

Challenger

**MAKE HAY**  
with the  
**BEST**



Large Square Balers & Round Balers  
2250 | 2270 | 2270XD | 2290 | 2946 | 2946A | 2956 | 2956A



Challenger



When you farm in the world's most demanding environments, it takes a strong will and equally uncompromising equipment to get the job done. At AGCO, we understand this. So we designed an entire lineup of Challenger hay and forage machines powerful enough to tackle the widest fields, steepest hills and tightest hay harvest windows. Take advantage of our leading-edge precision hay-making solutions to transform your enterprise with reduced input costs, greater efficiency and profitability. You can be sure that behind every Challenger® machine, there's an authorized dealer prepared to keep your downtime to a rock-bottom minimum.



## Contents

---

- 4 Challenger Baler Series Overview
- 6 Large Square Baler 2200 Series Lineup
- 8 Reliability (2200)
- 10 Flexibility (2200)
- 12 Simplicity (2200)
- 14 Round Baler 2900 Series Lineup
- 16 Capacity (2900)
- 18 Speed (2900)
- 20 Ease of Use (2900)
- 22 Specifications

# As Fine As HAY GETS

We've always promised to help hay professionals produce the highest quality hay possible. For more than 35 years, the engineering behind these balers has delivered on that promise, time and again. Today, we're proud that our made-in-Hesston heritage and Challenger reputation for superior support make us the preferred choice for any professional. We intend to keep earning that distinction, with the kind of hay tools you just can't get anywhere else.

Whether you're an owner-operator, commercial hay producer or livestock producer, you're sure to respect Challenger's full series of balers. The 2200 Series balers are the finest in the industry, designed with the latest engineering and innovation. The 2900 Series round balers come ready to set the standard for innovation and performance in their field.









# The **PROVEN, ORIGINAL** Large Square Baler

The preferred choice of professional hay producers, the Challenger 2200 Series balers feature more than an industry-leading design that produces greater capacity, more consistent bales and better density than ever. Behind every bale is more than 35 years in the baler business and a dealer network that knows hay.

The 2250, making 3-foot-by-3-foot bales, is ideal for small- to medium-sized dairy and livestock operators who want a high-capacity machine, but prefer a bale that's easy to handle with a wide range of equipment.

The 2270 steps up to 3-foot-by-4-foot bales, making it perfect for custom hay operators and commercial beef and dairy farmers who need bales to be handy in storage and transport situations. If you need enhanced bale shape and density, the 2270XD offers the 2290 model's OptiForm® Extended Length Bale Chamber.

For commercial operations and custom hay producers who need to move the most hay in the least amount of time, the 2290 produces 4-foot-by-4-foot bales that weigh up to a ton each. This increase in size packs more material in each bale, creating bales that are rock-solid, well-formed and stack like bricks.

Get everything you're looking for in a large square baler including:

- On-board hydraulic system for easier hook-up and less dependence on variable tractor hydraulic systems.
- Increased number of sealed and tapered bearings, which means fewer service points and a 50-hour service interval.
- Streamlined, one-piece side shields that seal the twine boxes when closed to reduce crop debris buildup.
- The option to produce silage bales or precut bales on most models.



# Balers to COUNT ON

We pack a high level of reliability into our balers because, ultimately, performance means nothing without reliability. An optional automatic chain lubrication system is the first of many systems that help reduce the operator's daily maintenance and increase reliability. It regularly oils the packer, the cutter and the stuffer/knotter chains.

The selectable bale ejector enables the operator to eject a bale regardless of its position in the chamber - without "grabbing" an untied bale. Take advantage of a pre-compression flake chamber to form even, rectangular bales and a hydraulically driven, transverse knotter fan to keep the knotters free of debris, even in high-residue crops.

For easier loading and increased capacity, twine boxes on all models hold 30 balls of twine at a 30-degree angle. To gain even more twine capacity, the 2200 Series offers an exclusive ability to hold 30% more than standard twine balls. This "Giant Spool" system uses a unique mesh screen to hold twine in place. In the end, this all adds up to more efficient baling from your 2200 Series baler with less time spent maintaining it.



