Year End Discount

10% CASH DISCOUNT ON ALL EQUIPMENT
(ON ORDERS PAID BY 12/31/19)
8% CASH DISCOUNT ON ALL PRODUCTS
(ON ORDERS PAID BY 1/6/20)

Discount for credit card purchases are 2% less than above
Our Mission:

The mission of Robert Marvel Plastic Mulch, LLC is to provide the best plastic mulch, drip irrigation tape, equipment and supplies on the market. Robert Marvel Plastic Mulch, LLC will continue to dedicate ourselves to bringing our customers the highest quality products at the most competitive prices with the best service possible. We are farmers too, we know these products perform!

We here at Robert Marvel Plastic Mulch, LLC wish all our customers a happy and prosperous growing season!

Thank you for your continued support.

Sincerely,

Michael R. Marvel
Robert Marvel Plastic Mulch, LLC
Terms and Conditions Page:

Shipping Information: We ship UPS daily as well as motor freight.

Pick up: Please call in advance if you plan on picking up your order.
This way we can have it ready for you when you arrive.

Payment Terms: We accept Cash, Checks or the following Credit Cards:
Visa, Mastercard & Discover.

No COD’S or Charge Accounts

Returns: No merchandise may be returned without authorization from our office. Merchandise must be
returned within 30 days of purchase date and all returns are subject to a 10% restock fee.

Quantity Discounts Available.

Year End Discount: 10% CASH DISCOUNT ON ALL EQUIPMENT
(ON ORDERS PAID BY 12/31/19)
8% CASH DISCOUNT ON ALL PRODUCTS
(ON ORDERS PAID BY 1/6/20)
DISCOUNT IS 2% LESS FOR PAYMENT BY CREDIT CARD

Normal Business Hours: Monday – Friday 8:30 AM – 5:00 PM (EST)

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

717-838-0976 TEL
717-838-0978 FAX
ROBERTMARVEL.COM
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Degradable saves time and money. It lays down just as well as the regular plastic but at the end of the season you don't break apart. Time length of degradation varies and depends on climate, cloud cover, intensity of the sun and chemical usage. Corn grown under clear plastic can be harvested as much as two to three weeks earlier, versus corn grown on bare ground. No guarantee on BREAKUP TIME.

### Smooth Plastic

Our high quality smooth plastic is made from 100% virgin resin. This film has a high tensile strength which allows for easy installation and removal. These prices are for a true 1 mil film not an equivalent.

### Pricing

<table>
<thead>
<tr>
<th>Black</th>
<th>Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 mil</strong></td>
<td><strong>1 mil</strong></td>
</tr>
<tr>
<td><strong>1-15 rolls</strong></td>
<td><strong>1-15 rolls</strong></td>
</tr>
<tr>
<td>5 ft x 2,000 ft</td>
<td>6 ft x 4,000 ft</td>
</tr>
<tr>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>6 ft x 2,000 ft</td>
<td>Call</td>
</tr>
</tbody>
</table>

See Embossed Black for 3’ x 4’ widths  
See Embossed Clear for 4’ & 5’ widths

### Clear Photo-Degradable Smooth

Degradable saves time and money. It lays down just as well as the regular plastic but at the end of the season you don’t have to pick it up. The sun will start to break the material down over time. It will first start to become brittle and then break apart. Time length of degradation varies and depends on climate, cloud cover, intensity of the sun and chemical usage. Corn grown under clear plastic can be harvested as much as two to three weeks earlier, versus corn grown on bare ground. No guarantee on BREAKUP TIME.

<table>
<thead>
<tr>
<th>Clear Degradable .8 mil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ideal for sweet corn</strong></td>
</tr>
<tr>
<td>5 ft x 4,000 ft . . . . . . . . . . . . Call</td>
</tr>
</tbody>
</table>
Eco-One Oxo-Degradable Plastic Mulch:

Benefits of Eco - One Oxo - Degradable Plastic Mulch
- Saves you time and money - completely degradable so there is no pick-up or disposal - no labor, no cleanup and no landfill.
- Eco-One has all the benefits of regular mulch such as increased yields, easy installation, earlier harvest, soil warming, weed control and moisture retention.
- Environmentally sound degradation: Laboratory studies indicate that this degradable plastic breaks down into CO2, H2O and biomass without toxic residues.
- Degradates fully both above and below the soil.
- Eliminates pickup and disposal costs.

