

Challenger



WR Series Self-Propelled Windrowers
WR9840 | WR9860 | WR9870



Challenger

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When you need a full line of premium haymaking equipment, we've got you covered. All of Challenger's high performance self-propelled windrowers and balers are manufactured in Hesston, Kansas – a place with serious hay heritage. Every one of these machines produces more bales in less time through groundbreaking engineering and world-class service. Whether you're a custom operator, commercial hay producer or livestock owner, the toughest crops and conditions are no match for this lineup.



CELEBRATING

The 60th Anniversary

of the first self-propelled swather.

There's a reason Challenger's Hesston-built SP Windrowers have a well-earned reputation for quality and customer satisfaction.

Since the first self-propelled swather (built by Hesston, of course) rolled into the field 60 years ago, these engineering marvels have gone through 60 years of innovation and refinement. This ensures that the Challenger windrower you purchase today still leads the industry in:

- **Performance**
- **Efficiency**
- **Simplicity**
- **Reliability**

Our ultimate goal: to maximize profitability for Challenger customers.

CUTTING A WIDE SWATH: HESSTON-BUILT WINDROWER "FIRSTS"

*Self-Propelled Swather
Hydrostatic Transmission
Hydraulic Header Drive
Onboard Electronics
Performance Monitoring
In-Cab Monitor System
On-board Diagnostics and Troubleshooting
Fully Integrated Guidance System
Electro-Hydraulic Steering
Self-Cleaning Cooling System
Tier 4 Engine in Windrower
Draper Head
Sickle Head
Disc Head
Steel on Steel Conditioners
Double Conditioning System (first and only)
Hydraulic Roll Tension
Turbulence Reduction Roll
Shiftable Decks
Smart Draper Head Technology*



More hay.
LESS HAYWIRE.

Built to operate in the most demanding ag environments on Earth, the Challenger WR9800 series self-propelled windrowers are the latest evolution of the extremely successful WR Series. AGCO Power™ engines, with up to 225 rated horsepower and 240 boost horsepower, deliver more power to meet the toughest conditions and road speeds up to 24.5 mph with RearSteer for reduced travel time between fields.

Take control with an ergonomic hydro-control handle that is programmable for your specific needs and preferences, including features such as Auto Load Control and OptiCruise™ speed control. The WR9800's Electro-Hydraulic steering system also makes long days in the field more productive by lessening operator effort and making it easier to drive at faster speeds.

There's nothing like knowing you've got just the right tools for the job. No other windrower offers this exclusive combination of more than a dozen high-tech advances, developed in direct response to input from working hay producers. Once you run a WR Series windrower, you'll see why there's nothing like a machine made in Hesston. It is more than just a windrower – it is a Challenger windrower.





Technology that **STEERS YOU RIGHT**

Software on the WR9800 series windrowers allows a variety of components to communicate electronically and execute many of its functions automatically. These components include:

Electro-Hydraulic Steering

Auto-Steering

V-Cool™ Cooling System

Auto Rotary Compensation

Automatic Reel Speed

Automatic Header Float

Auto Load Control

OptiCruise



A Auto Rotary Compensation
The advanced Rotary Header Speed Compensation automatically compensates for different field conditions. As ground speed increases, the windrower will automatically increase header knife speed to compensate. As ground speed decreases, the knives will slow down.

B OptiCruise (located on back)
The OptiCruise function allows for more precise speed control when operating in rough conditions. The two buttons on the back of the hydro handle allow you to increase and decrease your speed smoothly (0.6 mph increments in 1st & 2nd speed range, 2 mph in 3rd speed range) without having to move the control handle.

C Auto Load Control
This feature automatically adjusts your ground speed based on the engine load and the header drive pressure to ensure maximum torque and efficient fuel usage. The load control on the monitor will give you instant feedback to what levels the windrower is performing.

Set a Course for
HIGHER EFFICIENCY



AUTO-GUIDE™ 3000 IS THE NEXT BIG STEP IN GUIDANCE.

