# Power Rake
## High capacity Carted Rake

### Features
- Independent rake wheel adjustment
- Easy windrow adjustment.
- Rake wheel ground pressure adjustment.
- Central finger wheel kit (optional)
- Adjustment of the swath width
- Possibility of working with just one side of the machine open

### Advantages
- Fingers wheels follow the contours of terrain with the result of a perfect raking
- Quick variable windrow adjustment without tools.
- Rake wheel ground pressure can be fine-tuned to ensure clean and efficient raking in uneven terrain.
- Enables the middle swath to be raked and fluffed
- Fast and easy: one tie rod on each side enables the width to be adjusted without any tool
- Maximum flexibility of use
<table>
<thead>
<tr>
<th>Features</th>
<th>POWER RAKE 8</th>
<th>POWER RAKE 10</th>
<th>POWER RAKE PRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of finger wheels</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Tine wheel diameter - inches</td>
<td>9/32”</td>
<td>9/32”</td>
<td>9/32”</td>
</tr>
<tr>
<td>Working width - ft</td>
<td>17’28”</td>
<td>20’66”</td>
<td>24’93”</td>
</tr>
<tr>
<td>Transport width - ft</td>
<td>8’85”</td>
<td>8’85”</td>
<td>9’67”</td>
</tr>
<tr>
<td>Swath width (min-max) - ft</td>
<td>1’31” - 7’46”</td>
<td>2’16” - 8’30”</td>
<td></td>
</tr>
<tr>
<td>Tires</td>
<td></td>
<td>2 (205/75-15)</td>
<td></td>
</tr>
<tr>
<td>Required power (hp)</td>
<td>22.4</td>
<td>22.4</td>
<td>37.3</td>
</tr>
<tr>
<td>Lights kit</td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td>Hydraulic equipment</td>
<td>1 SE + 1 DE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight - lbs</td>
<td>1687</td>
<td>2019</td>
<td>2295</td>
</tr>
</tbody>
</table>

**Features**

- Regulation of working width easier thanks to stand.
- Regulation of finger wheel pressure on the ground.
- Regulation of windrow width.

**Accessories available on request**

- Center finger wheels: optional
- Wind shield: optional
THREE POINT HITCH HAY RAKES P SERIES

The TONUTTI P Rakes are the ideal solution for Hobby Farmers, Horse Farmers, for farmers who need to clean up on their property or in mountain areas due to its small dimensions and 3-point hitch mount.

Two finger wheels are mounted on each rake arm. The rake arms are independent from the rake frame and the rake frame is also independent from the rake head. Shock absorbing springs on the three point rake head relieves the ground pressure from the finger wheels. Each finger wheel consists of 40 heat treated tines made of high quality spring material, which guarantee a long lasting operation without breakage.

The simplicity of the P Series along with the independence of each component allow the rake to adapt itself perfectly to all kinds of uneven terrain. Together with the special shaped tines which filter all kinds of dirt and stones the P rake produces a perfectly clean windrow.

This rake requires very little maintenance. All Tonutti three point hitch hay rakes P series have standard parts that are interchangeable (finger wheels, head, arms and tines).

Tonutti also offers a rear mounted windrow turner with 2 or 3 finger wheels that easily turns the windrow to allow a better drying of the forage.
## THREE POINT HITCH HAY RAKES P SERIES

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>P2 T</th>
<th>P3 T</th>
<th>P4</th>
<th>P5</th>
<th>P6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finger wheels</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Finger wheels diameter</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>20Hp (15 kW)</td>
<td>20Hp (15 kW)</td>
<td>25Hp (19 kW)</td>
<td>25Hp (19 kW)</td>
<td>30Hp (22,4 kW)</td>
</tr>
<tr>
<td>Tines diameter</td>
<td>6,4 mm</td>
<td>6,4 mm</td>
<td>6,4 mm</td>
<td>6,4 mm</td>
<td>6,4 mm</td>
</tr>
<tr>
<td>Maximum working width</td>
<td>4' (122 cm)</td>
<td>6' (183 cm)</td>
<td>7'6&quot; (228 cm)</td>
<td>9'3&quot; (282 cm)</td>
<td>11'4&quot; (347 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>156lb (71 kg)</td>
<td>220lb (100 kg)</td>
<td>352lb (160 kg)</td>
<td>407lb (185 kg)</td>
<td>506lb (230 kg)</td>
</tr>
<tr>
<td>Transport width</td>
<td>8'4&quot; (250 cm)</td>
<td>10'8&quot; (320 cm)</td>
<td>4'7&quot; (140 cm)</td>
<td>7'4&quot; (220 cm)</td>
<td>7'4&quot; (220 cm)</td>
</tr>
<tr>
<td>Appropriate working speed</td>
<td>14 mph (22km/h)</td>
<td>14 mph (22km/h)</td>
<td>14 mph (22km/h)</td>
<td>14 mph (22km/h)</td>
<td>14 mph (22km/h)</td>
</tr>
</tbody>
</table>

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TONUTTI RTP-CARTED RAKES are available in 8-, 10-, and 12-wheel models. These high-quality and durable rakes are easily adaptable to your crop conditions. Their wide cart and low center of gravity assure a stable and secure operation even on inclines and in hilly areas.

