

Rotary Tedders

GF 102 / 1002 / 1012 Series



www.KuhnNorthAmerica.com



Invest in Quality®

ROTARY TEDDERS GF 102 / 1002 / 1012 SERIES

THE MOST COMPLETE AND ADAPTIVE TEDDER RANGE ON THE MARKET

SPEED UP THE DRYING PROCESS

Tedding is a key link in the harvesting chain because it accelerates drying. The goal is simple: preserve the nutritional value of the crop and limit weather-related risks. The small-diameter KUHN rotors are crucial to a quality spread pattern. Small-diameter rotors do a better job of breaking up wet clumps for quicker drydown.

RELIABILITY YOU CAN COUNT ON

KUHN tedders are not only designed to handle the crop properly, but to be reliable as well. The best example for this is the tried-and-true DigiDrive® rotor drive coupling system. Additionally, use of high-strength steel provides 50% more strength per pound. This results in a lighter weight, yet higher strength frame than all others in the industry.

VERSATILE AND ADAPTIVE

To optimize your field efficiency, your forage harvesting equipment has to adapt to multiple situations. KUHN rotary tedders are designed with innovative features to provide you with the best return for your investment.

ROTARY TEDDERS

in brief

Models	Working Width	Number of Rotors	Tine Arms Per Rotor	Horsepower Requirement
GF 222 T	8'6"	2	6	20
GF 502	16'5"	4	6	20
GF 502 THA	16'5"	4	6	20
GF 5202 THA	17'1"	4	7	20
GF 6502	21'4"	6	6	60
GF 7802	25'7"	6	7	75
GF 7902	25'7"	8	5	75
GF 8712	28'6"	8	6	55
GF 10812	35'5"	10	6	55
GF 7802 THA	25'7"	6	7	35
GF 7802 T GII	25'7"	6	7	45
GF 7902 T GII	25'7"	8	5	45
GF 8712 T	28'6"	8	6	55
GF 10812 T	35'5"	10	6	55
GF 13012	42'8"	12	6	80
GF 17012	56'5"	16	6	100

* T and THA models, along with the 13012 and 17012, are trailed.



DRY WITH THE SPEED OF LIGHT



DIGIDRIVE® COUPLING: LEGEND IN THE MAKING

When a KUHN engineer came up with this drive coupling design, we knew that it would revolutionize the rotary tedder. This patented design made it possible to reliably drive a large number of rotors, yet fold them for unmatched transport ease, all with virtually no maintenance or repairs.

Since the DigiDrive coupling's inception, nearly 20 years have passed and more than 150,000 KUHN tedders are now being used across the world to ted hay with the ultimate reliability.

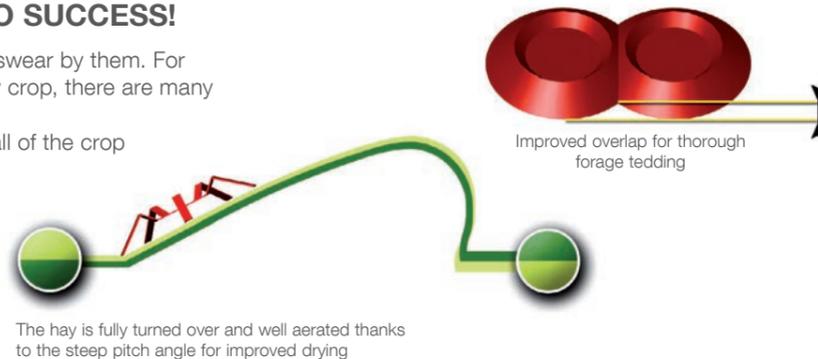


Made of case-hardened forged steel!

SMALL ROTORS ARE THE KEY TO SUCCESS!

Experts are convinced and those who use them swear by them. For those whose goal is to harvest the highest quality crop, there are many advantages:

- Work with a wide angle of attack while turning all of the crop
- Fast, uniform drying
- Complete crop inversion
- Uniform crop distribution
- Exceptional ground adaptation
- Minimum distance to the center of gravity on mounted tedders for reduced lift requirements
- Reduced horsepower requirements



THEORY BACKS THE PRACTICE

The table below shows the effect of various pitch angle settings on tedding efficiency. **A steep tedding angle considerably reduces drying time.**

