

Four-Rotor Gyorakes

**GA 13131 / GA 15131**



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be strong, be **KUHN**



GA 13131 15131

# THE 100 % HYDRAULICALLY DRIVEN RAKE!

The GA 13131 and GA 15131 four rotor Gyorakes are not only synonymous with high work rates, but also links high flexibility and superior quality of work. The uniform windrows they create, provide the base for a high performance harvesting chain.

## REDUCE MAINTENANCE AND OPERATION COSTS

It's not only because of its high output that these rakes can work as cost-efficiently as they can. It is also thanks to the maintenance costs which have been reduced to a minimum. This is possible due to a comprehensive list of innovative features, including the hydraulic rotor drive.

## 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 Gyorakes 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)	8.40 to 12.50 / 27'7" to 41'	9.50 to 14.70 / 31'2" to 48'3"
Windrow width (m)	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, LESS NOISE. MORE COMFORT.

KUHN has developed an exclusive hydraulic rotor drive for its four-rotor rakes. You will be impressed by how incredibly smooth and quiet it runs as well as minimum wearing. Additionally, the maintenance requirements are very limited and the rotor speed is adjustable according to the forage to rake.

### EXCLUSIVE

#### HYDRAULIC POWER ON-BOARD

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 to the tractor, even in tight corners. Moreover, you can adapt the PTO speed from the cab according to type and volume of forage. In addition you can choose between a 1,000 (standard) and 750 (optional)  $\text{min}^{-1}$  gearbox: thereby further reducing your fuel costs. To conclude, the hydraulic drive considerably simplifies the machine and provides multiple solutions for improved work.



### HIGHLY REDUCED MAINTENANCE

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. This has a positive effect, allowing the machine to run longer and greatly reducing labour costs for maintenance.

### 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 corners, 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.

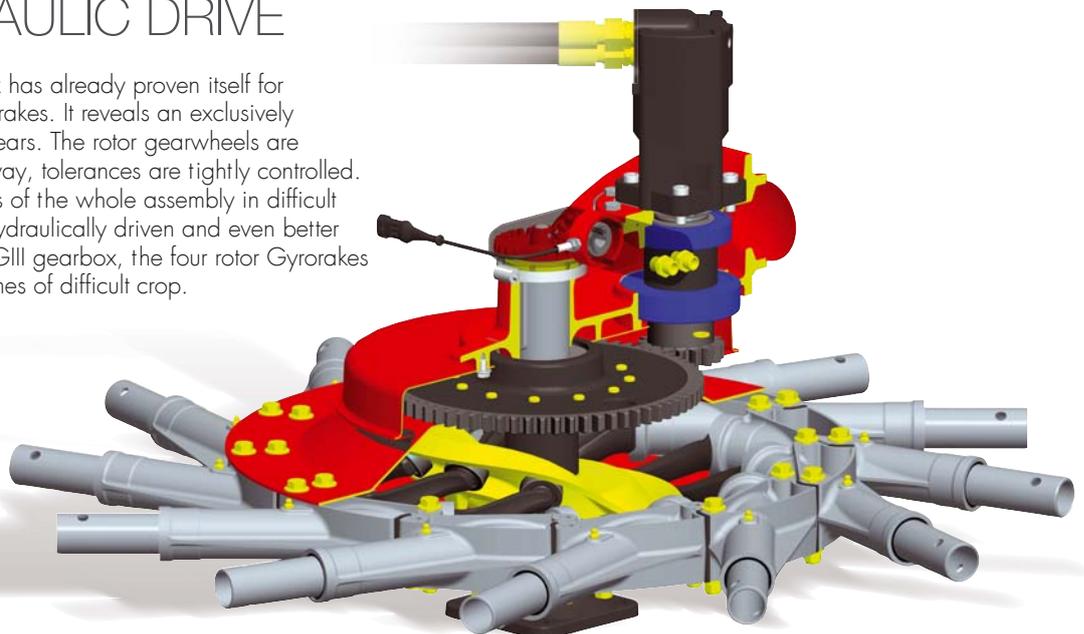


## TO THE DRIVER'S DELIGHT

Uniform windrows especially please the drivers of the 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 already 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 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 12.50 m and 9.50 to 14.70 m respectively, high field output is one, but not the only bonus of the GA 13131 and the GA 15131 Gyrorakes. These large widths significantly increase the demand for machines ability 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.



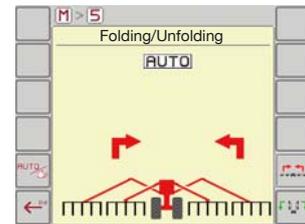
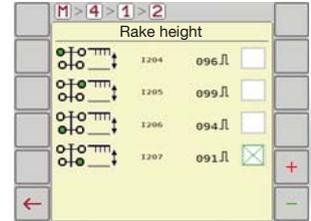
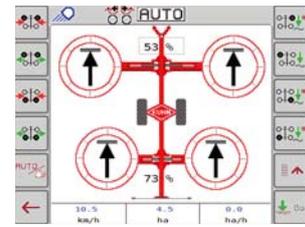
## ADAPT WINDROW WIDTH TO PICK-UP

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 2.40 m can be selected (up to 2.50 m 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.