Two rake wheels are independently mounted on one pivoting arm to follow ground contours. Finger wheels with specially shaped tines made of flexible steel gently rake the crop to produce a consistant and fluffy windrow suitable to form an even and compact bale.

The RTP rakes come with two single acting hydraulic cylinders to raise the rakes on-the-go right from the tractor cab. When needed, either side can be locked in transport position so you can rake only with one side.

The RTP carted rakes can be set-up and fine-tuned to your crop conditions like almost no other rake on the market:

You can adjust the raking width through two independent rake frames which slide across a rugged cart.

Additional turnbuckles allow a perfect fine-tuning of the windrow width. By regulating the turnbuckles differently on each side, the windrow can be off-set either to the left or to the right. In this way two windrows can be easily raked together.

Adjustable shock-absorbing springs under each pivoting head control the right ground pressure when working in rough or uneven terrain.
1. Adjustable shock-absorber to provide smooth performance even on rough and uneven terrain.

2. Turnbuckles on each side to easily fine tune the windrow width in a few seconds on the field. Turnbuckles can be adjusted to off-set windrows to one or the other side, which makes it easy to rake two windrows together.

3. Wide range of possible windrow width adjustments by slicing the side rake frames across the tool bar frame.

4. Either side of the machine can be easily locked in transport position to rake only with one side.

5. a) Unlocked position of one side of the RTP rake.
   b) Locked position with lock pin for transport or raking with only one side.

6. Two single acting hydraulic cylinders to raise rake side frames on-the-go from the tractor cab.

OPTIONS

7. Optionally available a hose kit to convert its hydraulics to double-acting for better control of the rakes when working on steep inclines.

8. Optional: Center Kicker wheel to turn center of windrow by half to fluff up crop, increase dry-down and to prevent the need to run your baler pickup in the ground.
## TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th></th>
<th>RTP 8</th>
<th>RTP 10</th>
<th>RTP 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheels</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Wheel diameter</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>20 (15 kW)</td>
<td>20 (15 kW)</td>
<td>25 (19 kW)</td>
</tr>
<tr>
<td>Hitch</td>
<td>Clevs</td>
<td>Clevs</td>
<td>Clevs</td>
</tr>
<tr>
<td>Maximum raking width</td>
<td>19'6&quot; (590 cm)</td>
<td>22' (660 cm)</td>
<td>24' (730 cm)</td>
</tr>
<tr>
<td>Window width</td>
<td>3'-5&quot; (90-150 cm)</td>
<td>3'-6&quot; (90-180 cm)</td>
<td>3'-6&quot; (90-180 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1,038 lb. (472 kg)</td>
<td>1,174 lb. (534 kg)</td>
<td>1,386 lb. (629 kg)</td>
</tr>
<tr>
<td>Transport width</td>
<td>10' (300 cm)</td>
<td>10'6&quot; (320 cm)</td>
<td>11'4&quot; (340 cm)</td>
</tr>
<tr>
<td>Appropriate working speed</td>
<td>14 mph (22 kmh)</td>
<td>14 mph (22 kmh)</td>
<td>14 mph (22 kmh)</td>
</tr>
<tr>
<td>Minimum hydraulic requirements</td>
<td>1,000 psi (68.95 bar)</td>
<td>1,000 psi (68.95 bar)</td>
<td>1,000 psi (68.95 bar)</td>
</tr>
<tr>
<td>Hitch jack</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Tires</td>
<td>185/65-14</td>
<td>185/65-14</td>
<td>185/65-14</td>
</tr>
</tbody>
</table>

### OPTIONAL

- Center kicker wheel
- Hose kit to transform hydraulics into double-acting

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Since 1864, we have put our customers and their needs at the heart of our business, always ready to listen and better understand their requests.

Thanks to the satisfaction and loyalty of our customers, the dedication and expertise of our employees, and our commitment to innovation, we continue to be a market leader by bringing the lessons we learn throughout the world to our customers in the form of improved products and farming concepts.

