6 Good reasons to buy a Tonutti rake

**Low maintenance costs**
- simple construction
- no drive shaft
- no mechanical transmission

**High working capacity**
- higher working speed compared to rakes that are PTO driven
- the working speed does not depend on the drive shaft rotating speed.

**Clean windrows**
- reduced soil contamination
- adjustable pressure on the ground
- each finger wheel works independently and adapts perfectly to the contours of the ground.

**Low power requirement**
- low power tractors can easily handle finger rakes of considerable size.

**Low fuel consumption**
- reduction in fuel consumption per hectare thanks to the use of low power tractors
- reducing fuel consumption increases the productive capacity
- considerable reduction in air pollution.

**Excellent forage swathing**
- the Tonutti finger wheel rakes works delicately without destroying the leaves that contain most of the nutritional value of forage.
Variable working width
The working width can be adjusted with hydraulic system from the driver’s cab. This unique feature allows to adjust the volume of the windrow in accordance to the pick-up machinery performance.

Finger wheel pressure on the ground
Quick and easy adjustment thanks to a simple crank for perfect windrow no matter what the conditions are.

Excellent adaptation to the ground
Perfect raking on any terrain is guaranteed thanks to the independent finger wheels suspension system, as well as the support of 4, 7 or 9 tyres, depending on the model.

“Panthograph” rake opening system
Unique of its kind, the “panthograph” drawbar shortens itself to 1,10 m (Raptor series) or 1,70 m (Dominator & Millenium series). Thanks to their length reduction, these wide rakes are easy to handle.

Windrow width adjustment
Easy and quick: regulation of widrow width it’s independent from the working width. This is possible thanks to the cranks which regulate the tilting of most rear rake wheels.

Central finger wheel kit
This kit allows the central windrow to be opened, before a new windrow is formed, for a better aeration. It’s commanded by the hydraulic system that controls the lift of other rake wheels and can be blocked in high position if not needed.
Simple and easy to use
All expectations are met with the Raptor rakes:
• large working width from 3.50 m up to 5.85 (Raptor V10) 6.70 (Raptor V12) and 7.60 (Raptor V14)
• low power requirement (less than 80 HP)
• accurate windrows
• perfect raking at a high speed.
Tonutti offers four models of rakes which fit also medium size tractors, despite their dimensions and the great working widths like 5.85 m, 6.70 m and 7.60 m (respectively V10, V12 and V14 PRO). Appreciated by a large number of breeders for their ease of use and speed of conduction, the Raptor Pro it’s a great investment for small and medium-sized farms.

New Generation Pro
The new generation Pro series has been designed for maximum resistance and durability. Many details provide greater structural capacity starting from the drawbar up to the rear axle. The ground clearance has been increased to allow optimum product flow.

New AS Pro version
The new AS version (SELF-STEERING) differs from the standard version for its excellent manoeuvrability behind the tractor thanks to the new self-directional rear axle that allows the rake to follow the tractor perfectly, easing tight manoeuvres at the end of a field, in bends and facilitating access to plots with narrow entrances. The AS version further improves the performance of the rake on sloping terrains.
Center Wheel Kit K2H - New hydraulic device (optional)
A unique system in the rake field with central windrow. The kit makes it possible to move the hay under the windrow that would otherwise not be touched. The device is hydraulically operated together with the side wheels lift. The kit can be disengaged whenever not required.

Steering bar with 90° angle
Standard version (A): the original machine with straight drawbar can be fitted with a steering bar so as to allow manoeuvres with a tight turning radius. No modifications are needed to the hydraulic system.
AS versions (B): The machine includes a hydraulic system for automatic handling of the steering system. The drawbar has category I and II oscillating hitches that allow a perfect performance on slopes.

Self-steering device on AS versions
Hydraulically driven with closed circuit, the rake follows the tractor perfectly, no matter what the conditions are, giving excellent manoeuvrability and good stability on slopes. On standard versions, rear wheels are not-pivoting.

