



7-BAR BASKET RAKES



Twinstar Basket Rakes are the premier rakes designed for commercial farming. These rugged built rakes are designed to rake two windrows together and for turning hay to speed up drying time prior to baling for high production hay farming, custom operators, dairies raking green chop and raking bio feed stocks. Twinstar Rakes produce consistent uniform windrows and the cleanest hay on the market. Twinstar Generation 2 & 3 Rakes are designed for precision raking, functionality and built to last. Twinstar 7-Bar Rakes are available in 27' & 30' approximate raking widths for windrowers with 12' to 18' headers. U.S. Patent No.10,448,573 on G3 Rakes.

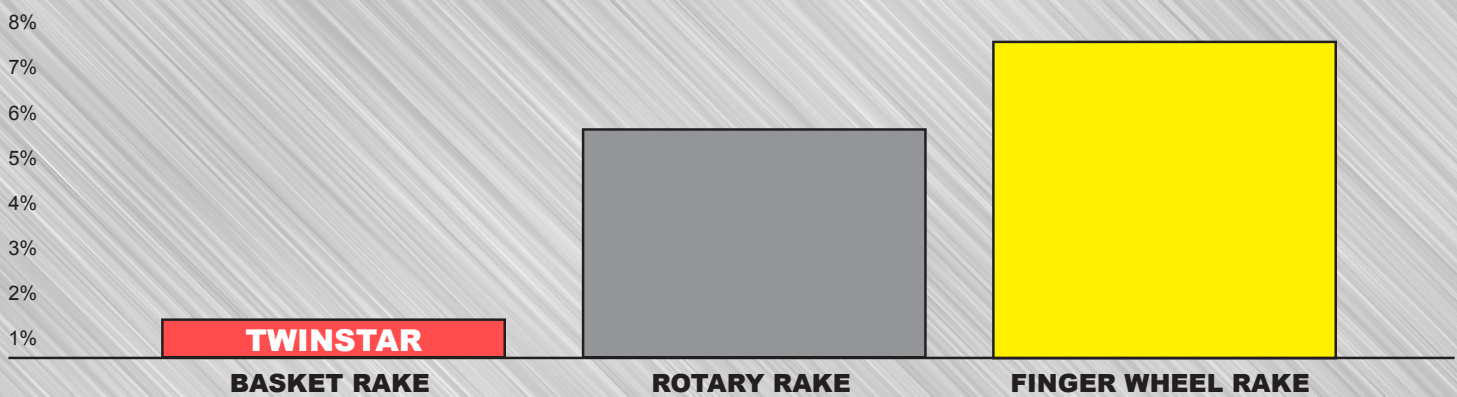
***Cleaner Hay Means Higher Returns
& More Nutrients in Hay & Silage!***

INNOVATIVE DESIGN ● PRECISION RAKING ● BUILT TO LAST



Cleaner Hay Means Higher Returns and More Nutrients in Hay and Silage!

FIELD TEST RESULTS SHOW PERCENTAGE OF CONTAMINANTS IN RAKED HAY



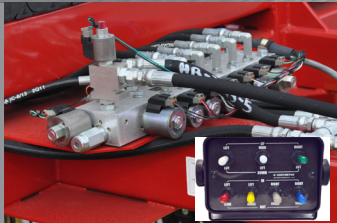
Field test conducted by corporate farm in 2004 measuring the percentage of contaminants in raked hay using the following comparable width hay rakes: 5-Bar Basket Rakes, Rotary Rake and Finger Wheel Rake. Results vary due to equipment settings and field & crop conditions.

Why you should own a **TWINSTAR** Basket Rake

- Research proves that Basket Rakes produce cleaner hay compared to Finger Wheel and Rotary Rakes. Cleaner hay brings higher returns and provides more nutrients in hay and silage.
- Twinstar Baskets are designed with Stripper Bars that help carry the hay which helps produce cleaner hay, instead of dragging hay along the ground common with Finger Wheel Rakes.
- Twinstar Basket Rakes are hydraulically driven which allows the operator to control basket RPM speed for specific field or crop conditions. Controlling basket speed allows the operator to have less leaf loss in alfalfa hay. Rotary Rakes operate at higher rotor speed which can cause significant leaf loss raking alfalfa slowing basket RPM speed is gentler on hay and allows the operator to rake longer in the day.
- Twinstar Basket heights are easily adjustable which helps produce cleaner hay compared to ground driven Finger Wheel Rakes.
- Twinstar Baskets are designed with a forward and backward tilt features. Tilting the basket forward helps make a tighter windrow to assist in windy field conditions. Tilting the Basket backwards helps to form a fluffier windrow to assist in speeding up drying time.
- Twinstar Rake Baskets equipped with optional Gauge Wheels front and back allows the rake to pick up more crop than Finger Wheel Rakes.
- Commercial operators tell us Twinstar Basket Rakes produce cleaner hay & forage which means significantly less maintenance on their balers.



