CLAAS

ht harvest times

Fall 2012

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Get squared away with year end savings

OFFER 1

0% financing

for 48 months on all new CLAAS balers and hay tools*

OFFER 2

$10,000 off

First Annual Payment on a new JAGUAR forage harvester*

CEO CLAAS Early Order PROGRAM

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tried & true

While a grower's process may not differ much from his neighbor – plant, cultivate, harvest and repeat – no two operations are exactly the same.

That's why we produce a full range of CLAAS machines with a variety of capabilities. No matter what your crop or conditions, CLAAS has the solution for a quality harvest. Even better, we give you the education and service to use your equipment to its optimal effect.

As growers, you continue to refine your practices, and CLAAS makes it a point of pride to offer the very latest innovations to complement your efforts. You'll see our latest work showcased in the 2013 CLAAS product lineup, featured in this issue.

Our newest offerings are big and small, from brand-new models that set the bar higher than any other manufacturer to special design enhancements that help you perform specific tasks even easier. Here you'll find machines that utilize the latest technologies for more powerful and efficient solutions in your fields.

Look to CLAAS for equipment that delivers real-time tangible results – like a better quality cut, ease of use and technological advances like in-field analytics. See what's in store for your operation this year at CLAAS. As you continue to strive for more, so will we.

Bob Armstrong, Editorial Director

NORTH AMERICA'S **CLAAS FAN FEATURE**

Young Fan Illustrates His Excitement for CLAAS

Some kids like to read comic books. Others dive into the Harry Potter anthology. But, if you're 9-year-old Elio Cardoso II, your favorite literature comes straight from CLAAS.

According to his mom, Heather—whose family runs CLAAS JAGUAR forage harvesters at M&M Cardoso Dairy & Sons in Delhi, CA—Elio is so fond of our choppers that "whenever a magazine is sent to the dairy, he confiscates it and savors it."

In fact, anything that is associated with CLAAS is the youngster's preferred bedtime reading. And he's constantly talking about planning a visit to the CLAAS North American headquarters in Omaha, Nebraska.

Elio has been so inspired by the CLAAS JAGUAR that he drew his own renditions. For us, it just proves the point that our littlest fans are sometimes the biggest fans of CLAAS!

Elio Cardoso II, a 9-year-old artist and CLAAS fan from California, shared drawings of his favorite CLAAS equipment.

HAVE A CLAAS FAN IN YOUR HOUSE?

If you're a big fan of CLAAS, or know someone who is, send your CLASS Fan Feature story and photo to:

CLAAS of America Inc., 8401 S. 132nd Street, Omaha, NE 68138 or email contactus@claas.com.

Sage Advice

North Carolina Operation Enjoys Long-Lasting Success with the CLAAS JAGUAR

Gardeners like the purple, white and pink blooms of clary sage for the beautiful color they add to the landscape. Others claim that the plant's essential oil has medicinal properties. But, for growers, clary sage is prized for another reason altogether.

The plant produces sclareol, a waxy substance that when put through the bioconversion process makes sclareolide. Sclareolide is used by the fragrance industry to make fixatives that help fragrances last longer. These fixatives are used in products that range from perfume and aftershave to laundry detergent and fabric softeners.

Since 1978, Avoca, Inc., has been providing this byproduct of clary sage for companies around the world. The northeastern North Carolina enterprise is the only producer of the plant in the United States and has the largest extraction facility in North America.

Over the past four years, Avoca has increased their acreage from 4,000 to 15,000. More than 75 growers provide three varieties of clary sage for Avoca—including Lyman Harrell, who grows about 400 acres and also serves as the contract consultant for Avoca.

There's "nothing special" to the growing process, compared to other crops, says Harrell. The sage is planted in August and September, resumes growth when warmer temperatures return in about March, and flowers in late April or early May.

During the month-long harvest in June, the whole plant is taken off the ground so that Avoca can extract sclareol from the entire shoot and flowers. The substance is extracted onsite at Avoca and is shipped to its sister facility in Wisconsin for the chemical conversion. It then returns to Avoca to be finished off and sold as sclareolide.

