

R5 AND A5 SERIES



**GLEANER**  
AGCO

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## BE PART OF THE NEXT

# TRADITION

More than eight decades ago, three Kansas brothers first thought, “Why don’t we bring the thresher to the crop rather than vice-versa?” and hit upon the world’s first self-propelled combine—the GLEANER. That same tradition of contrarian practicality remains the calling card of today’s GLEANER line: Keep what works. Cull what won’t.

Today, nobody knows combine tech from snout to out better than GLEANER. We speak steel. Dream diesel. We’ve blended all we learned from three quarters of a century of innovative crop-flow management to cast a new transverse rotary combine series that’s everything you originally demanded of it — and more.

And next? We applied our tradition of expertise to an all-new line of axial combines that work within the nontraditional realities of today’s cropping. Together, they can take on any demand. From sidehill wheat to high-moisture corn, green stem beans to safflower, rice to edible beans. If you’ve seen it, we know how to glean it.

## GLEANER FULL-LINE SPECIFICATIONS

Model	A65	R65	A75	R75	A85
Class	VI	VI	VII	VII	VIII
Threshing system	Axial	Transverse	Axial	Transverse	Axial
Engine horsepower hp (kW) @1,900 rpm	300 (224)	300 (224)	350 (261)	350 (261)	429 (317)
Unloading boost hp (kW)	330 (246)	330 (246)	380 (283)	380 (283)	N/A
Power bulge hp (kW) @1,900 rpm	321 (239)	321 (239)	375 (280)	375 (280)	459 (342)
Grain tank capacity bu (L)	300 (10,570)	300 (10,570)	300 (10,570)	330 (11,629)	350 (12,334)
Unloading rate bu/sec* (L/s)	2.5 (88)	2.8 (99)	2.5 (88)	2.8 (99)	4.5 (158)
Threshing and separation area in <sup>2</sup> (m <sup>2</sup> )	4,437 (2.86)	5,459 (3.52)	4,437 (2.86)	5,459 (3.52)	5,121 (3.29)
Cleaning area in <sup>2</sup> (m <sup>2</sup> )	6,768 (4.36)	7,729 (4.99)	8,296 (5.35)	7,729 (4.99)	8,296 (5.35)
Factory configurations**	G/C/R	G/C	G/C/R	G/C	G/C

\* Per ISO Standard 5687

\*\* G = Small grains, C = Corn/soybean, R = Rice

VARYING NEEDS, VARYING SOLUTIONS.

# THINK: SYSTEM

GLENER engineers think of grain harvest as a system, changing from farm to farm, region to region. With that philosophy, we're not chained to any particular technology—we leave your dealer free to match the best tool to the condition. That explains why GLENER leads the industry with the largest choice of combine headers.

GLENER headers get all the attention they deserve. We've gone back and literally redesigned headers from the ground up, with the specific purpose of starting the controlled flow of crop material before it reaches the feed elevator. At the same time, our designs recognize the importance of speed and convenience, with features like single-lever, multicoupler connections that get you on and off, like that.



Electric, cab-adjusted stripper plates allow the operator to make on-the-go adjustments to meet changing crop conditions.



A self-contained, modular gear-box and torque limiter on each row unit provides greater durability and allows easier row width adjustment.

## 3000 SERIES CORN HEADS

Size	Row Spacing
6 Rows	30" (762 mm) - 36" (914 mm)
8 Rows	30" (762 mm) - 36" (914 mm) - 38" (965 mm)
12 Rows	20" (508 mm) - 22" (559 mm) - 30" (762 mm)



### 3000 Series Corn Heads

Our 3000 Series corn heads remain the industry's lowest-angle corn heads, at only 21.5 degrees. That means dividers slide under downed stalks and gently straighten them for fast, easy harvesting, with less damage. Standard adjustable stripper plates are electrically controlled in-cab. All-new knife roll option is available for prebreakup of BT corn.

## 4200 SERIES HEADERS

Size	Pickup
13' (4.0 m)	14' (4.3 m)
15' (4.6 m)	16' (4.9 m)



### 4200 Series Headers

The GLEANER 4200 Series high-capacity pickup headers include a 13 ft. (4.0 m)- or 15 ft. (4.6 m)-wide conveyor auger. Equipped with your choice of a Swathmaster or Rake-Up attachment, 14 ft. (4.3 m)-wide for the 13-ft. header and 16 ft. (4.9 m)-wide for the 15-ft. header, it provides a direct, smooth crop flow through even the densest windrows. With radial pin clutch protection, the 4200 Series comes with factory-installed adapter and pickup attachment.



GLEANER Ultra-Float Suspension uses a heavy spring and shock system to dampen rugged terrain and smooth out the rough spots. An advanced, hydraulically positioned windguard, which can be raised or lowered from the cab, improves feeding and reduces crop rolling.



All electrical and hydraulic connections are included in the single-point multicoupler for quick and clean hookup.



An independent hydraulic drive system contains its own reservoir pump and filter for reliable power to the cutterbar and side drapers.



Hydraulically driven SCH planetary gear sickle drive system moves the sickle at 1200 strokes/min with a 3 1/8-in. (80 mm) stroke for smooth cutting and increased performance.



The reinforced, rubberized canvas drapers feature slats constructed of reinforced fiberglass for strength and durability.



## 5100 SERIES DRAPER HEADERS

Model	Sizes
5100	25' (7.6 m) - 30' (9.1 m) - 36' (10.9 m)

### 5100 Series Draper Headers

The 5100 Series draper headers offer 41.5 in. (1,054 mm)-wide rubberized drapers to help reduce losses in easily threshed crops. Gap-free placement reduces grain loss. Available in 25-ft. (7.6 m), 30-ft. (9.1 m) and 36-ft. (10.6 m) widths, with a choice of universal U2 pickup or polytine pickup reel to match your cropping needs. Four coil springs provide six degrees of lateral float and 8 in. (203 mm) of vertical float, independent of the combine.

## 7200/8200 SERIES HEADERS

Model	Type	Sizes
7200	Rigid Cutterbar	20' (6.0 m) - 25' (7.6 m) - 30' (9.1 m) - 35' (10.6 m)
8200	Flex Cutterbar	20' (6.0 m) - 25' (7.6 m) - 30' (9.1 m) - 35' (10.6 m)

### 7200/8200 Series Headers

The 7200 Series rigid cutterbar headers begin with a solid-welded steel frame for a rock-rigid foundation. SCH epicyclic drive system assures a faster linear cut with less vibration. Plus, the precision factory-balanced conveyor auger also reduces life-sapping vibration. Available with new level-2, HCC pickup reel in widths up to 35 feet (10.6 m).

The 8200 Series flex headers start with all the standard features of the 7200, then add a choice of two sickle options: standard sickle or SCH sickle and guards. Its full-fingered auger ensures smooth crop flow out to its maximum 35-ft. (10.6 m) reach. New lightweight HCC reel design provides greater strength with increased visibility. Multicoupler for quick attach and go.



Electric, in-cab fore-and-aft reel adjustment comes standard, so you can adjust to changing crop conditions on the fly—even through lodged and weedy patches.



Optional SCH cutterbar knives on the 8200 bolt to the bar in alternating pattern to cut on both the top and bottom, vastly increasing cutting efficiency and extending wear life.



SCH fully enclosed epicyclic sickle drive provides a smooth linear movement that reduces stress, wear and vibration for better cutting performance.



Full-fingered auger with 7-in. (178 mm) flighting ensures a smooth, even flow of crop material to the feed chain system.



New optional orbit reel kit reduces the amount of material buildup behind the cutterbar for a better crop flow.

## R5 SERIES TRANSVERSE ROTOR COMBINES

Model	Engine hp (kW)	Unloading Boost hp (kW)	Grain Tank bu (L)	Unloading bu/sec (L/S)
R65	300 (224)	330 (246)	300 (10.570)	2.8 (99)
R75	350 (261)	380 (283)	330 (11.629)	2.8 (99)

- Long feeder house 1
- Two-stage, four-strand gathering chain system 2
- Natural Flow™ transverse rotor 3
- Cylinder drive belt with straight through drives 4
- Electric concave adjustment 5
- Chromed cage 6
- Accelerator rolls 7
- Distribution augers 8
- Grain covered pan 9
- Transverse fan 10
- Dual-stage outlet 11
- Safety rock door or stone trap 12
- Integral chaff spreader 13
- Dual tailings return 14
- Grain sample door 15
- Straw spreader 16





ENGINEERED TO LEAVE NOTHING TO LUCK.