We are committed to:
- our customers
- continued growth
- worldwide leadership through the development of superior products
- the environment through the design and manufacture of eco-friendly products with reduced fuel consumption requirements

Today, the Tonutti Group employs more than 500 people across three continents with sales and manufacturing facilities in the United States, Italy, France, Russia, and China providing us global coverage with local knowledge.

At Tonutti Group, we have been providing farmers with innovative solutions for over 145 years. Our commitment to innovation and growth ensures that we will continue to be a leader for generations to come.

10 Efficient spring suspension:
- adjustable spring suspension system allows the rake wheels to follow the contour of the ground, ensuring raking quality and crop care.

Model T3 pull rake - 1955

1 Adjustable hitch:
- allows the operator to adjust the tongue height to match the tractor hitch, allowing the rake to work more efficiently.
9 Easy windrow adjustment:
windrow width can be adjusted quickly without the need for special tools. You can also order an optional heavy duty electric actuator kit that would allow you to adjust the windrow width from your tractor cab.

8 Rake wheel ground pressure adjustment:
rake wheel ground pressure can be fine-tuned to ensure better raking efficiency in uneven terrain.

2 Jack stand:
the transport location on top of the tongue puts the jack out of harms way.

3 Fenders (optional):
allow the rake to stay clean in muddy conditions.
7 Rake wheel arms & frames are centrally hinged:
Tonutti’s patented design ensures good raking quality in uneven terrain and better efficiency at higher working speeds.

6 Larger center kicker wheel (optional):
the 47" diameter center wheel allows you to turn the hay laying in the “dead zone” between the two wheel frames ensuring that all of the crop across the entire working width is moved.

5 Superior ground clearance:
maximizes raking capacity. Both the mainframe and the rake wheel frames have been designed to optimize crop flow and windrow uniformity.

4 Spare tire + jack stand support (optional):
allow you to change a flat in a matter of minutes, reducing down-time.

Pro LINE

SIMPLE.
EFFICIENT.
RUGGED.
**Reduced transport height:**
Tonutti’s arm folding design keeps transport height to a minimum.

**Transport stability:**
The larger tread width and the balanced overall design ensure maximum stability during transport.

**High bore welded cylinders:**
Ensures that the open/close cylinders work, even on older tractors with low hydraulic pressure.

**Locking system for safe road transport:**
Simple and easy to set.

**Rake with one side!**
By simply using the locking system and the double actuated cylinders, the operator can either rake with the right or left side in smaller or odd shaped fields.
**TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th></th>
<th>TCR 8 PRO</th>
<th>TCR 10 PRO</th>
<th>TCR 12 PRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of finger wheels</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Finger wheel diameter - feet (mm)</td>
<td>4' 7&quot; (1400)</td>
<td>4' 7&quot; (1400)</td>
<td>4' 7&quot; (1400)</td>
</tr>
<tr>
<td>Tine diameter - feet (mm)</td>
<td>9/32&quot; (7)</td>
<td>9/32&quot; (7)</td>
<td>9/32&quot; (7)</td>
</tr>
<tr>
<td>Minimum working width - feet (mm)</td>
<td>15' 8&quot; (4800)</td>
<td>16' 9&quot; (5100)</td>
<td>18' 8&quot; (5700)</td>
</tr>
<tr>
<td>Maximum working width - feet (mm)</td>
<td>18' 8&quot; (5700)</td>
<td>21' 4&quot; (6500)</td>
<td>23' 4&quot; (7100)</td>
</tr>
<tr>
<td>Minimum windrow width - feet (mm)</td>
<td>2' 11&quot; (900)</td>
<td>2' 11&quot; (900)</td>
<td>2' 11&quot; (900)</td>
</tr>
<tr>
<td>Maximum windrow width - feet (mm)</td>
<td>6' 1&quot; (2100)</td>
<td>6' 1&quot; (2100)</td>
<td>6' 1&quot; (2100)</td>
</tr>
<tr>
<td>Overall length - feet (mm)</td>
<td>18' 11&quot; (5500)</td>
<td>20' 4&quot; (6200)</td>
<td>23' 7&quot; (7200)</td>
</tr>
<tr>
<td>Minimum transport height - feet (mm)</td>
<td>8' 5&quot; (2570)</td>
<td>8' 5&quot; (2570)</td>
<td>8' 5&quot; (2570)</td>
</tr>
<tr>
<td>Maximum transport height - feet (mm)</td>
<td>9' 5&quot; (2860)</td>
<td>9' 5&quot; (2860)</td>
<td>9' 5&quot; (2860)</td>
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<tr>
<td>Minimum overall transport width - feet (mm)</td>
<td>9' 2&quot; (2800)</td>
<td>9' 2&quot; (2800)</td>
<td>9' 6&quot; (2900)</td>
</tr>
<tr>
<td>Tread width - feet (mm)</td>
<td>6' 8&quot; (2030)</td>
<td>6' 8&quot; (2030)</td>
<td>7' 4&quot; (2230)</td>
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<tr>
<td>Tire size</td>
<td>205/65 - 15&quot;</td>
<td>205/65 - 15&quot;</td>
<td>205/65 - 15&quot;</td>
</tr>
<tr>
<td>Tractor requirements HP (kW)</td>
<td>30 (22.4)</td>
<td>30 (22.4)</td>
<td>50 (37.3)</td>
</tr>
<tr>
<td>Gross - lbs (kg)</td>
<td>1350 (610)</td>
<td>1623 (690)</td>
<td>1752 (795)</td>
</tr>
<tr>
<td>Tongue load - lbs (kg)</td>
<td>158 (72)</td>
<td>191 (87)</td>
<td>213 (97)</td>
</tr>
</tbody>
</table>