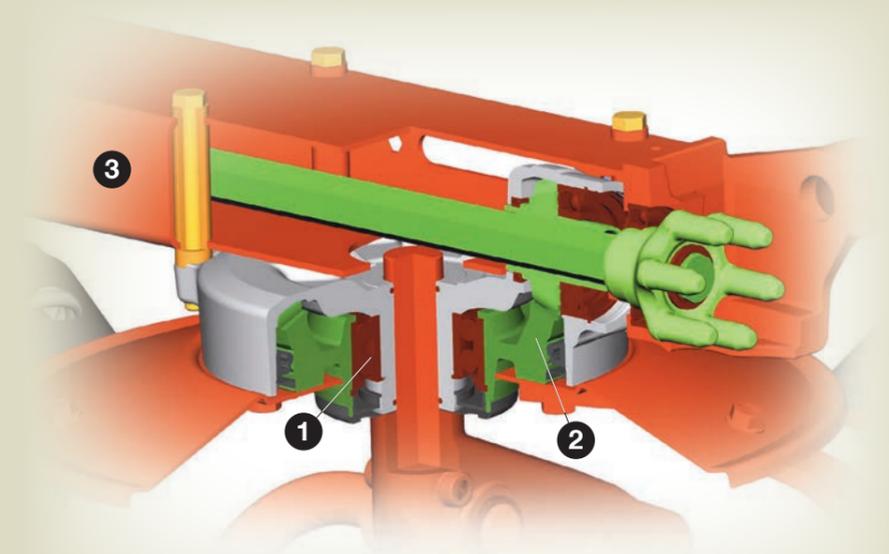
PITCH ANGLE Difference in height between rotor front and rear	FLAT ANGLE 9"	AGGRESSIVE ANGLE 15"
Distribution precision (measured by evenness of overall spread pattern)		
Good	14%	29%
Average	46%	39%
Poor	39%	32%
% Moisture		
Crop when cut	79.3%	79.3%
After 4 hours (if teded right after cutting)	74%	71.4%
Average drying speed		
% moisture loss per hour	1.33%	1.98%
Theoretical drying time to obtain 70% moisture content	7 hours	4.7 hours

MINIMAL MAINTENANCE

With rotors driven by DigiDrive couplings and lubed-for-life rotor housings, the greasing points are limited to a relatively few pivot points allowing you to spend more time in the field and less time greasing.

ROTOR HOUSINGS ARE MADE TO LAST

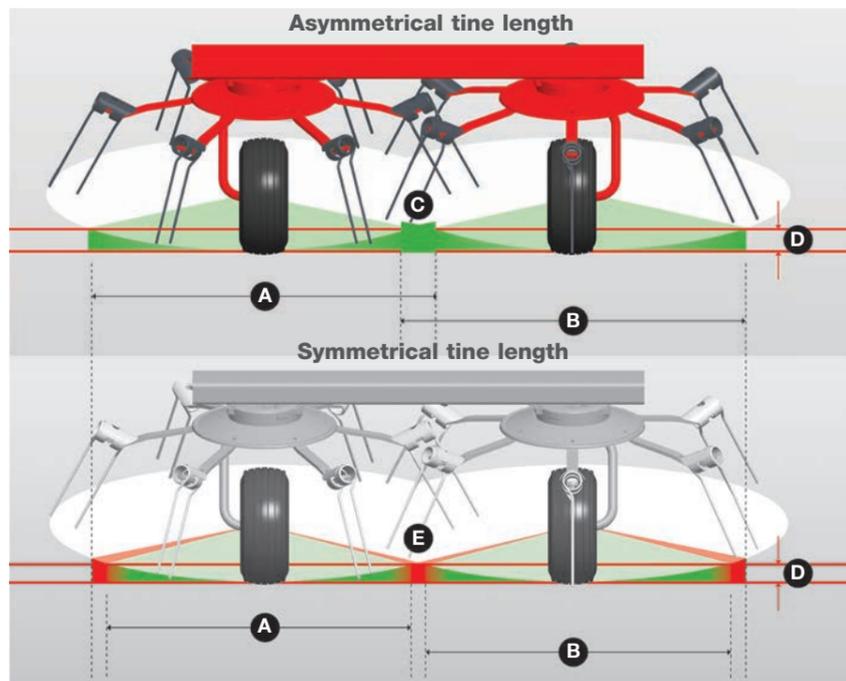
1. They are supported by large-diameter, double-row, angular ball bearings
2. The thoroughly sealed rotor housing prevents lubricant leaks or introduction of contaminants
3. The robust mounting of housings to the edge of the rectangular frame maximizes strength and durability



AN EXCEPTIONAL LEVEL OF STANDARD EQUIPMENT

TINES THAT WON'T LET YOU DOWN

When it comes to tines that actually engage the crop, KUHN leaves nothing to chance: top-quality raw material has been wound into four coils with long tine fingers, giving you exceptional reliability. A defined attachment system to the arms results in an unmatched design life of at least 180,000 cycles. This provides several hundred hours of work before tine replacement is necessary. Asymmetrical tine finger length means both fingers engage the crop equally for a more consistent pickup. The tine guards prevent accumulation of debris around the coils.