All of our Challenger WR9800 series windrowers come ready to install the Auto-Guide 3000. You'll get the best windrower auto guidance in the industry with a complete, integrated autosteering system that works seamlessly with the FieldMax Monitor. It uses advanced satellite navigation to steer the windrower's ground drive pumps, removing much of the strain of field operations and leaving the operator free to focus their attention on optimizing performance settings and monitoring work more closely.

Running up to 17.5 mph, this highly advanced but simple-to-use automatic steering system will help you reduce input costs as well as operator fatigue.



At the end of the day, significantly reduced operator fatigue equals increased accuracy and greater efficiency on the farm.

C3000 terminal is an optional monitor to run Auto-Guide 3000

MAXIMIZE OPERATIONAL UPTIME WITH FUSE® CONNECTED SERVICES ENABLED BY AGCOMMAND®

Fuse Connected Services from your Challenger dealer means a new level of proactive equipment and operational support to improve efficiency and productivity.

Enabled by AgCommand, AGCO's industry-leading telemetry tool, Fuse Connected Services helps optimize performance through enhanced management of your fleet and individual assets. Eliminate guesswork with pre-populated service and maintenance intervals for each machine and utilize machine performance analytics, prioritized alerts and theft recovery to minimize downtime – all by wireless communication via web and mobile platforms for easy access to data.



Track your equipment and data from your smart devices

FUSE
AGCO Connecting Your Farm

Torque that TURNS HEADS

Our Challenger WR9800 series windrowers feature AGCO Power™ 6.6L, 4.9L and 4.4L engines that deliver up to 225 rated HP and generate a higher torque curve at 2,160 max engine RPM, while also being able to boost up to 240 HP at 1,900 RPM. These engines are specifically built to tackle the toughest ag applications while delivering more torque and greater efficiency.

EMPTY FIELDS. FULLER TANKS.

Not only do WR9800 series windrowers cut hay, they cut fuel costs, too. Pair the large fuel tank, at 130 gallons, with better fluid economy and you'll run all day and do it for less money.

ALL IN GOOD MEASURE.

Keep tabs on all the action with the FieldMax Monitor that monitors fuel economy by three different measurements, all in real-time – acres per gallon, acres per hour and gallons per hour. With the help of this information, operators can make adjustments to optimize fuel economy on the go.





WR 9800 Series
UP TO
240
BOOST HP

Works Hard. PLAYS IT COOL.

The toughest hay conditions are no match for an AGCO Power engine with QuadBoost™ Technology, which offers a high torque curve beginning at 1,400 RPM and maintaining torque output to 1,900 RPM. When it comes to fluid economy, maintaining this high torque at field RPM levels generates serious fuel savings. At the same time, the technological advancements of Tier IV emissions control lowers total fluid consumption so you can extract every last bit of work from every last drop of fuel.

LOWER YOUR MAINTENANCE

Our 3rd generation SCR/cEGR technology saves you more on DEF and diesel fuel across the board. And unlike the

competition, there's no Diesel Particulate Filter (DPF) to be cleaned or replaced. The result? You save time and money while helping your engine run better, stay cooler and last longer.

STABLE TORQUE AT ANY LOAD

Simply put, the 4-valve per cylinder engine design supplies more and denser air to increase HP, torque output and fuel efficiency at field RPM levels. Quad Boost on the WR9860 provides even more airflow into combustion chambers to provide an optimal combination of performance and efficiency.



KING OF THE ROAD

Our advanced drive control system pumps more hydraulic fluid in the field ranges to provide higher torque and speeds up to AutoGuide 3000's max field working speed of 17.5 mph. On the road, more flow is delivered to increase RPM for transport speeds up to 24.5 mph with RearSteer. It's speed that really pays off when you need to cover serious ground, giving you maximum control, responsiveness and stability.

RUNNING HARD IS A BREEZE WITH V-COOL.

Cut heat buildup and help keep your windrower's cooling system running at optimum efficiency with our self-cleaning V-Cool System. It's designed to keep itself clear of debris so you don't have to do the dirty work. Ultimately, you'll experience reduced service time, optimized efficiency and save on fuel.

