

Four-rotor gyrorakes

GA 13031 / GA 13131 / GA 15131



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be strong, be **KUHN**



RAKING W  RLD RECORD

GA

13031

13131

15131

WORLD WINDROWING RECORD 188.9 HECTARES IN 8 HOURS.

KUHN set the first windrowing world record on 26/08/19 in Braedstrup, Denmark, with the 4-rotor gyrorake GA 15131. The standard machine was hitched to a John Deere 6250R tractor in the presence of the German institute DLG - Deutsche Landwirtschafts Gesellschaft. The DLG Institute confirmed: "188.9 hectares were raked in 8 hours, which represents an average of 23.6 hectares per hour."

High yields, flexibility and impeccable working quality characterise KUHN's GA 15131 4-rotor gyrorake, the base of an ultra-productive harvest chain.

ONE HOUR LESS FOR MAINTENANCE. ONE HOUR MORE IN THE FIELD

These rakes are extremely productive due to their impressive working width. With just one transmission to lubricate, you'll save up to an hour on daily maintenance. This way, you can add up to ten extra hectares to your daily output in the field!

REGULAR WINDROWS FOR AN EFFICIENT HARVEST

GA 13131 and GA 15131 gyrorakes have a boost drive function that increases the speed of the front rotors by 20%. This feature improves forage flow-through to the centre of the machine where it is picked up more easily by the rear rotors to create perfectly formed windrows. The silage harvesters that follow are then in the optimum conditions for fast and efficient operations.

LARGE RAKES, WHICH ARE EASY TO USE

Despite their impressive size, the KUHN four-rotor gyrorakes are easy to operate and adjust. All settings are managed from the tractor seat for GA 13131 and GA 15131.

*The DLG (Deutsche Landwirtschafts Gesellschaft - German Agricultural Society) was founded in 1885. It is an independent institute whose aim is to promote technological progress and set quality standards.

Specifications in brief:

	GA 13031	GA 13131	GA 15131
Working width (m)	8.40 to 12.5		9.50 to 14.70
Windrow width (m)	1.40 to 2.40		1.40 to 2.50
Rotor diameter (m)	3.20		3.65
Rotor drive	hydraulic		
Transport width (m)	3.00		
Transport height (m)	3.95	4.00	



GA**13031****13131****15131**

LESS MAINTENANCE. MORE TIME.

KUHN has developed an exclusive hydraulic rotor drive for its four-rotor rakes. Very limited maintenance requirements give you the time to deal with more important things. Its smooth and quiet running and minimum wearing add to the comfort features of a hydraulic solution.



EXCLUSIVE

BUILT-IN HYDRAULIC UNIT

The hydraulic unit on GA 13131 and GA 15131 gyrorakes is mounted on the pivoting headstock of the machine frame. In this way the primary drive shaft is always perfectly aligned with the tractor, even in tight corners. PTO speed can be adapted to the type and volume of forage from the tractor cab. To make savings on fuel, you can choose between two speeds: 1,000 and 750 min⁻¹.

GAIN ONE HOUR A DAY

The hydraulic rotor drive with only one primary drive shaft reduces maintenance to a minimum. You can finally forget daily lubrication of secondary drive shafts and save up to one hour compared to a mechanically driven rake of the same size. When forage has to be quickly brought in before the next rain, this can make the difference.



EXCLUSIVE

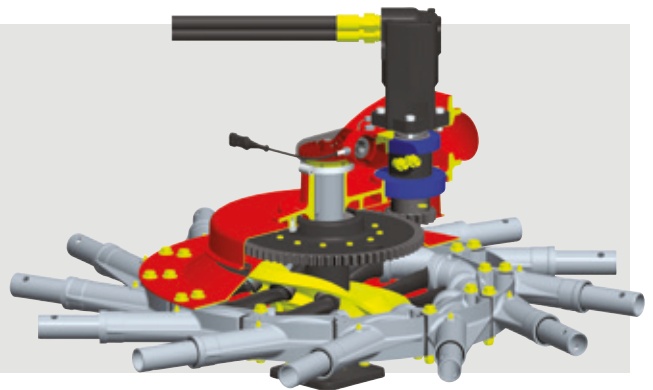
MORE STABILITY ON SLOPES AND FOR TRANSPORT

The coupling device with integrated suspension provides increased flexibility whilst driving and greater stability between the tractor and rake during turns. This improves the performance on rough roads and provides jolt-free driving through curves, as well as in the field when the rotors are lifted only on one side.