TINES THAT CONTACT THE FORAGE EARLIER

The **asymmetrical tine length** with longer outer fingers has several advantages to bring the machine's tedding quality to perfection. This allows the outer finger to touch the crop earlier compared to symmetrical tines. It also ensures **more complete tedding**, along borders and **between the rotors (C) (E)**, where the tines **overlap more in this sensitive area**. Contacting the crop sooner means that the actual working width of each rotor is expanded and as a result, the entire machine working width is expanded.

A Working width rotor 1 **B** Working width rotor 2 **C** Overlapping area **D** Working height (DIN norm) **E** Sensitive area



OBLIQUE TEDDING ALONG FIELD EDGES

For clean, careful tedding next to fences or neighboring fields, select tedders are equipped with an oblique control system. The 1002 Series mounted rotary tedders are very easy to use—the operator pulls a rope, backs up and the tedder is ready to work in oblique mode.

Optional on mounted rotary tedders and standard on trailed rotary tedders up to 35'5", the oblique setting is controlled hydraulically for absolute comfort. A double-acting cylinder with pilot-operated valves ensures safe functioning without risk of unwanted movement. On slopes, the oblique setting is particularly beneficial for controlling the direction of crop spread and obtaining an optimal spread pattern.

Refer to the specifications on pages 22 and 23 to find out more information about the options available.



QUICK ADJUSTMENT OF TINE ANGLE

Whether in long or short, wet or dry crop, or different cutting heights, the pitch angle is adjusted without tools near the wheel supports. Always remember: a steep pitch angle will decrease drying time and increase the nutritional value of the forage.



SUPERBALLON TIRES

The rotors ride on superballon, well-proportioned tires that run close to the tines. They provide excellent tine height control and flotation which minimizes soil-to-tine contact resulting in cleaner, higher quality forage.

To Make Your Rotary Tedder Even More Efficient



CROP DEFLECTORS PREVENT WRAPPING ON WHEEL COLUMNS

Operating in short, sticky crops or long, late season crops can be a challenge when the crop wraps in the wheel column resulting in frustrating downtime spent clearing the mess. KUHN tedders, models GF 6502 and up, are fitted with crop deflectors as standard. They can also be optionally installed on the smaller models.



ALL-TERRAIN ADAPTABILITY

An additional optional wheel fitted underneath the hitch frame or the drawbar, and positioned close to the tines enables improved tedding on rolling terrain.

- The top link or drawbar is adjusted to float position
- When changing tractors, the tine height adjustment in relation to the ground remains the same
- The additional wheel can also be used as a spare wheel



FOR OPERATIONS THAT REQUIRE NIGHT WINDROWS

In conditions where morning dew can be heavy, many operators prefer to re-windrow crop in the morning, allowing the ground to dry quicker, then re-ted. The optional duplex reduction gearbox is used to reduce the rotor rotation speed by 45%. Night windrows can then be produced quickly and easily. On the GF 13012 Gil and 17012 Gil, the PTO speed is reduced from 1000 to 540 rpm to obtain the same night windrowing function.

ECONOMICAL AND HIGHLY EFFICIENT

Cost control is crucial to anyone running a business. KUHN provides you with tedders that have all the features required for high quality tedding while also being easy to operate. You can be assured however that no shortcuts have been made in reliability or longevity.

Made of
case-hardened
forged steel!

GF 222 T



GF 502



GF 502 THA



GF 5202 THA



HIGH PERFORMANCE AND QUICK TRANSPORT ALL IN ONE

At work, the rotors closely follow the tractor, thanks to the pivoting headstock. After the work is done, activation of the hydraulic valve and the tractor lift arms will raise the rotors automatically centering and locking them.

GF 502 only



INDIVIDUAL OBLIQUE POSITIONING

Each wheel can be easily adjusted without tools for accurate tedding along field edges, without losing or wasting precious forage.