*Hydraulically driven transverse knotter fan boosts efficiency by keeping trash buildup to a minimum, increasing overall reliability.*



*30-ball twine storage protected by a one-piece sealed shield to reduce crop buildup.*

# FLEXIBILITY

## That Goes Long

You're in it for the long haul and we engineer a baler to match. The 2250 packer/cutter design incorporates cutter design with packer force. As the name suggests, it's a hybrid of the familiar Hesston packer system and the full rotary cutter system. A three-row packer actively pulls the crop across six spring-loaded stationary knives located in the floor of the packer chamber. This highly efficient system gives the operator maximum flexibility in dealing with varying crops and conditions.

To reduce crop length, the 2200 Series uses an optional heavy-duty rotary cutter to force crop material through stationary knives. It's



also designed to ensure smoother running, even in irregular swaths. Packer tines situated directly behind the rotor help guarantee even feeding into the pre-compression chamber for consistent bale shape.

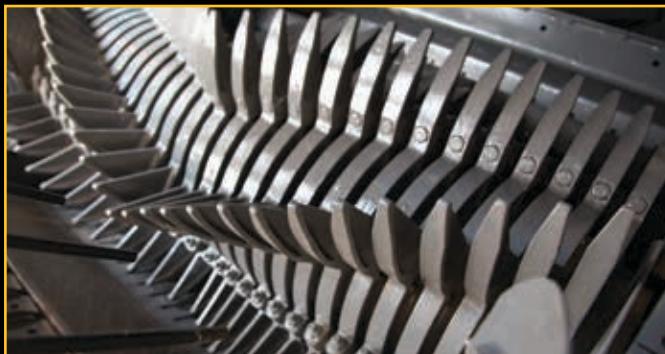
The OptiForm extended length bale chamber further enhances bale shape and uniform density in the 2270XD and 2290 models with a chamber increased by 16 inches. Get rock-solid and well-formed bales with uniform density. With upgraded hardware and increased durability, the 2270XD is perfect for baling corn residue, wheat straw and other energy crops.



## PROCUT™ OPTION FOR PRO PRODUCERS

Does your operation demand precision cutting into finer pieces? Then move up to ProCut™, the Hesston-built rotor cutter option available for 2250, 2270, and 2270XD models.

With ProCut, the packer is behind a larger, more aggressive rotor for better crop feeding. ProCut's new serrated knife design delivers true precision cutting - plus its hydraulic drop down and slide out knife bed simplifies service and maintenance.







# — Genius in — **SIMPLICITY**

Whether it's hay or straw or silage, precut or uncut bales, half-ton or one-ton packages – you pick the size and type that match your specific needs. Challenger promises the bale quality that adds to the bottom line whether you're feeding them, selling them or putting them up on a custom basis. All 2200 Series large square balers feature unitized, welded box-beam construction with high-strength steel mainframe, axles, hitch and main components to resist twisting. Inside you'll find parts equally built to last:

- The drive system is equally reliable, for less downtime, lower maintenance costs and greater resale value.
- Five simple chain drives perform all operating functions for greater reliability and less maintenance.
- A rugged, dual-reduction gearbox transmits power from the tractor PTO to the baler without the need for extra chain drives and maintenance.
- A larger heavy-duty flywheel, which incorporates an overrunning clutch and adjustable slip clutch, helps maintain plunger momentum, while reducing vibration and shock loads to the tractor.
- Optional tandem axles offered on all 2200 Series models improve flotation for increased field speed.
- Models with tandem axles automatically steer to reduce field scalping and can be locked while reversing and roading.

# 360 DEGREES of PERFECTION

Whether you need a machine for custom baling or the family farm, Challenger has a round baler to fit your needs. Four different models in two sizes offer features you won't find anywhere else including: on-board Auto-Cycle system, Quad Cylinder System, torsion axle and hydraulic de-clutcher. You'll also get the industry's widest standard pick-up with the easiest- and fastest-loading mesh system.