* Variable according to crop conditions

**OPTIONAL**

- Spare transport wheel (Rim+Tire)
- Fenders
- Hydr. center kicker rake wheel (Ø 4' 7"
- Electr./Hydr. windrow adjustment kit

**ADDITIONAL PRODUCT OFFERINGS**

TONUTTI reserves the right to make changes or add improvements at any time without notice. The information contained here is general in nature and is not intended for specific application purposes.
The T 3GW series with three tires and 6 or 9 rake wheels, with working widths respectively from 13' 8" (4.10 m) to 20' 2" (6.05 m), is equipped with one rear directional wheel and two forward pivoting wheels, a tough frame and a drawbar with an adjustable sector for the different working widths. It’s a practical and reliable machine that can be used to rake various kinds of forage and it is particularly suitable for raking on small fields with irregular windows. It presents itself as an economic machine that distinguishes itself for working flexibility and as a tool for both small and medium sized operations that need a machine with high productivity. The lifting of the rake wheels for transport and maneuvering is hydraulically operated, whilst the opening and closing is made manually. The T 3GW can also be used in hilly conditions by applying an optional anti-sliding kit.

**T 3GW - Standard Version**

**Drawbar with set working width. Your rake has five working width positions.**

**T 3GW - With Anti-Sliding Kit**

ANTI-SLIDING KIT offers perfect stability on inclines (optional).
The T series IN LINE hay rakes are ideal for small and medium sized operations. They do an excellent job both with limited and with large amounts of crop.

The T 4GW series with four tires with working widths that go from 24’ 4” (7.30 m) to 28’ 4” (8.50 m) and with respectively 11 and 13 rake wheels, is equipped with special directional tires and a sturdy and flexible frame that adapts to the most extreme conditions.

The rake is equipped with a double-acting hydraulic cylinder, operated directly from the tractor cab, that provides a fast opening and closing of the rake and a practical and simple window width adjustment.

A second hydraulic mechanism rapidly lifts all of the rake wheels and also raises the two front rake wheels to reduce overall dimensions for road transport.

The T 4GW series distinguishes itself for its big operating capability, met thanks to a high work speed.

The rake wheels mount tines made of special steel especially designed to give the tire maximum flexibility.

The result is a compact and well formed windrow without dirt and ideal for bale processing and for a high quality end product.

The T 4GW mount 7mm diameter tines, whilst the T 3GW series mount 6.4 mm diameter tines.

IN LINE HAY RAKES T 4GW AND T 3GW ARE IDEAL FOR:

1. High volume crops;
2. Delicate crops, because the rakes gently handle the crop without damaging the leaves and preserving all the high nutritional value;
3. Hay and heavy silage;
4. Straw (only T11 and T13 4GW with four tires).
In Line Pull Type Hay Rake T 4GW Specifications

The independently spring-loaded rake wheels allow the rake to adapt to all terrain conditions including inclines.

Adjustable brakes on pivoting wheels for a safe and fast road transport.

Four 8 ply directional tires 5.50 x 16, anti-puncture, mounted on reinforced hubs (two of which with anti-sliding assist mechanism).

A. Hydraulic mechanism for lifting rake wheels
B. Hydraulic mechanism for lifting the front extension for transport
C. Hydraulic mechanism for opening, closing and for windrow width adjustment

Transport width 8' (2.50 m).

Perfect adaptability to diverse terrain conditions including rough and hilly conditions.

Centrally articulated frame.

Optional Accessories

a. 5" Wheel Kit Allows a greater stability when working and in presence of high volume of forage and straw. The application consists of one additional directional wheel (the 5th) positioned on the rear left-hand side of the rake.

b. Wind Panels Make raking operations easier in windy conditions or with short crop, avoiding that forage or straw wrap or pass through the rake wheels and thus and with any crop improve the rearward flow of the product.
1. **DISENGAGE SAFETY RELEASE MECHANISM** Raise the release mechanism from the stop that ensures safety in transport.

