

HAY TOOLS

Farm King

Bale Carriers | Mowers | Rakes | Tedders



PRODUCT OVERVIEW

- › The quick and safe way to move round bales
- › 4 x 6 or 5 x 6 bales
- › 60 hp required, 1450
80 hp required, 2400
100 hp required, 2450

FEATURES

- › Rotating pickup arm
- › Simple hand-held controls
- › Bale deflector



ROUND BALE CARRIER

Models 1450, 2400 and 2450



Deck

The heavy duty undercarriage and tandem walking beam axles ensure reliable transport to the unloading area. To unload, the operator tilts the carrier deck using the tractor control. Once the rear of the deck is on the ground, the pusher, controlled with the hand-held remote, unloads the bales in tight end-to-end rows.

Pickup Arms

Gentle yet rugged pickup arms place bales on the deck where a pusher, powered by two hydraulic motors, slides the bales back on graphite coated carrier beams (models 1450, 2450). This means efficient bale handling, less stress and more bales moved each day.

Pusher

After bales are lifted onto the deck, a pusher moves the bales rearward. The pusher has two settings that are selected on the hand held remote. The operator can choose the most efficient speed and torque for varying conditions: 'high' for dry hay and straw; 'low' provides additional torque for wet or high moisture silage bales, and the pusher moves with less speed.



The Farm King 1450 round bale carrier can carry seven 5' x 6' bales weighing up to 900 kg (2,000 lb) each in a single row. The double wide Farm King 2450 has twice the capacity. Ideal for hilly terrain the shorter, more maneuverable 2400 can carry ten 4' x 6' round bales. Heavy-duty construction means the bale carriers are robust, yet designed to load and unload bales quickly and without damage. Lower bale handling costs and simple maintenance help improve the profitability of your hay.

[1] Graphite coated beams available on models 1450 and 2450 **[2]** Pickup arms
[3] Pusher **[4]** Hand-held remote **[5]** Transport lights



Model 1450

A single-row carrier can accommodate seven 5' x 6' bales, or eight 4' x 6'. Equipped with a single-sided pickup arm.



Model 2400

The double wide, short model is ideal for picking bales in hilly terrain, with a capacity of up to ten 4' x 6' or eight 5' x 6' bales.



Model 2450

With a capacity of up to sixteen 4' bales, fourteen 5' bales, the 2450 minimizes the number of trips out to the field.





Standard Arm

The 1450S, 2400S and the 2450S feature standard pickup arms. A bale deflector is built into the outer fork which means bales can be picked up from either the 'end-on' or 'side-on' position. This allows the operator to approach the bale from any angle.

Model 2400 features a right-hand side pickup arm while model 2450 is equipped with both left-hand and right-hand side pickup arms for even more maneuverability and convenience. Model 2400 features an optional bale stop indicator for use with more narrow bales (4').



Rotating Pickup Arm

The 1450R and 2450R are equipped with rotating pickup (RPU) arms with forks that hydraulically squeeze, rotate and lift bales onto the deck for 'side-on' picking. This allows the operator to follow the travel of the baler.