Since the engine radiator and two hydraulic coolers are arranged in a unique V-shape, airflow makes a single pass through each element rather than passing through multiple elements on a typical stacked design. The system's temperature-activated, variable speed fan increases cooling efficiency by lowering RPM when the system needs less air.

Additionally, the hydraulic drive automatically reverses the fan every 15 minutes, or sooner if required, to forcefully clean the intake screen while you work. This eliminates the need for rotary screens or brushes. This is a windrower so advanced that it knows how to clean itself.







WORK in the lap of LUXURY.

We have redesigned and enhanced comfort and performance features within each Challenger WR9800 Series cab to give you a more inviting place to be on those long days in the field. Every feature, every improvement has been added in response to what hay producers have told us they need to increase efficiency and reduce fatigue.

The WR9800 series windrower offers you better suspension, back to front – starting with a solution to the common problem of rear end shock and bucking. With two gas shocks and a spring in the center of the axle, plus Flex Steel wheel support, our Glider Rider™ suspension system transfers load to the main frame, so bounce is reduced and comfort is increased – even at higher field speeds.

SIT ON TOP OF THE WORLD

Our deluxe semi-active air suspension seat features cooling as well as heating, side-to-side plus fore and aft movement with adjustable hydraulic suspension. This plus our GlideRider rear axle suspension and air suspension cab delivers serious comfort.

With pressure settings from 15 to 35 psi, our optional cab suspension system provides a ride similar to that of a tractor cab – a real plus when you're operating on pivots, borders or conditions involving dips, ruts, or ditches. A unique, deluxe semi-active air suspension seat takes constant, split-second readings of field conditions and adjusts its suspension instantaneously to reduce bounce. It also keeps you cooler or warmer, as needed.

HEAR AND FEEL THE DIFFERENCE

Our lower-decibel Tier IV engines, quieter hydraulics, added sound-deadening material and thicker floor mat all make the cab quieter and you happier in your workplace. In the midst of all that peace and quiet, you'll notice real ergonomic improvements, like optional automatic climate control, an upgraded, more intuitive side console and a steering column with a greater choice of steering wheel positions and adjustments.

A **DISC HEADER** as tough as **YOUR MACHINE.**

If you're determined to bring higher productivity, faster field speeds and cut thick crops with less daily maintenance, there's no faster way to do it than by driving a Challenger WR9800 series windrower equipped with a RazorBar™ disc head. These headers bring higher productivity and faster field speeds while requiring less daily maintenance.

With an industry-exclusive low-profile 13' or 16' RazorBar cutterbar, each gear assembly and idler gear can be individually removed without taking the whole cutterbar apart. And there's no need to split the gear modules for servicing. Easy to unbolt and reassemble, the idler gears and pins are removed through the top of the module, so there's also no need to remove the rock guards for servicing.

CONDITIONER ROLLERS

Crimp vs. Crush. Competitive windrowers still feature systems that condition your crop by crushing both the stems and the leaves to accelerate drying time. But damaging the leaves means lost nutrients, lesser quality hay and lower feed value.

With a single set of Herringbone Steel-on-steel conditioner rolls and header speed control, the 9195 and 9183 RazorBar header crimps stems every three to four inches. To speed drying time and further preserve leaf quality, our 9196 and 9186 models feature the TwinMax™ Advanced Conditioning System, which "double crimps" the crop through a total of four conditioning rolls, resulting in a crimp approximately every one to two inches. Conditioner roll pressure is maintained by a hydraulic roll tensioning system for consistent roll pressure, effective crimping and the best quality hay.



Our RazorBar™ cutter bars feature a low-profile, spur gear cutterbed that's thinner in design for closer cutting – so you can slice through lush alfalfa, tangled grass and tall Sudan with ease.



Our Turbulence Reduction Roll features built-in side augers to produce better windrows with fewer drives and a better cut in light crop.



Dual hydraulic motors, which drive the cutterbar from each end, provide an even torque load across the entire width of the cutter bar for increased reliability.