2. **CONNECT HYDRAULIC TUBES.**

3. **LOWER FRONT EXTENSION** Lower the front extension by operating the hydraulic cylinder, making the first two rake wheels come down. Raise the extension again for road transport.

4. **ADJUST RAKE WHEEL PRESSURE ON THE GROUND** Adjust the pressure of the rake wheels on the ground with the crank that on the regulation screw lifts or lowers all the rake wheels simultaneously in order to obtain the required pressure.

5. **HYDRAULIC OPENING OF THE RAKE** The rake has an endless working width possibilities that vary between transport position and the maximum opening width. To open and to set the required working width simply operate the hydraulic cylinder.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>T6 3GW</th>
<th>T9 3GW</th>
<th>T11 4GW</th>
<th>T13 4GW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finger wheels</td>
<td>6</td>
<td>9</td>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>Finger wheel diameter</td>
<td>55” (140 cm)</td>
<td>55” (140 cm)</td>
<td>55” (140 cm)</td>
<td>55” (140 cm)</td>
</tr>
<tr>
<td>Tine diameter</td>
<td>6.4 mm</td>
<td>6.4 mm</td>
<td>6.4 mm</td>
<td>6.4 mm</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>30 Hp (22 kW)</td>
<td>30 Hp (22 kW)</td>
<td>30 Hp (22 kW)</td>
<td>30 Hp (22 kW)</td>
</tr>
<tr>
<td>Maximum working width</td>
<td>12’ 8” (4,10 m)</td>
<td>20’ 2” (6,05 m)</td>
<td>24’ 4” (7,30 m)</td>
<td>28’ 4” (8,50 m)</td>
</tr>
<tr>
<td>Transport width</td>
<td>8’ (2.50 m)</td>
<td>8’ (2.50 m)</td>
<td>8’ (2.50 m)</td>
<td>8’ (2.50 m)</td>
</tr>
<tr>
<td>Recommended working speed</td>
<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
</tr>
<tr>
<td>Weight (standard version)</td>
<td>1133 lb. (515 kg)</td>
<td>1375 lb. (625 kg)</td>
<td>2530 lb. (1150 kg)</td>
<td>3003 lb. (1365 kg)</td>
</tr>
<tr>
<td>Tires</td>
<td>n.2 185/65-14 + n.1 500x15</td>
<td>n.2 185/65-14 + n.1 500x15</td>
<td>n.4 5,50x16,6 (8 ply)</td>
<td>n.4 5,50x16,6 (8 ply)</td>
</tr>
<tr>
<td>Minimum hydraulic requirements</td>
<td>1,000 psi (68,95 bar)</td>
<td>1,000 psi (68,95 bar)</td>
<td>1,000 psi (68,95 bar)</td>
<td>1,000 psi (68,95 bar)</td>
</tr>
</tbody>
</table>

## OPTIONAL

- 5th ground wheel kit
- Anti-Sliding kit
- Wind shields
- Lighting kit

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RAPTOR 2 GW V Hay Rakes (with 2 ground wheels)

The Raptor 2 GW Hay Rake with two ground wheels comes with 10 finger wheels with a working width of 19'6" (5.85 m). Thanks to its two ground wheels the Raptor follows the tractor nicely even in tight turns and is easy to handle even on very small and irregularly shaped fields and inclines.

The Raptor 2 GW works perfectly on inclines and hilly areas.

Tandem wheel kit with tires with special tread for a better stability on inclines or in hilly areas (optional).

The Raptor 2 GW works also on small fields with tight turns.
TONUTTI RAPTOR V HAY RAKES are available in two versions:

Raptor 4 GW with four ground wheels with working width from 19’ 6” (5.85 m) to 25’ 5” (7.72 m) with 10-, 12- and 14 finger wheels.
Raptor 2 GW with two ground wheels with working width of 19’ 6” (5.85 m) with 10 finger wheels. Ideal for smaller and irregularly shaped fields.

These high capacity V-rakes are designed to work big quantities of forage also on inclines and in hilly areas. The Raptor is the ideal low cost solution for areas where a carted rake is not sufficient.
All Rapters are equipped with three hydraulic cylinders. One double acting cylinder is placed on the drawbar of the machine to open and close the machine in a few seconds from transport position to working position and back from the tractor seat.
The two other cylinders are placed on the side frames to raise and lower the finger wheels in seconds.

