages the pickup and forming belts. At that point, the monitor signals you to start a new bale.

A self-contained hydraulic system, which includes a pump, reservoir, oil filter and control valves, combined with state-of-the-art electronics, lets you concentrate on the field instead of the controls.

You can even choose the amount of automatic control you prefer. Set the baler to run the entire cycle at the push of a button (Auto Kick), or set it to wrap the bale automatically when the preset bale diameter has been reached (Auto Wrap). The auto wrap cycle can be delayed up to five seconds, giving the operator time to stop the tractor after the alert sounds. Then simply push a button to complete the cycle.

Choose the RB463A for bales that measure 46.5 inches (1,182 mm) in width, or the RB563A for 61.5-inch (1,562 mm) bales. Bale diameter with both models ranges from 30 to 72 inches (762 to 1,829 mm).

Fingertip Control Of All Functions

The in-cab control console for the RB46 and RB56 is much more than a baler monitor. With the push of a button, the operator can adjust everything from desired bale diameter to the number of twine end wraps. Using a separate switch, you can even raise and lower the pickup from the operator seat.

There’s no question about operating instructions, either. A “forward” arrow illuminates when the tailgate is closed and the baler is ready to bale, while “left” and “right” arrows tell the operator which direction to drive to make a solid, square-shouldered bale.

Special touch-pad switches control everything from bale size to the number of twine end wraps, while the monitor screen tracks all vital data — including bale growth, twine arm position and bale count.
We're up to The Challenge
"My customers rely on me to bale their crop. I need a dealer who I can rely on."

Every Challenger Purchase comes with world-class commitment

When you purchase a Challenger RB Baler Series, or any other Challenger model, you’re buying a lot more than a piece of farm machinery. You’re purchasing the Challenger commitment to quality and service.

If you haven’t already done so, take a close look at the RB Baler Series at your local Challenger dealership. You’ll quickly realize that it’s built to the highest standards of quality in terms of components and construction, as well as fit and finish. But the Challenger commitment extends well beyond steel and rubber. Consider just some of the benefits of being a Challenger customer.

Maximum Warranty Coverage
As a Challenger baler owner, you are assured of full warranty protection for one year. An Extended Service Plan is also available, assuring you continued support from your Challenger dealer.

Long-Term Challenger Support
In addition to bringing new thinking to farm equipment, the Challenger brand brings a whole new concept to sales and service through Cat dealers. It is our biggest difference and our greatest strength. And it may be the reason your operation could become more profitable with the assistance of Challenger equipment.

Higher Resale Value
Quality equipment demands a premium price, particularly when there’s no competition. Fortunately, a new RB Baler is extremely cost competitive, considering its advanced innovation. However, you can bet the technology built into the RB Baler Series, along with its long-term Cat dealer support, will ensure it retains its value in the future.

When you combine Serious Machinery with the Serious Dealers of the Caterpillar network, you’re looking at value that lasts well into the future.
### Specifications

#### Round Baler

**Model**
- RB453
- RB463
- RB563
- RB463A AutoCycle
- RB563A AutoCycle

**Bale Size**
- Diameter: min. (mm) 30 (762)
- Diameter: max. (mm) 72 (1829)
- Weight (Dry): lb (kg) 1140 (518)
- Weight (Max. Silage): lb (kg) 2000 (907)

**Dimensions and Weights**
- Overall Width: in (mm) 102.5 (2604)
- Overall Length: in (mm) 149 (3768)
- Overall Height: in (mm) 103 (2616)
- Weight: lb (kg) 5720 (2595)

**Bale Chamber**
- Number of Belts: 6
- Belt Width: in (mm) 7.0 (178)
- Bale Size Indicator: On Monitor and Visual On-baler
- Oversize Bale Protection: Audible and Visible Indicator

**Pickup**
- Width (Tine to Tine): in (mm) 60 (1518)
- Width (Inside, Panel to Panel): in (mm) 66 (1680)
- Width (Outside End to End): in (mm) 78 (1981)
- Number of Tines: 96

**Bale Wrapping**
- Twine Wrapping: Automatic, Electric Actuated
- Number of Twine Balls: Up to 8 (Depending on Size)

**Tractor Requirements**
- Horsepower (Minimum): hp (kW) 55 (41)
- Weight (Minimum): lb (kg) 6000 (2726)
- PTO Speed: rpm 540 (1000 w/Conversion)

**Optional Kits**
- Fire Extinguisher
- Short Crop Kit
- Silage Kit (For Non-Silage Balers)
- Hydraulic Bale Ejector
- Hydraulic Pickup Lift
- Mesh Wrap
In addition to bringing new thinking to machines, the Challenger team brings a whole new concept to sales and service through Cat dealers. It may be our biggest difference and our greatest strength. And it may be the reason your operation could become more profitable with Challenger equipment.

When you buy Challenger equipment you get the backing and support of the legendary network of Cat dealers. People who have been keeping contractors, construction, mining, landscaping, roadwork and just about every heavy-machine demand undertaking in the world, up and running…365 days a year, day and night. People who don’t take downtime lightly. That’s why we’re already creating Challenger brand loyalists—because every Challenger machine is backed by the same support. In fact, Cat dealers are second to none in on-location service.

With more mobile service trucks loaded with more diagnostic equipment than most repair shops, and better-trained technicians who work as hard at preventing problems as they do at repairing them.

Combine it all with our 24-hour-a-day parts network and you have the absolute gold standard in service. And it’s all at work, ready to maximize your productivity and uptime.

Plus, Cat dealers have a rock-solid commitment to agriculture. This partnership solidifies their confidence in the Challenger product by putting their name behind the sales force and service network. Combining Serious Machinery with the Serious Dealers of Caterpillar is shifting the way things have always been done. A shift we’re certain you’ll agree will soon be the standard to beat.

At AGCO Finance, we understand that financing is as much a part of your purchase decision as the features and benefits of the product. So we’re committed to providing the best means of acquiring the equipment you need, while allowing you to preserve other credit lines of operating capital.

We offer flexible payment schedules, flexible terms, quality service, competitive rates, comprehensive financing and leasing options, and virtually unlimited resources. All are available under one roof, at your authorized Caterpillar dealership.

Visit us at: www.challengerag.com