Laying the Film in the Field
- Generally this film can be laid in the field in the same way as a conventional film
- Avoid excessive tension when laying the film as Eco-One oxo-degradable mulch film may be thinner than other mulch films you are accustomed to using
- Determine proper tension for your equipment by first laying a small amount of Eco-One oxo-degradable mulch film; and then periodically check while laying to ensure that tension is not excessive.
- Avoid other mechanical stress which can alter the rate of degradation (i.e. do not walk on the film; avoid flapping from wind by adding soil as needed at points along the film)
- When planting, perforating with an O-shape is preferable over a T or Y-shape to limit the risk of the mulch film prematurely splitting
- For best results, plant through the film immediately (preferably within a couple of days of laying it as the degradation process is accelerated once the film is laid)
- Lay Eco-One oxo-degradable mulch film over soil that is well worked and sufficiently free from clumps, stones etc. to avoid punctures of the film
- Initially, disc or rotovate on a slight angle across the lines of planting to break the buried strips into about 2-inch size scraps which will continue to degrade
- A rotating tool with L-shaped blades will allow cutting the buried strips without tangling in the blades

FIRST YEAR USE OF THIS FILM SHOULD BE TO TEST ITS PERFORMANCE IN YOUR SPECIFIC REGIONAL CONDITIONS BEFORE USING ON A LARGE SCALE

USE OF THIS FILM MAY REQUIRE ADJUSTMENTS TO FARMING PRACTICES FOR YOUR PARTICULAR CROPS

ANY LIABILITY OF THE MANUFACTURER IS LIMITED TO PRODUCT DEFECTS TO THE EXTENT OF THE VALUE OF THE FILM

Black
48” x 8,000 ft . . . .5 mil. . . . . . Call
54” x 8,000 ft . . . .5 mil. . . . . . Call
60” x 8,000 ft . . . .5 mil. . . . . . Call

Clear Short Life for Sweet Corn
48” x 9,000 ft . . . .4 mil. . . . . . Call
54” x 9,000 ft . . . .4 mil. . . . . . Call
60” x 9,000 ft . . . .4 mil. . . . . . Call
# Embossed Plastic

![Berry Logo]

## Embossed Plastic Advantages

1. Our Embossed plastic lays extremely well with very few machine adjustments. You can lay it at higher speeds.
2. Our Embossed plastic has superior elasticity with a built-in memory that hugs the bed tighter than smooth or cold post embossed films. This material will not flop in the wind.
3. This hot cast film is extremely strong and elastic in all directions. In turn it sticks to the bed and will not allow heat to escape.
4. Our Embossed is more opaque than like gauges of blown or smooth films. This translates into better weed suppression and more evenly dispersed temperature control.
5. This material has a superior field life and is easy to pick up at the end of the season.

## Photo - Degradable Embossed

Call for Availability

### Black

<table>
<thead>
<tr>
<th>1 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
<th>1.25 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 ft x 4000 ft</td>
<td>Call</td>
<td>Call</td>
<td>4 ft x 4,000 ft</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>4 ft x 2400 ft</td>
<td>Call</td>
<td>Call</td>
<td>5 ft x 4,000 ft</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>4 ft x 4000 ft</td>
<td>Call</td>
<td>Call</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 ft x 2400 ft</td>
<td>Call</td>
<td>Call</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 ft x 4000 ft</td>
<td>Call</td>
<td>Call</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Clear

<table>
<thead>
<tr>
<th>1 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
<th>1 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ft x 4000 ft</td>
<td>Call</td>
<td>Call</td>
<td>5 ft x 4000 ft</td>
<td>Call</td>
<td>Call</td>
</tr>
</tbody>
</table>
**Red Embossed**

Red is primarily used on tomatoes for an early harvest. Test results show red plastic increases yield on tomatoes because the red light that is reflected forces more compact growth and early flowering. Some studies also suggest red plastic can reduce the occurrence of early blight. Eggplant have also shown increased yields when grown on red. A herbicide is recommended but not necessary when using red plastic.

