

Challenger SP SERIES

SELF-PROPELLED

Challenger[®] WINDROWERS



We're up to
The Challenge

SP SERIES
85 TO 190 HP

Serious Machinery

built for serious hay producers

There was a time when hay harvesting involved nothing more than a sickle mower and rake. But that was then and this is now!

With prime alfalfa bringing three figures a ton, today's operator demands a tough, commercial-duty machine that can withstand punishing conditions, lay down big acres in record time and still maintain the full nutritional value of the crop.

That's exactly what Challenger® SP Series self-propelled windrowers deliver in three unique models designed to meet every budget and every need.

- SP185C - 190 horsepower (138 kW)
- SP115B - 115 horsepower (86 kW)
- SP85B - 85 horsepower (63 kW)

Versatility Is A Standard Feature

From day one, the goal at Challenger has been to provide customers more for their investment. It comes, in part, from the higher level of service provided by the North American Cat® dealers.

However, we've also gone the extra mile to design maximum versatility and adaptability into everything we build. Challenger SP windrowers are certainly no exception.

Rugged and reliable engines provide the power and torque to handle heavy loads and big acreage.

Large-diameter tires ensure a softer ride and a minimum of 39.8 inches (1011 mm) of under-frame ground clearance.

Specially designed header lift arms on the SP185C allow it to use any disc, sickle or draper header in the Challenger line-up. SP85B and

SP115B models can be fitted with any AHB or AHC Series sickle header, as well as any DHW Series draper header.

A "smart" hydraulic system allows the operator to change headers by simply attaching the header and connecting the electrical wiring harness. The tractor "senses" which header is attached and automatically adjusts hydraulic flow to match the header type (i.e. a draper header runs slower than a disc header).

A new hydraulic roll tension system allows the operator to easily adjust roll pressure when changing fields or crops, or when crop conditions vary.

Special Features Add Up To Big Productivity

Challenger SP windrowers are built to deliver years of trouble-free, rugged service, while improving productivity in a wide variety of crops and conditions.

- A long wheelbase (11.7 ft./3.6 m) and a wide stance deliver excellent stability and a smooth ride over any terrain.
- The walking beam axle is adjustable to three operating widths — 84 in. (2.1 m), 102 in. (2.6 m) and 110 in. (3 m).
- Hydraulic header drive eliminates the need for driveshafts and U-joints, and the service schedules that go with them.
- Hydraulic header flotation allows the operator to make header flotation adjustments on-the-go and without leaving the cab.

Contents

AHC Series Sickle Headers	4
DKHC Series Disc Headers	6
AHC/DKHC Swath & Conditioner Features	8
DHW Series Draper Headers	9
SP Windrower Power	10
SP Windrower Cab	12



PRECISION



We're up to
The Challenge 3

PRODUCTIVE



Hardworking AHC Series Sickle Headers

lead the industry

A windrower header shouldn't just provide clean cutting and reliability when it's new. It should feature the strength to last well into the future. After all, the header is really the business end of the whole machine.

Challenger AHC Series sickle headers are built for the long haul — from the rugged, box-beam mainframe to the spur gearbox on the conditioner drive to the polyethylene side shields that resist rust and dents.

AHC sickle headers are also designed for fast and simple repair when it comes time for routine maintenance or in-field service. Tine tubes, for example, are segmented between bulkhead spiders for quicker and easier tine replacement. Reel tine tubes rotate on sealed ball bearings for longer life and less downtime. And sickle sections are bolted to the sickle bar, rather than riveted, for faster field replacement.

Choose from three sizes — the AHC14 (14 ft., 4.3 m); AHC16 (16 ft., 5 m) and AHC18 (18 ft., 5.5 m) — to match your crop and field conditions. All feature hydraulic drive and hydraulic header flotation, which makes them interchangeable between all three Challenger tractor models.