"The quality of the cut is important in the extraction process," explained Avoca President David Peele. "The more uniform the particle size, the better the extraction efficiency. Uniform cut is also important with respect to our material handling systems."

Contractors can harvest their own crop or have Avoca do it for them, says Harrell, who has had a firsthand look at what CLAAS can do for other growers.

"Our custom crew runs two CLAAS JAGUAR harvesters. The crew leader was the first to run CLAAS and trades up regularly. He got both of his new in 2011. A friend of his runs a used JAGUAR he bought this past year and I was lucky enough to take the seat and drive his a bit."

Harrell got more information about CLAAS from his local dealer, Black's Equipment, and even visited the CLAAS manufacturing plant in Germany last fall. "I was thoroughly impressed by what I saw, as well as the company's known reputation and impeccable service," he says. Harrell took delivery of a CLAAS JAGUAR 930 forage harvester and a CLAAS 610 DIRECT DISC this past spring.

One of the first things he noticed was the easy handling. "It's a lot more user friendly and comfortable," than the competitor's model he had before.

And since his acres are about 15 miles away from Avoca, Harrell says he appreciates the highway speed on his new JAGUAR coupled with the additional fuel savings. His first harvest in his new JAGUAR went "very well."

But what about the all-important quality of the cut?

"It's a more consistent cut than John Deere," says Harrell. Peele says he's heard the same from others.

Though Avoca receives chopped clary sage from a variety of machines and doesn't isolate the product by harvester, the ones who use CLAAS equipment time and time again report a more uniform chop.

For a company whose production process counts on consistency, that's important. So take note the next time you see a perfume bottle or a bottle of laundry detergent—you may just be seeing the product that got some long-lasting help from a CLAAS JAGUAR harvester.

Order early and save BIG!

CEO CLAAS Early Order PROGRAM

$10,000 off

First Annual Payment on a new JAGUAR forage harvester*

0% financing

for 48 months on all new CLAAS balers and hay tools*

Offers end December 31, 2012.

*Subject to credit approval through CLAAS Financial Services in the U.S. and Canada. Offers begin October 1, 2012 and end December 31, 2012. Equipment must be financed for at least 48 months or early settlement penalties will apply. $10,000 off first annual payment offer applies only to new CLAAS JAGUAR forage harvesters. 0% for 48 months applies to all new CLAAS balers and hay tools in lieu of cash discounts. Offers cannot be redeemed for cash. See participating dealer for details. Product and specifications subject to change without notice.

Presenting the Best in Class CLAAS

We've never been the kind of company to rest on our laurels. Sure, we're proud of the reputation we've earned, but we also believe there's always a reason for continued innovation – and that reason is you. After all, you're the one in the field, the one who needs to get the most out of every working moment. And with our new additions and feature enhancements to the 2013 product lineup, you can do just that.

DISCO – Four New Mower Models

For years, DISCO has been the go-to line for growers looking for just the right combination of mowers and conditioners. Now, there's even more to accommodate any operation – with an expanded line that includes four new models.

New to the DISCO 3500 Series
Three new front-mounted units have been added to the DISCO line, each with a spacious 11' 2" working width:

Disco 3500 FC - Front-mounted tine conditioner
Disco 3500 FRC - Front-mounted roller conditioner
Disco 3500 F - Non-conditioning mower

Similar to our smaller 3100 F series, the new 3500 F series allows for greater overlap and eliminates the need for side shift. Pair it easily with the DISCO 9100 Series for ultimate mowing capacity.

DISCO 3500 F

DISCO 9300 RC, now with roller conditioner
There's more this season: the new DISCO 9300 RC. This model – designed for bi-directional tractor use just like its tined counterpart 9300 C – features the same wide 29' 10" working width, but comes equipped with a roller conditioner.

Unmatched flotation and fuel savings, too
The DISCO 9300 RC comes equipped with ACTIVE FLOAT suspension, providing unmatched flotation in all kinds of conditions. In fact, independent testing showed a considerable fuel savings of up to 20 percent with ACTIVE FLOAT. ACTIVE FLOAT is an option on all DISCO front mowers.