EXCLUSIVE

RELIABLE IN DIFFICULT CONDITIONS

With the new hydraulically driven and even better performing MASTER DRIVE GIII gearbox, the four-rotor gyrorakes are well prepared for high volumes of difficult crop. The transmission uses spur gears so tolerances are tightly controlled and the gearbox is reliable and robust.



AND SOMETHING FOR YOU

Drivers of harvesting machines couldn't ask for anything more than regular windrows, which are easier to pick up with forage harvesters, self-loading wagons and balers.

A BOOST FOR PERFECTLY FORMED WINDROWS

With working widths from 8.40 to 12.50 m for GA 13031 and GA 13131 gyrorakes, and from 9.50 to 14.70 m for GA 15131 gyrorakes, high acreage performance is one of the advantages of these machines. These large widths require the machines to be able to adapt to the harvester or baler that follows, and the working and windrow widths on these rakes are continuously and hydraulically adjustable from the tractor cab.



INDIVIDUAL ROTOR-WIDTH ADJUSTMENT

Individual width adjustment of one of the front rotors is available as an option (with a separate distributor): to make working plot edges and clearing obstacles simpler.

WORKING AND WINDROW WIDTH

Working width can be adapted to the amount of forage by adjusting the position of the front rotors from the cab via hydraulic cylinders. Windrow width can also be adjusted from the cab. It can be modified at any time by repositioning the rear rotors. Windrow widths can be set between 1.4 and 2.4 m (and up to 2.5 m with the GA 15131).

EACH ROTOR CAN BE LIFTED INDIVIDUALLY

Despite their impressive working widths, these four-rotor gyrorakes are flexible enough to work in triangular plots. They are effectively capable of lifting each rotor individually so they can rake in field points and avoid obstacles (optional on GA 13031). Headland turns are easy thanks to high clearance under the rotors.

PROTECTING THE SOIL AND PRESERVING THE GRASS STUBBLE

To protect soil and crop cover, optimised ground adaptation of the rotors is as valuable as reduced ground pressure for minimum soil compaction. The KUHN four-rotor gyrorakes are comprehensively equipped to fulfill these requirements.



INCREASED CONTACT SURFACE FOR LESS GROUND PRESSURE

Large dimensioned tyres on the transport frame distribute the machine weight over a larger cross section resulting in fewer marks in the field. They also help reduce compaction and ensure the rakes stability, even on slopes. The latter is also a strong point for the optionally available radial tyres.



3D PENDULUM SUSPENSION OF THE ROTORS

Suspended on an articulation joint and therefore independent from the main frame, the rotors can pivot in all directions and therefore follow the terrain precisely and reliably. The result: satisfying raking performance at all points to ensure a clean crop and a healthy grass stubble.



PIVOTING WHEELS PRESERVE THE GRASS

The rotors are each carried by four individually pivoting wheels which help to protect the grass stubble in tight turns. Due to their positioning very close to the tines, the rotors adapt immediately and effectively to changing terrain.



LESS GROUND PRESSURE

The front rotor arms are equipped with suspension springs ensuring that the rotors can float over the ground with less ground pressure. Hydraulic suspension of the rear rotors is also available as optional equipment.

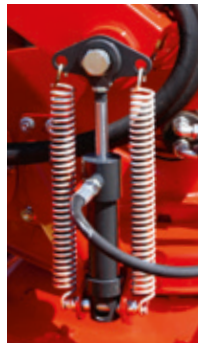
It allows load transfer to the machine's frame, increases the stability when working on steep slopes.



EXCLUSIVE

VERY STABLE AT WORK AND ON THE ROAD

Once the rotor is lifted on GA 13131 and GA 15131 gyrorakes, a hydraulic cylinder automatically locks it in place. This STABILIFT concept makes the machine more stable.



MAKE USE OF THE JET EFFECT

When lowering the rotor, the rear touches down before the front, in a similar way to an aeroplane. This ensures that the tines do not come into contact with the soil and the sward is preserved.



SIMPLY GREAT FORAGE!

Did you know that you can save concentrates worth 89 €/ha per year, just by reducing the impurities in the forage from 4 to 2 %*? We are at your side to help you produce forage of top quality to realise according gains.

We would like to pass on our know-how in forage production, gathered during several decades of producing hay/silage making implements.

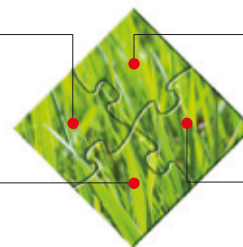
We provide advice for you to produce first-class animal feed. We help you to understand the strong points of our machines in order for you to use them in an optimal way to preserve the quality of your forage.