The Raptors are ground driven without any PTOs, gear boxes or other expensive and delicate parts.
For this reason a Raptor can be operated at very high ground speeds with very small tractors of only 30 hp.
For the same reason maintenance is very easy, fast and inexpensive.

All fingerwheels are independently spring supported and work vertically to the ground. They adapt individually to the smallest variation of the terrain compared to the disadvantage of horizontally working rotors of rotary rakes.

Finger wheels are equipped with specially shaped tines made of flexible heat treated spring steel. The flexibility of the tines guarantees a big footprint of 5 – 7 tines at a time on the ground, which gently rakes the crop producing a consistent, fluffy and even windrow, ideal for balers or pickups of all kinds. The flexibility of the tines also filters all kinds of dirt and stones keeping the windrow very clean.

ALL THESE FEATURES ARE IDEAL TO WORK:

1. High volume crops;
2. Delicate crops like Alfalfa without breaking high nutritional leaves;
3. Heavy and wet silage;
4. On inclines and hilly areas.
Independently mounted and spring supported finger wheels to provide smooth performance also on rough and uneven terrain.

Adjustable breaks for pivoting ground wheels for fast road transportation even behind a pickup truck.

All Raptors are equipped with three hydraulic cylinders, one for opening and closing the machine and two on each side for raising and lowering the finger wheels.

Sliding drawbars that shorten the machine in working position for a better maneuverability behind the tractor.

**OPTIONS**

a. CENTER KICKER WHEELS (only for Raptor with four ground wheels) to equally divide the central window to increase dry-down time and to prevent the need to run your baler pickup in the ground. The center kicker wheels on the Raptor are the same size as the standard finger wheels.

b. WINDSHIELD for a better performance in windy areas where short crop can be thrown through the tines and for a better flow of the crop in any condition.

c. LIGHTING KIT for a better visibility of the machine during road travel.
EASY SET-UP OF RAPTORS IN ONLY 4 STEPS

1 UNLOCK THE SAFETY BAR which prevents the opening of the machine during transportation on the road.

2 CONNECT HYDRAULICS

3 ADJUST GROUND PRESSURE of finger wheels through a simple crank on each side.

4 ADJUST WINDROW WIDTH also through a simple crank on each side by opening and closing the two rear finger wheels. This TONUTTI patented solution is the easiest and fastest on the market. There is no need to open or close the rear frame, which guarantees a much higher stability of the whole machine.

OFF-SET WINDROW
Thanks to the independent setting of the last two finger wheels the windrow can be also off-set to one or the other side by opening or closing the rear finger wheels to different angles. In this way two windrows can be combined into one by passing again on the same spot.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>V10 2GW</th>
<th>V10 4GW</th>
<th>V12 4GW</th>
<th>V14 4GW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finger Wheels</td>
<td>10</td>
<td>10</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Finger Wheels diameter</td>
<td>55° (140 cm)</td>
<td>55° (140 cm)</td>
<td>55° (140 cm)</td>
<td>55° (140 cm)</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>20 (15 kW)</td>
<td>30 (22.4 kW)</td>
<td>30 (22.4 kW)</td>
<td>30 (22.4 kW)</td>
</tr>
<tr>
<td>Tines diameter</td>
<td>7 mm</td>
<td>7 mm</td>
<td>7 mm</td>
<td>7 mm</td>
</tr>
<tr>
<td>Maximum working width</td>
<td>19° 6&quot; (585)</td>
<td>19° 6&quot; (585)</td>
<td>22° 6&quot; (673)</td>
<td>25° 5&quot; (762)</td>
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<td>Window width</td>
<td>4' - 6' (120-180 cm)</td>
<td>4' - 6' (120-180 cm)</td>
<td>4' - 6' (120-180 cm)</td>
<td>4' - 6' (120-180 cm)</td>
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<tr>
<td>Weight</td>
<td>2134 lb. (970 kg)</td>
<td>2068 lb. (940 kg)</td>
<td>2266 lb. (1030 kg)</td>
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<tr>
<td>Transport width</td>
<td>8' (250 cm)</td>
<td>8' (250 cm)</td>
<td>8' (250 cm)</td>
<td>8' (250 cm)</td>
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<td>Appropriate working speed</td>
<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
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<tr>
<td>Minimum hydraulic requirements</td>
<td>1,000 psi (68.95 bar)</td>
<td>1,000 psi (68.95 bar)</td>
<td>1,000 psi (68.95 bar)</td>
<td>1,000 psi (68.95 bar)</td>
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<td>Tires</td>
<td>(2) 185/65-14</td>
<td>(4) 185/65-14</td>
<td>(4) 185/65-14</td>
<td>(4) 185/65-14</td>
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</tbody>
</table>

### OPTIONAL

- Center kicker wheels
- Wind shields
- Lighting kit
- Tandem wheels

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**DOMINATOR V 14** working width 28' 4" (8.50 m) - windrowing silage

The **Dominator Series** is available in two versions:

- **V12** with 12 rake wheels and maximum working width of 25' (7.50 m)
- **V14** with 14 rake wheels and maximum working width of 28' 4" (8.50 m)

Like the Millennium Series, the Dominator is equipped with a “V” shaped frame at the same time very sturdy and also flexible that allows the rake to adapt itself to all kinds of terrain, including inclines and hilly conditions.