**G3 7-FUNCTION ELECTRIC
HYDRAULIC VALVE
& CONTROL BOX**



**G2 6-FUNCTION ELECTRIC
HYDRAULIC VALVE
& CONTROL BOX**



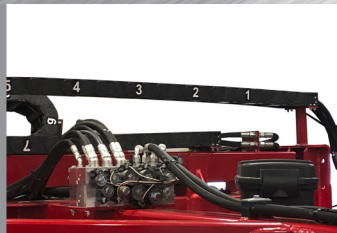
**G3 EQUIPPED w/ HEAVY-DUTY
HIGH TORQUE MOTORS**



SELF-ALIGNING IDLER HUBS



**DOUBLE EXTENSION TUBES
FOR ADDED STRENGTH**



**BASKET EXTENSION
SIGHT GAUGE**



**BASKET ANGLE
SIGHT GAUGE**



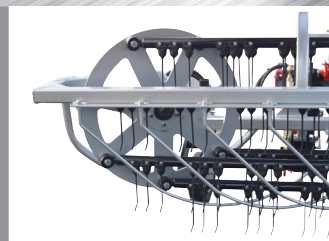
**HEAVY-DUTY BASKET PIVOT w/
UHMW SHIMS -SHEAR BOLT
PROTECTED**



**PARALLEL LINKAGE
TORSION BASKET SUSPENSION**



OPTIONAL WALKING BEAMS



OPTIONAL FULL TINES



**OPTIONAL GAUGE WHEELS w/
TORSION AXLE SUSPENSION**

INNOVATIVE FEATURES

U.S. Patent No. 10,448,573 on G3 Rakes

- Electric/Hydraulic Valve is a proprietary design only available on TwinStar Rakes. Valve includes an on/off switch making the TwinStar G3 Rake the most versatile rake on the market - G3 Model
- High Torque hydraulic motors allow TwinStar Basket Rakes to rake heavier crops than most Finger Wheel Rakes - G3 Model
- Split hoses with JIC fittings at end of slide tubes for serviceability - G3 Model
- Basket Angle Sight Gauge & Basket Extension Sight Gauge - G2 & G3 Models
- 7 Bar Baskets are designed to handle heavier crops - G2 & G3 Models
- 7 Bar Baskets make fluffier, more uniform windrows for faster drying time. 7 Tine Bar design allows for higher ground speeds up to 10 MPH- G2 & G3 Models
- 7 Bar Baskets equipped with 30" diameter drive & idler wheels 3/8" high strength steel - G2 & G3 Models
- 7 Bar Baskets allow the operator to rake longer in the day, accomplished by slowing basket RPM speed which minimizes leaf loss- G2 & G3 Models
- Hydraulic drive motors are mounted to a separate bearing housing and shaft assembly which in turn is mounted to the drive wheel and basket assembly for increased strength & reliability - G2 & G3 Models
- Basket rake assemblies are equipped with torsion axles which provide a superior suspension versus spring protection - G2 & G3 Models
- Idler end of the basket is equipped with a self-aligning idler hub. This unique feature ensures precision tine bar, bearing and hub alignment which provides years of trouble free service - G2 & G3 Models
- G2 Models - Equipped with 6-function electric-hydraulic valve with independent (or together) raising & lowering of baskets
- Hydraulic manifold designed to limit flow to hydraulic motors & valve, protecting the rake's hydraulic system and designed for optional 4-hose hydraulic kit for tractors with less than 12 GPM - G2 Model



SPECIFICATIONS

MODEL	2027G2-7	2027G3-7	2030G2-7	2030G3-7
SLIDE TUBES	Double Pair	Double Pair	Double Pair	Double Pair
MAXIMUM RAKING WIDTH	Up to 27'	Up to 27'	Up to 30'	Up to 30'
TRANSPORT WIDTH	10' - 9"	10' - 9"	10' - 9"	10' - 9"
OVERALL LENGTH	19' - 5"	20' - 2"	19' - 5"	20' - 2"
APPROXIMATE WEIGHT	5100 lbs.	5100 lbs.	5600 lbs.	5600 lbs.
TIRE SIZE	(4) LT235/75R15	(4) LT235/75R15	(4) LT235/75R15	(4) LT235/75R15
RUBBER MOUNTED TINES	Standard: 154 per basket Optional: 224 per basket	Standard: 154 per basket Optional: 224 per basket	Standard: 175 per basket Optional: 259 per basket	Standard: 175 per basket Optional: 259 per basket
BASKET REEL SPEED	Maximum 90 RPM	Maximum 90 RPM	Maximum 90 RPM	Maximum 90 RPM
TINE BAR BEARINGS	Precision Sealed ball bearings	Precision Sealed ball bearings	Precision Sealed ball bearings	Precision Sealed ball bearings
HYDRAULIC REQUIREMENT	12 GPM @ 2000 PSI Tractor with single hydraulic remotes	14 GPM @ 2000 PSI Tractor with single hydraulic remotes	12 GPM @ 2000 PSI Tractor with single hydraulic remotes	14 GPM @ 2000 PSI Tractor with single hydraulic remotes
OPERATING SPEED	Up to 10 MPH	Up to 10 MPH	Up to 10 MPH	Up to 10 MPH
ELECTRIC HYDRAULIC VALVE	6 Function	7 Function	6 Function	7 Function
GAUGE WHEELS	Optional Front and Rear	Optional Front and Rear	Optional Front and Rear	Optional Front and Rear
HITCH TYPE	Standard: Clevis Hitch Optional: Ball Hitch	Standard: Clevis Hitch Optional: Ball Hitch	Standard: Clevis Hitch Optional: Ball Hitch	Standard: Clevis Hitch Optional: Ball Hitch
HIGH TORQUE MOTOR	Optional	Standard	Optional	Standard
WALKING BEAMS	Optional	Optional	Optional	Optional
4 HOSE HYDRAULIC KIT	Optional	Not Available	Optional	Not Available