GF 502 only



SIMPLE DRAWBAR ATTACHMENT

The drawbar-style hitch of the GF 222 T, 502 THA and 5202 THA allows for simple and easy attachment compared to mounted and semi-mounted models.

Excludes GF 502 models



AUTO TINE HEIGHT CONTROL

When folding into the transport position, the tines automatically raise off of the ground for more clearance with the road. When unfolding into the working position, the tines will reset to the working height the operator had previously set.

GF 502 THA and GF 5202 THA only



A DESIGN THAT MAKES THE DIFFERENCE

Tedding is an operation that requires low PTO horsepower capacity. These mounted tedders are designed for use with small to medium tractors, so you can keep fuel costs low. The comfortable transport, ease of use and long life of these machines are just a few of the additional benefits.

These models are available in widths from 21'4" to 25'7". Two models are equipped with small-diameter rotors and one model (GF 7802) is more suitable for tedding long-stem crops.



NARROW TRANSPORT WIDTH

Barely wider than the tractor, driving comfort is unmatched and access to the narrowest fields is no problem.



NO FORAGE LOSS

Thanks to the centralized mechanical or optional hydraulic oblique position setting, crop can be kept in the field yet spread out evenly for consistent drydown.



A TRIED AND TRUE HEADSTOCK

Resulting from years of proven history, this headstock is particularly suitable for this size of machine:

- Strong construction
- Effective recentering on slopes
- Reduced overhang



LOWER FUEL CONSUMPTION

Small tractors with lower fuel consumption are perfectly suitable, even when working on rough and rolling terrain.



HIGH-QUALITY TEDDING

With working widths of 28'6" or 35'5" and up to 10 small-diameter rotors, these mounted rotary tedders combine ideal characteristics for high-quality work. The small rotors are the secret to rapid drying, excellent ground following and a low incorporation of impurities in the crop, helping maintain maximum forage quality.

These machines also feature KUHN's Headland Lift Control system. This makes the tedders easy to lift and maneuver on headlands while limiting the introduction of foreign materials like dust into the forage.



UNIQUE FOLDING DESIGN SAVES YOU TIME AND ENERGY



In spite of its considerable working width, the small-diameter rotors limit rear overhang so that it can be used with lower power tractors. The unique folding design allows for exceptionally low transport height and convenient operation from the tractor seat.



LOW MAINTENANCE

Exclusive DigiDrive® couplers provide low maintenance and long life.

EXCLUSIVE

A UNIQUE SUSPENSION SYSTEM

TRUE COMBINED SHOCK ABSORBER AND SUSPENSION

With the GF 8712 and 10812, you will benefit from an exclusive and patented suspension system, which combines the advantages of powerful springs with those of hydraulic suspension.

- The **hydraulic suspension** stabilizes the machine when maneuvering on headlands, no matter the field conditions. The tedder automatically and smoothly returns to the center, when it is lifted, due to the two large shock absorbers.
- **Integrated springs** enhance the machine's flexibility at the same time, always keeping it in the best working position.
- The **integrated rubber mounts** absorb shocks on rough roads, while the absorbers control the machine movements.

The whole system provides exceptional suspension and driving comfort. Even when braking suddenly in turns, the rotors remain stable and carefully aligned behind the tractor. You will appreciate this with ever increasing tractor speeds in transport.





ROTARY TEDDERS GF 7802 THA / 7802 T GII / 7902 T GII

PRODUCE HIGH-QUALITY HAY WITH LONG AND DENSE CROPS

Decrease drying time and increase productivity to produce the highest quality hay thanks to the rotors that provide gentle forage tedding in the heaviest of crops. Operators can choose between the large-diameter rotor with seven tine arms or small-diameter rotor with five tine arms, depending on the windrow or swath width to get an even and consistent spread pattern behind any of these tedder models.



TRANSPORT WHEELS IN FRONT OF THE ROTORS

By locating the transport undercarriage in front of the rotors, only part of the weight is sustained by these central wheels, the rest is absorbed by the drawbar and the tractor.

GF 7802 T GII / 7902 T GII only



STANDARD HYDRAULIC OBLIQUE TEDDING

On GF T GII models, tedding field edges or slopes is managed as efficiently as possible—simply activate a control valve and the machine is ready to work in oblique mode to the left or right.

GF 7802 T GII / 7902 T GII only



LARGE ROTOR TIRES

The spindles and tires on the central rotors are stronger and larger in diameter to accommodate for transport from field to field.

