Cam action
rotary rakes
www.artsway-mfg.com
meeting your needs in the field

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.
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

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.
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.

Wide Raking Abilities
MILLER PRO offers a large diameter single rotor rake to follow big mower conditioners through the field. With an 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.

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

Height adjustment
Dual front and rear cylinders lift the rake evenly for infinite fine tuning, or raise completely for additional clearance over windows 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

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.

- 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.
Single windrow created from 4 swaths

Includes 2 left hand discharge rakes

Pass #1

Some configurations for windrow placement
Simple hitch or hydraulic adjustments set rakes for any mower conditioner swath width.

2 windows

Pass #2

Model 2250R/2650R
Includes 2 right hand discharge rakes

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.

<table>
<thead>
<tr>
<th>Models</th>
<th>900</th>
<th>1150</th>
<th>1350</th>
<th>2250L/2650L</th>
<th>2250R/2650R</th>
<th>2250C/2650C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width</td>
<td>Up to 11’ 10”</td>
<td>Up to 14’</td>
<td>Up to 15’ 6”</td>
<td>14’ /15’ 6” per rotor for separate windrows</td>
<td>combined 24” w/window max.</td>
<td>combined 25” w/window max.</td>
</tr>
<tr>
<td>Raking width</td>
<td>9’ 5”</td>
<td>11’</td>
<td>12’ 6”</td>
<td>21’ 6”/24’</td>
<td>22’/25’</td>
<td></td>
</tr>
<tr>
<td>Transport width</td>
<td>9’ 10”</td>
<td>11’ 9”</td>
<td>8’ 3” folded</td>
<td>11’ 9’/13’ 3” wide &amp; 39’ 6” long</td>
<td>11’ 9’/13’ 3” wide &amp; 39’ 6” long</td>
<td></td>
</tr>
<tr>
<td>Gear box</td>
<td>oil filled fully enclosed</td>
<td>oil filled fully enclosed</td>
<td>grease filled modular design</td>
<td>oil filled fully enclosed</td>
<td>oil filled fully enclosed</td>
<td></td>
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<tr>
<td>Tine arms</td>
<td>9</td>
<td>11</td>
<td>13</td>
<td>22/26</td>
<td>22/26</td>
<td></td>
</tr>
<tr>
<td>Double tines per arm</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PTO/HP required</td>
<td>40 hp - 540 RPM</td>
<td>40 hp - 540 RPM</td>
<td>40 hp - 540 RPM</td>
<td>Requires 60 HP at the PTO to drive the 540 RPM</td>
<td>3000 PSI, 22 GPM gear pump which operates one high torque hydraulic motor for each rake</td>
<td></td>
</tr>
<tr>
<td>Raking direction</td>
<td>left</td>
<td>left / right optional</td>
<td>left / right optional</td>
<td>2250L/2650L - left, 2250R/2650R - right</td>
<td>2250C/2650C - center</td>
<td></td>
</tr>
<tr>
<td>Hydraulic requirement</td>
<td>1400 psi</td>
<td>1800 psi</td>
<td>1800 psi</td>
<td>two sets of remotes with minimum of 1900 psi</td>
<td></td>
<td></td>
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<tr>
<td>Weight</td>
<td>1,020 lbs w/tandem axle</td>
<td>1,440 lbs w/tandem axle</td>
<td>1,900 lbs w/tandem axle</td>
<td>approx. 3,866/4,460 pounds, with 2 tandem axle rakes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tandem axle</td>
<td>optional</td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
<td></td>
</tr>
<tr>
<td>Tires</td>
<td>18 x 8.5 x 8 flotation 10 ply</td>
<td>18 x 8.5 x 8 flotation 10 ply</td>
<td>18 x 8.5 x 8 flotation 10 ply</td>
<td>4 on each rake, 18 x 8.5 x 8 flotation - 10 ply</td>
<td>on swing frame, 11L x 15 tires</td>
<td></td>
</tr>
<tr>
<td>Trans. lights/SMV sign</td>
<td>optional / SMV std</td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
<td></td>
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