GAME CHANGER

In Draper Headers

Turn any WR9800 series model into a high capacity swather by simply adding a Challenger 5300 Series DynaSwath draper head, now equipped with a Hesston designed reel built for durability and performance. Choose from five center deliver header widths ranging from 20' to 40' or three double swath models. Center Delivery or Shiftable Deck is available on headers 25' and up. These shiftable draper heads let you position the swath at the center or to the left or right side of the header for double swaths. Since our sickle drive is hydraulically driven, it stays in rotation at all times, so there are no peak starting and stopping loads. That means no matter how close you're cutting, the 5300 Series delivers smooth, clean performance in canola, cereals, grass, forage or specialty crops.

Our standard sickle and guards are double-heat treated with longer tangs for improved cut quality low to the ground. To reduce excessive wear on the knifeback and the wear blades, we utilize an optional SCH Roller Guide that requires less power, reduces friction on the knifehead and enhances overall cutting performance.

TOP OF THE STACK SICKLE BAR HEADERS

Leave it to the company that invented the sickle bar header to provide the smooth, clean cut you demand. Available in 14-, 16- and 18-foot cutting widths, Challenger's 9126 header features our trademark dual augers, along with a double sickle and a single pair of conditioner rolls.

Available in 14- and 16-foot cutting widths, the 9146 model boasts our exclusive TwinMax™ Advanced Conditioning System, which features four independently controlled, steel-on-steel conditioner rolls for quicker drying, higher nutrient retention and simply better hay in every bale.

Our hydraulic roll tensioning system featured on all sickle bar headers maintains consistent conditioner roll pressure for effective crimping and the highest quality hay.

ENJOY the trip with REARSTEER.

Imagine an SP Windrower that's easy to steer and comfortable to drive on the road when in transport. Now make it a reality with our Hesston-built RearSteer option. It's the industry exclusive feature that will totally change your driving experience.

TAKE IT UP TO 24.5 MPH WITHOUT A HEAD. SERIOUSLY.

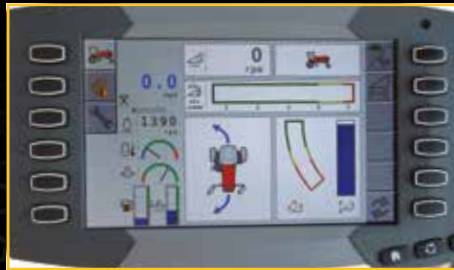
And take your draper header with you on the road for speeds up to 20 mph, so there's no wasted time.

HYDRAULIC, TRUE REAR STEERING



This top-of-the-line hydraulic feature puts you totally in control with stable, combine-type transport steering and a faster road trip.

CONTROL IT FROM YOUR CAB



Just make your monitor selection, engage RearSteer and drive away - all without leaving that comfortable seat.





MAKE HAY

== with the ==

BEST OF THEM

A well-oiled hay production line includes not only our windrowers, but also our tractors and balers. For custom operators and commercial hay producers, we offer large square balers in three sizes. In addition, our round balers are purpose-built for professional producers running at higher operating speeds. Every baler is manufactured in our Hesston, Kansas facility, an operation with serious hay heritage. Each machine has groundbreaking engineering and world-class Challenger service for producing more bales in less time.





WE DIDN'T BUILD THE WORLD'S BEST WINDROWER TO DROP THE BALL ON SUPPORT

When you buy a Challenger, you're buying more than a piece of farm equipment. You're buying the peace of mind that comes from a job well done and a machine well-built. Take a closer look at the WR Series at your local Challenger dealership, and you'll see that – down to the smallest detail – it's built to the highest standards.

DEALERS AND SERVICE: ABOVE AND BEYOND

For 365 days a year, day and night, under the most adverse conditions, our dealer network keeps North America's agribusiness in motion. Our dealers are second to none in on-location service. And their factory-trained technicians work as hard at preventing problems as they do repairing them. With more mobile service trucks loaded with more diagnostic equipment than most repair shops, it's little wonder the army of Challenger loyalists continues to grow. Combine this quality service with AGCO's 24-hour-a-day parts network and you get the gold standard in dealer support.