Heavy-duty cutterbars
When it comes to cutterbar technology, CLAAS makes no compromises. Like all our disc mowers, the new DISCO 3500 F series features a gear-driven cutterbar with a conditioner that's nearly the length of the cutterbar. And, of course, CLAAS P-CUT heavy-duty cutterbars feature the SAFETY LINK® protection system. Our new units also come equipped with the QUICK KNIFE Release System, which makes changing knives quick and easy.

LINER 500 T

The Newest LINER 500 T — with a Big Distinction

What can we say? Growers like our LINER offerings so much, we added another one. With a working width of 15' 9", the LINER 500 T gives CLAAS the distinction of having the widest single-rotor width on the market.

Clean and easy
This new model is attached using a parallel drawbar and offers a clearing width of 12' 8". It features 14 tine arms with four double tines per arm for excellent pickup and clean windrows. An adjustable swatch guard makes it easy to change the width of the windrow.

Standard airtight solid-rotor gearbox
Also exclusive to the LINER series, the 500 T features a new airtight solid-rotor gearbox that comes standard with an extra bearing to absorb higher leverage forces, as well as a continuously lubricated system.

The cam track is made from spherical graphite iron, a high-strength casting alloy with increased copper content for superior durability and reliability – just what a rake like the 500 T requires.

Other new options:
- An ISOBUS Cable option for LINER 3500/4000
- A tandem axle option for LINER 2700/2800/2900/1650/1750/4000

GET UP CLOSE AND PERSONAL WITH THE 2013 CLAAS PRODUCT LINE.

2013 Product Lineup

DISCO 3500 FRC / DISCO 9300 RC

VOLTO 1100 T

A New Addition to the VOLTO Family

Not to be overshadowed, VOLTO has its own reason to shine: There's a new tedder in the North American line. Meet the VOLTO 1100 T.

Best spreading quality
This replacement for the VOLTO 1050 T has plenty to brag about. Unlike its eight-rotor predecessor, the 1100 T features 10 smaller (4.9 ft.) rotors with six arms per rotor for the best spreading quality in all conditions. Not only does it deliver more rotors, the working width of the VOLTO 1100 T is over three feet wider than the 1050 T – at an expansive 35' 1".

Special design enhancements
All-new spreading arms with run-down geometry allow the tine arms to "let go" of the material behind the tedder for gentle, even spreading and optimal allocation of material. This design enhancement also creates a more even pressure distribution on the tines for greater durability and a longer life.

What's more, the VOLTO 1100 T features hydraulic folding for easy transport. PERMA-LINK driveshaft connections add reliability, and a heavy-duty design makes it ideal for thick silage applications.

ROLLANT Rolls Out Two New Releases

CLAAS has introduced two new ROLLANT models this year. Our most impressive UNIWRAP model to date – the ROLLANT 455 UNIWRAP – is designed to tackle the toughest crops with ease. And our ROLLANT 375 RC is replaced – and eclipsed – by the enhanced design of the ROLLANT 375 RC PRO.

ROLLANT 375 / 455 UNIWRAP

ROLLANT 455 UNIWRAP
The new ROLLANT 455 UNIWRAP is a reinforced, heavy-duty cousin of the popular ROLLANT 375 UNIWRAP. This upgraded version features an HD ROTO CUT® feeding system with a 25 blade chopping rotor for a finer chop, a 1,000 rpm PTO and a cab-operated, hydraulic forward-dropping rotor floor for easier cleaning.

The ROLLANT 455 UNIWRAP offers a 4' x 4' fixed chamber with MPS® Technology featuring rollers positioned in an arc for reduced horsepower and increased reliability.

ROLLANT 375 RC PRO replaces standard ROLLANT 375 RC
The ROLLANT 375 RC PRO will now take the place of the venerable ROLLANT 375 RC. The "PRO" model maintains all of the benefits of the ROLLANT 375 RC while adding a convenient drop floor design that makes cleaning and clearing debris even easier.

QUADRANT 3300 RC

For a Smaller Cut, the QUADRANT 3300 RC

The CLAAS QUADRANT 3300 is now offered in a ROTOCUT "RC" model for those who prefer a smaller cut in the same popular 3x4 square bale size.