Reliable Sickle Drive

You won't find a smoother, more reliable sickle drive than the half-swaybar system used on all AHC Series headers. Combined with a counterbalanced flywheel, the half-swaybar drives the sickle with a reciprocating motion that helps reduce peak starting, stopping and cutting loads.



Adjustable Reel Cam Track

An adjustable cam track allows the operator to control the point at which the crop is released from the tines to the augers. In effect, the header can be matched to a wide range of crop conditions with only minor adjustment.



Counter-Rotating Dual Augers

Dual, counter-rotating augers run the full width of the header, providing not one, but two "live" feeding elements for smoother, quicker transition from the reel to the conditioner. Unlike single augers, the dual auger system continues the "butt first" crop orientation started by the lean bar, while ensuring even feeding across the full width of the conditioner rolls.

And while there have been imitations, there are no equals. Challenger sickle headers feature a slip clutch on each auger for maximum protection, as well as center supports on the bottom augers for less vibration and reduced risk of damage. Plus, the top auger on the new C Series headers floats up to 1.4 inches (36 mm) for more efficient feeding of light crops while maintaining the ability to adjust to a heavy crop mat when necessary.



For even more versatility, the lower header pan can even be removed when cutting in abrasive sand or dirt.

- Flat, full-coverage sickle hold-downs ensure close tolerance between the sickle and guards for a cleaner cutting job and less mechanism wear.
- The box-beam frame includes a storage compartment for a pair of sickles so the operator always has a spare.
- The reel can be adjusted forward and back or up and down to handle most crop conditions.
- Skid shoes can be adjusted without tools for cutting heights up to five inches (127 mm).
- A walkway on the top of the header provides a safe place to stand when cleaning cab windows.
- A standard header reverser on all models allows the operator to back large objects or slugs out of the header without leaving the seat.

DKHC Series Disc Headers

slice through tough crops and downtime with equal ease

Nothing can stand in the way of Challenger's DKHC12 and DKHC15 disc headers... including a tight schedule. Designed to fit the Model SP185C, as well as the previous SP185B, these 12-foot (3.7 m) and 15-foot, 3-inch (4.6 m) headers handle the toughest crop conditions at speeds and efficiencies other headers can't begin to match. Whether you're cutting tall Sudan, tangled grass or lush alfalfa, the DKHC Series promise even cutting and gentle handling.

Gear-To-Gear Cutterbed Design

DKHC Series disc headers feature a rugged spur-gear design, which allows each gear assembly and adjacent idler gear to be individually removed through the top of the cutterbar without splitting the bar. That translates into less downtime, lower repair costs and more productivity.

The spur gear design also allows the cutterbed profile to be thinner for closer cutting.

Integral Skid Shoe/ Rock Guard

As a new feature on the "C" Series disc headers, the rock guards and skid shoes have been merged into a single, long-wearing plate with a smoother profile. The benefits include a dramatic reduction in mud buildup in damp fields. The one-piece unit also includes an access hole for removing the knife bolt when changing blades.

Economical Performance

Header speed can be adjusted independently from the engine speed — from 1,800 to 2,600 rpm — for better fuel efficiency and performance in different crop conditions. The electronically controlled speed sensor also maintains a set header speed as engine speed fluctuates.

Pre-lubricated sealed bearings on all gears provide a longer life while substantially reducing maintenance compared to cutterbeds that require regular oil checks.

The wide-profile gear teeth have been "shaved" prior to assembly for a better mesh, higher-load carrying capacity, longer life, less contamination and quieter operation.



Header tilt angle is adjustable from 0 to 10 degrees to match field conditions and crop types. In addition, four styles of cutting knives are available from service parts, including top bevel and bottom bevel blades.



VERSATILE



The cutterbed is set into a "cradle" that helps keep it from twisting or flexing, which could cause premature wear on gear teeth.