# NATURAL FLOW™ FEEDING



GLEANER set the original standard for reliable crop feeding by choosing to work with the material flow rather than against it. That problem-solving philosophy begins at the point where the problems begin—where the crop is gathered and fed. The GLEANER R5 Series industry-exclusive feeding system conveys material from the header to the processing unit in a smooth, but aggressive, even flow of crop. The width of crop mat remains the same from the time it enters the feeder house to the time it enters the rotor. Its constant feeding angle supplies the Natural Flow™ processor with no twisting or turning of the crop mat, to enhance threshing and separating in all crop conditions. You can be sure nothing but crop material will reach the rotor too, thanks to the easy-close rock door that ejects foreign objects before they reach the concaves. Or, add the optional stone trap for fewer stops in extremely rocky conditions. The result: more crop harvested, more reliably, with less wear on the combine.

A generous 69 inch (1,752 mm)-long by 39 inch (990 mm)-wide feeder house powered by a large 8<sup>5</sup>/<sub>8</sub> inch (219 mm)-diameter front feed drum churns through the heaviest conditions. The hydraulically driven feeder house reverser is operated with the touch of a button from the operator's seat.

The feeder house pivots vertically at the first chain, anchoring the rear chain on a fixed angle regardless of header height. The second chain outpaces the first by 6 percent, so it's always hungry for more under even the highest flows. Four-strand undershot feed chains offer 33 percent more chain support to help prevent bent feeder slats.



Two 3 $\frac{1}{2}$ -in. (89 mm) header lift cylinders are capable of lifting all GLEANER headers.



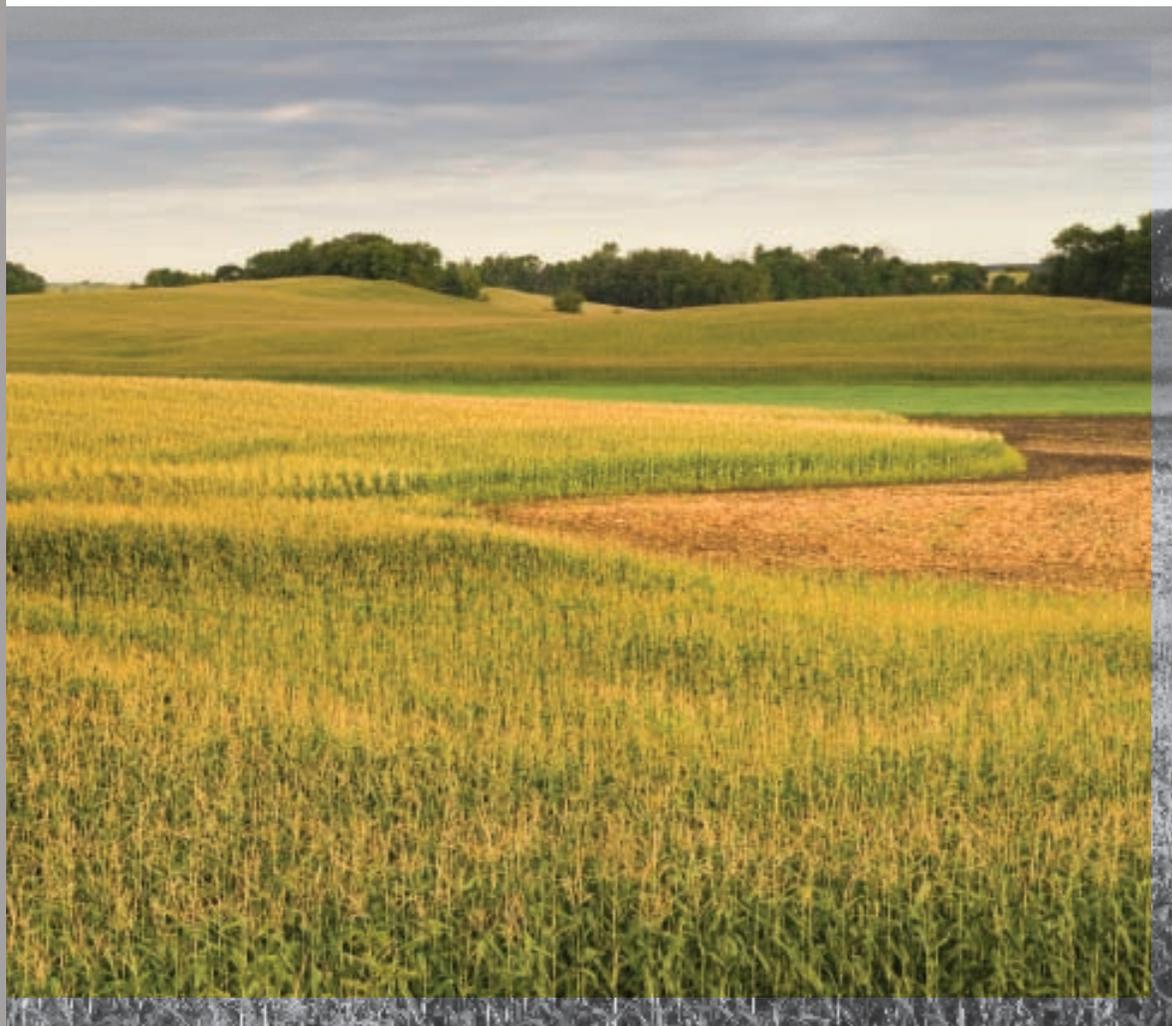
All header wiring and hydraulic couplers are now unified in a single multicoupler for easy, error-free, one-point connection.



A variable-speed corn header drive allows the operator to change the corn header and feed chains' speed to adapt to crop changes for the best productivity.



Two undershot four-strand feed chains provide high capacity and reliability. (Compression springs maintain feed chain tension.)



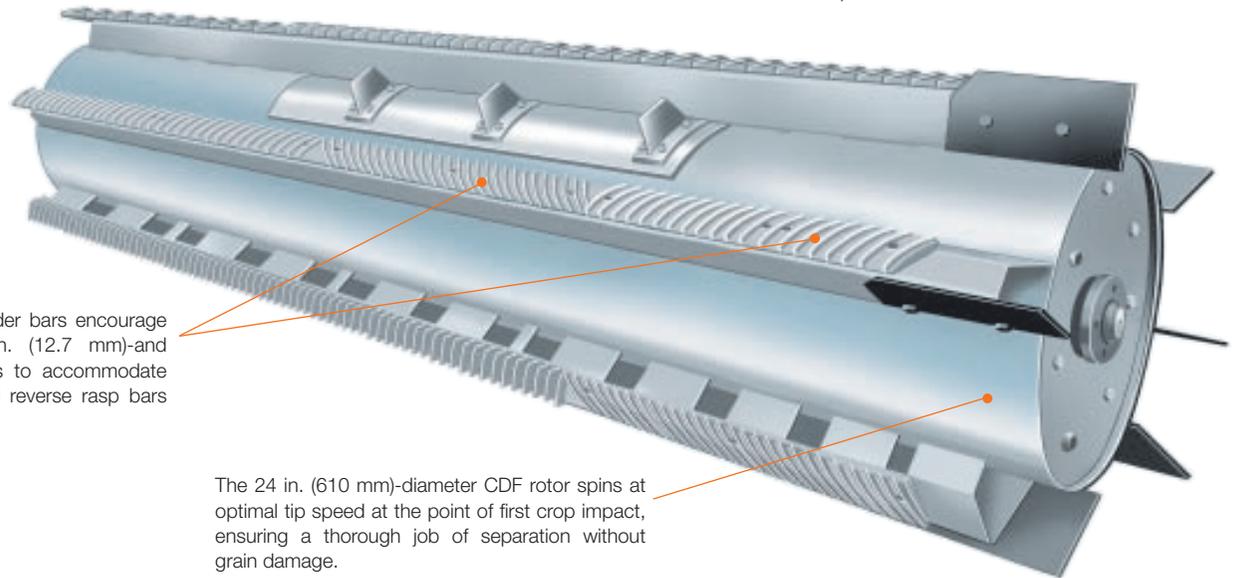
GET IT ALL. GET IT CLEAN.

# NATURAL FLOW

For GLEANER, successful harvesting comes down to one critical task: control the crop flow. Years of experience and tested engineering have taught us where the harvest bottlenecks occur—and better still, how to prevent them. The result: Controlled Dynamic Flow™ (CDF).

That's "Controlled" as in maintained and even, "Dynamic" as in adaptable to meet changing requirements, and "Flow" as in more crop cleaned faster, more reliably and with less damage. The ribbon of crop material flows through our exclusive CDF rotor without ever changing direction. Separation takes place throughout the full 360 degrees of the rotor cage, meaning better effectiveness on less power.

The large 24-inch (610 mm) CDF rotor uses just six rows of  $\frac{3}{4}$  in. (18 mm)-or  $\frac{1}{2}$  in. (12.7 mm)-spaced high-profile bars—chromed and reversible. They build just enough pressure to release grain that would normally escape other rotors, while taking less toll between bar and cage on the green-stem material. It's one of the toughest, yet gentlest grain machines on the market.



Chromed and reversible cylinder bars encourage long life. Available in  $\frac{1}{2}$  in. (12.7 mm)-and  $\frac{3}{4}$  in. (19 mm)-spaced rasps to accommodate tough crops. Factory-installed reverse rasp bars help reduce grain loss.

