



Quad-Rotor Rotary Rakes  
GA 13231 / 15231



## EXTRAORDINARY RAKING

WITH WORKING WIDTHS RANGING FROM 27' TO 48'3" (8.4 TO 14.7 M), THESE MACHINES CAN BE TAILORED TO FIT ANY TYPE OF LARGE OPERATION. THE LARGE WIDTH OF THE RAKE INCREASES ITS CAPACITY AND THE ABILITY TO HARVEST A VARIETY OF CROPS. FLUFFY WINDROWS PROMOTE QUICK DRYING AND UNIFORM CROP PICKUP.



### 100% HYDRAULICALLY DRIVEN

All rotor settings are hydraulically adjustable via the in-cab terminal: working and windrow width, rotor lift, raking height, folding, etc. Operators can utilize a programmable joystick for additional ease of operation.

### RUGGED DEPENDABILITY

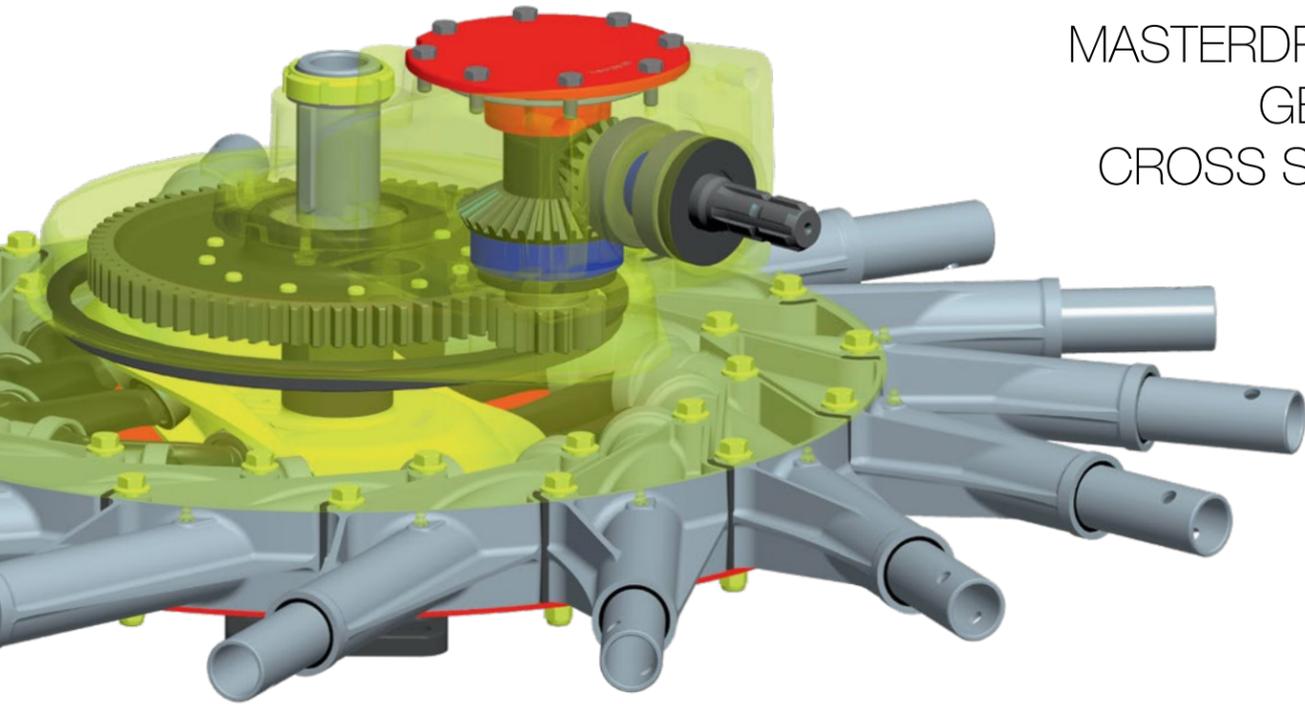
KUHN's Masterdrive® GIII double-reduction gearbox's ability to move heavy wet crop, handle dry hay gently, and neatly windrow forage is unrivaled in the industry.

Models	Working Width	Windrow Width	Horsepower Requirement
<b>GA 13231</b>	27'7" – 41' (8.4 – 12.5 m)	4'7" – 7'10" (1.4 – 2.4 m)	95 hp (70 kW)
<b>GA 15231</b>	31'2" – 48'3" (9.5 – 14.7 m)	4'7" – 8'2" (1.4 – 2.5 m)	114 hp (85 kW)

## Summary

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MASTERDRIVE® GIII  
GEARBOX  
CROSS SECTION



**100% HYDRAULICALLY DRIVEN**

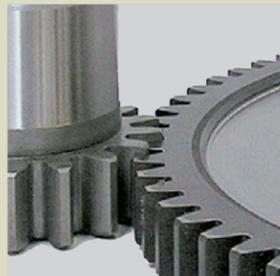
## THE MASTERDRIVE® GIII GEARBOX: MASTER TOUGH CONDITIONS

Today's agricultural machines need to withstand more stress as working widths increase and there is greater demand for maximum service life. For rotary rakes this is particularly true for the heart of the machine—the rotor drive. KUHN has developed fully enclosed gearboxes for total protection of the drive parts and less wear. The Masterdrive GIII double-reduction gearbox is designed for heavy crops, tough field conditions and intensive use. The Masterdrive GIII's ability to move heavy wet crop, handle dry hay gently, and neatly windrow corn stalks is unrivaled in the industry.