Quick and easy adjustments
For a quality raking and for adapting the windrow volume to different pickup machinery:
A The windrow width can be adjusted independently from the working width, from 0.90 up to 1.80 m using a simple crank that varies the working angle of the last 2 finger wheels.
B The working width is hydraulically adjusted from the cab (from 3.50 m to 7.60m V14) to adapt the raking depending on the needed windrow size. The adjustment also allows overlapping of the finger wheels to be increased so as to avoid missing out on particularly short forage.
C The pressure of the finger wheels is adjusted by means of a suitable crank, which varies the pressure of the fingers on the terrain in relation to the conditions of the terrain and the forage to be collected (e.g.: silage = More pressure, hay = less pressure).

Transport
Thanks to the hydraulic opening/closing system, it is quick and easy to pass from working to transport position. The overall dimensions of only 2.50 m in transport width and reduced height make the RAPTOR PRO series safe and easy to transfer on roads as well as through tree-lined roads.
The Professional solution

Dominator V12 and V14 Pro with central windrow combine working comfort and top performance with working widths from 4 m up to 7.50 and 8.50 m. Fielding is quick and easy; adjustment of the working width is hydraulically operated and is performed from the driver’s cab. There are many farmers and contractors who have chosen the Dominator Pro for its ease of use, low maintenance and high performance for all types of forage including heavy forage (silage) with the result of obtaining a homogeneous and clean windrow without loss of leaves and integral as far as its nutritional values are concerned. The Dominator Pro Series is designed for heavy use. The new sturdy V-frame ensures high working speeds (over 15 km / h) and large collection performance (12 ha / hour).

Perfect adaptation to the ground

The target of all operators is to achieve maximum efficiency by improving the daily yield without compromising a quality product. The Dominator Pro Series with its 4 large rubber wheels, central frame with telescopic structure, fully articulated side frames and independent finger wheels guarantee a perfect adaptation to any type of terrain and a clean forage, without compromising speed of conduction. When there is particularly difficult terrain 2 additional supporting wheels can be applied to the side frames of the rake to further improve adaptation to the ground (optional).
Enhanced performances on Pro 2

- The drawbar and beams have been oversized in order to allow intensive speed work.
- The ground wheel’s hubs are reinforced.
- The rotative movements of the pivoting wheels are smoother thanks to the new disc brake system with friction limiter, which permit road trips and the opening/closing of the machine with great ease (1).
- New safety lock system, optional, for the transport position, activable from the cabin of the tractor (2). Switching from working to transport position is, as well, completely automatic and done from tractor’s cabin.
- With SHA+ auto-steering system is possible to adjust the reactivity of self-steering system. The cylinder on the extremity of drawbar controls the one on the rear of the rake, so the machine follows exactly the tractor’s path (3).

“Pantograph” opening system

Tonutti has developed the “pantograph” concept on the opening/closing system, which allows:
- to change anytime the working width.
- a better longevity: the stability of the side frames and the forces acting on them are better balanced on a triangular shape.
- a better maneuverability, as the length of the machine while working is decreased to 1.7 m, its agility is increased.

Quick and easy adjustments

For a maximum quality raking and for adapting the windrow volume to any pick-up machinery:

A The windrow width can be adjusted independently of the working width, from 1.10 up to 1.80 m using a simple crank that varies the working angle of the last 2 finger wheels.

B The working width is hydraulically adjusted from the cab to adapt the raking depending on the needed windrow.
The adjustment also allows overlapping of the finger wheels to be increased so as to avoid missing out on particularly short forage.

C The pressure of the finger wheels is adjusted by means of a crank, which varies the pressure of the fingers on the terrain in relation to the conditions of the terrain and the forage to be collected (e.g.: silage = More pressure, hay = less pressure).
Top of the range

Thanks to its construction principle, the Millennium series has definitely solved the problem of “large widths.” The Millennium Pro Series rakes combine comfort and high performance level, thanks to a working width of 9.60 m (V16) up to 11.70 m (V20) in a single run. Efficiency and raking quality combined with high working speeds (over 20 km / h) will increase your productivity.