<table>
<thead>
<tr>
<th>1 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
</tr>
</thead>
<tbody>
<tr>
<td>4’ x 4000’</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>5’ x 2400’</td>
<td>Call</td>
<td>Call</td>
</tr>
</tbody>
</table>

**Thermic Green Embossed**

Don’t buy just any green tinted film. Thermic green mulch film from Berry Plastics is a special formulation using two additives to increase the yield on your cucurbit and other heat loving crops. The first additive traps the heat in the soil and not the plastic while the second blocks weed growth by inhibiting germination. Test result showed an average 35% increase in cantaloupe yield over a three year period. Watermelons, cucumbers and zucchini also benefit from green. A herbicide is recommended but not necessary when using green plastic.

<table>
<thead>
<tr>
<th>1 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
</tr>
</thead>
<tbody>
<tr>
<td>4’ x 4000’</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>5’ x 2400’</td>
<td>Call</td>
<td>Call</td>
</tr>
</tbody>
</table>

**White On Black Embossed**

Primarily used for a “cooling” effect. The white surface is laid up to reflect heat away while the black surface is laid down to prevent weed growth. Great for lettuce, cauliflower, and broccoli.

<table>
<thead>
<tr>
<th>1 mil</th>
<th>1-15 rolls</th>
<th>16+ rolls</th>
</tr>
</thead>
<tbody>
<tr>
<td>4’ x 4000’</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>5’ x 4000’</td>
<td>Call</td>
<td>Call</td>
</tr>
</tbody>
</table>

* Test results are not a guarantee of performance or increased yields. Informational purposes only.
**Metalized Reflective Mulch**

This highly reflective fully metalized surface creates reduced insect populations which in turn can help limit disease. This metalized on black smooth film also creates cooler soil temperatures as well as maintaining a more even soil temperature. The increased lighting helps promote larger plant size and density which can lead to increased yields.

**Metalized Reflective Mulch**

1 mil .......... 1-15 rolls ...... 16+
4’ x 4000’ ........ Call ........ Call
5’ x 4000’ ........ Call ........ Call

---

**Perforated Row Cover**

Used with wire hoops to create tunnels and a mini greenhouse effect. This system can help plants grow faster to produce earlier harvest. The Clear is used for maximum heat while the White is a little cooler.

**Clear**

6 ft x 2,000 ft 1.1 mil . . . . Call

**White**

6 ft x 2,000 ft 1.1 mil . . . . Call

**WIRE HOOPS**

Precut and Arched
100 per Bundle
3/16” x 64”
3/16” x 76”
Call For Price

---

**Also Available:** Spring Steel Wire Hoops used for mechanical tunnel layers. These hoops are STRAIGHT and are NOT ARCHED.
Floating Row Covers

GROW GUARD UV is a non woven spun bonded polypropylene. It is easy to handle, UV stabilized and porous to air and water. GROW GUARD UV is a great tool used to create earlier harvest as well as to protect late harvest. GROW GUARD UV can also protect your crops from damaging insects. Give your crops the protection they need by covering them with GROW GUARD UV Row Cover.

Row Cover Bags

6 mil Plastic Bags
To Anchor Cover
12” x 24” UV Treated
Fill with Sand or Soil
Case of 250 ............$85

Long Life Row Cover Anchor Bag

• 15 Year Life Span
• 28” x 11”
• Handle on Top
• Built in Bottom Tie Off
• UV Stabilized

$1.25/ Each Bag
(Sold in bundles of 50)

Gro-Guard UV®
Custom made sizes to fit your field.