The 24 in. (610 mm)-diameter CDF rotor spins at optimal tip speed at the point of first crop impact, ensuring a thorough job of separation without grain damage.



The high-wire concave, unique to all GLEANER R5s, brings 1.4 in. (35 mm)-spaced wires closer to the threshing surface for complete, gentle threshing. Front grate adjusts independently of the concave assembly for varying conditions.



One button varies rotor speed via an electro-hydraulic valve. Concave settings are also adjustable to changing crop conditions, all from the operator's seat.



Rubber accelerator rolls, tilted 15 degrees toward the front of the cleaning shoe grain pan, accelerate grain downward four times faster than simple free-fall speed.



A high-volume, low-pressure curtain of air provided by the 1,150 rpm transverse-flow fan blows away light chaff as the accelerated grain passes through unaffected.



The grain pan receives the pre-cleaned material from the accelerator rolls and controls the flow to the chaffer for maximum efficiency.



Distribution augers in the separating system ensure uniform delivery of grain and material other than grain (MOG) to the accelerator rolls.

BECAUSE THE WORLD ISN'T FLAT:

# GRAVITY-INDEPENDENT CLEANING

Three industry-unique features come together in the GLEANER R5 Series cleaning system to earn the R5 Series a long-standing reputation as the go-to machine for preserving grain in sidehill and rolling terrain. Innovative GLEANER engineering prevents grain loss while maintaining gentle cleaning up to slope angles of 20 degrees with no compensating mechanism required. Here's how:

- Distribution augers in the threshing and separating system begin to distribute the material flow evenly before it ever reaches the cleaning system. Even distribution puts every part of the shoe to work—no dead space means an increase in effective cleaning capacity.
- GLEANER-exclusive accelerator rolls and transverse-flow fan allow for better precleaning before grain reaches the shoe. Rotating in timed opposition at adjustable speeds, the two fluted rubber accelerator rolls accelerate grain and chaff downward at four times the speed of free fall. Fired through an evenly distributed air curtain from an 11 inch (279 mm)-diameter, cab-controlled transverse fan, grain leaves chaff behind, landing gently on a cushion of grain on the flat louvered pan ahead of the chaffer. Lighter chaff blows out the rear while the pre-cleaned material receives full effective use of the chaffer.
- Dual-stage outlets provide air for precleaning at the upper duct and final cleaning at the lower duct. Efficient two-stage, high-velocity cleaning provides a high-quality clean tank sample, even at the highest harvest capacities.

TO THE KERNEL. TO THE GRAIN.

# TO THE PENNY

KEEP ALL YOU'VE EARNED.

Bringing grain producers a combination of large-capacity tailings and clean-grain elevators, high-volume tank capacity and smooth unloading efficiency, the technology behind the GLEANER R5 Series has long led the industry in grain handling.

It starts by building a combine with enough legs underneath it to bear the load. That's why GLEANER R5s employ heavy drives, unitized and welded frames, balanced weight distribution and high-horse engines. Then, it requires a clean-grain and tailings handling system that uses features like static-balanced augers and double-thickness flightings to ensure smooth operation and long life. It takes a tank with high enough capacity to swallow output from the longest field rounds, fed by a fill system that supplies grain at minimal horsepower and with little grain damage. Top that off with a standard 14-in. (356 mm) swivel-style unloader or factory-installed optional turret-style unloading system to reach into the highest carts for on-the-go unloading in the roughest terrain. Altogether, it adds up to a system that proves itself in both the quantity and quality of grain you put in the truck.



A clear view through the rear cab window, combined with mirror-handy perforated portholes on both upper corners of the grain tank remove any mystery about grain level.



With the tank extensions folded in transport position, the GLEANER is only 141 in. (3.58 m) in height.



Engineers designed the grain tank for natural grain flow, drawn off by a single auger in the bottom of the tank.



Standard-equipment 2.8 bu/sec (99 L/s) swivel unloader uses just one U-joint. Sensors have been installed to prevent engaging the unloading auger before the unloader tube has been fully extended.



By the touch of a button on the ergonomic multifunction handle, the unloading auger is extended and engaged.



The large clean-grain elevator can be adjusted from the ground for easier service.



Fuse box in cab provides easy access as well as protection from the elements.



A portable work light, which can be plugged into any one of three power connections, has a magnetic base for light when and where you need it.



A new optional auto-lubrication system eliminates one more tedious service task.

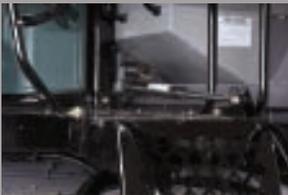
YOUR GLEANER WORKS FOR YOU,  
NOT THE OTHER WAY AROUND.

## DESIGNED FOR SERVICEABILITY



We understand that the most profitable time you spend around a combine is when you are seated in the operator's seat in the cab. That's why we purposefully design simplicity into all GLEANER combines and headers. Applying the latest harvesting technology by using the fewest number of belts, chains, augers and gear drives reduces the total number of moving parts, points of potential wear or breakage and the number of hours you have to spend on service—emergency and preventive. All without robbing you of performance.

The R5 Series walk-in rear engine compartment is the industry's largest, and its overall low center of gravity puts most machine parts within easy reach while keeping both of your boots on the ground. Easily accessible suction-type hydraulic filters, single reservoir and sight-level tube all work to limit service time demands without risking hydraulic system integrity.



Front and rear power ladders add simplicity and efficiency.



Wide concave and separator grate inspection door allow for quick checkups.



The dependable hydraulically driven rotary screen ensures constant and even airflow over all cooling systems for improved mechanical longevity and reduced service requirements. Screen and cooler swing up with the help of gas assist cylinders for easy and quick cleaning.

# GLEANER OFFERS A **RESIDUE MANAGEMENT SYSTEM** FOR EVERY NEED



No maintenance and no additional cost. Now that's a concept any farmer can embrace. And, that pretty much describes the chaff spreader on the GLEANER R5 Series. It's just one part of the efficient residue management system that ensures uniform residue and chaff distribution. This system is especially important when it comes to uniform seed emergence and incorporation of chemicals and fertilizer...not to mention the push toward conservation tillage.

The chaff spreader on all R5 models is an integral system that efficiently uses the high volume of air passing below the accelerator rolls to literally blow chaff out the back of the combine. Furthermore, an adjustable tailboard and fins help spread shoe material as it leaves the machine, spreading it into an even wider swath. There's no stripping of material, no mechanical drives and no extra cost.

Meanwhile, straw, corn stalks and stems exit the rotor discharge where MOG is handled by your choice of spreaders and choppers. Of course, if you're one who likes to bale the straw or stover, there's not a better combine to follow. Simply remove two bolts to remove the standard spreader and drop the residue into a clean, compact windrow.



A mechanical two-speed, single-disc straw spreader allows full adjustment of spread pattern to match the header width and current cropping practices.



Put control at your fingertips with a hydraulic single-disc spreader that allows variable speed from 75 to 400 rpm via an in-cab control.



Chop residue even finer for faster decomposition and easier incorporation with the two-speed, fine-cut straw chopper.



For extra heavy chaff spreading, add the optional hydraulic chaff spreader. Two hydraulically driven impellers promise extra-wide distribution.

## R5 SERIES TRANSVERSE COMBINE SPECIFICATIONS

Make Model	GLENER R65	GLENER R75
<b>GENERAL</b>		
Class size	VI	VII
<b>FEEDING SYSTEM</b>		
Chain size	#557 serrated	#557 serrated
Variable speed drive	Available	Available
Feed reverser	Electro-hydraulic	Electro-hydraulic
Housing width in. (mm)	39 (914)	39 (914)
Lateral tilt	Available	Available
<b>THRESHING/SEPARATION SYSTEM</b>		
System	Transverse rotor	Transverse rotor
Concave type	2 sections with 14 bars	2 sections with 14 bars
Concave wrap	98°	98°
Rock protection	Available	Available
<b>Rotor/Cylinder/Threshing</b>		
Bars, type	Chrome, reversible	Chrome, reversible
Diameter in. (mm)	25 (635)	25 (635)
Length in. (mm)	88 (2,235)	88 (2,235)
Degree of separation	360°	360°
Speed, low-range rpm	200 - 524	200 - 524
Speed, high-range rpm	418 - 1,096	418 - 1,096
Concave/grate area in <sup>2</sup> (m <sup>2</sup> )	847 (0.54)	847 (0.54)
Separating area in <sup>2</sup> (m <sup>2</sup> )	4,612 (2.97)	4,612 (2.97)
<b>CLEANING SYSTEM</b>		
Cleaning stages	2	2
Chaffer area in <sup>2</sup> (m <sup>2</sup> )	3,889 (2.51)	3,889 (2.51)
Sieve area in <sup>2</sup> (m <sup>2</sup> )	3,397 (2.19)	3,397 (2.19)
Total area in <sup>2</sup> (m <sup>2</sup> )	7,729 (4.99)	7,729 (4.99)
Cleaning fan	Transverse	Transverse
Speed rpm	1,150	1,150
Diameter in. (mm)	11 (279)	11 (279)
<b>GRAIN-HANDLING SYSTEM</b>		
Dual tailings return	Available	Available
Tank capacity bu (L)	300 (10,572)	330 (11,629)
<b>Unloading Auger</b>		
Diameter in. (mm)	14 (356)	14 (356)
Unload rate bu/sec (L/s)	2.8 (99)	2.8 (99)
Length from centerline in. (m)	250 (6.36)	250 (6.36)
Discharge height in. (m)	166 (4.21)	166 (4.21)
Clearance height in. (m)	151 (3.84)	151 (3.84)