The 2900 Series offers two models, the 2946 that produces 4-foot-by-6-foot and the 2956 that creates a 5-foot-by-6-foot. Both models are available with either auto-tie or industry-leading Auto-Cycle that automate bale formation from start to finish.

These balers leave the factory with defined, factory-set specifications for baler settings, hydraulic functions and belt tracking, so they're ready to go to work with minimal setup. A 35-minute testing session puts each baler through its paces to help ensure it arrives on the farm needing only to be adjusted to that day's crop and field conditions.





**2946**  
AUTO-TIE  
4' x 6' BALES

**2956**  
AUTO-TIE  
5' x 6' BALES

**2946A**  
AUTO-CYCLE  
4' x 6' BALES

**2956A**  
AUTO-CYCLE  
5' x 6' BALES





# CAPACITY that holds ITS OWN

Challenging conditions are no threat to the 2900 Series. Reap the benefits of a redesigned rotor feeding system with adjustable feed auger strippers and plenty of room above the rotary stuffer and side augers to smoothly pull the crop into the bale chamber. See better and faster feeding in all crops including corn residue, soybean residue and wheat stubble. No other system provides quicker starts or more diversity in a wide variety of crop conditions.

Every 2900 Series round baler model features a QCS (Quad Cylinder System) for greater bale density while an open-throat design 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 forms it into a tight core. There's less chance of plugging and less concern about bunched crop, dead spots or stripped leaves. The variable chamber ensures consistent density from the core to the outer shell, while providing a wide range of bale diameter choices. The results speak for themselves: dense, easy-to-handle bales produced with minimal horsepower.

Upgrade to a solid windguard for residue crops like corn residue or wheat straw. Nine fingers on 5' balers and six on 4' balers grab the crop better and spread it for enhanced feed capacity and bale shape quality. Other standard enhancements include a stuffer and auger design lowered to make a wider throat opening, allowing higher speeds for enhanced feed capacity and less plugging in heavy crops. A wide, low-profile pickup provides a curved tip tine design, which minimizes crop damage and loss while enhancing crop pickup, whatever the conditions.



*Standard tine to tine pickup width of 80.6 in. on the 2956 models and 65 in. on the 2946 models.*

# More HASTE, Less WASTE

A black and white photograph of a tractor in a field. The tractor is positioned on the right side of the frame, showing its rear wheel and a part of its body. In the background, there is a field with some trees and a clear sky. The overall image has a slightly grainy, high-contrast look.

The 2900 Series drive system is built for performance, with a simple and clean design for both sides of the baler and a simple mesh loading system with less moving parts. The Quad Cylinder System and hydraulic de-clutcher allow greater belt life expectancy and, most importantly, improved bale density. This system includes two cylinders for belt tension and two cylinders for bale tension, maximizing bale density and reducing belt slippage.

Everything is engineered to keep you moving steadily toward your goal. The 2900's torsion axle has four rubber inserts that allow tires and hubs to move independently of the baler frame. The results are a gentler ride, greater stability and smooth pickup performance, allowing you to bale at faster field speeds and comfortably road your baler.





*Auto-Cycle with kicker provides ease of operation for the beginner operator, all the way to the most veteran baler operator in any field condition.*

*Our mesh stands apart by being the easiest and fastest to load in the industry. The 2900 Series round balers offer storage for an extra roll.*





Your Bales

# YOUR WAY

An array of features on the 2900 Series balers work to make a day in the field easier the way you want it to be. The C1000 Monitor, icon-based and user-friendly, displays mesh wrap and twine wrap settings, plus a bale counter. The operator can quickly and easily navigate through a broad list of menus and settings using a single dial and a series of soft keys for input. With ISOBUS control system technology, it can be used with any tractor equipped with an ISO virtual terminal (VT) without the need to purchase a separate monitor.

Bale shape on the 2900 Series is monitored by a three-bar color-coded bale shape display. 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. Three shape sensors are conveniently displayed on the monitor.