Challenger DKHC headers utilize a special turbulence reduction roll to move crop material from the cutterbed to the conditioner rolls. This special roll not only improves crop feeding in heavy crop, but it allows the conditioner rolls to be positioned farther away from the cutterbed. This reduces the air turbulence that can interfere with clean cutoff in light crop conditions.

The cutterbed is driven along its entire width by two separate hydraulic motors. The dual motors provide even torque load across the cutterbar for increased reliability.

Crop material is smoothly conveyed to the conditioner roll opening by a series of rotating cages that maintain high output in all crop conditions.

Leading The Way

in conditioner performance

Whether you select an AHC Series sickle header or a DKHC disc header, you can count on thorough crop conditioning and windrows that dry quickly and evenly. After all, you can't always count on Mother Nature to do her part.

Extra-Wide Conditioner Rolls

The conditioner rolls on all AHC and DKHC headers are 110 inches (2.8 m) wide for a reason. The extra width, compared to some competitive models, allows the crop to be distributed into a thinner mat for more uniform conditioning. The larger conditioner roll area also increases the capacity of the header.

A Choice Of Options

Take your pick of conditioner roll options on most header models, starting with a choice of either rubber-on-steel or steel-on-steel rolls on all three AHC sickle headers. Or choose the AHCT14 or AHCT16, which incorporate Challenger's innovative Twin Max conditioner.

Both DKHC headers, meanwhile, feature steel-on-steel rolls or the option of a new spoke conditioner on the DKHC15. The Model DKHCT15 includes the integral Twin Max conditioner.

Standard Roll Conditioners

Due to their special design, rubber-on-steel and steel-on-steel conditioner rolls are fully engaged to crimp plant stems along their entire length. Crop leaves are retained for higher protein content and stems dry at the same speed as the leaves. All steel-on-steel rolls also feature a new herringbone pattern, which helps evenly distribute the crop across the swath or windrow in a wider range of crop conditions.



Twin Max™ Conditioner

The Twin Max™ conditioner offers a new level of performance in hay conditioning. Unlike traditional conditioners, the Twin Max option utilizes not one, but two separate sets of conditioner rolls positioned in line for double conditioning. AHCT headers use two steel rolls followed by two rubber rolls, while DKHCT headers incorporate two sets of steel-on-steel rolls. All rolls — no matter the composition — utilize the new herringbone style.

Naturally, both sets of rolls are hydraulically tensioned for quick adjustment to varying crop and drying conditions.

- Roll spacing is quickly and easily changed with an adjustment bolt on each end of the header. A roll gap gauge adds convenience for precise adjustment.
- A spur gearbox directly drives the conditioner rolls through U-joint drive shafts designed to withstand the rolls' continual opening and closing.
- A nitrogen accumulator, which is included as part of the hydraulic roll tension system,

allows the rolls to separate and reset in the event an obstacle or an extra-large clump of hay is encountered in the field. There's no need to stop the windrower or even reset the roll spacing.

New Spoke Conditioner

For a unique conditioning action that's especially effective in grass hay, nothing beats the new spoke conditioner available on DKHC headers. A total of 74 free-swinging spokes, mounted on a rotor, spin at 1,030 rpm to effectively condition the crop and force it to rub against the conditioning panel. This, in turn, scuffs the waxy coating from the plant stems, allowing them to dry faster. Eight settings on the conditioning panel adjustment allow the operator to increase or decrease conditioning action to match the crop.

Swath Or Windrow

A one-piece swath shield on all AHC and DKHC headers allows the operator to lay down a full-width swath or a narrow windrow. An optional swathboard actuator kit, which includes an electric actuator, lets you change the shape of the swath without leaving the operator's seat.

Perfect Windrows Every Time

Windrow forming shields and an adjustable rear deflector let the operator build windrows from 40 to 96 inches (1016 mm to 2410 mm) in width to match any drying or harvesting situation. As a design improvement on the C Series, the forming shields are now attached to the header for easier removal and installation of the header.