Make Model	GLENER R65	GLENER R75
<b>CROP RESIDUE DISPOSAL</b>		
Chopper	2 speed	2 speed
Straw spreader	2 speed	2 speed
Hydraulic chaff spreader	Optional	Optional
<b>ENGINE</b>		
Model	AGCO 84CTA	AGCO 84CTA
Displacement in <sup>3</sup> (L)	513 (8.4)	513 (8.4)
No. of cylinders	6/inline	6/inline
HP @ 2,100 rpm SAE (Kw)	300 (223)	350 (261)
Fuel tank capacity gal (L)	150 (568)	150 (568)
<b>DRIVE/PROPULSION SYSTEM</b>		
Hydrostatic transmission	4 speed	4 speed
Final drive type	Spur gear S-39	Spur gear S-39
Tread width standard/reversed in. (m)	120/145 (3.05/3.68)	120/145 (3.05/3.68)
<b>Steering Axle</b>		
Tread width adjustable axle in. (m)	119/143 (3.02/3.65)	119/143 (3.02/3.65)
Tread width RWA in. (m)	126/144 (3.20/3.65)	126/144 (3.20/3.65)
Steering type	Dual cylinder	Dual cylinder
Turning radius in. (m)	270 (6.58)	270 (6.58)
<b>HYDRAULIC SYSTEM</b>		
Hydraulic pump	Gear	Gear
Control valve	Electro-hydraulic	Electro-hydraulic
Tank capacity gal (L)	6 (22.7)	6 (22.7)
<b>CAB AND CONTROLS</b>		
Seat	Luxury/air ride	Luxury/air ride
Steering wheel	Tilt/telescope	Tilt/telescope
Controls	Right hand console	Right hand console
Interior volume ft <sup>3</sup> (m <sup>3</sup> )	121.4 (3.44)	121.4 (3.44)
Glass area ft <sup>2</sup> (m <sup>2</sup> )	61.2 (5.69)	61.2 (5.69)
Field lights	12	12
<b>DIMENSIONS</b>		
Transport height in. (m)	141 (3.58)	141 (3.58)
Length w/o header in. (m)	303 (7.69)	303 (7.69)
Wheelbase in. (m)	134 (3.40)	134 (3.40)
Base weight with tires lb (kg)	27,600 (12,500)	28,500 (12,800)
Ground clearance in. (mm)	19.5 (495)	19.5 (495)

THE GLEANER ADVANTAGE:  
EXPERIENCE + **VISION**

During the last two decades of the hard-knocks school of combine design and redesign, quick fixes have come. And gone. Chasing the new and unforgiving cropping conditions that have left their knowledge far behind, many combine makers were left asking, “Now how do we sell what we’ve designed?” Instead, GLEANER again turned tradition on its head. We asked you what we needed to build.

As a result comes the all-new A5 Series axial-rotor line of GLEANER combines. The new A5 Series arises from our familiar tradition of innovation. It grows from looking at things through the windshield from your side—keeping simplicity and productivity always in view—understanding that one combine model never fits all conditions.

Let’s face it. A good dose of Wow! always goes into selling combines. To GLEANER, there’s no bigger Wow! factor than a reliable stream of high-quality, clean grain gushing into the cart at up to 4.5 bushels/second (158 L/s). We have married the best technology from transverse and axial design to bring you new machines that offer the same outstanding reliability and performance you expect in GLEANER. It will impress you where it counts: the grain ticket.

A5 SERIES AXIAL ROTOR COMBINES

Model	Engine Power hp (kW)	Power Bulge hp (kW)	Grain Tank bu (L)	Unloading bu/sec (L/s)
A65	300 (224)	321 (239)	300 (10,570)	2.5 (88)
A75	350 (261)	375 (280)	300 (10,570)	2.5 (88)
A85	425 (317)	459 (342)	350 (12,334)	4.5 (159)



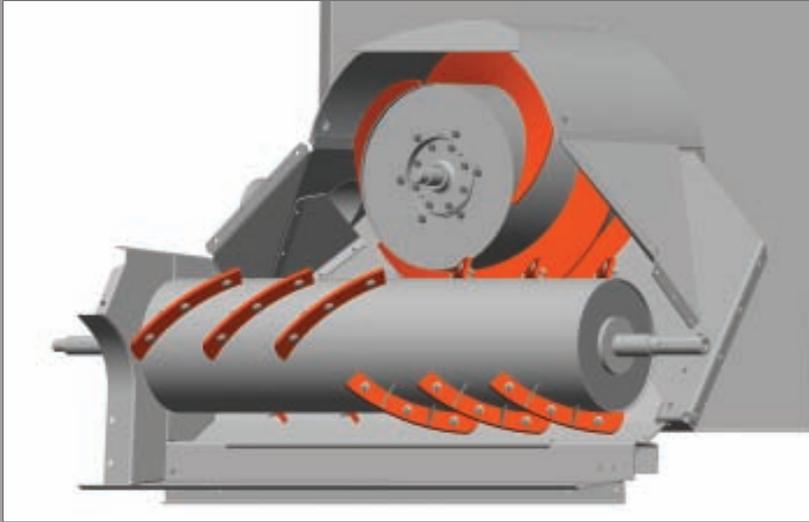


- Rotor 1
- Console II 2
- Comfor Tech II™ cab 3
- Engine 4
- Rotor drive 5
- Rotor gearbox 6
- Residue disposal 7
- Chaff spreader 8
- Grain pan 9
- Concaves 10
- Transverse fan 11
- Helical-vane front feeder 12
- Fuel tank 13
- Heavy-duty final drive 14
- Reverser 15
- Stone trap 16
- Wide feeder house 17
- Unloader 18
- Variable-speed header drive 19
- Header 20
- Heavy-duty adjustable or RWA rear axle 21

REAL CROPPING CONDITIONS,

# REAL REDESIGN

A5 SERIES FEEDING



Proving the old saying that a chain's only as good as its weakest link, you can design the most ravenous, high-capacity axial combine possible, and it will still grind to a standstill if you don't match it to an equally hungry feeding system that can keep up with its threshing capacity. A lot of combine manufacturers have learned that lesson the hard way.

When GLEANER engineers began work on our all-new A5 Series axial-rotor combines, they knew where to go for the best feeder house technology. Right down to the shop floor, where we already had it, in the R5 Series. The A5 Series feeding system incorporates the best of the transverse rotor system to supply the new high-capacity Controlled Feeding and Threshing System (CFTS)—including quick-attach header hookups, versatile and reliable feed conveyor, patented large helical-vane front feeder, efficient stone trap, full 360-degree rotor intake housing designed to enhance crop movement into the rotor, a header and feed elevator drive system that transfers power efficiently and reliably and a powerful feed conveyor and header reverser to clear unexpected slugs at the touch of a button.

The A5 Series patented 18-in. (457 mm) helical-vane conveyor feeder smoothly and quietly accelerates the crop off the feed chain and feeds the rotor via a capacity-boosting full 360 degrees of intake.



A single electric-hydraulic multi-coupler connector provides quick and clean hookup.



Four-strand feed chain provides long life and reliability with improved crop flow (A75 and A85).



Stone trap with a dump lever protects the threshing system from stone damage; stores rocks for dumping at a convenient time and location. Optional cover available.

NO MATTER THE TERRAIN,  
HEADERS STAY ON TRACK WITH  
**SMARTRAC  
LATERAL TILT**

Any way you look at it, grain left in the field is money out of your pocket. So it's especially disheartening when one end of the header pops up every time the combine tilts on a contour. That's why GLEANER developed the SmartTrac™ lateral tilt mechanism.

Operate the system manually with a switch on the hydro handle, or set it to automatically follow every contour of the field with any of the 3000, 7200 or 8200 Series headers. Electronic (potentiometer) sensors at each end of the 8200 detect changes in the ground contour and signal the control module, while optional sensors on the 3000 and 7200 models serve a similar role.

**Automatic Header Height Control (AHHC) Is Standard**

Improved productivity and reduced grain loss are just two of the benefits that come with the GLEANER AHHC, which is standard on every combine. Capable of working in conjunction with the optional SmartTrac system, AHHC features include:

*Automatic Header Height Control*

An electro-hydraulic control system senses and automatically controls the header position to provide infinite height variability.