SPECIFICATIONS

MODEL >>	1450	2400	2450
Capacity	GVW: 18,720 lb (8,491 kg) Eight - 4' (1.2 m) wide bales Seven - 5' (1.5 m) wide bales	GVW: 18,720 lb (8,491 kg) Ten - 4' (1.2 m) wide bales Eight - 5' (1.5 m) wide bales	GVW: 37,440 lb (16,983 kg) Sixteen - 4' (1.2 m) wide bales Fourteen - 5' (1.5 m) wide bales
Tractor requirements	60 hp (45 kW) at 12,480 lb (5,660 kg) Maximum recommended speed when loaded is 20 mph (32 km/hr)	80 hp (60 kW) at 12,480 lb (5,660 kg) Maximum recommended speed when loaded is 20 mph (32 km/hr)	100 hp (60 kW) at 25,000 lb (11,340 kg) Maximum recommended speed when loaded is 20 mph (32 km/hr)
Hand held remote control	Power: 12v, Fuse: 15 amp	Power: 12v, Fuse: 15 amp	Power: 12v, Fuse: 15 amp
Hydraulics	Two double acting circuits required	Two double acting circuits required	Two double acting circuits required
Hydraulics, lift cylinder	One - 3" diameter	One - 4" diameter	Two - 3" diameter
Hydraulics, tilt cylinder	One - 3" diameter	One - 3" diameter	Two - 3" diameter
Hydraulics, motor	Two - 22.0 cu. in	Two - 22.0 cu. in	Four - 22.0 cu. in
Tires	(Four) 12.5L x 15FI tires, load range F, intermittent unloaded highway use	(Four) 12.5L x 15FI tires, load range F, intermittent unloaded highway use	(Eight) 12.5L x 15FI tires, load range F, intermittent unloaded highway use
Tires, capacity	4,680 lb (2,130 kg) at 90 PSI inflation	4,680 lb (2,130 kg) at 90 PSI inflation	4,680 lb (2,130 kg) at 90 PSI inflation
Tires, hub	6 bolt with twine guard	6 bolt with twine guard	6 bolt with twine guard
Tires, wheel	Heavy-duty implement style	Heavy-duty implement style	Heavy-duty implement style
Deck length	37' (11.3 m)	26' (7.9 m)	37' (11.3 m)
Overall length	44' (13.4 m)	34' (10.4 m)	45' (13.7 m)
Transportation width	8.5' (2.6 m)	12' 7" (3.8 m)	12.75' (3.9 m)
Hitch weight	Empty vertical drawbar load 1,365 lbf (6,071N)	Empty vertical drawbar load 1750 lbf (7,789N)	Empty vertical drawbar load 2,395 lbf (10,653N)
Shipping weight (approx.)	5,495 lb (2,498 kg)	6,600 lb (2,995 kg)	9,587 lb (4,348 kg)

PRODUCT OVERVIEW

- › Stacks bales in uniform tight rows
- › Simple operation
- › 100 hp required

FEATURES

- › In cab control for complete manual and automatic operation
- › Hand held remote control
- › Graphite coated beams



SQUARE BALE CARRIER Model 4480



Bale Pusher

After bales are lifted onto the deck, a pusher powered by two hydraulic motors moves the bales rearward. If the pusher senses resistance from a heavier-than average bale during regular operation, it automatically shifts to 'low' for five seconds to provide more power to push the bale. If the bale will not move, a sensor sends a message to the monitor to alert the operator. The sensor on the pusher motor counts revolutions to efficiently measure the pushback distance.

Reduce Stress

The beams on the carrier deck have been covered with a special graphite coating that allows the bales to slide with minimal effort.

Carrier Arm

The reinforced carrier arm enhances the structural integrity of the machine. Hydraulic hoses and electronic sensors have been positioned to avoid being pinched or damaged by moving parts.

Hydraulics

The bale carrier automatically adjusts its hydraulic configuration to correspond with the hydraulic system on the tractor, as selected by the operator. The bale carrier is compatible with open-center, closed-center, or load-sensing closed-center hydraulic systems.



With years of on-farm testing and refinements the Farm King 4480 Square Bale Carrier offers simplified operation and an intuitive display. The Farm King 4480 Square Bale Carrier picks, hauls and stacks eight 48" x 48" bales or can double row twenty 32" x 34" x 96" bales, and features a host of new innovations and technology designed to increase efficiency and minimize bale damage. The Farm King 4480 Square Bale Carrier is designed to follow the same path as the baler.

[1] Two hydraulic motors power the bale pusher **[2]** Rear unloading forks **[3]** Reinforced carrier arm **[4]** Pusher chain **[5]** Hydraulics



Chain

The chain that powers the pusher is recessed beneath the beams so the weight of the bale is never resting fully on the chain, minimizing bale stress and limiting the chance of string breakage.

Structure

The Farm King 4480 square bale mover features a heavy-duty undercarriage to support heavy loads under stress.

The tandem walking beam axles reinforce the overall stability and structural integrity.

Unloading

Unloading is quick and easy thanks to the innovative design of the carrier. The rear deck tilts backward, resting the back half of the load on the ground. Move the carrier forward and return the tilt deck to the neutral position. Push the remaining bales to the back of the carrier and repeat the process.

Stacking

The bales are stacked in tight rows. The strings are not touching the ground, which prevents prolonged exposure to surface moisture. As settling occurs, the bales rest together in a structurally sound stack.