DHW Series Draper Headers

make short work of big fields



It takes a big header to meet the capacity of today's larger combines... not to mention the time constraints of harvesting expansive fields of barley, wheat or canola. You'll find just what you need in the Challenger DHW Series draper headers.

Choices include five center-delivery models in 18-, 22-, 25-, 30- and 36-foot (5.5, 6.7, 7.6, 9.1 and 10.9 m) cutting widths, to match your exact crop and harvest requirements. Or choose from three triple-delivery models in 22-, 25- and 30-foot (6.7, 7.6 and 9.1 m) widths. These shiftable-drafter units let you position the swath at the center or to the left or right side of the header for double swaths.

Thanks to Challenger's unique mounting system, which includes a hydraulic system that adjusts itself to header demands, DHW Series headers can be mounted on any Challenger SP tractor, including the high-performance SP185C. Now that's capacity unlike anything in the industry.

Unmatched Versatility

Regardless of which model best fits your operation, you'll find plenty of variability in the form of guard angle adjustment; variable-speed reel (0 to 60 rpm), and variable-speed drapers, which can be adjusted from 0 to 600 feet (0 m to 183 m) per minute. Of course, the draper opening and header flotation can also be adjusted to meet the harvest demands of any crop, including flax, peas, grass seed and alfalfa.

- The hydraulically driven sickle drive system virtually eliminates peak starting and stopping loads. A planetary gear drive, which runs at 1,300 strokes per minute, ensures the speed and alignment for clean high-speed cutting in a variety of crop conditions.
- The low-profile cutterbar design lets you cut low to the ground when you need to, and still attain smooth feeding onto the drapers.

We're up to
The Challenge

Power to keep you moving



There's nothing worse than an under-powered self-propelled windrower, especially when you're harvesting first-cutting alfalfa at 6,000 feet (1830 m) of elevation. That's why we equipped every Challenger® windrower with the power to handle the most extreme conditions.

We started with a Caterpillar® Model 3054 diesel engine in both the SP85B and SP115B. The 4.4 liter (268 cu. in.), four-cylinder powerplant is naturally aspirated on the SP85B and turbocharged and aftercooled on the SP115B for 85 and 115 (63 kW and 65 kW) horsepower respectively.

Meanwhile, the SP185C features an upgraded Challenger Tier III "Endurance" engine with turbocharger and air-to-air intercooling. Thanks to electronic fuel injection, the new 6.6-liter (403 cu. in.) six-cylinder engine offers 190 (138 kW) horsepower at 2,400 rpm.

Proven Power And Efficiency

Cat Power

The Cat 3054 Tier II engines used in the SP85B and SP115B are electronically fuel injected and feature optimized swirl combustion for reduced noise levels and increased fuel efficiency... all while meeting EPA emission standards.

A unique piston design and combustion bowl shape creates the swirl of preconditioned air within the cylinder head before it enters the combustion chamber. This shortens the pre-mix burn period, allows for later ignition and reduces cylinder pressure and temperature.

Lasting Endurance

The Challenger "Endurance" engine used in the SP185C features the latest technology in cross-flow design, which includes cast inlet channels and combustion chambers. Endurance engines also feature internally balanced components for smoother operation and longer life. Other innovative features include:

- Cylinder head bolts are located in a circular pattern around the top of each cylinder.
- Mid-support of the cylinder liners reduces vibration by 75%, which, in turn, reduces engine noise and wear on the cylinders and cylinder liners.
- A Bosch electronic fuel injection pump and common-rail fuel injection provides quick and precise response to throttle movements.



Direct Drive

A Sauer-Danfoss hydraulic system incorporates wheel motors attached directly to the planetary drives for less maintenance and better protection of hydraulic components. The rugged direct-drive system also features increased torque and improved radial load characteristics.



Easy Engine Access

The one-piece engine hood offers two positions for faster, easier access. Tilt it back to a partially open position for daily service, or fully open for periodic service and maintenance. Top-hinged radiator compartment doors combined with hydraulic oil cooler and air conditioner condenser units that slide out further add to the service convenience.