47 strokes a minute
Like the standard QUADRANT 3300, the new QUADRANT 3300 RC uses the same 92.5" heavy-duty pickup and pre-compression chamber that measures the flake before moving it to the high-capacity plunger – at an impressive 47 strokes a minute. Both the QUADRANT 3300 and 3300 RC deliver a 35.5" x 48" bale size. The QUADRANT 3300 RC also comes standard with tandem steering wheels – an option on the QUADRANT 3300 Feed Rotor.

Ask the Expert

CLAAS Product Coordinator **Matt Jaynes**

Tips for Setting Your Pick-up Head

Proper adjustments and settings of the feedroll spring tension on your CLAAS Pick-up head are imperative to the performance of the JAGUAR. If not set correctly, it will reduce efficiency and possibly lead to other problems. For instance, if the auger sprockets are set incorrectly, you may encounter slug feeding, an inconsistent crop flow out of the spout, excessive feedroll vibration, plugged spouts, crop wrapping around the auger, chains breaking on the auger, a tripping slip clutch on the auger and false-trips on the stone detector.

With the proper settings, you can stay strong and steady in the field. We sat down with Matt Jaynes, CLAAS Product Coordinator, to share additional insight on this topic.

What if a grower does experience crop wrapping on the center of the auger?

Jaynes: We recommend bolting four 11" long x 7-8" wide rubber paddles to the four center paddles on the auger. You can use an old round baler belt or a 2-3 ply non-metal belt.

What's the correct way to choose your sprockets?

Jaynes: The auger has to match the speed of the feedrolls. The CLAAS PU 300 PRO and PU 380 PRO have six different sprockets that can be used in a variety of combinations. Remember to change your sprockets to match the auger for every 3mm length of cut adjustment. And, always ensure the chains are properly tensioned.

The chart at right showcases recommended auger sprockets for different length of cut on a JAGUAR 900 series machine with a 24-knife drum. Look to your CLAAS dealer for further recommendations and adjustments.

PU 300 PRO/ PU 380 PRO

Range Length of Cut	Works best at Length of Cut	Which End for Sprocket	Sprocket Size for Auger Drive (# Teeth)
11-14	12.5	Auger	31
		Clutch	15
13-15	14	Auger	30
		Clutch	15
14-17	16	Auger	30
		Clutch	17
16-18	17	Auger	30
		Clutch	18
17-19	18	Auger	24
		Clutch	15
18.5-21	20	Auger	24
		Clutch	17
19.5-22	21	Auger	24
		Clutch	18

You've mentioned that proper header flotation is important—would you explain?

Jaynes: It's important to set the correct contour float when operating a PU header in the field. Make sure the brass-colored round piece on the side of the head is in the center of the slot. We've seen that many customers will set the contour when stopped, but when they move forward the head settles, the header rides heavy on the ground and they lose proper flotation. Check your owner's manual for more details or call your dealer for more details on this.

What should the grower keep in mind when adjusting the feedroll spring tension?

Jaynes: Feedroll spring tension is one of the most important adjustments to make the machine feed evenly. If the front springs are too tight, the front roller will bounce up and down causing slug feeding. The crop will do a somersault in front of the feedroll causing slugs with lots of feedroll vibration.

The feedrolls should open like a sideways "V," narrower toward the knife drum, and the front roller should always come higher than the rear roller. You don't want the top rollers teeter-tottering back and forth. Look on the right side—if you see teeter-tottering, loosen the front feedroll springs. The longer the cut length (more than 16mm), the more important is it to adjust this.

Are there other adjustments a grower can make?

Jaynes: We've observed that reducing the tension on the front feedroll springs can increase capacity with JAGUAR 930-980 machines. Ask about our front spring kit with reduced tension, which will allow clumpy crop to flow more easily.

For a comprehensive look at operational tips for PU 300 PRO and PU 380 PRO, see your CLAAS Dealer.

CLAAS On Your Farm PARTS

On Your Farm Parts:

The parts you need, when you need them

Here's how it works.

1. You and your dealer decide which parts are to be included
2. You place the parts order
3. You use the parts as you need them throughout the harvest season
4. You pay for the parts you use after the season

It's really that simple!