The Dominator is the perfect machine for both small and large farms thanks to its lower purchase price and low operating costs.

The Dominator is the ideal machine to windrow all kinds of forage, from the more delicate crops like Alfalfa to heavy silage.

Even for the Dominator field readiness is easy and fast thanks to a new hydraulic mechanism that opens the rake and at the same time shortens the central drawbar by 5' 7" (1.70 m) providing high maneuverability.

Tonutti also offers on demand a version with an advanced hydraulic self-steering mechanism that further improves raking capabilities and maneuverability in tight spaces.

**PULL TYPE HAY RAKES DOMINATOR SERIES ARE IDEAL FOR:**

- High forage volumes
- Delicate forage like Alfalfa
- Heavy silage
- Working on irregularly shaped fields and inclines

Easy and fast road transport.
Transport width 8' 4" (2.50 m).

New self-steering mechanism lets the rake perfectly follow the tractor enhancing maneuverability and allowing for tight steering.
The Dominator and Millennium Series are part of the new generation of Tonutti wheel rakes. These machines have been specifically designed for medium/large operations and contractors and their main feature is the high working capacity with working widths that go from 25' (7.50 m) to 39' (11.70 m).

**Higher performance opposed to rotary rakes**
- Higher speed. Even more than 22km/h. No PTO.
- Softer and cleaner windrow. Each rake wheel works independently and adapts vertically to the terrain. The flexible lines filter dirt and stones.
- Higher forage quality. The rake wheels gently move delicate forage (like Alfalfa), without damaging the leaves and preserving all the high nutritional value.

**Much lower costs opposed to rotary rakes**
- Low purchase price
- Extremely low maintenance costs because without complex and costly parts like cams, transmissions, PTO’s, etc..
- Time-saving thanks to fast field work readiness and high working speed.
- High fuel saving because powerful tractors are not required (e.g. for the Millennium V20, with 39' (11.70 m) working width, a tractor from 40hp to 60hp is sufficient).
- Long operating life compared to rotary rakes with more complex and costly components.

The Millennium Series is available in three versions:
- V16 with 16 rake wheels and 4 tires - maximum working width of 32' (9.60 m)
- V18 with 18 rake wheels and 7 tires - maximum working width of 35' 4" (10.60 m)
- V20 with 20 rake wheels and 7 tires - maximum working width of 39' (11.70 m)

The Millennium is the series with the largest Tonutti rakes. The flexible and at the same time tough frame (Tonutti patent), the incredible ease in operations make this the ideal machine for working in all conditions and on the most diverse terrain, including inclines and hilly conditions. The result is always soft and clean windrow, without dirt or stones.

The Millennium is the ideal machine to windrow all types of forage, including delicate forage like Alfalfa and even heavy silage. The Millennium is the best solution to windrow straw in rough terrain.

The Millennium Series is the perfect solution to make large and uniform windrows for big baler operations.

Field work readiness is easy and fast thanks to a new hydraulic mechanism that opens the rake and at the same time shortens the central drawbar by 5' 7" (1.70 m) providing high maneuverability.

Tonutti also offers on demand a version with an advanced hydraulic self-steering mechanism that further improves raking capabilities and maneuverability in tight spaces.

**Pull type hay rakes Millennium series are ideal for:**
- High forage volumes
- Delicate forage like Alfalfa
- Heavy silage
- Straw
- Working on rough terrain
- Working on inclines and hilly terrain

The rake wheels mount lines made of special steel especially designed to give the line maximum flexibility. The result is a compact and well formed windrow without dirt and ideal for baler processing and for a high quality end product.
DOMINATOR AND MILLENNIUM FEATURES

Rake wheels independently springloaded ensure high adaptability to all terrain conditions.

Adjustable brakes for pivoting wheels for safe and fast road transport.

Length shortens: When the Millennium rake is opened the front drawbar slides inside the central drawbar moving the rake towards the tractor and reducing the overall length by 5' 7" (1.70 m). The drawbar slides on nylon pads that do not require lubrication.