**Source: Agricultural chamber Weser-Ems, Germany.*

With the KUHN expertise, you will harvest forage with...

Minimum SPOILAGE

Minimum LEVEL OF IMPURITIES



High ENERGY AND HIGH NUTRIENT CONTENT

High PALATABILITY

Find all our expertise on forage.kuhn.com

APPRECIATE ITS SIMPLICITY

Simplicity and high acreage performance characterise the new GA 13031 4-rotor gyrorake. With adjustable working width from 8.4 to 12.5 m, it is the perfect ally for high acreage. 100% hydraulic drive and MASTER DRIVE 111 rotors ensure machine longevity in heavy and dense forage year after year. Excellent ground-hugging features such as 3D rotor articulation, wheels close to the tines, double-curved arms and the "jet-effect" lowering concept contribute to limiting impurities and producing well-shaped windrows.



The machine is easy to manage with hydraulic valves. Folding/unfolding, working width and windrow width adjustments are simple to make via 3 hydraulic valves: 2 double acting and 1 single acting with free return.



Machine settings are so simple. The working height of each rotor can be adjusted by crank handle.

Opt for the KGA 03C control box

For increased manoeuvrability, this optional electric control box allows raising the front rotors individually:

The control box enables:

- machine folding/unfolding using a button and not a cord,
- individual or simultaneous raising of the front rotors,
- working only with the rear rotors while ensuring the floating position for good ground following.



GA

13131

15131

THE PASTURE OCTOPUS

With working widths from 8.40 to 12.50 m and 9.50 to 14.70 m, high acreage performance is one of the advantages of GA 13131 and the GA 15131 gyrorakes. Two other great features are also integrated into these models.



ALL SETTINGS MADE FROM THE CAB

Discover or rediscover the ISOBUS solution

Before, each tractor coupled machine unit required a distinct control terminal per equipment. Today the ISOBUS standard allows controlling different machines using a single in-cab terminal. The two GA 13131 and 15131 gyrorakes are ISOBUS-certified by the AEF. To enable you to adapt this technology faster and easily, KUHN offers two in-cab terminals: CCI 800 or 1200 control boxes. A CCI A3 joystick can also be connected to the terminal for easier machine monitoring. Furthermore, it is possible to reuse an ISOBUS terminal and joystick, also from competitors, already installed on the tractor or present on the farm. Contact your KUHN dealer for more information on equipment compatibilities.



WHEN SETTINGS ARE CHILD'S PLAY

All rotor settings can be adjusted with the control terminal during work: rotor lift, working and windrow width, raking height, machine folding etc. Automatically folding rotor functions provide even more comfort. The rotors can be set simultaneously two by two at the front or rear, or individually. Rotor height is displayed both on the screen of the terminal and on the rotor frame.

BOOST DRIVE FOR PERFECTLY FORMED WINDROWS

THE KUHN PLUS

FRONT ROTORS 20% FASTER

The speed of the front rotors can be increased by 20% in relation to the rear. This boost feature improves forage flow-through to the centre of the machine where it is picked up more easily by the rear rotors to create perfectly formed and fluffy windrows. It is the ideal way to improve forage dry-down.



TRANSPORT HEIGHT UNDER FOUR METERS!

Despite their impressive dimensions, the KUHN four-rotor gyrorakes are relatively compact and easy to transport. This is underlined by the following points:

- When folded in transport position, the machines are not more than 4.00m high, without the need to remove any ,tine arms.
- Their low centre of gravity gives the machines a good stability on the road.
- With pneumatic brakes the GA 13131 and GA 15131 rakes are authorised for 50kph during road transport (depends on the country of homologation).



EXTEND YOUR DAYS

Five high quality LED lights are available as optional equipment - one for each rotor as well as one to light up the windrow at the rear. Trouble-free raking after sunset.



KEEP A GOOD OVERVIEW

As another option, a camera can be mounted to the rear of the rake, which feeds a high-quality video directly to the cab. Now you can benefit from greater safety and ease of use during work, on the road and while turning at the headland.

KUHN SERVICES* Maximize the use and productivity of your kuhn equipment

*Not all services and equipment are available in every country.

KUHN sos order

EXPRESS SPARE PARTS SERVICE 24/7

You urgently need spare parts? With KUHN sos order benefit from express delivery seven days a week, 365 days a year. Thus, you can minimize machine downtime considerably and increase your work output.

KUHN protect +

THE CHOICE OF PROFESSIONALS!