Clean Air Flow

Only the cleanest air reaches the radiator, thanks to front-to-rear airflow. In contrast to competitive models, the engine and radiator on Challenger windrowers face forward and pull air through a self-cleaning, rotary screen (optional on the SP85B) positioned above the hood and behind the cab.

QUALITY

Rapid Refueling

A folding access ladder and service platform permit quick refueling. However, thanks to a 80-gallon (303 l) fuel tank on the SP85B and SP115B, and a 100-gallon (377.4 l) tank on the SP185C, it's not something you need to do often.



Optional Traction

Take your choice of turf tires or bar-tread tires on all models, depending upon the need for traction and flotation. Available options on the SP85B and SP115B are 18.4 X 26 turf tires, 16.9 X 28 R4 bar tread or 18.4R X 26 R1 bar tread radial tires, while the SP185C boasts a choice of 23.2 X 26 turf or 18.4 X 28 R4 bar tread tires.

Legendary Service Support

When you buy a Challenger SP Series windrower, you get the backing and support of the legendary network of Cat dealers... not just on the Cat engine, but on the whole machine. Cat dealers are second to none in on-location service with more mobile service trucks loaded with more diagnostic equipment than most repair shops. Combine that with our 24-hour-a-day parts network and you have the absolute gold standard in service.



We're up to
The Challenge

Challenger Windrowers

offer a new level of tranquility

Hay harvest can mean long hours in the cab... especially when the weatherman is forecasting rain in a few days. Challenger SP windrowers provide the comfort level to keep you going, no matter how long the days last.

It begins with a large, curved windshield so you don't have to look around corner posts all day. A total of 73 square feet (6.8 square meters) of tinted glass provides a clear view of the header and the crop ahead. Meanwhile, an air-suspended Grammar seat with adjustable backrest and lumbar support, absorbs the shocks of rough terrain.

The seat-mounted console, which adjusts vertically and horizontally to fit the operator, puts all regularly used controls at your fingertips. Plus, we put all the monitors where they're at eye level while viewing the header.

We even thought of the little things, like using reinforced rubber hoses, instead of steel lines, on the hydraulic system to reduce vibration and noise level in the cab.

Ultimate Comfort

Whether you're cutting alfalfa in July or canola in late September, you can count on a comfortable environment, thanks to a standard-equipment heater and 22,000 BTU air conditioner on all models. Four vent outlets let the operator direct air flow where it offers the most comfort.

Digital Data

A six-function electronic performance monitor, which is standard on the SP185C and optional on the SP85B and SP115B, monitors and records a variety of valuable field data, including header speed, acres per hour (Hectares per hour), field acres and total area harvested.

Full Gauge Package

An instrument gauge cluster incorporated into the control console includes gauges for water temperature, voltage, oil pressure, fuel level,

speedometer and hourmeter. Also included are monitors for hydraulic oil level, coolant level, hydraulic oil pressure, air cleaner restriction and transmission oil charge pressure.

- The right side cab window is hinged for ventilation and service access, and can be used as an emergency exit.
- Two 12-volt power outlets with independent 20-amp fuses provide power for a two-way radio, cell phone or other electronic equipment, such as a laptop computer.

Light Up The Night

Don't worry about running late. Eight rectangular halogen lights provide plenty of nighttime visibility. Five are mounted on the front of the cab, two at the rear of the cab and one at the rear of the tractor.



An air-suspension seat is standard equipment on "B" Series windrowers. The new seat has an adjustable headrest, adjustable backrest with adjustable lumbar support, isolator and shock absorber controls in addition to the normal fore/aft and height adjustment. The new retractable seat belt reduces the possibility of the belt getting tangled while not in use.



The monitor panel on the SP115B and SP185C features a row of indicator lights to warn the operator of problems, or the need to immediately stop the engine.