*Return To Cut*

As part of the automatic header height control system, this feature returns the feeder house to a preset position after the header has been raised for transport or an end-row turn.



As an option to the GLEANER header control system, the SmartTrac lateral tilt mechanism (LTM) can be used to manually or automatically follow every contour of the field with any of the 3000, 7200 or 8200 Series headers.

CAPACITY COUNTS.

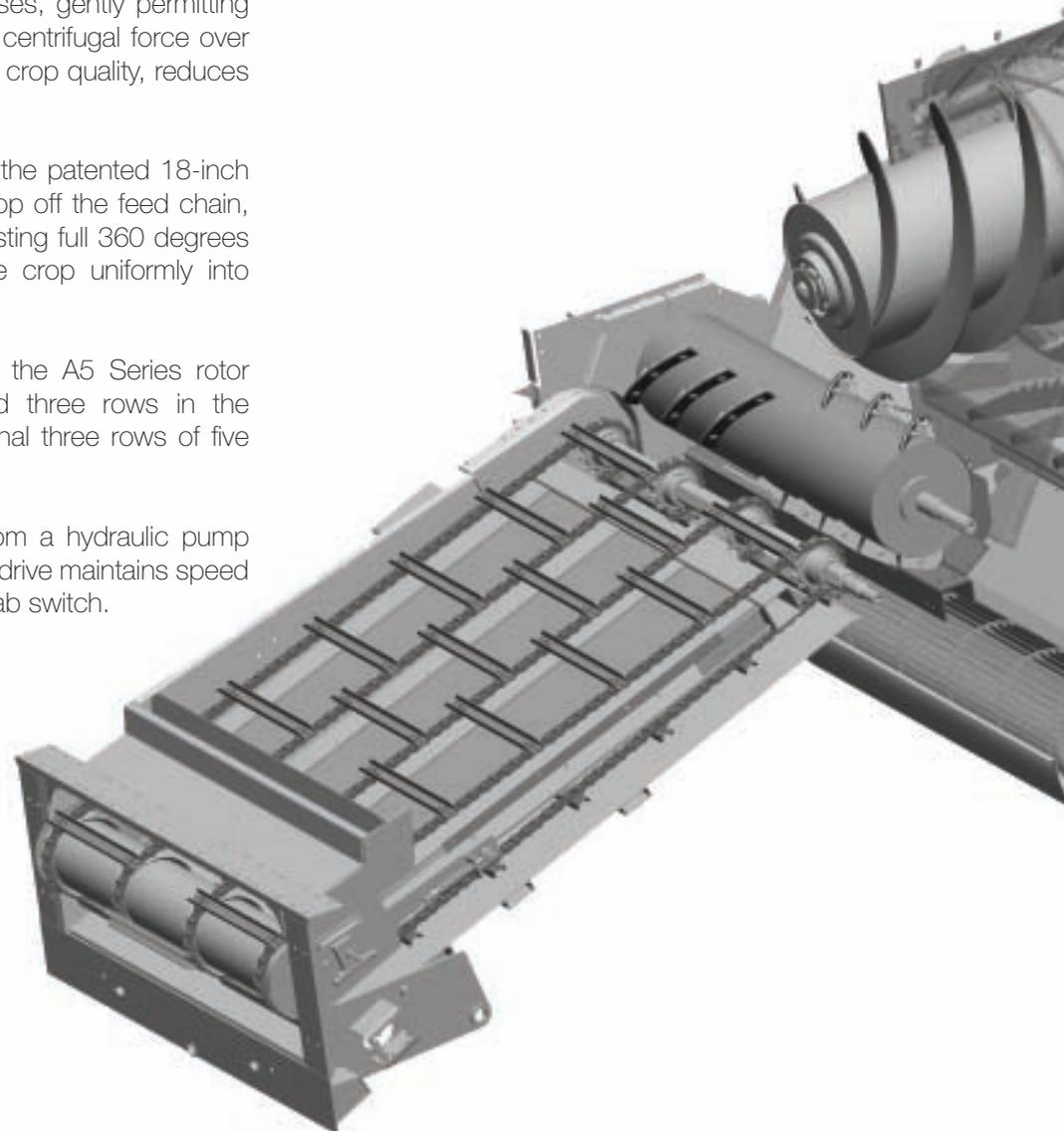
## EFFICIENCY PAYS

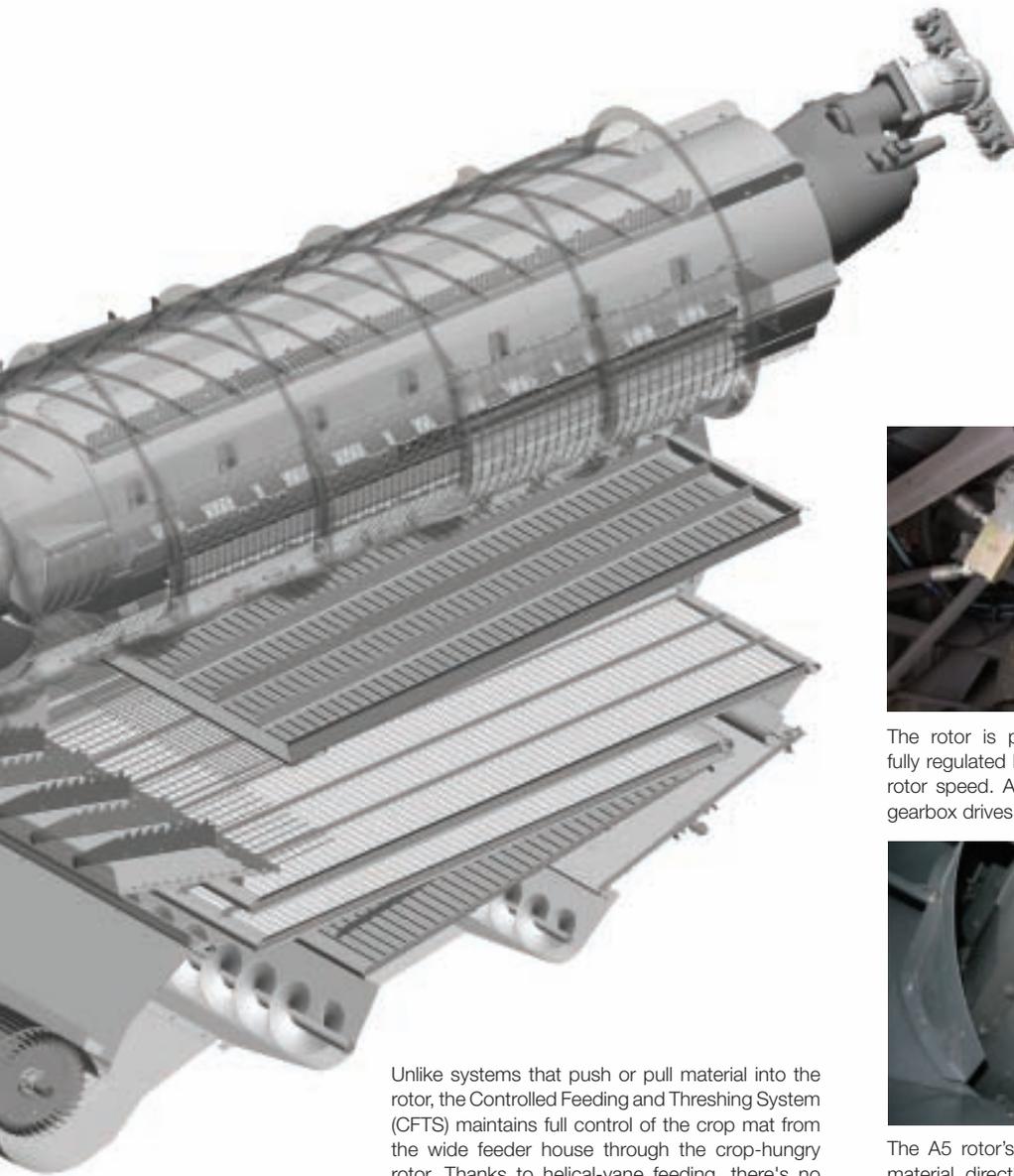
The GLEANER A5 Series rotor applies innovative design to the critical intake, threshing, separation and discharge tasks involved in the high-capacity rotary threshing system. By threshing in multiple, controlled passes, gently permitting the grain to fall through the concaves in combination with centrifugal force over the separator grates, the rotor's harvesting action improves crop quality, reduces losses and lowers operating costs.

As part of the Controlled Feeding and Threshing System, the patented 18-inch (457 mm) helical-vane feeder smoothly accelerates the crop off the feed chain, sifts stones reliably and feeds the rotor on a capacity-boosting full 360 degrees of intake. Extra heavy edge-hardened flighting feeds the crop uniformly into the thresher.