A hand-held control and a system monitor are responsible for programming and operating the Farm King 4480 Square Bale Carrier. The hand-held control activates the pickup arm and initializes the pickup sequence and operates the pusher and tilt deck.

System Monitor

Shipped from the factory with default settings and preset bale sizes, the bale carrier is ready for operation once the operator indicates the type of hydraulics the operating tractor is using: open center, closed center or closed center with load sensing. The carrier adjusts its hydraulic operation to match that of the tractor.

Designed to be intuitive and straightforward, the main menu offers four options, selected by buttons located next to the screen; auto mode, calibrate, diagnostic, and manuals.



Auto

The operator simply chooses from one of the preset bale sizes listed on the monitor and indicates preference of single- or double-row stacking.

Calibrate

Every operator has a different set of requirements and the 4480 Square Bale Carrier has several customization options. On the monitor, the operator can set grab arm approach height, squeeze pressure and lift height. A pressure status bar on the monitor allows for quick fine-tuning and customization, and six memory slots are available for various bale sizes.

Diagnostic

The carrier features a diagnostic mode that provides the status of seven sensors strategically placed throughout the machine. When the machine is in its neutral, or “Home” position, a quick check of all seven sensors will indicate that the machine is ready to use, or specify which area of the carrier needs attention.

Manual

This mode allows the operator to manually operate each function of the bale carrier, which is useful for picking up a bale that is heavier than the others, or is a different size.

Hand-Held Control

The hand-held control connects to the in-cab harness, which is compatible with the standard 3-tab accessory port on most tractors. The wiring harness is designed to make connections to the power supply and components virtually fool-proof. To initiate the sequence, press the “Start” button when the bale is within the grab arm of the carrier. The grab arm squeezes the sides of the bale then gently lifts the bale off the ground. When the arm reaches a preset height, it rotates 90 degrees and sets the bale on the carrier deck. The arm then returns to the neutral or “Home” position.



SPECIFICATIONS

MODEL >>

4480

Capacity	GVW 37,440 lb (16,983 kg), payload 28,000 lb (12,700 kg) 48" x 48" (122 x 122 cm) bales: 8, single row on carrier, stacked 4 high unloaded 32" x 35" (81 x 90 cm) bales: 20, double row on carrier, stacked 5 high unloaded 36" x 48" (91 x 122 cm) bales: 16, double row on carrier, stacked 4 high unloaded
Tractor requirements	100 hp (75 kW) at 25,000 lb (11,340 kg) Maximum recommended transport speed when loaded is 20 mph (32 km/hr)
Control	In cab control for complete manual and automatic operation. Includes hand-held control for convenient operation
Hand held remote control	12VDC, 15 amp circuit
Hydraulics	Tractor: one double acting remote valve required Lift: one, 4" DIA x 18" stroke cylinder Squeeze: one, 3" DIA x 16" stroke cylinder Rotate: one, 3" DIA x 16" stroke cylinder Tilt: two, 3.5" DIA x 36" stroke cylinder Pusher: two, 22.2 cu. in hydraulic motors
Tires	8, 12.5L x 15FI tires, load range F, intermittent unloaded highway
Tires, capacity	4,680 lb (2,130 kg) at 90 PSI inflation
Tires, hub	6 bolt with twine guard
Tires, wheel	Heavy-duty implement style
Deck length	34' (10.4 m)
Overall length	42.66' (13 m)
Transportation width	10.16' (3.1 m)
Shipping weight	9,485 lb (4,302 kg)

PRODUCT OVERVIEW

- › 7', 8' and 9' mowers
- › Category I-II
- › 40 to 50 hp required

FEATURES

- › Free-swinging blade
- › 3 inch (76 mm) blade overlap
- › Dual suspension springs



DISC MOWER

Models MDN5, MDN6, MDN7



Free-swinging Blade

The MDN 5, 6 and 7 come standard with 15-inch discs and 4-inch long blades. The free-swinging blades create a precise cut when reaching rotation speeds of 3000 rpm. The centrifugal force creates a vacuuming effect on the blades of grass and allow for a nicely manicured look. A 3-inch blade overlap ensures a clean cut every time.

Suspension Springs

Dual suspension springs on either side of the cutter bar create a smooth motion as the mower glides over the terrain.

Hydraulics

A single acting cylinder allows the operator to control the mower's position from the seat of the tractor.