# AUTOMATED WORK FOR INCREASED COMFORT

The driver is supported by numerous automated processes for controlling the GA 13131 and GA 15131 large-width rakes. A large part of this is thanks to the easy to use VT 50 with colour display and touchscreen. All rotor settings are hydraulically adjustable during work via the control terminal: working and windrow width, individual or paired rotor lift, raking height as well as front rotor speed («Boost» drive). A reliable solution for optimum ease of use!



## 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 VT 50 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 VT 50 control box. 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 keep soil and crop cover protected, optimized 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.



## 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 during tight turns. Due to their positioning very close to the tines, the rotors adapt immediately and effectively to changing terrain.



## EXERCISE LESS PRESSURE ON THE SOIL

The front rotor arms are equipped with suspension springs. That's why the rotors can float over the ground with less ground pressure. Moreover, these springs improve the stability when raking on steep slopes.

## INCREASED CONTACT SURFACE FOR LESS GROUND PRESSURE

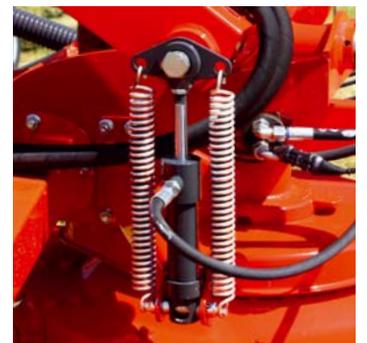
Large dimensioned tyres on the transport frame distribute the machine weight over a larger cross section so leaving fewer marks in the field. They also help to reduce compaction and ensure the rakes stability, even on slopes.



## 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.





# KUHN *Grass* MASTER

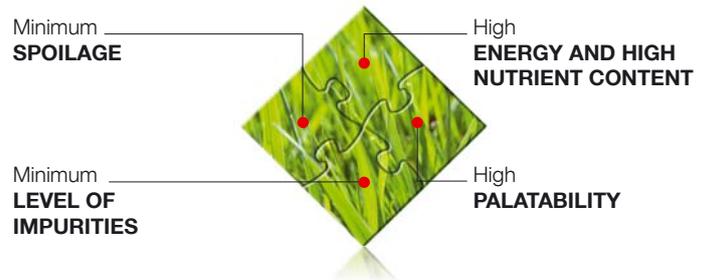
## SIMPLY GREAT FORAGE!

**Did you know that you can save concentrates worth 89 €/ha and year, just by reducing the impurities in the forage from 4 to 2 %\*? With KUHN GRASSMASTER, we are at your side to help you produce forage of top quality to realize 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 that you can use them in an optimal way to preserve the quality of your forage.

**With the expertise of KUHN GRASSMASTER, you will harvest forage with...**



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

Find all our expertise on [www.kuhn-grassmaster.com](http://www.kuhn-grassmaster.com).



# BELOW FOUR METRES TRANSPORT HEIGHT!

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 4.00 m 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 authorized for 50 km/h during road transport (depends on the country of homologation).



## A BETTER VIEW IN THE DARK

Five LED lights of high quality are available as optional equipment on GA 13131 and GA 15131 - one for each rotor as well as one to light up the window at the rear. With their help, you can also rake after sunset without problems.



## 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\*

\*Certain services and equipment are not available in all countries.

## MAXIMIZE THE USE AND PRODUCTIVITY OF YOUR KUHN EQUIPMENT

### 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, 362 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 extension. 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.

## 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"	
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
PTO speed (min <sup>-1</sup> )	1,000 (option: 750)	
Attachment	2-point lower link attachment - cat. 2 and 3	
Spare wheel for the rotors	◆	
Sequential rotor lift	◆	
Functions of VT 50 control box	Working and windrow width, raking height, individual or paired rotor lift, front rotor speed ("boost" drive)	
Tractor electric requirements	1x 7-pin plug (signalling), 1x ITH harness for VT 50 control box included	
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

◆ standard ◇ option - 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.



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## 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.



FOUR ROTOR GYRORAKES

# COMPARE AND DECIDE FOR YOURSELF!

In comparison

Four rotor Gyrorakes

	Completely hydraulically driven	«Boost» function for front rotors	All adjustments made from the cab	MASTER DRIVE GIII gearbox	Suspended lower linkage coupling	Transport height below 4 m
<b>KUHN GA 13131 / GA 15131</b>	✓	✓	✓	✓	✓	✓
Comparable models	?	?	?	?	?	?

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.



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**KUHN NORTH AMERICA, INC.**  
1501 West Seventh Avenue - Brodhead,  
WI 53520 - USA

**KUHN FARM MACHINERY PTY. LTD**  
313-325 Foleys Road - Deer Park, VIC, 3023 - AUSTRALIA

**KUHN FARM MACHINERY (U.K.) LTD**  
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