The longest in the industry at 140 inches (3,556 mm), the A5 Series rotor uses six rows of rasp bars in the threshing area and three rows in the separator area, along with 21 rotor knives and an additional three rows of five separator paddles.

The constant-speed hydrostatic rotor draws its power from a hydraulic pump driven directly off the engine. Full-pressure hydrostatic rotor drive maintains speed even when engine rpm drop. Reverses at the flip of an in-cab switch.





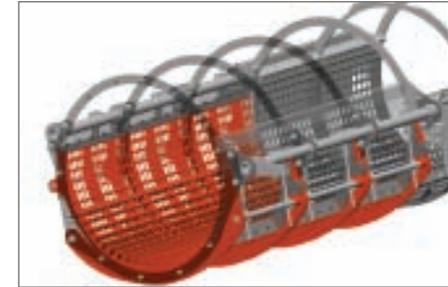
Unlike systems that push or pull material into the rotor, the Controlled Feeding and Threshing System (CFTS) maintains full control of the crop mat from the wide feeder house through the crop-hungry rotor. Thanks to helical-vane feeding, there's no pinching, bunching or twisting that can negatively affect threshing performance.



The rotor is powered by a hydrostatic system fully regulated by electronic control of oil flow and rotor speed. A three-speed heavy-duty planetary gearbox drives the rotor on the A85.



The A5 rotor's patented direct discharge throws material directly out of the thresher, eliminating the need for discharge beaters. The simple but advanced design prevents unnecessary straw damage, as well as eliminating horsepower-robbing drives, shafts and belts.



160 degrees of concave wrap and exclusive pivoting clearance adjustment allow for better distribution.



The patented intake uses edge-hardened flights to feed crop into the threshing system positively yet nonaggressively. Material moves efficiently with minimal damage to grain.



Grain pan with sloped cascade design takes advantage of the full cleaning area.

STRAIGHT-THROUGH DESIGN MEETS AXIAL ORIENTATION.

# MAXIMUM FLOW = MAXIMUM CLEANING

The GLEANER A5 Series brings together a high-output transverse cleaning fan and closed pressurized shoe assembly to achieve the maximum airflow for maximum grain cleaning. Oriented transverse to the axis of the machine, the Transverse Flow fan brings air into the cleaning system straight-on, rather than at a right angle. Straight-through fan flow reduces cavitation and turbulence, increases uniformity of cleaning across the entire cleaning shoe. 8,296 in<sup>2</sup> (5.35 m<sup>2</sup>) of wire and vane-type chaffer and sieve cleaning area in the A75 and A85 models come equipped with a single locking adjustment each. These adjustments create a versatile sieve configuration that gives excellent capacity and cleaning characteristics, allowing the shoe to fit a wide range of crops quickly and easily.

- 1** Falling grain from the pan gets an initial cleaning by passing over a cascade chaffer pan supplied with a curtain of air from the cleaning fan.
- 2** The cascade pan and fingers place crop on the chaffer front, ensuring the chaffer's entire width is put to use, maximizing its separation capabilities.
- 3** System-pressurizing air flows straight through the transverse cleaning fan, not at a right angle. The straight-through flow of the fan reduces cavitation and turbulence, resulting in even cleaning across the entire cleaning shoe.
- 4** The fan drive can be placed into one of two different ranges allowing the operator to adjust infinitely the cleaning fan speed from the cab console.
- 5** Standard-equipment wire and vane-type chaffer and sieve accomplish final cleaning. The chaffer and the lower sieve are equipped with a single locking adjustment each.
- 6** A large returns system delivers unthreshed crop back to the rotor for reprocessing to reduce grain loss and improve grain sample quality without a loss of throughput.



A large-capacity clean-grain elevator moves the grain to the grain tank. Easy to service with the bottom adjustment.



Sieve and chaffer electric adjustment control is available on the side of the combine or in the cab using the Console II (A85).



Monitored by in-cab digital readout, fan speed can be adjusted from the operator's console via electric linear actuator for maximum performance and productivity (A85).



Grain loss sensors keep track and alert the operator.



13-in. (330 mm) max flow fan in A85 provides high volume and low pressure air supply.

# THE BOTTOM LINE...

## 350 BUSHEL IN 88 SECONDS

We've mentioned how a good dose of Wow! always goes into selling combines. The GLEANER engineers think one of the Wow's! is from the 4.5 bushels/second (158 L/s) unloading system. That's 350 bushels (12,334 L) in 88 seconds. Wow!

The newly designed DirectFlow™ unloader on the GLEANER A85 accomplishes that marvel by combining the convenience of a turret unloader with the inherent simplicity of the GLEANER swivel design. What looks like a standard turret auger enters and crosses the entire tank width at a single, gentle angle, where its discharge auger is fed by a large floor auger, driven by a close-coupled chain. No gear boxes. No open drives. No vertical augers. Pure simplicity. Its 171-inch (4.34 m) discharge height and 292-inch (7.40 m) reach from center means it swings out over carts—not into them—and forward into your view without worry of hitting the tank. When done, it folds back like a grain cart auger, atop a grain-saving catch basin.

Combined with the other design features of the renowned, reliable and efficient GLEANER grain-handling system—high-capacity clean-grain auger, large and heavy returns system and massive 300 bushel (10,570 L)- and 350 bushel (12,334 L)-capacity tanks—the grain handling capabilities of the A5 Series are going to impress you every single time you call up the grain cart.



Wide platforms on the rear of the combine allow for easy access to the grain tank for inspection. Steps and platforms in the grain tank facilitate service.



The A65 and A75 unloading turret auger gives you plenty of reach to unload, even when pushing a large 36-foot (10.9 m) draper header. The auger measures 172 in. (4.36 m)-high and 285 in. (7.23 m)-long from center.



The unloading auger's electro-hydraulic swing control operates conveniently from the main hydro handle. A choice of automatic or manual auger engagement lets you unload automatically without distraction while maintaining the ability to top off a cart from the operator's seat.



Two bearing-supported axles drive the unloader augers using strong gears for added life. Wide openings for inspection and cleaning, plus exterior-located grease zerks, make service simple and quick.



Quick-release grain tank extensions fold down easily, reducing the transport and storage height to 144 in. (3.65 m)\* for the A65/A75 and 147 in. (3.73 m) for the A85, respectively.

\*Based on 30.5L-32, 16 ply, R1 tires.





DESIGN SIMPLICITY HAS ITS ADVANTAGES, INCLUDING

# FASTER, EASIER SERVICE

Simplicity. It's an inherent design characteristic of the GLEANER A5 Series, which means the A65, A75 and A85 models not only use horsepower more efficiently, but are easier and quicker to service and maintain. Consider, for example, that the cleaning fan uses the only variable-speed belt and pulley on the entire combine. And that as few as 11 main drive belts (13 on the A75 and A85) and three drive chains are required to power the entire machine. The benefits include less wear, service, expense and downtime.

Even the cleaning system has been designed for minimal maintenance. While the competition requires the use of auger beds and the complex drives that operate them, the A5 Series uses a large grain pan and cascade pan to feed the chaffer.

But don't just take our word for it on the simplicity. Count the grease zerks on a competitive model combine and compare it to a GLEANER A5 Series model. That will tell you right away how many wear points there are to demand service and maintenance.



A rotary screen, which is hydraulically driven for improved reliability, ensures constant and even airflow to the cooling system. The screen and cooler both swing out of the way for easy and quick cleaning.



A single ladder provides easy access to the engine, filters and grain tank.



The batteries are mounted on the left side of the machine above the rear tire for easy service.



Accessibility to service points is quick and easy thanks to spring-loaded idlers that automatically tension drive belts.



Lubrication decals along with several grease fitting banks decrease the time and effort required to service the combine. The optional Auto-Lube system simplifies even more tasks.

## BUILT-IN FLEXIBILITY FOR

# RESIDUE DISPOSAL



Because we understand the crop flow from beginning to end, GLEANER has always appreciated that crop-residue disposal is too important an element of the harvesting process to be left to afterthought. Compare that philosophy to others. As today's cropping conditions have evolved toward no-till and minimum-till, with increased focus on residue management and higher relative value of MOG as a marketable cash crop in itself, many combine manufacturers have been left scrambling to tack on mechanisms that will accommodate the new realities.

GLEANER engineers have instead taken advantage of the built-in strengths of their traditional design to make residue-handling systems flexible, versatile and reliable. Whether factory- or field-installed, our residue-disposal choices will fit a wide variety of needs, from spreading the aftermath as thinly and uniformly as possible for better recapture of nutrients, to dropping it smoothly behind in a 50-inch (1,270 mm) windrow of unchopped, undamaged material ideally suited to make the highest-quality baled bedding or feed forage.



A Heads-Up in-cab digital display reads out straw chopper speed and indicates when a potentially damaging drive problem arises by sounding an alert and showing an indicator light.