Transportation

Transportation is effortless with the help of a single acting hydraulic cylinder that maneuvers the mower precisely in a matter of seconds. While in transport mode, the automatic locking mechanism provides peace of mind while en route to the field. Simply pull on the rope located near the 3-pt hitch assembly and the locking mechanism is deactivated to lower the mower into position.



Farm King is proud to introduce three new disc mower sizes to the cutting team. The MDN 5, 6 and 7 are constructed using only the highest-grade steel and gear components. Cutting discs and blades are easily accessible by removing six bolts and the sturdy cover to reveal the inner workings of each disc assembly. Tractors ranging in horsepower from 40 to 50 can operate the 3 exclusive mower sizes with ease. Two cone discs are located on each end of the disc assembly to assist in swath formation and shaping.

[1] Free-swinging blades **[2]** Suspension springs **[4]** Open and close using hydraulics



SICKLE BAR MOWER

Models 7M, 7H, 9H

Available in three sizes the Farm King sickle bar mower was designed for simple operation and effective cutting. A dual-action cutter bar ensures a fast, clean and even cut every time. The tilting mower bar allows you to cut on ditches, embankments, and hills.

SPECIFICATIONS - DISC MOWER

MODEL >>	MDN5	MDN6	MDN7
Working width	7' (2.10 m)	8' 1" (2.45 m)	9' 4" (2.85 m)
Number of discs	5	6	7
Number of blades	10	12	14
Blade rotation speed	3000 RPM at 540 G'	3000 RPM at 540 G'	3000 RPM at 540 G'
Vertical lift	Hydraulic	Hydraulic	Hydraulic
Horizontal lift		1 single acting cylinder	
3-point hitch	Cat. I / II	Cat. I / II	Cat. I / II
Tractor requirements	40 hp	45 hp	50 hp
Weight	992 lb (450 kg)	1,058 lb (480 kg)	1,124 lb (510 kg)

SPECIFICATIONS - SICKLE BAR MOWER

MODEL >>	7M	7H	9H
Working width	7' (213 cm)	7' (213 cm)	9' (274 cm)
3-point hitch	Cat. I / II	Cat. I / II	Cat. I / II
Tractor requirements	40 hp	45 hp	50 hp
Weight	441 lb (200 kg)	439 lb (199 kg)	450 lb (204 kg)



PRODUCT OVERVIEW

- › 10, 12 and 14 wheel rakes
- › Tool-free windrow adjustment
- › 4 hp and greater required

FEATURES

- › 8' transport width
- › Independent rake wheel suspension

OPTIONS

- › Hydraulic center kicker wheel



EASY RAKE Models E10, E12, E14



Hydraulics

All three models of Easy Rake can be conveniently opened and closed using hydraulics. These hydraulic systems allow each model to be compacted to a maximum transportation width of 8 feet.

Transportation

The Farm King Easy Rake has a maximum transportation width of 8' to help get you from field to field safely.

Air filled highway service tires allow the Easy Rake to tow smoothly and get you into the field faster. Transport locks ensure that your rake stays closed until you are ready to use it.

Center Wheel Rake

All models have an optional center mounted hydraulically operated wheel rake for added separation of the middle windrow.

Wheels

Easy Rake models E10 and E12 come standard with 4 stabilization wheels and the E14 model comes equipped with 6 wheels. These 205/70 R15 highway rated air filled tires aid in seamless transportation as well as superior traction in field applications. Wheels located on the rake wings are constructed using yoke design to ensure 360 degrees of maneuverability.



Raking your windrows with the Farm King Easy Rake eliminates numerous field passes and provides uniform rows. The Farm King Easy Rake comes available with 10, 12 and 14 wheel tine configurations and working widths of 21, 24 and 27 respectively. Each rake wheel comes with a fully independent suspension spring and bounce adjustment chain. The adjustable chain prevents the rake wheels from gouging uneven field terrain but allow the wheels to stay closely conformed to the field surface.



[1] Maximum transport width of 8' **[2]** Optional center mounted hydraulically operated wheel rake **[4]** Open and close using hydraulics **[5]** Four to six stabilization wheels.