For the conventional owner, Auto-Cycle with kicker is prepared for uneven terrain operations, built for convenience and easier to operate. It automatically wraps or ties your bale, stops pickup and belts, raises tailgate, lifts kicker, lowers tailgate and restarts belts and pickup. Auto-tie with ramp helps the commercial owner on flat land fields for a faster cycle time and enhanced productivity.



*Our advanced C1000 Terminal makes it easy to monitor and control baler functions. With easy-to-use settings, real-time monitoring and a clear color display, the simplicity of this monitor leads to perfect bales every time for a wide range of users.*

**Fuse Connected Services from your Challenger dealer delivers a new level of proactive equipment and operational support.**

Enabled by AGCO'S AgCommand® Advanced telemetry tool, Fuse Connected Services optimizes performance by enhancing management of your fleet and individual assets. Eliminate guesswork with pre-populated service and maintenance intervals. Use machine performance analytics, prioritized alerts and theft recovery to minimize downtime. Access it all wirelessly via the web or a mobile device.

**FUSE**  
AGCO Connecting Your Farm



## Large Square Balers

2250 | 2270 | 2270XD | 2290

LARGE SQUARE BALER MODEL	2250	2270	2270XD	2290
<b>BALE SIZE</b>				
Width: in. (mm)	34.4 (875)	47.2 (1,199)	47.2 (1,199)	47.2 (1,199)
Height: in. (mm)	31.5 (800)	34.4 (875)	34.4 (875)	50.2 (1,275)
Length: in. (mm)	108 (2,743)	108 (2,743)	108 (2,743)	108 (2,743)
<b>DIMENSIONS &amp; WEIGHTS</b>				
Overall width w/single axle in. (mm)	102.2 (2,597)	118.1 (3,000)	118.1 (3,000)	129.6 (3,292)
Overall width w/tandem axles in. (mm)	108.2 (2,748)	118.1 (3,000)	118.1 (3,000)	118.1 (3,000)
Overall length: in. (mm)				
Without roller bale chute	303.9 (7,720)	305.2 (7,751)	320.9 (8,151)	324.4 (8,241)
Overall height: in. (mm)				
To top of folded hand rails	113.0 (2,870)	113.0 (2,870)	113.0 (2,870)	130.6 (3,317)
To top of raised hand rails	128.7 (3,270)	128.7 (3,270)	128.7 (3,270)	140.8 (3,576)
Weight: lbs (kgs)				
Baler w/single axle	15,080 (6,840)	19,701 (8,936)	21,665 (9,827)	23,197 (10,522)
Baler w/single axle, Cutter	18,662 (8,465)	21,773 (9,876)	24,074 (10,920)	
Baler w/tandem axle, Packer version	16,400 (7,440)	21,361 (9,689)	23,325 (10,580)	24,321 (11,032)
Baler w/tandem axle, Cutter version	19,923 (9,037)	23,433 (10,629)	25,728 (11,670)	
<b>MAIN DRIVE</b>				
Driveline type & category	All 2200 Series balers can be driven by a Type 2 or Type 3 PTO and can have a Category 6 or 7 Implement Driveline (IDL)			
Protection	Overrunning, slip clutch and shear bolt			
Gearbox	Enclosed double reduction			
<b>PICKUP</b>				
Overall width w/pickup wheels: in. (mm)	117.9 (2,994)	117.9 (2,994)	117.9 (2,994)	117.9 (2,994)
Inside width: in. (mm)	89.0 (2,260)	89.0 (2,260)	89.0 (2,260)	89.0 (2,260)
Number of tines	64	64	64	64
Tine spacing: in. (mm)	2.6 (66)	2.6 (66)	2.6 (66)	2.6 (66)
<b>PLUNGER</b>				
Speed: strokes / min.	47	47	47	33
Length of stroke: in. (mm)	29.1 (740)	29.1 (740)	29.1 (740)	32.8 (820)
Mounting	All 2200 Series balers have 2 front rollers w/tapered roller bearings, 2 rear rollers w/tapered roller bearings, two side rollers w/ball bearings			
<b>TIRES &amp; AXLES</b>				
Single axle	600-50 x 22.5, 12 Ply	700/50-22.5, 16 Ply	700/50-22.5, 16 Ply	28L x 26, 16 Ply
Tandem axle	500-50 x 17, 16 Ply	500/45x22.5, 12 Ply	500/45x22.5, 12 Ply	500/45x22.5, 16 Ply
Tandem axle upgrade	620/40R X 22.5 tires			
<b>TRACTOR REQUIREMENTS</b>				
Minimum horsepower – hp (kW)	120 (90)	130 (97)	150 (112)	150 (112)
Recommended horsepower – hp (kW)	150+ (112+)	170+ (127+)	180+ (134+)	180+ (134+)
Minimum horsepower w/ Cutter option – hp (kW)	180+ (134+)	200+ (149)	210+ (157+)	210+ (157+)
PTO speed (rpm)	1,000			
Minimum tractor weight – lbs. (kg)	14,214 (6,448)	19,216 (8,716)	20,515 (9,305)	21,536 (9,769)
Tractor hydraulics	1 double acting cylinder for pickup lift, 1 double acting cylinder for cutter knives (if equipped), 1 single acting cylinder for tandem axle steering (if equipped)			
Electrical system	12 volt DC			