Stationary knives on the A5 Series optional fine-cut straw chopper are retractable and adjustable with just one wrench. No tools are necessary for speed changes.



No need to chop the straw? Use the dual-disc spreader to distribute material evenly on the field. The discs can be easily removed if no spreading is required.



The air-assisted chaff spreader on the A5 Series is integrated into the combine's design, not added on. Gas-charged cylinders pivot the entire assembly to the storage-service position, allowing access to rear of combine.

## A5 SERIES AXIAL COMBINE SPECIFICATIONS

Make Model	GLEANER A65	GLEANER A75	GLEANER A85
<b>GENERAL</b>			
Class size	VI	VII	VIII
<b>FEEDING SYSTEM</b>			
Chain size	#557	#557	#557
Variable speed drive	Available	Available	Available
Feed reverser	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Housing width in. (mm)	44.1 (1,121)	55.4 (1,408)	55.4 (1,408)
Lateral tilt	Optional	Optional	Optional
<b>THRESHING/SEPARATION SYSTEM</b>			
System	Axial rotor	Axial rotor	Axial rotor
Concave type	Open, 7 sections	Open, 7 sections	Open, 9 sections
Rock protection	Stone trap	Stone trap	Stone trap
Threshing bars	Hardened	Hardened	Hardened
Diameter in. (mm)	27.5 (700)	27.5 (700)	31.5 (800)
Length in. (mm)	140 (3,556)	140 (3,556)	140 (3,556)
Drive/speed control	Hydrostatic	Hydrostatic	Hydrostatic
Speed, low-range rpm	175 - 755	175 - 746	200 - 440
Speed, mid-range rpm	NA	NA	200 - 789
Speed, high-range rpm	175 - 980	175 - 970	200 - 1,040
Concave/grate area in <sup>2</sup> (m <sup>2</sup> )	2,205 (1.42)	2,205 (1.42)	2,721 (1.75)
Separating area in <sup>2</sup> (m <sup>2</sup> )	2,241 (1.45)	2,241 (1.45)	2,400 (1.54)
<b>CLEANING SYSTEM</b>			
Cleaning stages	2	2	2
Chaffer area in <sup>2</sup> (m <sup>2</sup> )	3,636 (2.34)	4,426 (2.86)	4,426 (2.86)
Sieve area in <sup>2</sup> (m <sup>2</sup> )	3,054 (1.97)	3,783 (2.44)	3,783 (2.44)
Total area in <sup>2</sup> (m <sup>2</sup> )	6,768 (4.36)	8,296 (5.35)	8,296 (5.35)
Cleaning fan	Transverse	Transverse	Transverse
Speed rpm	590 - 1,350	590 - 1,350	500 - 1,350
Diameter in. (mm)	11 (279)	11 (279)	13 (330)
<b>GRAIN-HANDLING SYSTEM</b>			
Tank capacity bu (L)	300 (10,570)	300 (10,570)	350 (12,333)
<b>Unloading Auger</b>			
Diameter in. (mm)	12 (305)	12 (305)	15 (381)
Unload rates bu/sec (L/s)	2.5 (88)	2.5 (88)	4.5 (159)*
Length from centerline in. (m)	285 (7.23)	285 (7.23)	293 (7.40)
Discharge height in. (m)	172 (4.36)	172 (4.36)	171 (4.34)
Clearance height in. (m)	159 (4.0)	159 (4.0)	161 (4.07)

Make Model	GLEANER A65	GLEANER A75	GLEANER A85
<b>CROP RESIDUE DISPOSAL</b>			
Chopper	2 speed	2 speed	2 speed
Straw spreader	2 speed	2 speed	2 speed
Hydraulic chaff spreader	Optional	Optional	Optional
<b>ENGINE</b>			
Model	AGCO 84CTA	AGCO 84CTA	CAT C13ACERT
Displacement in <sup>3</sup> (L)	513 (8.4)	513 (8.4)	763 (12.5)
No. of cylinders	6/inline	6/inline	6/inline
HP @ 2,100 rpm SAE (kW)	300 (223)	350 (261)	425 (317)
Fuel tank capacity gal (L)	160 (605)	160 (605)	230 (870)
<b>DRIVE/PROPULSION SYSTEM</b>			
Hydrostatic transmission	4 speed	4 speed	4 speed
Final drive type	Spur gear S-39	Spur gear S-39	Spur gear S-40
Tread width in. (m)	120/145 (3.05/3.68)	120/145 (3.05/3.68)	120/145 (3.05/3.68)
<b>Steering Axle</b>			
Tread width 2WD in. (m)	119/143 (3.02/3.65)	119/143 (3.02/3.65)	119/143 (3.02/3.65)
Tread width RWA in. (m)	121/145 (3.07/3.68)	121/145 (3.07/3.68)	121/145 (3.07/3.68)
Steering type	Dual cylinder	Dual cylinder	Dual cylinder
Turning radius in. (m)	253 (6.43)	253 (6.43)	253 (6.43)
<b>HYDRAULIC SYSTEM</b>			
Hydraulic pump	Gear	Gear	Gear
Control valve	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Tank capacity gal (L)	9.9 (36.5)	9.9 (36.5)	24 (90.8)
<b>CAB AND CONTROLS</b>			
Seat	Luxury/air ride	Luxury/air ride	Luxury/air ride
Steering wheel	Tilt/telescope	Tilt/telescope	Tilt/telescope
Controls	Right hand console	Right hand console	Right hand console
Interior volume ft <sup>3</sup> (m <sup>3</sup> )	121.4 (3.44)	121.4 (3.44)	121.4 (3.44)
Glass area ft <sup>2</sup> (m <sup>2</sup> )	61.2 (5.69)	61.2 (5.69)	61.2 (5.69)
Field lights	12	12	12
<b>DIMENSIONS</b>			
Transport height in. (m)	144 (3.65)	144 (3.65)	147 (3.73)
Length w/o header in. (m)	357 (9.10)	357 (9.10)	392 (9.95)
Wheelbase in. (m)	146 (3.71)	146 (3.71)	146 (3.71)
Weight with tires lb (kg)	28,000 (12,701)	29,597 (13,425)	37,700 (17,101)
Ground clearance in. (mm)	16 (410)	16 (410)	16 (410)

\* Per ISO 5687

## COMMAND AND CONTROL IN **COMFORTECH II**



The air-ride seat automatically provides infinite weight adjustment, ergonomic fitting, adjustable arm rests and cushion angle, integrated backrest extension, adjustable lumbar support, seat belt and more.



The leather wrapped steering wheel allows multiple tilt and telescopic positions to fit the operator and large footrests for added comfort.

In labor-starved, sleep-deprived, worry-surplus, grain-harvest country, operator fatigue and efficiency become the factors that make or break success—turning what were once luxuries into necessities. The GLEANER ComforTech II™ cab and controls put comfort and convenience to work to improve the efficiency of every task and the safety of every operator and crew.

Its ample, adjustable air-ride seat with arm rests positions you within an easy-to-use and efficient layout of the control and monitoring system. Its effective, climate-controlled, high-volume air conditioning and heating system, rounded visor roof and tinted glass take the elements out of the equation. More than 120 ft<sup>3</sup> (3.4 m<sup>3</sup>) of cab space accessed by a 40.5-inch (1,028 mm) door, plus 61.2 in<sup>2</sup> (5.8 m<sup>2</sup>) of glass, means plenty of elbow room while maintaining a commanding view of the field, headers and mirrors. A large service door opposite the entry makes access to the console quick and convenient, while a large rear cab window gives you a complete view into the grain tank.



Twelve automotive-style halogen exterior lights improve night-time visibility.



Seat-mounted control console floats with the seat for increased comfort and operational control.



Easy-access transmission control positions the four gears inline for easy, certain selection.



The Heads-Up, microprocessor-based engine and shaft monitoring system puts system diagnostics, interlock, environmental control and functions via CANBus interface in full, easy view.



**GLEANER**

AGCO



MEASURE. MANAGE. MOVE AHEAD.

# FIELDSTAR II SYSTEMS

Add-on performance-data analysis leaves too much to chance under today's demanding farming conditions. That's why all GLEANER combines now come with integrated FIELDSTAR® II yield-monitoring systems as standard equipment. FIELDSTAR II uses yield and moisture sensors, global positioning and the AGCO Global Technologies Console II to track yield data across terrains.

AGCO Global Technologies Yield Sensor II features:

- Low profile. No need to remove the sensor when folding the tank extensions.
- Temperature-compensated load cell and full-width impact target reduce recalibration demands. Single-point with excellent accuracy.
- 4X+ resolution in the load cell increases accuracy in light- and low-yield crops.
- Horizontal mount for fewer slope-induced errors.
- Corrosion-resistant stainless steel impact target on high-quality plastic add to long service life.
- WAAS GPS antenna pinpoints field location to submeter accuracy.
- Unique slim-line Console II incorporates color-display touch-screen technology and a secure digital (SD) card slot for transferring data and console programs.
- Available AGCO Global Technologies software for farm office personal computers allows you to make maps of yield data, moisture level, fuel consumption, wheel slippage and other recorded data.