SPECIFICATIONS				
	MODEL >>	E10	E12	E14
	Working width	20' 7" (630 cm)	24' 3" (740 cm)	27' 2" (830 cm)
	Transport width	8' (244 cm)	8' (244 cm)	8' (244 cm)
	Transport length	28' 9" (880 cm)	30' 8" (940 cm)	33' 8" (1030 cm)
	No. of wheels	4	4	6
	Weight	2,866 lb (1300 kg)	3,042 lb (1380 kg)	3,704 lb (1680 kg)

PRODUCT OVERVIEW

- › 18 and 20 wheel rakes
- › Rake up to 38'
- › 14 hp and greater required

FEATURES

- › Tool-free windrow adjustment
- › 8' transportation width

OPTIONS

- › Hydraulic center kicker wheel
- › Wind guards



EASY RAKE

Superstar Models S16, S18, S20



Transportation

Superstar Easy Rakes go from working at 38' to a convenient transport width of 8'. Air filled highway service tires allow you to get from field to field quickly and safely. Convenient Transport locks give you peace of mind on the road.

Hydraulics

All three Superstar models of easy rake can be conveniently opened and closed

using hydraulics. These hydraulic systems allow each model to be compacted to a maximum transportation width of 8 feet.

Finger Wheels

Models S16, S18 and S20 come with 16, 18 and 20 finger wheels respectively. Each wheel is individually spring loaded to prevent digging into the ground, yet continue to follow the contours of your field.

Wheels

Superstar models comes equipped with 8 wheels. These tires aid in seamless transportation as well as superior traction in field applications. Wheels located on the rake wings are constructed using yoke design to ensure 360 degrees of maneuverability.



The frame and independent finger wheels enable the machine to adapt to the most varied work conditions. Opening and closing is hydraulically controlled. Windrow width is adjusted with a bushing system. The material is gathered into a soft windrow without destroying the leaves, thus maintaining a high nutritional value. Tandem finger wheels with a diameter of 150 cm and 7.5 mm tines are standard on all models. The side frames on the 18- and 20-wheel versions are jointed to swivel and adapt to the terrain.



[1] Transport width of 8' **[2]** Open and close using hydraulics **[3]** Individually spring loaded wheels prevents digging into the ground **[4]** All models are equipped with eight wheels **[5]** Working widths from 32' to 38'.

SPECIFICATIONS				
MODEL >>	S16	S18	S20	
Working width	32' (970 cm)	35' (1060 cm)	38' (1150 cm)	
Transport width	6.56' (280 cm)	6.56' (280 cm)	6.56' (280 cm)	
Transport length	34' (1030 cm)	36.8' (1120 cm)	39.7' (1210 cm)	
No. of wheels	8	8	8	
Weight	4,960 lb (2250 kg)	5,269 lb (2390 kg)	5,600 lb (2540 kg)	

PRODUCT OVERVIEW

- › 8, 10 and 12 wheel carted rakes
- › High clearance frame
- › 20 to 30 hp required

FEATURES

- › Tool-free ground pressure adjustment
- › Work in a double or single wheel configuration

OPTIONS

- › Hydraulic center kicker wheel



BAT RAKE

Models 8, 10, 12



Patented Spring System

Independent rake wheel arms with a patented setting spring system. The system allows the operator to choose the best weight of the rake wheels to the ground.

Tool-free ground pressure adjustment allows you to easily switch from heavy matted hay to delicate crop.

Kicker Wheel

An optional hydraulically raised kicker wheel is available for all sizes.

High Clearance Frame

At 32" the Farm King Bat Rake has one of the industry's highest clearances. The frame allows you to rake quickly over fluffy windrows without bunching up or dragging hay.

Variable Wheel Configuration

Use the Bat Rake in a Double Wheel Configuration or Single Wheel Configuration along fence lines. When coming to the end of a windrow the rake can be partially raised without going into

the transport position, so you are always raking hay.

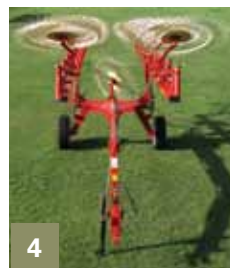
The single wheel configuration is useful for tight spaces or finishing windrows.

Transportation

The Farm King Bat Rake goes from a V-Rake configuration to a single rake configuration without leaving the seat. The rake also folds into a full transport mode, at nine feet two inches the Bat Rake is easy to take from field to field.