CHALLENGER FINANCING

We know financing is as much a part of your purchase decision as the features and benefits of the machine. So we offer flexible payment schedules and terms, quality service, competitive rates, comprehensive financing and leasing options and virtually unlimited resources. All are available under one roof, at your authorized Challenger dealer.

MAXIMUM WARRANTY COVERAGE

As a Challenger windrower owner, you get full warranty protection for one year on the machine, two years on the AGCO Power engine and three years on the RazorBar cutter bar. An extended service plan is also available, assuring you of additional support from your Challenger dealer.

RESALE VALUE

Quality equipment demands a premium price, particularly when there's no competition. Fortunately, the WR9800 series windrowers are extremely cost-competitive, considering their advanced innovation. Plus you can be confident the technology built into these windrowers, along with our long-term dealer support, will do nothing but help retain their value long into the future.

When you combine seriously evolved machinery with seriously dedicated dealers, you get long-lasting value.

SP WINDROWER MODEL	WR9840	WR9860	WR9870
DIMENSIONS AND WEIGHT			
Length overall w/out header – in. (mm)	199.7 (5,074)		
Wheelbase – in. (mm)	137 (3,482)		
Height - top of cab in. (mm) (23.1-26 Turf Tires)	137.8 (3,501)		
Tread width drive tires – in. (mm)	130.7 (3,320)		
Tread width tail wheels min. – in. (mm)	84 to 129 in 9" increments (2,135 to 3,277)		
Weight (approximate) w/out header – lbs. (kg)	11,250 (5,103)	11,305 (5,127)	11,420 (5,180)
SPEED (APPROXIMATE)			
Field range mph (km/h)	0 to 17.5 (0 to 28)		
Road range mph (km/h)	0 to 22 (0 to 35)		
RearSteer (optional) mph (km/h)	0 to 24.5 (0 to 39)		
ENGINE			
Model	AGCO Power™ 44 CTA T4F	AGCO Power™ 49 CTA T4F	AGCO Power™ 66 CTA T4F
Rated Horsepower (kW)	137 (103)	195 (145)	225 (168)
Boost Horsepower (kW)	148 (110)	208 (155)	240 (179)
Displacement – cu in. (L)	269 (4.4)	299 (4.9)	403 (6.6)
Fuel tank capacity – US GAL (L)	130 (492)		
GROUND DRIVE SYSTEM			
Type	Double planetary gear reduction		
Tandem pump	Sauer Danfoss H1 Axial Piston Pump		
Motors	Infinitely variable displacement		
FLOTATION SYSTEM			
Type	Hydraulic with independent left/right adjustable computer control		
TIRES			
Drive wheels	23.1-26 Bias Turf (R3), 23.1-26 Radial Turf (R3), 620/75R26 Radial Bar (R1)		
Tail wheels	14L-16.1, 8-ply implement rib, 16.5L-16.1, 10-ply implement rib		

RAZORBAR DISC HEADER MODEL	9183	9186	9195	9196
DIMENSIONS AND WEIGHT				
Width (overall) – in. (mm)	159 (4,039)		195 (4,963)	
Weight (with forming shields) – lbs. (kg)	4,025 (1,825)		4,780 (2,168)	
HEADER				
Header drive	Dual hydraulic motors			
Input shaft speed – max. RPM	2,500			
Header flotation	Hydraulic, adjustable from cab			
Header tilt	0° to 10°			
CUTTERBED				
Cutting width – in. (mm)	156 (3,962)		192 (4,895)	
Cutting height – in (mm)	.75 to 3 (19 to 76)			
Number of discs	8		10	
Number of knives	16		20	
Disc speed – max. RPM	2,500			
Knife Tip Speed – mph (kph)	189 (304)			
Cutterbed design	Modular spur gears			
Cutterbed oil capacity – qt. (L)	5.4 (5.1)		6.5 (6.1)	
Knives	18 degree bottom bevel			
Knife circle diameter – in. (mm)	24.5 (622)			
HAY CONDITIONER				
Type	Herringbone, Steel-on-steel			
Conditioner rolls	2	4	2	4
Length – in. (mm)	110 (2,794)			
Steel diameter – in. (mm)	7.75 (197)			
Speed – max. rpm	1,290			
Min. windrow width – in. (mm)	40 (1,016)			
Max. windrow width – in. (mm)	96 (2,438)			
Roll tension adjustment	Hydraulic with accumulator			



