

Four-rotor gyrorakes

GA 13131 / GA 15131



www.kuhn.com



be strong, be **KUHN**



GA

13131

15131

THE 100 % HYDRAULICALLY DRIVEN RAKE!

The GA 13131 and GA 15131 four-rotor gyrorakes not only stand for high work rates, but also link high flexibility and superior quality of work. The uniform windrows they create, provide the base for a high performance harvesting chain.

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

It's not only because of their large working width that these fully hydraulic rakes ensure a high work output. With only one drive shaft left to lube, you can save up to one hour of maintenance a day compared to a mechanically driven rake of similar size. This way, you can add up to ten extra hectares to your daily output in the field!

UNIFORM WINDROWS ARE NECESSARY FOR AN EFFICIENT FORAGE HARVEST

The « boost » drive of the rakes' front rotors helps to create perfectly formed windrows. This feature provides the best conditions for the following forage harvest, which can be finished quickly and efficiently.

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 made hydraulically from the tractor seat. In addition, the headland sequence can proceed automatically at the touch of a button thanks to a pre-programmed sequence.

The most important specifications in brief:

	GA 13131	GA 15131
Working width (m/ft)	8.40 to 12.50 / 27'7" to 41'	9.50 to 14.70 / 31'2" to 48'3"
Windrow width (m/ft)	1.40 to 2.40 / 4'7" to 7'10"	1.40 to 2.50 / 4'7" to 8'2"
Rotor diameter (m/ft)	3.20 / 10'6"	3.65 / 12'
Rotor drive	hydraulic	
Transport width (m/ft)	3.00 / 9'10"	



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 of GA 13131 and GA 15131 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. Moreover, you can adapt the PTO speed from the cab according to type and volume of forage. In order to further reduce your fuel costs, you have the choice between a 1,000 (standard) and 750 (optional) min⁻¹ gearbox. To conclude, the hydraulic drive considerably simplifies the machine and provides multiple solutions for improved work.



Markus Schneider

Rhineland-Palatinate, Germany
Biogas plant 380 kW, grassland
contracting services

The German contractor summarises, how his GA 15131 rake helps him to increase his daily output: «Usually our customers ask us to rake as many hectares in as few hours as possible to get best feed quality. We are impressed by the hydraulic drive, which ensures that the rotors are low-maintenance and run smoothly. Also, the transport position is reached quickly without lengthy delays until the rotors have finally come to a standstill. With this rake, we can be competitive, also in our region with small structures.»



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.

A BOOST FOR PERFECTLY FORMED WINDROWS



KUHN PLUS

FRONT ROTORS CAN ROTATE 20% FASTER AT THE TOUCH OF A BUTTON

From the tractor cab the rotation speed of the front rotors can be increased by 20% compared to the rear rotors. With the help of this «boost» function, the forage is ejected further and with more drive toward the centre of the machine. This leads to the forage becoming less twisted as it is not rolled over the ground, allowing the rear rotors to form a uniform and airy windrow. This is ideal for perfecting the forage drying process.



TO THE DRIVER'S DELIGHT

Uniform windrows especially please drivers of subsequent harvesting machines, as they can be easier collected by the pick-ups of forage harvesters, self-loading forage wagons and balers.

MASTER DRIVE GIII GEARBOX WITH HYDRAULIC DRIVE

The MASTER DRIVE gearbox has proven itself for a long time on KUHN gyrorakes. It reveals an exclusively designed drive using spur gears. The rotor gearwheels are driven by the latter. In this way, tolerances are tightly controlled. This enhances the robustness of the whole assembly 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.



TAILOR THE WINDROWS TO CROP QUANTITY AND PICK-UP WIDTH

With working widths from 8.40 to 12.50m and 9.50 to 14.70m respectively, high field output is one, but not the only bonus of the GA 13131 and the GA 15131 gyrorakes. These large widths necessitate that the machine is able to adapt to the subsequent harvester. That is exactly why you can fully adjust the working and windrow widths continuously and hydraulically from the tractor seat.



WORKING WIDTH IS A QUESTION OF FORAGE QUANTITY

The working width can be adapted to different amounts of crop by setting the position of the front rotors. This is done from the cab with the support of hydraulic cylinders and angle sensors.

ADAPT WINDROW WIDTH TO PICK-UP

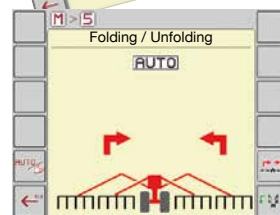
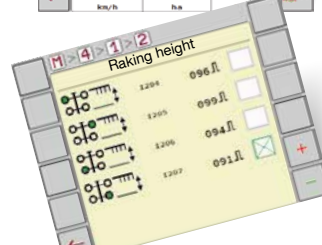
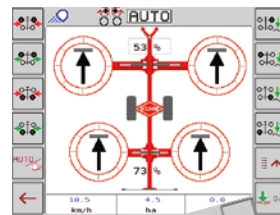
The windrow width is also adjustable from the cab. This allows you to set it during work by repositioning the rear rotors. Widths from 1.40 to 2.40m can be selected (up to 2.50m on GA 15131).

