TAMA Round Module Wrap (RMW™) for JD 7760 Cotton Picker

RMW™ with Z-LOCK™ wrap portions
John Deere 7760 Cotton Picker

The new 7760 Cotton Picker extends John Deere’s lead in cotton harvesting technology. This revolutionary cotton picker simplifies the system, improves productivity through non-stop harvest, and provides greater value to producers and ginners.

Value drivers include:

- Non-stop harvesting
- Labor & equipment saving
- More power
- Weather resilience
- Ginning advantages

On-board module builder - The 7760 round module builder forms cotton into a round module, and wraps it automatically with the Tama RMW™, providing superior weather protection and transportation flexibility.

The Tama RMW™ is a special wrapping material with a unique design which was developed specifically for the 7760. It provides durable protection which will last through tough weather conditions while maintaining the quality of cotton.

The Tama RMW™ is much more than “just film”. It is loaded with many features to guarantee non-stop harvesting.
Tama RMW™ design

The Tama RMW™ with Z-LOCK™ wrap portions is designed:

- Specifically for the JD 7760 to assure reliable automatic packaging, for non-stop harvesting
- To maintain the quality of cotton in round modules that are exposed to extreme conditions
- To identify the module with a unique RFID identification system - that can track the module from the field to the gin
- To minimize waste
Operational Procedure

The step of the process are:

1. Five rolls of individual 24 wrap portions each, are manually loaded by two people onto the JD 7760 picker. (figure 1)

2. The wrap is threaded into the JD 7760 picker.

3. The wrap portion is fed around the module by the feeding mechanism.

4. The wrap portion separates from the roll.
5. The Z-LOCK™ system is activated to secure the tail of the wrap.

6. The round module is ejected from the JD 7760 picker to the handler while continuing to pick. (figure 2)

7. The round module is placed at the end of the row. (figure 3)
8. The round modules are gathered in groups. (figure 4)

9. The round modules are transported to the gin for processing. (figure 5 and 6)
Tama RMW™ Features

1. The Tama RMW™ Z-LOCK™ wrap portion concept: Tama RMW™ is made of pre-cut wrap portions in order to eliminate the danger of plastic fragments.

2. Structure of the wrap portion: Every wrap portion is made of two segments:
   a. The 1st layer is a non-tacky film with particular properties which prevent cotton from sticking to the wrap. (figure A)
   b. The 2nd and 3rd layers are a special formulated film which is tacky on one side only. (figure B)

   The combination of these two types of film ensures that the round module will hold its uniformity for transport and processing, and will not attract dirt and dust from the surroundings.

3. The Z-LOCK™ system secures the tail of the wrap portion in tough conditions and assures the next wrap portion is ready to be fed properly. (figure C)
4. **Tapered wrap portion structure:** The leading edge and the tail of the wrap portion are tapered to insure proper feeding and maximize the durability of the tail in windy conditions (figure D).

5. **Over the edge coverage:** Wrap goes over the edge to minimize cotton waste and exposure to rainfall (figure E), and holds tight the shoulders of the round module (see enlarged detail).

6. **Radio Frequency IDentification (RFID):** Every wrap portion includes 4 RFID tags to track the individual module through harvesting and processing, all integrated with the electronics system of the 7760.

7. **Identification:** Each roll has its own ID number located both inside the core (figure F), and on the roll.

8. **Plastic core:** Every core is marked to assist correct installation: a left indicator marked in blue on the core and a label inside the core (in the direction of travel) (figure H).

9. **UV protection:** The Round Module Wrap is UV protected and designed to last 6 months on the round module.

10. **Recyclable:** The Round Module Wrap is recyclable.
Handling Recommendations

• HANDLE ONE PALLET AT A TIME
• Recommended lift capacity: 4,400 lbs (2 tons) and up
• USE LONG FORKS WHEN HANDLING PALLETS from its narrow end to minimize damage
• Fork length: 6 ft. 6 in. (2m), width of each fork: 5.5 in. (14cm), height of fork: 2.36 in. (6cm)
• USE PALLET PULLER when unloading from truck
• Pallet pullers available from material handling supply houses

• Wrap can be punctured and torn by improper handling
• Wrap can be damaged by careless handling
• Wrap can be punctured and torn by aggressive loading and unloading procedure
• Make sure that all sharp edges and protrusions on hauling equipment are eliminated
Gin Solution

Storage:
The round modules are stored at the gin storage area in the same way as conventional modules.

Handling:
The round modules are loaded on the gin conveyer using appropriate equipment (figure 1 & 2).

Stripping:
The wrap is stripped from the round module by several different methods, depending on the size of the gin and its process (figures 3, 4 & 5).

Recycling:
The Round Module Wraps are compressed and can be sold to recyclers in the area, an extra income for the gin. (figure 6)

- Eliminates the constant maintenance and cost of the tarp. A savings in the production cost of the ginning process.
- Many solutions, from manual to fully automatic, are available to the gin to enhance the adaptation to Round Module package system.
RMW™ Palletizing

- Handling and storage instructions provided on each pallet
- End protectors on both ends of the pallet
- Pallet cradles that stabilize the RMW™ rolls on the pallet
- Bubble wrap for extra protection

Technical Information

<table>
<thead>
<tr>
<th>Roll size:</th>
<th>24 wrap portions per roll</th>
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</thead>
<tbody>
<tr>
<td>Wrap Portion Thickness:</td>
<td>75 micron</td>
</tr>
<tr>
<td>Wrap portion width:</td>
<td>106 in. (2.70 meters)</td>
</tr>
<tr>
<td>Wrap portion length:</td>
<td>69 ft. (21 meters)</td>
</tr>
<tr>
<td>Roll weight:</td>
<td>Appx. 220 lbs (100 kg)</td>
</tr>
<tr>
<td>Roll diameter:</td>
<td>10 in. (25 cm)</td>
</tr>
<tr>
<td>Rolls per pallet:</td>
<td>9 rolls per pallet (216 wrap portions)</td>
</tr>
<tr>
<td>Core Dimensions:</td>
<td>9 ft. 2 in. (2.8 meters)</td>
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</tbody>
</table>
Handling & storage instructions provided on each pallet.
Improper handling of the RMW™ will cause damage to the round module.

* The production process and quality manual are fully audited by John Deere.
  For further pricing and supply programs see your local JD dealer.

 Manufactured by Tama Plastic Industry the Crop Packaging specialist,
 the exclusive producer of John Deere CoverEdge™ and Tamanet™.

 * The RMW™ with Z-LOCK™ wrap portion is a patented product:
   U.S. Patent No. 6,787,209 ; U.S. Patent No. 7,541,080
   Australian Patent No. 2005300259 ; Australian Patent No. 2003292463
   Patent pending: Brazil

 * RMW and Z-LOCK are trademarks of Tama Plastic Industry.

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