SICKLE HEADER MODEL	9126	9146
DIMENSIONS AND WEIGHT		
14' (4.3m) Header		
Width of cut – in. (mm)	168 (4,276)	168 (4,276)
Width (overall) – in. (mm)	188.4 (4,786)	188.4 (4,786)
Weight (less forming shields) – lbs. (kg)	3,850 (1,746)	4,940 (2,240)
16' (4.9m) Header		
Width of cut – in. (mm)	192 (4,877)	192 (4,877)
Width (overall) – in. (mm)	212.4 (6,005)	212.4 (6,005)
Weight (less forming shields) – lbs. (kg)	4,100 (1,860)	5,210 (2,363)
18' (5.5m) Header		
Width of cut – in. (mm)	216 (5,486)	N/A
Width (overall) – in. (mm)	236.4 (6,005)	N/A
Weight (less forming shields) – lbs. (kg)	4,400 (1,996)	N/A
HEADER		
Header drive	Hydraulic	
Header flotation	Hydraulic adjustable	
REEL		
Bats	5	
Diameter – in. (mm)	42 (1,067)	
Drive	Belt & chain	
Speed – RPM	72 - 83	
SICKLE		
Speed – spm (cpm)	1,840 (920)	
Stroke in. (mm)	3 (76.2)	
Guard angle (adjustable)	5° to 12°	
Drive	Timed gearboxes	
Number of sickles	2	
AUGERS		
Type	Dual, opposed rotation	
Upper auger diameter – in. (mm)	9 (229)	
Lower auger diameter – in. (mm)	10 (254)	
Upper auger speed – RPM	368	
Lower auger speed – RPM	585	
HAY CONDITIONER		
Type	Rubber-on-steel option, Steel-on-steel	Herringbone, Steel-on-steel
Conditioner rolls	2	4
Length – in. (mm)	110 (2,794)	
Steel diameter – in. (mm)	7.75 (197)	
Rubber diameter – in. (mm)	8 (203)	
Speed – max. RPM	1,026	
Min. windrow width – in. (mm)	40 (1,016)	
Max. windrow width – in. (mm)	96 (2,438)	

DRAPER HEADER MODEL	5300	20 FT (6.1M)	25 FT (7.6M)	30 FT (9.1M)	35 FT (10.7M)	40 FT (12.2M)
HEADER SPECIFICATIONS						
Drive	Hydraulic					
Header angle	4° to 18°					
Flotation	Hydraulic (on tractor)					
Draper opening	78.5 in. (2 m)					
DIMENSIONS AND WEIGHTS						
Width, overall	21 ft. 5 in. (6,536 mm)	26 ft. 5 in. (8,060 mm)	31 ft. 5 in. (9,584 mm)	36 ft. 5 in. (11,108 mm)	41 ft. 5 in. (12,632 mm)	
Width, cutting	19 ft. 9 in. (6,023 mm)	24 ft. 9 in. (7,547 mm)	29 ft. 9 in. (9,071 mm)	34 ft. 9 in. (10,595 mm)	39 ft. 9 in. (12,119 mm)	
Weight, with reel	3,800 lbs. (1,720 kg)	4,400 lbs. (2,000 kg)	5,000 lbs. (2,270 kg)	5,600 lbs. (2,540 kg)	6,200 lbs. (2,810 kg)	
Delivery style	Center	Center or Side				
SICKLE SPECIFICATIONS						
Speed, single sickle	–	1,300 spm			–	–
Speed, double sickle	1460 spm					
Stroke	3,331 in. (84.6 mm)					
Drive	Inline gearbox					
Guard spacing	3 in. (76 mm)					

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