GF 7802 THA only



STANDARD DRAWBAR HITCH

The GF 7802 THA, 7802 T GII and 7902 T GII models all come standard with a drawbar hitch for simple and easy attachment.

ATTENTION TO DETAIL

Details are of the utmost importance when trying to produce high-quality forage in a timely manner. These tedders have a unique and simple transport design that allows you to quickly transition from work to transport and back again from the comfort of the cab. This allows fast and efficient travel between fields so you can get right back to work.



NARROW TRANSPORT AND EXCELLENT STABILITY

The incredibly narrow transport width of 9'10" and the transport undercarriage of the GF 1012 Series tedders combine for easy maneuverability and stable road transport.



A UNIQUE FOLDING SYSTEM

Lowering the transport wheels is combined with the rotors tilting forward. While in transport position, height is reduced, load distribution on the tractor is optimal and road transport at high speeds is ideal.



HEADLAND LIFT CONTROL

These tedders are easy to lift and maneuver on headlands. The introduction of dust in the forage is limited. This is beneficial because the headlands do not need to be tedded twice.



QUICK TEDDING HEIGHT ADJUSTMENT

The tedding height and angle of the tines above the ground is easy to adjust from a single point. The operator can change the height and angle as required to match the field conditions.



STRAIGHT AND NEAT EDGES

These extra wide rotary tedders function well in large fields and also have the ability to perform flawlessly along field borders. An optional hydraulically controlled curtain deflector limits the discharge on the right side to prevent spreading outside of the field.

ROTARY TEDDERS GF 13012 / 17012

LESS DRYING TIME AND HIGHER OUTPUTS

These two models combine exceptional hay harvesting while minimizing drying time. Utilizing these tedders enables fast, even drying of the entire field and makes the best of weather windows when the crop is at the optimal stage—the ideal insurance to produce high-quality forage!



HEADLAND LIFT CONTROL

Incorporated in the new GF 1012 Series tedders is the Headland Lift Control system. The independent headland lift position allows operators to quickly lift all rotors up when turning on a headland.



KUHN PATENT AN INTELLIGENT DESIGN

The two outer sections of the tedder are held in place by straps. They are used to reduce stress on the main frame and rotor structures. This allows fastening to the rotor ends, keeping the two sections stable without any oscillation. The straps also double as safety guards, replacing the traditional metal guards. When folding for transport, the two straps automatically wind up like a seat belt.

ALL-TERRAIN ADAPTABILITY!



INNOVATIVE GROUND FOLLOWING

The 16 rotors of the GF 17012 follow changes in terrain as well as (2), eight-rotor or (4), four-rotor tedders

- Both models come standard with the exclusive GSC (Ground Save Control) system which allows the rotor gear train to swing independently of the carrying frame.
- Chassis weight is held by the large transport wheels during work.
- The small-diameter rotors adapt individually to the ground contours and carrying frame, ensuring efficient and fast forage turnover.
- The wheels, located as close as possible to the tines, limit impurities and ensure long life of the tines.



INTELLIGENT FOLDING DESIGN

Unfolding or folding operations are quick and easy.

Time lost when changing fields is reduced to a minimum to achieve maximum daily output.

MAKE EVERY ROAD A HIGHWAY

With a dedicated transport axle, rough roads or long distances are no longer a problem:

- Rotors are not subject to transport shock—maximized longevity
- Excellent weight distribution
- Safe, stable transport, even at high speeds