Benefit from 36 months in complete serenity because of KUHN's protect + warranty. You can concentrate exclusively on your work and the performance of your machine. Because this is what you expect, when investing in high-tech machinery.

KUHN i tech

FOR EVER QUICKER REPAIRS!

An unexpected technical problem always occurs at the wrong time. Your KUHN dealer can support you quickly and efficiently thanks to KUHN i tech. With this 24/7 online service, a quick and exact diagnosis is possible.

KUHN finance

INVEST RATIONALLY!

New machine necessary, financing unsure? Modernize your equipment and develop your farm with KUHN finance, in total safety and according to your needs and demands. We offer custom-made finance solutions, adapted to your requirements.

Specifications			
	GA 13031	GA 13131	GA 15131
Working width (m)	8.40 to 12.50		9.50 to 14.70
Windrow width (m)	1.40 to 2.40		1.40 to 2.50
Transport width (m)	3.00 (3.10 with 710/40-22.5 wheels)		
Transport length (m)	9.95		10.90
Transport height (m)	3.95		4.00
Rotor diameter (m)	3.20		3.65
Number of tine arms per rotor	front rotors: 11 rear rotors: 12		front rotors: 13 rear rotors: 15
Number of tines per arm	4		
Gearbox	MASTER DRIVE GIII		
Rotor drive	By hydraulic unit mounted on headstock		
Ground adaptation	3D pendulum-type articulation		
Working height adjustment	Manual	Hydraulic	
Number of wheels per rotor	4 (pivoting)		
Tyres on rotor undercarriage	16 x 6.5-8		16 x 9.50-8 (18 x 8.50-8 as option)
Tyres on main frame	500/60-22.5 (600/50-22.5 RADIAL as option)		600/50-22.5 (710/40-22.5 RADIAL as option)
PTO speed (min ⁻¹)	1,000 (option: 750)		
Attachment	2-point lower link attachment - cat. 2 and 3		
Tyres on main frame	◆		
Sequential rotor lift	◆		
Functions controlled by the ISOBUS terminal (of which the CCI 50 and CCI 1200)	–	Working and windrow width, raking height, individual or paired rotor lift, front rotor speed ("boost" drive)	
Tractor electrics required	1 7-pin socket (signalling)		
Tractor hydraulics required	1 SA with float position + 1 free return + 2 DA	1 x SA + free return (or Load Sensing as option)	
Lighting and signalling	◆		
Min. PTO power requirement (kW/hp)	70 / 95		85 / 115
Weight (kg)	5,100	5,150	6,100

◆ as standard ◊ optional - not available

Optional equipment: set of large tyres for transport undercarriage of GA 13131 and GA 15131: 600/60-22.5 and 710/40-22.5 - 5 LED lights - camera - set of shims for high stubble heights - hydraulic Load Sensing kit - KGA 03C control box - rear rotor suspension.



KUHN PARTS

Designed and manufactured to rival time



KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.

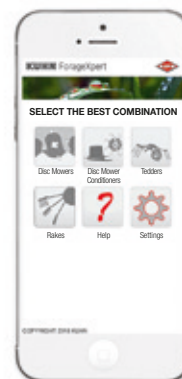


SMALL IN SIZE BUT GREAT IN TERMS OF IMPACT

FOR A POWERFUL FORAGE HARVESTING CHAIN

The forage harvesting chain is only as strong as its weakest link. It's important that all machines do well interlock. In this context, the KUHN ForageXpert app can support you in optimising your harvest system according to your current equipment. With this tool you can quickly find the mower, mower conditioner, tedder and rake that are best adapted to your existing forage machines.

Available on the Apple Store as well as Google Play.



Comparative

Four-rotor Gyrorakes

	ISOBUS control	100% hydraulic drive	Boost function for front rotors	All adjustments from the cab	MASTER DRIVE G111 gearbox	Linkage with integrated suspension	Transport height under 4 m
GA 13031	-	X	-	-	X	X	X
GA 13131 GA 15131	X	X	X	X	X	X	X

Check out the comprehensive range of KUHN hay/silage making machines for larger operations and contractors!




1. Triple gang disc mowers -
2. Triple gang disc mower conditioners -
3. Trailed gyrotedders with 13 and 17 m working widths
4. Semi-mounted twin-rotor gyrorakes with side delivery -
5. Semi-mounted twin-rotor gyrorakes with central delivery -
6. Belt mergers.

For more information about your nearest KUHN dealer, visit our website www.kuhn.com



Visit us on our YouTube channels.



www.kuhn.com

Your KUHN dealer

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Stafford Park 7 - GB TELFORD/ SHROPS TF3 3BQ

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