PRE-HARVEST	Inspect your machine and place your parts order
HARVEST	Install parts as needed
POST-HARVEST	Pay for your parts

Available at participating dealers only. Some restrictions or pre-qualifications may apply. Ask your CLAAS dealer for details.

Can the JAGUAR 900 Series Get Even Better?

It Just DID!

You asked for it and we delivered. Last year, we introduced our exclusive fuel-saving CLAAS DYNAMIC POWER option on the JAGUAR 970 and 980 models. It proved so popular that this year we're adding it as an option for the JAGUAR 940/950/960/970/980 models.

Power exactly when you need it
Engineered with an eye on efficiency, CLAAS DYNAMIC POWER senses the load being placed on the engine and adjusts the horsepower output accordingly. The JAGUAR then can deliver its full horsepower when needed, but reduce horsepower – and fuel consumption – when the load is lighter.

Looking for maximum power? Look to the JAGUAR 970 and 980, which feature MAN engines and the power to handle any kind of crop put in its path. Our JAGUAR 930/940/950/960 models feature Mercedes-Benz engines with the latest in Tier 4 technology for emissions, without compromising performance.

Two new direct cut headers
Out front, CLAAS now offers two new direct cut headers available on 900 series machines. Both headers feature a lateral tilt frame design and are built with a new heavy drive train for efficient, reliable power delivery:

- The DD520 Contour has a 17' working width and offers a mechanical self-leveling feature for an optimal cut even in undulating terrain.
- The DD610 Contour features an expansive 20' working width.

NEW! Corn row sensing wands
Ask about another new option: an AUTO PILOT system with new corn row sensing wands. These wands, which can be equipped on any ORBIS head, are positioned in the middle of the head and work in row widths of 15" to 30". Advanced software detects plant gaps to keep the machine following the row.

Where Connections Are Made

AG CONNECT EXPO 2013 — An AEM Trade Show

Kansas City, MO | January 29-31, 2013

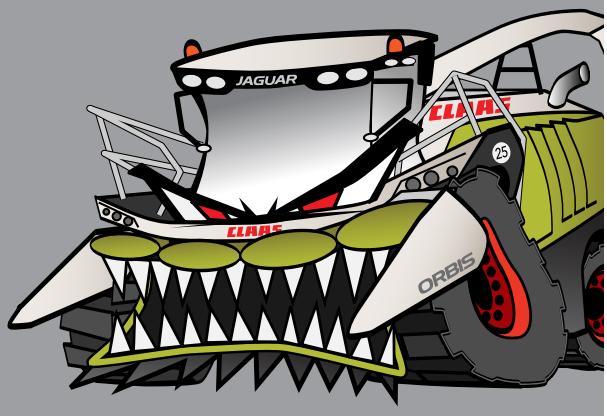
Join CLAAS at AG CONNECT 2013 for a Centennial Celebration 100 years in the making!

Showcasing several NEW pieces of equipment, this will be a show-stopping event. Visit with the top CLAAS product specialists, marvel at the progress of 100 years in harvesting technology, and be a part of the festivities as we unveil the winner of the LEXION Driven to Win Giveaway!

Make your plans now to attend and be part of a commemoration for the history books!

STAY TUNED!

MAD JAG REBATE PROGRAM is Gearing UP!



Be on the look out this winter for the **MAD JAG Rebate Program** - featuring excellent offers on many CLAAS OEM parts!

If you don't receive this, please contact your CLAAS Dealer to get your name on the mail list and take advantage of great savings!

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JAGUAR Calendar Honorable Mentions

As we approach the launch of the new calendar for 2013, CLAAS highlights those who showcased their JAGUAR and have received an honorable mention. We thank all of those who entered this year and continue to look forward to the creativity and ingenuity our JAGUAR owners can share in 2014!

KYLE PALMER
Hornell, NY

STARHILL FARM LTD
Vankleek Hill, Ontario

ROOS SEVEN HILLS
Brownsville, Ontario

EDALEEN DAIRY
Lynden, WA

WOLDT FARMS LLC
Brillion, WI

Just in time for the holidays – look for your 2013 JAGUAR calendar soon!

