

# Art's Way

Since 1956

**MILLER PRO**



CAM ACTION tine arms gently lift the crop, carry it to the windrow and release it...saving more leaves and forming a faster drying, fluffier windrow. Gentle sweeping action allows for faster travel speed and higher raking capacity.

**Cam action  
rotary rakes**

**[www.artsway-mfg.com](http://www.artsway-mfg.com)**

*meeting your needs in the field*

# MILLER PRO

## Leading the rotary revolution

- Leaf-saving gentle handling
- Faster drying, fluffier windrows
- No crop roping or twisting
- Convenient hydraulic adjustment
- Rugged design with up to 60% more steel than imports

**Constant velocity PTO driveline**  
for smooth and quiet, tight turns



MODEL  
**900**



## Gentle cam action saves more leaves

Tines handle the crop only once, moving it to the swath in a sweeping motion. Gentle handling saves more leaves than rakes that move crop with repetitive contact.

## Hydraulic height adjustment

Enjoy the convenience and superior raking performance of being able to adjust raking height on the go, and setting transport position without leaving the tractor. Extra heavy hydraulic components assure long life.

## High strength construction

Built heavier than the imports, with up to 60% more steel. Rugged, totally engineered design assures long life.

## Adjustable swath curtain

Swath curtain is made from heavy duty belting, more durable than other designs, and bolted in place. Swath curtain adjusts in and out as well as up and down on all models, plus fore and aft on 1150, 1350 & 2250 models.

## Fully enclosed gearbox

Gears run in grease and cams in oil (1350 cams run in grease). Components are protected from damage by dirt and field chaff. Gearbox is protected by an overload clutch on PTO shaft.

## Faster drying windrows

Cam action tines gently deposit the crop into the swath, forming a higher, fluffier, faster drying windrow.



## Rotary raking at its best

MILLER PRO has pioneered U.S. built rotary raking performance with its gentle sweeping, cam action design. These rakes are packaged in a rugged frame with heavy duty construction. Cam action design keeps tines in contact with cut areas longer, picking up more of the crop. Convenient hydraulic adjustments provide fine tuning for top raking efficiency.

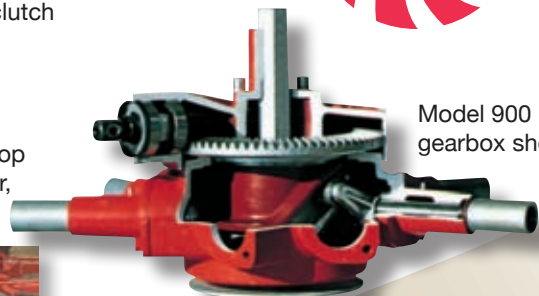
- Hydraulic height adjustment with single acting cylinder
- 9 cam action tine arms with 3 double, heat treated spring steel tines per arm
- Swath curtain adjusts out to 11' 10" working width, and can be positioned out of the way for merging windrows
- 540 RPM constant velocity overload clutch protects gearbox
- Fully enclosed cast gearbox



## Tandem axles, flotation tires, heat treated tines

Tandem axles (optional on model 900) with large flotation tires provide a smooth ride over rough field conditions. High strength tubular box steel tine arms (removable for storage) hold heat-treated, double-tooth spring steel tines. Models 1150 & 2250 use 2 side by side spiral pins on each tine arm to hold tine arms to the cam shafts.

*better*  
**Made in America**



Model 900  
gearbox shown

MODEL

1150



MODEL

1350



### A higher level of performance

MILLER PRO continues to lead the rotary rake revolution with a new generation of design. Additional features provide greater control and operating efficiency along with an even higher level of raking performance with an impressive 11' wide raking width and 14' wide working width.

### New generation gearbox

Cam adjust lever moves to multiple positions to fine tune the discharge point of the crop.



- Adjustable cam for fine tuning cam action
- Heat treated nodular iron cam (state-of-the-art material)
- Wide cam track and rollers
- Large diameter tine arm shafts (1045 heat treated material)
- Sealed oil bath housing
- Large greaseable ring gear and pinion (9.7 to 1 gear ratio)
- Massive center shaft
- Reinforced gearbox casting and mount

### Lights, markings, SMV sign

- Amber lights visible fore and aft. Red lights visible from rear.
- SMV sign standard
- Reflective decals indicate overall rake width for safer transport

### Convenient transport width

Overall transport width is 9' 10" for the 900, just 8' 3" for the 1350, and 11' 9" for the 1150 & 2250

### Wide Raking Abilities

MILLER PRO offers a large diameter single rotor rake to follow big mower conditioners through the field. With a impressive 12-1/2 foot rotor diameter and a raking width up to 15-1/2 feet this rake can easily handle large volumes of hay. Folds to a width of just 8' 3" for easy transport and convenient storage.

### Modular Design Gear Box

The 13 arm gear box is a sealed modular design that is built in sections. This strong design gives the 13 arm 12-1/2 foot rotor ample support to handle the rigors of high volume raking.



Cam adjust lever moves to multiple positions to fine tune the discharge point of the crop.

## MODELS 1150 & 1350



### Height adjustment

Dual front and rear cylinders lift the rake evenly for infinite fine tuning, or raise completely for additional clearance over windrows and waterways. Both cylinders have screw stops for ease of depth control. Full lift height provides 17" tine clearance. Screw style jack has convenient "out of the way" storage location.