Farm King Bat Rakes are designed to handle any kind of hay crop in any condition. Engineered to maintain your crops nutritional value, yet aggressive enough to pick up matted crops. Available in 8, 10, and 12 wheel configurations there is a Farm King Bat Rake to suit your needs.



[1] Patented setting spring system allows the operator to choose the best weight of the rake wheels to the ground **[2]** Optional hydraulically raised kicker wheel **[3]** Frame clearance at 32" **[4]** Transport width of 9' 2" **[5]** Variable wheel configuration in double and single wheel.

SPECIFICATIONS

MODEL >>	8	10	12
Number of wheels	8	10	12
Working width, min	16' 5" (5.0 m)	18' 4" (5.6 m)	19' 8" (6.0 m)
Working width, max	18' 4" (5.6 m)	21' 8" (6.6 m)	24' 3" (7.4 m)
Transport width	9' 2" (2.8 m)	9' 2" (2.8 m)	9' 2" (2.8 m)
Transport length	17' 7" (5.35 m)	19' 2" (5.85 m)	21' 10" (6.65 m)
Transport height	8' 2" (2.5 m)	8' 2" (2.5 m)	8' 2" (2.5 m)
HP requirements	20 hp (15 kW)	20 hp (15 kW)	30 hp (22 kW)
Windrow width, min	3' 1" (0.95 m)	3' 1" (0.95 m)	3' 1" (0.95 m)
Windrow width, max	6' 11" (2.1 m)	6' 11" (2.1 m)	6' 11" (2.1 m)
Weight	1,433 lb (650 kg)	1,631 lb (740 kg)	1,874 lb (850 kg)

PRODUCT OVERVIEW

- › Available in four sizes
- › U-Joint connections
- › 20 to 30 hp required

FEATURES

- › 6-Arm rotors
- › 9' transport width

OPTIONS

- › Hydraulic fold



TEDDER

Models 10, 17, 19, 24



Transportation

Farm King Tedders are available as Hydraulic or Mechanical fold models. Our mechanical fold tedder can be converted to a hydraulic fold with a conversion kit. The 9' transport width allows you to move from field to field safely.

Unique Tine Design

The Unique tines on all Farm King Tedders ensure that all of your hay is picked up

and distributed evenly. The tines also allow the tedder to work at a steep operating angle, without leaving hay between the rotors.

U-Joints

Farm King Tedders utilize U-Joint connections between the rotors to ensure a constant revolution speed. The U-Joint won't skip or jump, which allows you to tedd your hay uniformly and dry it faster.

Making Profitable Hay

Tedding provides you with higher quality hay and allows you to get your crop off the field faster. Farm King Tedders reduce operating costs, by working at relatively low revolutions and high driving speeds. Operating at 8-10 mph gives you optimum fuel economy while tedding.



The wide range of mounted and pull type tedder projected for spreading, aerating and turning all types of forage allows a homogeneous and anticipated drying of the product obtaining a high quality forage. It is ideal for all types of ground even hilly ones. Our machines are characterized by robustness, easy management and long duration over time. The tedders are available with 2 and 6 rotors with mechanical and hydraulic versions.



2



3



4



5

[1] Works at relatively low revolutions and high driving speeds **[2]** Unique tine design ensures hay is picked up and distributed evenly **[3]** U-joints ensure a constant revolution speed **[4]** Working widths from 10' to 24' **[5]** Available in hydraulic and manual fold models.

SPECIFICATIONS

MODEL >>	10	17	19	24
Working width	10' (3.05 m)	17' (5.18 m)	19' (5.79 m)	24' (7.32 m)
Transport width	77" (196 cm)	102" (259 cm)	120" (305 cm)	106" (270 cm)
HP requirements	15 hp (11 kW)	20 hp (15 kW)	20 hp (15 kW)	30 hp (22 kW)
Working speed	9 mph (14 kph)	9 mph (14 kph)	9 mph (14 kph)	9 mph (14 kph)
Wheels	2	4	4	6
Rotors / arms per rotor	2 / 6	4 / 6	4 / 6	4 / 6
Tires	3.50 x 6	15.600 x 6	15.600 x 6	15.600 x 6
Weight	420 lb (190 kg)	975 lb (442 kg)	1,212 lb (550 kg)	1,640 lb (744 kg)

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