## Round Balers

2946 | 2946A | 2956 | 2956A

ROUND BALER MODEL	2946/2946A	2956/2956A
<b>BALE SIZE</b>		
Width: in. (mm)	46.5 (1,181)	61.5 (1,562)
Diameter – max. in. (mm)	72 (1,829)	72 (1,829)
Weight (dry) lbs. (kgs)	up to 1,644 (746)	up to 2,200 (998)
<b>DIMENSIONS &amp; WEIGHTS</b>		
Overall width: in. (mm)	101.5 (2,578); without gauge wheels 101 (2,565)	116.5 (2,959); without gauge wheels 116 (2,946)
Overall length: in. (mm)	163.5 (4,153)	163.5 (4,153)
Overall height: in. (mm)	121 (3,073)	121 (3,073)
Weight: lbs. (kgs)	6,075 (2,756)	6,500 (2,948)
Tongue weight (empty): lbs. (kgs)	1,760 (798)	1,760 (798)
Tire size	21.5L x 16.1	21.5L x 16.1
<b>BALE CHAMBER</b>		
Number of belts	6 laced, wedge grip pattern	8 laced, wedge grip pattern
Belt width: in. (mm)	7.0 (177)	7.0 (177)
Bale size indicator	On C1000 monitor	On C1000 monitor
Bale shape indicator	On C1000 monitor	On C1000 monitor
<b>PICKUP</b>		
Width		
Tine to tine: in. (mm)	65.0 (1,651)	80.6 (2,046)
Inside, panel to panel: in. (mm)	67.6 (1,717)	82.6 (2,098)
Outside end to end: in. (mm)	83.7 (2,126)	98.7 (2,507)
Tines bars	4	4
Number of tines	104	128
Windguard	Adjustable rod	Adjustable rod
<b>BALE WRAPPING</b>		
Twine Wrapping	Auto-tie–electric actuated	
Number of twine balls	Up to 12	
Mesh wrap	Factory option or field installed	
<b>TRACTOR REQUIREMENTS</b>		
Horsepower (min.) hp (kW)	65 (48)	70 (52)
Tractor weight (min) lbs. (kgs)	6,000 (2,721)	7,000 (3,175)
PTO speed (rpm)	540 or 1,000	540 or 1,000
Hydraulic remote valves	Two double acting; one double acting (for 2946A)	Two double acting; one double acting (for 2956A)

*Challenger*

**Large Square Balers & Round Balers**  
2250 | 2270 | 2270XD | 2290 | 2946 | 2946A | 2956 | 2956A



Challenger® is a worldwide brand of AGCO Corporation.

© 2015 AGCO Corporation. AGCO is a registered trademark of AGCO. OptiForm® is a registered trademark of AGCO. Challenger® is a registered trademark of Caterpillar Inc. and used under license by AGCO. All rights reserved. AGCO, 4205 River Green Parkway, Duluth, GA 30096. CH17B005AG (TBD) 1 NA