EACH ROTOR CAN BE LIFTED INDIVIDUALLY

Despite its large working widths, the four rotor gyrorakes are flexible enough to work in triangle shaped fields. This is thanks to the ability to lift each rotor individually at any time, to rake into field corners or to avoid obstacles. At the same time, its high ground clearance makes it easy to pass previously created windrows.

ALL ADJUSTMENTS DIRECTLY FROM THE CAB

All rotor settings are hydraulically adjustable during work via the terminal: working and windrow width, rotor lift, raking height, machine folding, etc.; you can use a joystick to further facilitate the operation. Both rakes are equipped with ISOBUS software. KUHN offers two ISOBUS solutions (CCI 50 or CCI 1200 terminals), each featuring a colour touchscreen. It is also possible to use an ISOBUS terminal already installed on the tractor or at the farm such as the VT 50, the CCI 200 or other competitor terminals. Check with your dealer for the list of compatibilities.



Comfortable settings



Compatible with different
ISOBUS terminals



RAKING HEIGHT ADJUSTMENT IS CHILDSPLAY

The raking height is easily adjusted from the driver's seat. This can be done simultaneously for the two front or the two rear rotors as well as individually for each single one. The current height is indicated both on the terminal's display and the rotor undercarriage.

SMART HEADLAND MANAGEMENT



For easy and efficient headland turns at the end of the field, an automated pre-programmed headland sequence has been integrated into the ISOBUS software. It can be simply adapted to your specific needs, and thanks to angle sensors, the rotors will always be raised to the pre-defined height regardless of working width. Once all pre-adjustments are done you only need to press a button then sit back and let the electronics do the work.

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.

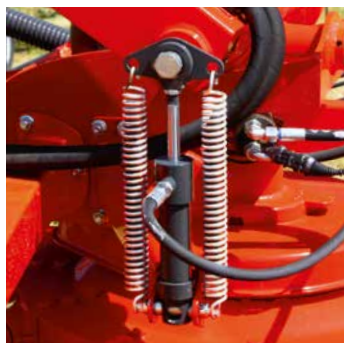
It allows load transfer to the machine's frame, increases the stability when working on steep slopes.



EXCLUSIVE

VERY STABLE AT WORK AND ON THE ROAD

Once the rotor is lifted, a hydraulic cylinder automatically locks the rotor articulation. With this STABILIFT system, the machine remains more stable.



MAKE USE OF THE JET EFFECT

A hydraulic cylinder at the front of the rotor head controls the «touchdown» when lowering the rotor. In a similar way to an aeroplane, the rear touches first with the front following. This ensures that the tines do not contact the soil.



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.

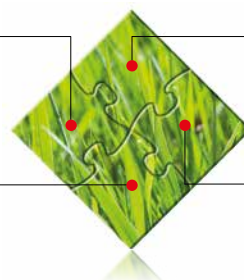
We provide advice for you to produce first-class animal feed. We help you to understand the strong points of our machines in order for you to use them in an optimal way to preserve the quality of your forage.

**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

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* Maximise 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 minimise 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? Modernise 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.

Technical specifications

	GA 13131	GA 15131
Working width (m/ft)	8.40 to 12.50 / 27'7" to 41'	9.50 to 14.70 / 31'2" to 48'3"
Windrow width (m/ft)	1.40 to 2.40 / 4'7" to 7'10"	1.40 to 2.50 / 4'7" to 8'2"
Transport width (m/ft)	3.00 / 9'10" (3.10 / 10'2" with 710/40-22.5 wheels)	
Transport length (m/ft)	9.95 / 32'8"	10.90 / 35'9"
Transport height (m/ft)	3.95 / 13'	4.00 / 13'1"
Rotor diameter (m/ft)	3.20 / 10'6"	3.65 / 12'
Number of rotors	4	
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	pendulum-type 3D articulation of rotors	
Working height adjustment	hydraulic	
Number of wheels per rotor	4 (pivoting)	
Tyres on rotor undercarriages	16x6.5-8	18x8.50-8
Tyres on frame undercarriage	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	
Spare wheel for the rotors	◆	
Sequential rotor lift	◆	
Functions monitored via 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 hydraulic requirements	1x SA + free return (or Load Sensing as option)	
Lighting and signalling	◆	
Min. PTO power requirement (kW/hp)	70 / 95	85 / 115
Approx. weight (kg/lbs)	5,150 / 11,354	6,100 / 13,450

◆ as standard ◇ optional equipment - 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.



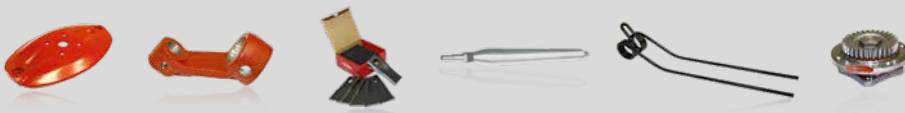
be strong, be **KUHN**

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 authorised 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.



Scan this code to directly access the KUHN ForageXpert app.



In comparison

Four rotor gyrorakes

	Completely hydraulically driven	«Boost» function for front rotors	All adjustments made from the cab	MASTER DRIVE Gill gearbox	Suspended lower linkage coupling	Transport height below 4 m
GA 13131 GA 15131	X	X	X	X	X	X
Equivalent models of other brands	Not available					

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



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KUHN FARM MACHINERY (U.K.) LTD
Stafford Park 7
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