A single header/travel control lever puts all frequently used controls in the operator's right hand. In addition to speed and direction changes, the lever controls several header functions via a series of thumb switches. Depending upon the header in use, functions include header lift, swathboard actuation, draper shift and header tilt.



The two-spoke steering wheel provides a better view of the header and can be tilted to one of five positions for optimal operator comfort.



The standard instructional seat and seat belt, which now includes a backrest, folds for easy access to the cab; yet is readily available when needed by an instructor.

PERFORMANCE



SPECIFICATIONS

SELF-PROPELLED WINDROWERS

MODEL	SP85B	SP115B	SP185C
ENGINE			
Model	Caterpillar® Diesel	Caterpillar® Diesel	Endurance Diesel 6.6 CTA
Horsepower HP (kW)	85 (63)	115 (86)	190 (138)
Displacement cu in (L)	269 (4.41)	269 (4.41)	403 (6.6)
Fuel Tank Capacity US Gal (L)	80 (303)	80 (303)	100 (377.4)
DIMENSIONS AND WEIGHTS			
Length Overall with Header in (mm)	257.6 (6543)	257.6 (6543)	266.3 (6764)
Wheelbase in (mm)	140.0 (3556)	140 (3556)	140.0 (3556)
Height			
Top of Cab in (mm)	132.2 (3358)	132.2 (3358)	133.4 (3388)
Width			
Outside of Largest Tires in (mm)	146.5 (3722)	146.5 (3722)	156 (3949)
Tread Width			
Drive Tires in (mm)	127.6 (3241)	126 (3202)	131.9 (3348)
Tail Wheels - Minimum in (mm)	84.4 (2144)	84.4 (2144)	84.4 (2144)
Tail Wheels - Maximum in (mm)	120.0 (3048)	120 (3048)	120.0 (3048)
Weight (Approximate)			
Without Header lb (kg)	8500 (3856)	8650 (3924)	11,180 (5070)
TIRES			
Drive Wheels	18.4 x 26 Turf Tread 16.9 x 28 R4 Bar Tread 18.4R x 26R1 Bar Tread	18.4 x 26 Turf Tread 16.9 x 28 R4 Bar Tread 18.4R x 26R1 Bar Tread	23.1 x 26 Turf Tread 18.4 x 28 R4 Bar Tread
Tail Wheels	14L x 16.1 or 12.5L x 15	14L x 16.1 or 12.5L x 15	14L x 16.1
GROUND DRIVE SYSTEM			
Final Drive			
Type	Direct Drive Planetary	Direct Drive Planetary	Direct Drive Planetary
Transmission	Hydrostatic - Single Speed	Hydrostatic - 2 Speed	Hydrostatic - 2 Speed
Tandem Pump	Sauer-Danfoss, Series M44	Sauer-Danfoss, Series M44	Sauer Danfoss M44
SPEED (Approx.)			
Field mph (kph)	0 to 11 (0 to 17.7)	0 to 8.6 (0 to 13.7)	0 to 11 (0 to 18)
Road mph (kph)		0 to 15 (0 to 24)	0 to 15 (0 to 24)

WINDROWER HEADERS	FT (M)	SP85B	SP115B	SP185C
Type				
Auger Header ft (m)	14' (4.3 m), 16' (4.9 m) and 18' (5.5 m)	X	X	X
Auger Header - TwinMax™ ft (m)	14' (4.3 m) and 16' (4.9 m)	NA	X	X
Draper Header - Center-Delivery ft (m)	18' (5.5 m), 22' (6.7 m), 25' (7.6 m), 30' (9.1 m) and 36' (11 m)	X	X	X
Draper Header - Shiftable ft (m)	22' (6.7 m), 25' (7.6 m) and 30' (9.1 m)	X	X	X
Disc Header ft (m)	12' (3.66 m) and 15' 3" (4.65 m)	NA	NA	X
Disc Header - TwinMax™ ft (m)	15' 3" (4.65 m)	NA	NA	X