**FIELDSTAR II**



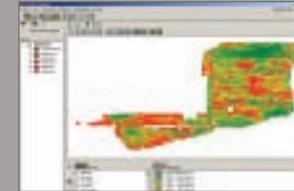
DGPS antenna receives its information from the WAAS Satellite System to pinpoint the field location.



The AE50-award-winning Yield Sensor II measures the mass of grain flowing through the grain elevator.



The Yield Sensor II moisture sensor provides instant crop moisture readings.



AGCO Global Technologies software allows the operator to create maps of any geo-referenced data.



The postage-stamp-sized SD card slot incorporated into the Console II with FIELDSTAR II makes data transfer to the office system quick, uncluttered and easy.



The unique Console II color display incorporates touch-screen flexibility. Fully programmable, it is transferable to other FIELDSTAR II-compatible equipment.

## BIGGER EQUIPMENT, BETTER CONTROL; **AUTO-GUIDE**

GLENER is proud to offer\* the latest concept in harvest control—Auto-Guide.™ This satellite-assisted steering system increases the productivity of your combine, reducing unwanted overlaps or skips. The equipment is fully transferable to other AGCO Auto-Guide Ready equipment and is easy to learn, easy to use. Choose the level of accuracy your operation demands. Start from the fee-free WAAS correction signal with a dynamic accuracy of 10 inches (25 cm) or advance to the high-precision local-base RTK system that delivers an amazing 0.8 inch (2 cm) of dynamic accuracy.

\* Starting second quarter 2007.



Using cutting-edge GPS-based technology, Auto-Guide steers the combine, without operator input, along parallel swaths through the field at higher rates of speed and accuracy...pass after pass.



The Auto-Guide TopDock is a compact all-in-one unit with 6-axis gyro for increased accuracy.

WHEN STOPPING IS NO OPTION,

# MUSCLE THROUGH

Heavy header requirements. 10-ton-plus grain tank capacities. Nonstop harvest schedules. Today you need a combine that can't be stopped by anything short of your decision to head to the house.

The GLEANER combine's large high-torque, split hydrostatic drive unit coupled to a four-speed transmission and heavy-duty final drives provides ultimate power and reliability where it matters. Well-suited to difficult, wet harvesting conditions and row crop applications, the GLEANER rear adjustable steering axle and factory- or field-installed rear wheel assist (RWA) keep your operation moving through the softest field conditions. Transmission and final drives on the GLEANER combines feature designed-in increased gear reduction for a total 28.5 percent increase in tractive effort for powerful performance on hilly terrain without sacrificing torque or transport speed.



Pressure-sensitive cam lobe RWA motors engage easily as hydrostatic pressure increases. No mechanical lock-in or lock-out required. Two-speed drive motors are used on the A85 model.



Heavy final drives offer a 7.066-to-1 gear reduction for transmitting tractive force to the ground without limiting single or dual wheel options.



Adjustable steering axle goes from 119 in. (3.0 m) to 144 in. (3.66 m) in 6-in. (152 mm) increments. The A5 Series axle also allows adjustment of axle height by 4 in. (100 mm) to adapt to different tire sizes.



Drive and steering tires in a variety of sizes, plies and ratings, including optional Michelin MegaXbib® low-pressure, steel-belted radials, designed to spread a 19% greater footprint than competitive radials, providing greater flotation and reducing compaction.

POWERPLANT POWER AT YOUR COMMAND;

MASSIVE ACHIEVEMENT IN

# ENGINE EFFICIENCY

Pushing all GLEANER class VI and VII combines you'll find a dependable power and easy-to-service AGCO 84CTA liquid-cooled turbo diesel engine. Efficient and high-torquing, the engine's low maintenance and good fuel economy come in addition to deep power reserves: from 300 hp (224 kW) in the R65 and A65 up to 350 hp (317 kW) to drive the R75 and A75; with power bulge at 1,900 rpm, that jumps to 321 hp (238 kW) and 375 hp (280 kW), respectively.

Following the GLEANER tradition of balancing the combine for efficiency, the engine's rear mount distributes weight better for less noise and vibration, plus better accessibility for service and maintenance. Roomy and easily accessed—front and rear—engine compartments make service one less stress on you.

## R5 & A5 ENGINE SPECS

Model	Engine	Rated Power hp (kW)	Power Bulge hp (kW)
A65	AGCO 84CTA	300 (224)	321 (238)
R65	AGCO 84CTA	300 (224)	321 (238)
A75	AGCO 84CTA	350 (261)	375 (280)
R75	AGCO 84CTA	350 (261)	375 (280)
A85	C13	425 (317)	458 (342)



## AGCO 84CTA

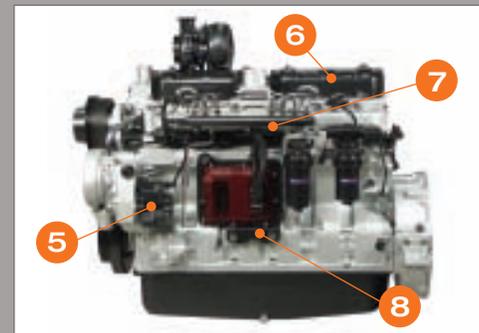
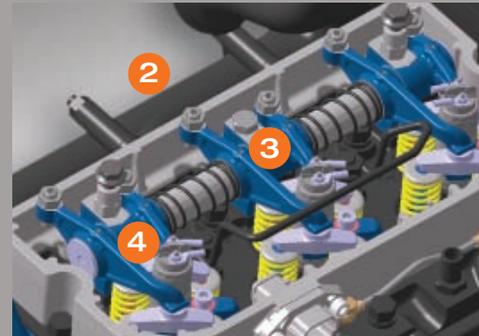
**ENGINE FEATURES**

- Four-valve-per-cylinder cross-flow head permits our engineers to center the injector over the piston, improving fuel/air mixing to better control emissions and fuel consumption.
- Bosch common-rail fuel injection system takes its commands from the EEM3 electronic engine management software for precise, faster response and more power per gallon of diesel.
- Three-ring pistons seal tight for efficiency and better oil control.
- Lightweight, big-end connecting rods' fracture-split production process leaves a rough-edge at the face to improve holding power and durability while minimizing vibration.
- Intercooling and exhaust gas recirculation make the AGCO 84CTA fully Tier III-compliant.
- Large polyethylene fuel tank, protected by in-line canister-style separators, ensures an adequate supply of clean fuel to feed the system.
- 20,000 psi (1400 bar) common rail pressure
- 3-stage pilot injection
- Reduced noise level
- Automatic fuel temperature compensation

- 1** 70 percent cooling in upper part of liner
- 2** 24 valves (4 per cylinder)
- 3** 2 rocker arms per cylinder
- 4** Central injector with 8 holes
- 5** Electric fuel pump
- 6** Automatic electric preheater in manifold
- 7** Common-rail injection
- 8** CANBus electronics



Dual centrally supported wet cylinder liners endure less liner vibration, eliminating liner cavitation that typically shortens cylinder life.



THE GLEANER TRADITION:

# DISTINGUISHED BY SERVICE



The GLEANER brand is backed by the strength and reputation of one of the world's largest farm equipment manufacturers—AGCO Corporation. Then, local AGCO GLEANER dealers support each combine they sell with experienced, factory-trained staff and service personnel. They are kept competitive and strong by the AGCO stable of reliable products, effective product training and proven professionalism supporting GLEANER combines from the northern Canadian grain fields to the bean and rice fields of the Mississippi Delta.

They bring each GLEANER customer:

- A GLEANER Guard™ warranty that's the best in the business from header to spreader. Nonconsumable parts found to be defective in workmanship or material as delivered will be repaired or replaced for two years from date of delivery to the initial owner. And that's regardless of the number of hours you've rolled up. Nobody beats that quality guarantee.
- An AGCO parts supply network offering a complete line of high-quality replacement parts and accessories. Your AGCO Parts representatives are highly trained and dedicated, supported by high-tech tools to help them respond when and how you need them. The AGCO live-on-net Electronic Parts & Service Information provides immediate online access for dealers worldwide to operator manuals, service manuals and service bulletins, further improving their response time and knowledge base.
- Affordable, comprehensive equipment financing options. Because we're specialists in farm equipment, AGCO Finance remains committed to agriculture and understanding its unique needs—like the need to offer flexible programs such as seasonal payments, skip payments and waiver periods. We have the expertise, financial strength, systems and flexibility to design a financing program that's as tailored to your needs as your new GLEANER combine is.





**GLEANER**  
AGCO



*Play It Safe. Work Safely.*

AGCO Corporation • 4205 River Green Parkway, Duluth, GA 30096 • Phone 800.767.3221 • Fax 770.813.6038 • [www.agcoiron.com](http://www.agcoiron.com)

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