Model Specifications

	GF 222 T	GF 502	GF 502 THA	GF 5202 THA	GF 6502	GF 7802	GF 7902	GF 8712	GF 10812	GF 7802 THA	GF 7802 T GII	GF 7902 T GII	GF 8712 T	GF 10812 T	GF 13012	GF 17012
Working Width DIN	8'6" (2.6 m)	16'5" (5.0 m)	16'5" (5.0 m)	17'1" (5.2 m)	21'4" (6.5 m)	25'7" (7.8 m)	25'7" (7.8 m)	28'6" (8.7 m)	35'5" (10.8 m)	25'7" (7.8 m)	25'7" (7.8 m)	25'7" (7.8 m)	28'6" (8.7 m)	35'5" (10.8 m)	42'8" (13 m)	56'5" (17.2 m)
Number of Rotors	2	4	4	4	6	6	8	8	10	6	6	8	8	10	12	16
Tine Arms Per Rotor	6	6	6	7	6	7	5	6	6	7	7	5	6	6	6	6
Attachment	Drawbar	3-Point Mounted Cat. 1 and 2	Drawbar	Drawbar	3-Point Mounted Cat. 2	3-Point Mounted Cat. 2	3-Point Mounted Cat. 2	3-Point Mounted Cat. 2	3-Point Mounted Cat. 2	Drawbar	Drawbar	Drawbar	Drawbar	Drawbar	Drawbar	Drawbar
PTO Speed (RPM)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	1000	1000
Border Tedding System	–	Standard Manual Wheel Adjustment	–	–	Single Point Mechanical Adjust. w/ Hyd. Option	Single Point Mechanical Adjust. w/ Hyd. Option	Single Point Mechanical Adjust. w/ Hyd. Option	Optional, Hydraulic Oblique Border Tedding	Optional, Hydraulic Oblique Border Tedding	–	Standard, Hydraulic Oblique Border Tedding	Border Curtain (Optional)	Border Curtain (Optional)			
Wheels Under Central Rotors	15 X 6.00–6	15 X 6.00–6	15 X 6.00–6	18 X 8.50–8	16 X 6.50–8	16 X 6.50–8	16 X 9.50–8	18 X 8.50–8	18 X 8.50–8	215/65–8	16 X 6.50–8	Super Balloon 16 X 9.50–8	18 X 8.50–8	18 X 8.50–8	16 X 6.50–8	16 X 6.50–8
Wheels Under Outer Rotors	–	15 X 6.00–6	15 X 6.00–6	16 X 6.50–8	16 X 6.50–8	16 X 6.50–8	16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8	Super Balloon 16 X 6.50–8
Transport Wheels	–	–	–	–	–	–	–	–	–	–	195/65–15	10/80–12	10/80–12	10/80–12	10.5/75–15.3	340/55–16
Spare Wheels	–	–	–	–	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard
Wheel Deflectors	–	–	–	–	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Tine Deflector	Optional	Optional	Optional	Optional	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Road Lights and Signaling	–	Optional	Optional	Optional	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Transport Width	8'6" (2.6 m)	9'4" (2.9 m)	9'4" (2.9 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	9'10" (3.0 m)	7'10" (2.4 m)
Transport Height	–	8'8" (2.7 m)	8'8" (2.7 m)	9'2" (2.8 m)	10'9" (3.3 m)	11' (3.4 m)	9'8" (2.9 m)	10'5" (3.2 m)	12' (3.6 m)	10' (3 m)	11'4" (3.4 m)	10'2" (3.1 m)	10'2" (3.1 m)	10'10" (3.3 m)	8'6" (2.6 m)	8'6" (2.6 m)
Weight	496 lbs (225 kg)	1,150 lbs (522 kg)	1,005 lbs (456 kg)	1,170 lbs (530 kg)	2,028 lbs (920 kg)	2,392 lbs (1,085 kg)	2,535 lbs (1,150 kg)	3,042 lbs (1,380 kg)	3,527 lbs (1,620 kg)	1,874 lbs (850 kg)	3,075 lbs (1,395 kg)	3,340 lbs (1,515 kg)	3,910 lbs (1,760 kg)	4,395 lbs (1,920 kg)	5,842 lbs (2,650 kg)	6,922 lbs (3,140 kg)
Tractor Hydraulic Equipment	–	1 SA	1 SA	1 DA	1 SA	1 DA	1 DA	1 DA	1 DA	1 DA	2 DA	2 DA	2 DA	2 DA	1 DA w/ Float	1 DA w/ Float
Tractor Power Requirement	20 hp (15 kW)	20 hp (15 kW)	20 hp (15 kW)	20 hp (15 kW)	60 hp (45 kW)	75 hp (56 kW)	75 hp (56 kW)	50 hp (36 kW)	55 hp (40 kW)	35 hp (26 kW)	45 hp (34 kW)	45 hp (34 kW)	50 hp (36 kW)	55 hp (40 kW)	80 hp (59 kW)	100 hp (73 kW)



COMPLEMENTARY PRODUCTS

MORE PRODUCTS TO MEET YOUR NEEDS

With over 700 models of equipment, we have the most complete implement line in the industry. Whether you have a small or large operation, we have a broad range of models and options to help fit your diverse needs.



1. Mowers
2. Mower Conditioners
3. Wheel Rakes
4. Rotary Rakes
5. Round Balers
6. TMR Mixers

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