AUGER HEADER

MODEL	AHCT C-SERIES, TWINMAX™	AHC SINGLE CONDITIONER
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DIMENSIONS AND WEIGHTS

14 ft Header		
Width of Cut in (mm)	168 (4276)	168 (4276)
Width (Overall) in (mm)	188.4 (4786)	188.4 (4786)
Weight (Less Forming Shields) lb (kg)	4630 (2100)	3850 (1746)
16 ft (4.9m) Header		
Width of Cut in (mm)	192 (4877)	192 (4877)
Width (Overall) in (mm)	212.4 (5396)	212.4 (5396)
Weight (Less Forming Shields) lb (kg)	4900 (2223)	4100 (1860)
18 ft Header (5.5 m)		
Width of Cut in (mm)		216 (5486)
Width (Overall) in (mm)		236.4 (6005)
Weight (Less Forming Shields) lb (kg)		4400 (1996)

HEADER		
Header Drive	Hydraulic	Hydraulic
Header Flotation	Hydraulic Adjustable from the Control Console	Hydraulic Adjustable from the Control Console

REEL		
Bats	5	5
Diameter in (mm)	42 (1067)	42 (1067)
Drive	Belt & Chain	Belt & Chain
Speed rpm	72 to 83	72 to 83

SICKLE		
Speed spm (cpm)	1840 (920)	1840 (920)
Stroke in (mm)	3 (76.2)	3 (76.2)
Guard Angle (Adjustable)	5° to 12°	5° to 12°
Drive	Timed Gearboxes with Half Swaybar	Timed Gearboxes with Half Swaybar
Number of sickles	2	2

AUGERS		
Type	Dual, Opposed Rotation	Dual, Opposed Rotation
Diameter		
Upper Auger in (mm)	9 (229)	9 (229)
Lower Auger in (mm)	10 (254)	10 (254)
Speed		
Upper Auger rpm	368	368
Lower Auger rpm	585	585

HAY CONDITIONER		
Type		
Front	Herringbone, Steel on Steel	Herringbone Steel on Steel or Spiral Rubber on Steel
Rear (AHCT only)	Herringbone, Rubber on Rubber	
Length in (mm)	110 (2794)	110 (2794)
Diameter in (mm)		
Steel	7.75 (197)	7.75 (197)
Rubber	8 (203)	8 (203)
Speed (maximum rpm)	1026	1026
Windrow Width	Adjustable	Adjustable
Min in (mm)	40 (1016)	40 (1016)
Max in (mm)	96 (2438)	96 (2438)

DISC HEADER

MODEL	DKHCT C-SERIES, TWIN MAX™	DKHC SINGLE CONDITIONER DISC
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DIMENSIONS AND WEIGHTS

12' Header		
Width (Overall) in (mm)		150 (3810)
Weight (With Forming Shields) lb (kg)		3490 (1583)
15' 3" Header		
Width (Overall) in (mm)	186 (4724)	186 (4724)
Weight (With Forming Shields) lb (kg)	5070 (2300)	4280 (1941)

HEADER		
Header Drive	Dual Hydraulic Motors	Dual Hydraulic Motors
Input Shaft Speed (Maximum) rpm	2600	2600
Header Lift Range in (mm) to in (mm)	-3.3 (-84) to +25.1 (+638)	-3.3 (-84) to +25.1 (+638)
Header Flotation	Radial and Vertical Hydraulic, Adjustable from Cab	Radial and Vertical Hydraulic, Adjustable from Cab
Header Tilt	Hydraulic, Adjustable from Cab	Hydraulic, Adjustable from Cab
Header Angle	0° to 10°	0° to 10°