### KUHN PATENT

The Masterdrive GIII gearbox has an exclusive two-stage reduction drive with bevel and bull gears. Tolerances in the bevel reduction are tightly controlled for exceptional reliability and increased life of the entire assembly in difficult conditions.

With this system, wear on the gears is reduced to a minimum and almost no maintenance is required. The two stages also make it possible to include bigger bull gears with more teeth for more efficient power transmission.



*No uneven contact  
when driving over  
rough terrain*



### EASILY ADJUST WORKING WIDTH

The working width can be adapted to fit 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 WIDTH TO PICKUP

The windrow width is easily adjustable from the cab. This allows the operator to set it when repositioning the rear rotors. Widths from 5' to 8' (1.5 to 2.4 m) can be selected.



### INDIVIDUALLY LIFTED ROTORS

Despite the large working width, these rakes 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.

### ISOBUS CONTROL

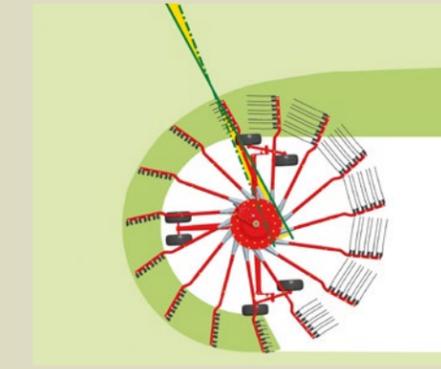
All rotor settings are hydraulically adjustable during work via the in-cab terminal. Operators can use a programmable joystick to further facilitate the operation. Both rakes are equipped with ISOBUS software. KUHN offers two ISOBUS solutions—the CCI 800 and CCI 1200 terminals—each featuring a color touchscreen. It is also possible to use an ISOBUS terminal already installed on the tractor.





**3D ROTOR ARTICULATION**

Suspended on an articulation joint and independent of the main frame, the rotors can pivot in all directions and precisely follow the terrain. The precise pick-up results in a clean crop.



**HYPER-TANGENTIAL TINE ARMS**

KUHN's hyper-tangential tine arms promote superior windrow formation by pushing the crop toward the outside of the rotor, toward the windrow. This allows high-quality raking at a higher speed due to a reduced distance between tine passes.



**HYDRAULIC SUSPENSION**

The front rotors come standard with automatic hydraulic suspension with electronic control. This easy adjustment to changing conditions reduces field ruts and stubble damage. Hydraulic suspension is optional on rear rotors.

# SOIL PROTECTION WHERE IT MATTERS MOST

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 quad-rotor rotary rakes are comprehensively equipped to fulfill these requirements and keep your soil strong.



**LARGE TIRES**

Large-dimensioned tires distribute the machine's weight over a large cross section. This helps to reduce soil compaction.



**PROTECTING THE STUBBLE**

The rotors are each carried by four tires which help to protect the grass stubble when making tight turns. Due to the positioning of the tines, the rotors will adapt to any terrain they are working on.



**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 airplane, the rear touches down first with the front following. This ensures that the tines do not make contact with the soil.

Technical Specifications		
	GA 13231	GA 15231
Working width (min/max)	27'7" - 41' (8.4 - 12.5 m)	31'2" - 48'3" (9.5 - 14.7 m)
Average windrow width	4'7" - 7'10" (1.4 - 2.4 m)	4'7" - 8'2" (1.4 - 2.5 m)
Transport width	9'10" (3.0 m)	
Transport length	32'8" (10.0 m)	35'9" (10.9 m)
Transport height	12'11" (3.9 m)	13'1" (3.95 m)
Number of rotors	4	
Rotor diameter	10'6" (3.2 m)	2 x 12'4" (3.8 m) and 2 x 13'1" (4.0 m)
Number of tines per tine arm	4	
Tine arms	Fixed, 11 in front, 12 on rear	Fixed, 13 in front, 15 on rear
Gearbox	Masterdrive Gill	
Ground following	3D suspension	
Raking height adjustment	Standard via ISOBUS	
Front rotor suspension	Constant hydraulic suspension, automatically adjusted according to the working width (standard on front rotors)	
Front rotor individual working width adjustment	Standard via ISOBUS	
Spare wheel for rotors	2 as standard	
Tyres	4 tires per rotor, 16 x 6.50-8	4 tires per rotor, 18 x 8.50-8
Transport tires	500/60-22.5	600/50R-22.5
Control terminal	via ISOBUS terminal	
PTO speed	1,000 rpm	
PTO shaft	1 3/8" - 21-spline	
Hitch	2-point, Cat. 2 and 3N	
PTO minimum power requirement approx.	95 hp (70 kW)	114 hp (85 kW)
Required tractor hydraulic connections	LS connection: 1 x Pressure, 1 x Free return, 1 x Load sensing	
Required tractor electrical connections	1 x 7 pin light connection, ISOBUS plug, 12V power	
Road lights and signalling	Standard	
Approx. weight	11,355 lbs (5,150 kg)	13,670 lbs (6,200 kg)
Brake system	Hydraulic	

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