Award #1: DISCO 9100 C AUTOSWATHER

The DISCO 9100 C AUTOSWATHER is a 29-foot, 10-inch triple-disc mower conditioner with a swathing belt that can form one, two or three windrows. The mower can run with or without mergers, as the mergers can be detached or individually folded out of the way using hydraulics. Thanks to its lightweight design and CLAAS ACTIVE FLOAT hydropneumatic suspension, which transfers the weight of the mower onto the tractor, the DISCO uses less fuel and is highly efficient.

The ACTIVE FLOAT system also allows suspension adjustment at any time, even on the go, for varying field conditions, and decreases crop contamination via soil by 17 percent. The mower utilizes the P-CUT cutter bar, which can be operated at a reduced speed of 850 rpm, and is protected by a combination of the SAFETY LINK module and a hydraulic collision protection device that lifts the mower over an obstacle in the event of a collision. The COMMUNICATOR II system is used to operate all mower functions conveniently from the comfort of the cab using ISOBUS.

CLAAS Captures AE50 Awards

The American Society of Agricultural and Biological Engineers (ASABE) recently honored CLAAS for ground breaking innovations found in the CLAAS Hay and Forage equipment line. For the ninth consecutive year, CLAAS received awards showcasing their capacity to deliver product and systems technology that advance agricultural engineering.

Companies from around the world submit entries to the annual AE50 competition and up to 50 of the best products are chosen by a panel of international engineering experts. The judges select products that will best advance engineering for the food and agricultural industries.

Six new CLAAS product innovations caught the eyes of the ASABE this year – including four innovations on CLAAS hay and forage products.

Award #2: CLAAS QUADRANT 3300 RC 3X4 SQUARE BALER Single Tie Knotter

CLAAS is the only large square baler manufacturer with sales in North America to develop and manufacture its own knotters. The knotter developed for the QUADRANT 3300 RC is the most efficient single tie knotter yet. It is designed to take tension off the twine as it ties the knot to avoid twine fractures and to produce perfect, high-strength knots without twine residue. The simple design features a rotating bill hook and clamping wheel, and a universal drive shaft. To ensure a tension-free knot, six high-strength knotters simultaneously swing up and back to ease the tension of the twine and ensure reliable pick-up by the knotter bill hook. The accelerated up and down movement of the needles results in a 25 percent decrease in the time needed to make a knot. The single tie system eliminates twine residue, resulting in safer bales for feeding livestock.

Award #3: CLAAS ROLLANT 455 UNIWRAP SILAGE BALER

The new CLAAS ROLLANT 455 UNIWRAP baler combines baling and wrapping in one machine – increasing production and feed quality while saving time, fuel and money. The high-tech design of the baler enables high productivity due to innovative mechanical and electronic components. The machine's smart system automatically handles the bale density, tying, bale transfer and silage film wrapping of the bale; the operator only has to stop when the bale chamber is full and the system does the rest. The baler was designed with heavy-duty drive components to handle all types of baling conditions.

The exclusive cab-operated hydraulic forward-dropping floor makes long down-times due to blockages a worry of the past. The 25-blade chopping rotor ensures a fine cut for optimum compaction and bale density. The operator can switch from 12 knives to 13 without leaving the cab, as one knife set will be always sharp enough. Early bale rotation into the chamber, along with the Maximum Pressure System, ensures rock-hard bales from the start.

CLAAS Captures AE50 Awards

Award #4: CLAAS VOLTO 1100 T TEDDER

The new CLAAS VOLTO 1100 T tedder offers maximum working width and performance, and minimum transport dimensions. The impressive 35.1-foot working width reduces the number of passes required in the field, while the newly-designed spreading arms with run-down geometry deliver an even, well-mixed crop spread. The VOLTO's MAX SPREAD crop flow concept enables better pick-up of material for higher working speeds, better passing of material for gentler handling for crops like alfalfa, and wider and more even spreading of the crop for faster drying.

The VOLTO features 10 rotors that offer high performance and the small rotor diameter (4.9 feet) ensures the best possible spreading quality in all crop conditions. The patented folding system allows exceptional handling and maneuvering in the field, and easy and safe transport on the road. The low-maintenance design includes a 100-hour PTO greasing interval; air-tight, maintenance-free gearboxes; and easy-access grease points to make up-keep quick and effortless.