CUTTERBED		
Cutting Width		
12' Header in (mm)	N/A	144 (3658)
15' 3" Header in (mm)	183 (4648)	183 (4648)
Cutting Height	0.75 to 3 (19 to 76)	0.75 to 3 (19 to 76)
Number of Discs		
12' Header	N/A	8
15' 3" Header	10	10
Number of Knives		
12' Header	N/A	16 (2 per Disc)
15' 3" Header	20 (2 per Disc)	20 (2 per Disc)
Disc Speed (Maximum) rpm	2600	2600
Tip Speed (Maximum) mph (km/h)	184 (296)	184 (296)
Cutterbed Design	Spur Gears	Spur Gears

HAY CONDITIONER		
Type	Roll Conditioner	Roll Conditioner
Front	Herringbone, Steel on Steel	Herringbone, Steel on Steel
Rear (DKHCT only)	Herringbone, Steel on Steel	
Length in (mm)	110 (2794)	110 (2794)
Diameter in (mm)	7.75 (197)	7.75 (197)
Speed rpm (maximum)	1264	1280
Windrow Width	Adjustable	Adjustable
Min in (mm)	40 (1016)	40 (1016)
Max in (mm)	96 (2438)	96 (2438)

TYPE		
# of Spokes	N/A	74 V-Tines
Length in (mm)	N/A	110 (2794)
Diameter in (mm)	N/A	21.6 (550)
Speed rpm (maximum)	N/A	1030
Windrow Width		
Min in (mm)	N/A	36 (914)
Max in (mm)	N/A	96 (2438)

CENTER-DELIVERY & SHIFTABLE DRAPER HEADER

MODEL	DHW HEADER
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DIMENSIONS AND WEIGHTS

Overall Width	
Center-Delivery and Double Swath Model	
18 ft (5.5 m) in (m)	230 (5.84)
22 ft (6.7 m) in (m)	278 (7.06)
25 ft (7.6 m) in (m)	314 (7.98)
30 ft (9.1 m) in (m)	374 (9.50)
36 ft (11.0 m) in (m)	446 (11.33)

WIDTH OF CUT	
Center-Delivery and Double Swath Model	
18 ft (5.5 m) in (m)	219 (5.56)
22 ft (6.7 m) in (m)	267 (6.78)
25 ft (7.6 m) in (m)	303 (7.70)
30 ft (9.1 m) in (m)	363 (9.22)
36 ft (11.0 m) in (m)	433 (11.0)

WEIGHT WITH REEL LB (KG) APPROXIMATE	
18 ft (5.5 m) Center Delivery	2300 (1043)
22 ft (6.7 m) Center Delivery	2750 (1247)
25 ft (7.6 m) Center Delivery	3100 (1406)
30 ft (9.1 m) Center Delivery	3700 (1678)
36 ft (10.92 m) Center Delivery	4700 (2131)
22 ft (6.7 m) Shiftable Draper	2850 (1293)
25 ft (7.6 m) Shiftable Draper	3200 (1451)
30 ft (9.1 m) Shiftable Draper	3800 (1724)

HEADER	
Drive - Draper and Reel	Hydraulic
Guard Angle (4 Cylinder Tractors, Adjustable)	9° to 19°
Guard Angle (6 Cylinder Tractors, Adjustable)	4° to 18°
Flotation	Hydraulic
Size of Opening	
Without Draper Inserts	
Maximum in (mm)	70 (1778)
Minimum in (mm)	54 (1372)

CUTTERBAR	
Speed spm (cpm)	1300 (650)
Stroke in (mm)	3.125 (79.38)
Drive	Inline Gearbox
Guard Spacing in (mm)	3 (76)
Number of Sickles	One

DRAPER	
Drive	Hydraulic
Speed (Adjustable from cab) ft/min (m/min)	0 to 600 (0 to 183)
Width in (mm)	41 (1041)
Type - Rubberized Draper with Reinforced Slats	



Cat Dealers And Service world-renowned dealers, world-class service

In addition to bringing **new thinking** to machines, Challenger 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 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 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.

Visit us at: www.challengerag.com



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.