The new challenge: more work and less expense

This is the ideal machine for any operator who always want to get the best production output, but paying attention to optimize on machinery and working time. The Millennium Pro has been tested by our customers and business partners, who have certified the reliability and quality in all working conditions and on different types of product: hay, heavy forage and straw so you can be sure to make the right investment.
“Pantograph”
Tonutti has developed the "pantograph" concept on the opening system, which allows:
- to change anytime working width.
- improved longevity: forces are better distributed on side frames with the triangular-shaped structure.
- great handling, length of machine is reduced so it's easier to be conducted.

Strengthened frames and performances
- Side frames and drawbar of models V18 and V20, enlarged and strengthened, are equipped with Flex-Frame (A) articulations, which allow the machine to adapt perfectly to irregularities of terrain.
- A new disc brake system with friction limiter (B) has been mounted on the pivoting wheels, so conduction of the machine on the road is easy and smooth.
- The stoutness of the frames make the machine perfect for hard working conditions.

Maximum driving comfort
The switch from working position to transport position is completely automatic and operated from tractor's cabin. Despite the considerable working width, the rake width in transport position is only 3 m, granting a safe and easy transfer from one plot to another as well as on roads.

New blocking system (option)
Passing from the field to the road without leaving the tractor seat is a save of time. Thanks to this hydraulic system, locking and unlocking of side frames is totally automatic.

Self-steering system, « SHA+ »
The new self-steering system allows the steering incidence to be varied and thereby guarantee excellent manoeuvrability under any working or transport condition. The twin rear wheels reduce the ground pressure and allow continuously even with a flat wheel.

Following perfectly terrain
With high speed of conduction and great working width, stability is essential for a good raking quality. Millennium is equipped with twin wheels on its rear side and with wide wheels on the side frames.
New HEAVY CROP finger wheel (optional)

A new profile of the finger wheel, designed to optimize the raking capacity of heavy forage such as silage or corn stalks; double universal flange to increase the sturdiness and to allow mounting on both sides of the rake (optional).

EASY JUST system (optional)

Thanks to this kit, regulation of finger wheels pressure on the ground can be easily made from tractor’s cabin; the crancks at the end of lift tubes are replaced with two (for V16) or four (V18-24) cylinders which are operated by tractor’s electric system.

Spare tyre kit (optional)

All Tonutti V-rakes have an optional spare tyre kit so that the tyre can be changed quickly. Only a small investment to save time.
Dominator and Millennium Pro

Professional machinery with central windrow and self-steering device

- 4 models in the Millennium Pro series covering a working width from 9.60 m to 13.80 m
- 2 models in the Dominator Pro series covering a working width of 7.50 and 8.50.

T Series

Multi-functional in-line machinery with side windrow

- 2 models in the T-3GW series covering a working width of 4.10 m and 6.05 m
- 2 models in the T-4GW series covering a working width of 7.50 m and 8.50 m.

RAPTOR Pro Series

Low cost machines with central windrow

- 2 models in the V 10 Pro series with 2 and 4 rubber tyres, respectively, covering a working width of 5.85 m
- 1 model in the V 12 Pro series with 4 rubber tyres and a working width of 6.73 m
- 1 model in the V 14 Pro series with 4 rubber tyres and a working width of 7.62 m.

Position of the ranges

Min-max tractor hp
### RAPTOR

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<tr>
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<th>V10-2GW</th>
<th>V10-Pro</th>
<th>V12-Pro</th>
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<td>Working width m (feet)</td>
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<td>7,62 (25'5&quot;)</td>
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<td>Windrow width cm (feet)</td>
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<td>Transport width m (feet)</td>
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**Optional**

- Center wheels kit: na • • • •
- Wind shield: • • • •
- Light kit: • • • •
- Tandem wheel kit: • na • na
- Spare tyre kit: • • • •
- Ballast kit: • • • •

na: not available

### DOMINATOR

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<td>Finger diameter mm</td>
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**Optional**

- Center kicker wheels kit: • • • • • •
- Wind shield: • • • • • •
- Front additional wheels kit: • • • na na na
- Spare tyre kit: • • • • • •
- EASY JUST kit: na na • • na
- Hydraulic automatic closure kit: • • • • • •

na: not available

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