### Lower frame & axle pivot

- Structural steel tubing frame for superior lower frame rigidity
- Clevis style axle mount hinge with large 1-1/4" greaseable pivot pins
- "Scissor-style" lift links use large 1-1/4" greaseable pivot pins on lower, center and upper pivots

- Adjustable cam for fine tuning cam action
- Heat treated nodular iron cam (state-of-the-art material)
- Wide cam track and rollers (grease lubricated)
- Ball bearing cam followers
- Large diameter tine arm shafts (1045 material)
- Large greaseable ring gear and pinion (9.7 to 1 gear ratio)
- Massive center shaft
- Folds to require a minimum of storage space.

Safety guards are spring loaded and easily folded. Removable tine arms are lemon shaped (PTO tubing) for a snug fit...and easily removed for placement in convenient storage holders.

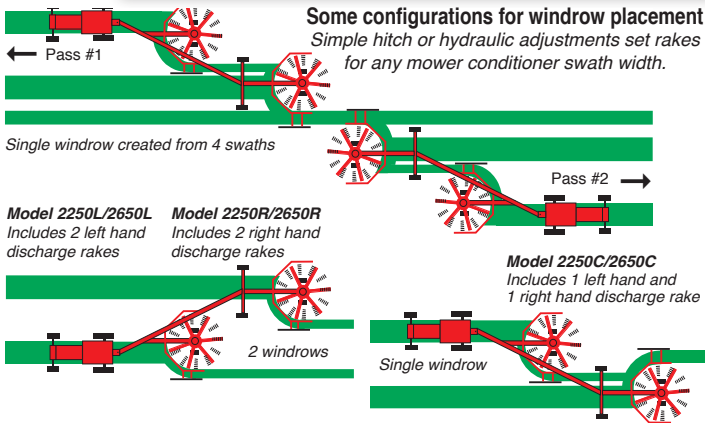
MODEL

2250



MODEL

2650



**Easy hookup, convenient hydraulics plus simple adjustment for height and windrow placement**

Speed productivity and reduce your harvest time. Combines two hydraulically driven model 1150 or 1350 rakes with a steerable heavy duty swing frame that doubles as a rake positioner and hydraulic oil cooler/reservoir.

Easy setup and adjustments. On-the-go remote hydraulics lifts rakes and sets raking height. Both rakes are controlled together by one remote at the tractor. Swing frame position is set by a second hydraulic remote which controls a rear steering cylinder. An adjustable hitch for the rear rake allows additional rake positioning, and a transport lock keeps the assembly directly behind the towing tractor.

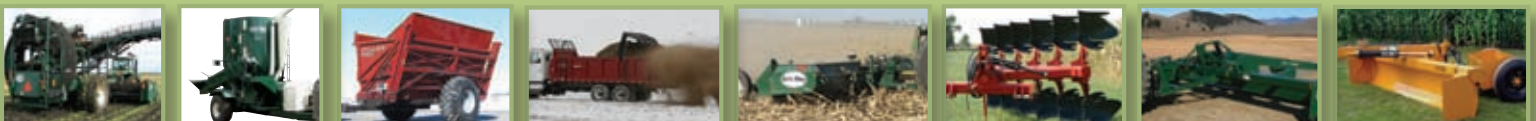
Efficient hydraulics. The swing frame features a self contained PTO driven hydraulic system which equally powers the high torque rake motors. Speed of the tractor PTO controls speed of rotors. Quick disconnects allow for easy unhooking, so individual rakes can be used independently.

Models	900	1150	1350	2250L/2650L (2 left discharge) 2250R/2650R (2 right discharge)	2250C/2650C (1 left & 1 right discharge)
Working width	Up to 11' 10"	Up to 14'	Up to 15' 6"	14' /15'6" per rotor for separate windrows combined 24' w/windrow max. combined 24' plus windrow max.	combined 25' w/windrow max. combined 25' plus windrow max.
Raking width	9' 5"	11'	12' 6"	21' 6"/24'	22'/25'
Transport width	9' 10"	11' 9"	8' 3" folded	11' 9"/13' 3" wide & 39' 6" long	11' 9"/13' 3" wide & 39' 6" long
Gear box	oil filled fully enclosed	oil filled fully enclosed	grease filled modular design	oil filled fully enclosed/grease filled	oil filled fully encl/grease filled
Tine arms	9	11	13	22/26	22/26
Double tines per arm	3	4	4	4	4
PTO/HP required	40 hp - 540 RPM	40 hp - 540 RPM optional hydraulic	40 hp - 540 RPM optional hydraulic	Requires 60 HP at the PTO to drive the 540 RPM 3000 PSI, 22 GPM gear pump which operates one high torque hydraulic motor for each rake	
Raking direction	left	left std / right optional	left std / right optional	2250L/2650L - left, 2250R/2650R - right	2250C/2650C - center
Hydraulic requirement	1400 psi	1800 psi	1800 psi	two sets of remotes with minimum of 1800 psi	
Weight	1,020 lbs w/std axle	1,440 lbs w/tandem axle	1,900 lbs w/tandem axle	approx. 3,866/4,460 pounds, with 2 tandem axle rakes	
Tandem axle	optional	standard	standard	standard	standard
Tires	18 x 8.5 x 8 flotation 10 ply	18 x 8.5 x 8 flotation 10 ply	18 x 8.5 x 8 flotation 10 ply	4 on each rake, 18 x 8.5 x 8 flotation - 10 ply 2 on swing frame, 11L x 15 tires	
Trans. lights/SMV sign	optional / SMV std	standard	standard	standard	standard



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