Windrow width adjustment made fast and easy by setting the last two rake wheels. On the Millennium Series, the last two rake wheels are positioned on the back of the rear frame (see picture). On the Dominator Series, the last two rake wheels are positioned inside the "V" frame and are adjusted with the simple turn of a crank.

Independent and flexible side frames ensure perfect adaptability to all kinds of hilly and uneven terrain (only on Millennium V18 V20 models).

Kit with 5" and 6" front wheel (Optional) for a better and more stable performance on rough terrain.

OPTIONALS

a. CENTER SPLITTER WHEELS to equally divide the central windrow to increase dry-down time and to prevent the need to run your baler pickup in the ground.

b. WIND PANELS Make raking operations easier in windy conditions or with short crop, avoiding that forage or straw wrap or pass through the rake wheels and always improve the rearward flow of the product.

c. LIGHT KITS for a better visibility and safety on road.
1 DISENGAGE THE FRONT SAFETY TRANSPORT BARS and position them on the specific space provided on the sideframes.

2 CONNECT HYDRAULIC TUBES.

3 SET THE PRESSURE OF THE RAKE WHEELS with the cranks on each side.

4 SET THE WINDBROW WIDTH by positioning the last two rake wheels at the desired angle by means of a simple crank.

By adjusting the angle of the rear rake wheels, it's possible to move the windrow by approx. 50 cm to the right or to the left and therefore reduce the distance between windrows.
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>V16 - 4GW</th>
<th>V18 - 7GW</th>
<th>V20 - 7GW</th>
<th>V12 - 4GW</th>
<th>V14 - 4GW</th>
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<tbody>
<tr>
<td>Finger wheels</td>
<td>16</td>
<td>18</td>
<td>20</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Finger wheel diameter</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
<td>55&quot; (140 cm)</td>
</tr>
<tr>
<td>Tine diameter</td>
<td>7 mm</td>
<td>7 mm</td>
<td>7 mm</td>
<td>7 mm</td>
<td>7 mm</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>40 Hp (29.8 kW)</td>
<td>60 Hp (44 kW)</td>
<td>60 Hp (44 kW)</td>
<td>30 Hp (22 kW)</td>
<td>30 Hp (22 kW)</td>
</tr>
<tr>
<td>Maximum working width</td>
<td>32' (9.60 m)</td>
<td>35' 4&quot; (10.60 m)</td>
<td>39' (11.70 m)</td>
<td>25' (7.62 m)</td>
<td>28' 4&quot; (8.50 m)</td>
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<tr>
<td>Windrow width adjustment</td>
<td>3 to 6' (90 - 180 cm)</td>
<td>3 to 6' (90 - 180 cm)</td>
<td>3 to 6' (90 - 180 cm)</td>
<td>3 to 6' (90 - 180 cm)</td>
<td>3 to 6' (90 - 180 cm)</td>
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<tr>
<td>Transport width</td>
<td>10' (3.00 m)</td>
<td>10' (3.00 m)</td>
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<td>8' (2.50 m)</td>
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<td>Recommended working speed</td>
<td>14 mph (22 km/h)</td>
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<td>14 mph (22 km/h)</td>
<td>14 mph (22 km/h)</td>
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<td>Weight (standard version)</td>
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<td>5588 lb (2540 Kg)</td>
<td>5508 lb (2460 Kg)</td>
<td>3385 lb (1530 Kg)</td>
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<tr>
<td>Tires</td>
<td>n. 4 205/65x15</td>
<td>n. 7 205/65x15</td>
<td>n. 7 205/66x15</td>
<td>n. 4 205/66x15</td>
<td>n. 4 205/66x15</td>
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<tr>
<td>Minimum hydraulic requirements</td>
<td>1000 psi (68.95 bar)</td>
<td>1000 psi (68.95 bar)</td>
<td>1000 psi (68.95 bar)</td>
<td>1000 psi (68.95 bar)</td>
<td>1000 psi (68.95 bar)</td>
</tr>
</tbody>
</table>

## Optional

- Center kicker wheels
- Wind shields
- Lighting kit
- 5"-6" front ground wheels kit

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**Always one step ahead**

Tonutti Italy
Via Gino Tonutti 3 - 33047
Rezzato (UD) Italy
Tel. +39 0432 68672
Fax +39 0432 68682
info@tonutti.it
www.tonutti.it

Tonutti U.S.A.
S&T Distributing Inc.
1509 Thomas Road
Memphis, TN 38124
Phone (901) 385 8841
Fax (901) 385 8288
info@tonutti.com
www.tonutti.com

Tonutti Russia
G.M.T Limited
3 Tekhnicheskaya Street
Perm, 614070 Russia
Phone 077 (3422) 909096
Fax 007 (3422) 909096
gmtflr@perm.ru