0.6 Oz /Sq Yd

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>6ft x 500ft</td>
<td>$55</td>
</tr>
<tr>
<td>7ft x 1000ft</td>
<td>$135</td>
</tr>
<tr>
<td>15ft x 1000ft</td>
<td>$225</td>
</tr>
<tr>
<td>35ft x 1000ft</td>
<td>$495</td>
</tr>
<tr>
<td>50ft x 500ft</td>
<td>$395</td>
</tr>
<tr>
<td>7ft x 2000ft</td>
<td>$225</td>
</tr>
<tr>
<td>50ft x 1000ft</td>
<td>$750</td>
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</table>

Custom made row covers available up to 50’ wide at no additional cost.

No less than 500’ in length.

Available in the following weights .5oz., .6 oz., 1.0 oz., 1.2 oz., 1.5 oz., 1.8 oz., & 2.0 oz. / Sq Yd
Product Description
Bowsmith's famed NonStop emitter family is known worldwide for unmatched performance under the most challenging conditions. The “NonStop” design features the exclusive Continuous Flushing Action, which continually flushes the emitter of slime and small particles while the emitter is in operation. This means fewer clogs and lower maintenance requirements.

Bowsmith NonStop Series Emitters incorporate a series of flexible silicone orifices. The silicone is highly resistant to chlorine and most commonly used fertilizers. Each orifice retains its shape and performance for years.

The Bowsmith difference:
BEST AGAINST CLOGGING

- REDUCE FILTRATION COST
- REDUCE MAINTENANCE
- REDUCE PLANT LOSS
- OPTIMIZE YIELDS

How it works
1. Under normal conditions, there is a slight pressure differential across each orifice in the silicone diaphragm.
2. As a particle encounters the orifice, there is a momentary obstruction, causing the differential pressure across the orifice to increase greatly. This pushes the particle through the expanding orifice.
3. The particle is then flushed through the orifice, which instantly returns to its normal size. Normal pressure conditions are restored. The particle continues through the remaining orifices in the diaphragm and out of the NonStop emitter.

NonStop Drip Emitters
Nominal Performance

<table>
<thead>
<tr>
<th>Flow, GPH (LPH)</th>
<th>0.6</th>
<th>1.0</th>
<th>2.0</th>
<th>3.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure, PSI (bars)</td>
<td>10 (0.69)</td>
<td>15 (1.03)</td>
<td>20 (1.38)</td>
<td>25 (1.72)</td>
</tr>
<tr>
<td>0.6 GPH Models*</td>
<td>0.6</td>
<td>1.0</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>1.0 GPH Models*</td>
<td>1.0</td>
<td>1.4</td>
<td>2.6</td>
<td>3.8</td>
</tr>
<tr>
<td>2.0 GPH Models*</td>
<td>2.0</td>
<td>3.4</td>
<td>6.8</td>
<td>11.4</td>
</tr>
</tbody>
</table>

Notes
- Manufacturer’s variation, C.<0.05
- 30-mesh filtration and 15 PSI emitter operating pressure are the recommended minimums for a NonStop emitter system.

0.6 . . . . . . . . GPH . . . . . . Green . . . . . $0.50
1.0 . . . . . . . . GPH . . . . . . Blue . . . . $0.50
2.0 . . . . . . . . GPH . . . . . . Red . . . . $0.50
3.0 . . . . . . . . GPH . . . . . . Yellow . . $0.50
Hole Punch For Non Stop Emitters . . . . . $1.00
**PALRING 146 UV, AF&IR SHINY**

Woven Greenhouse Cover

- **7-year** industry-leading warranty as a bottom layer under Palring 175.
- **4-year** warranty when used as a single layer.
- **Woven** greenhouse cover for all types of cultivation.
- **Extra** strength makes it **hail and tear-resistant** – long lasting.
- **UV** package of additives assures superior performance and long life.
- **IR** additives keep foliar temperature higher in the greenhouse during cold nights.
- **Anti-drip** directs condensation to the cover’s edges, reducing the incidence of fungus and disease.
- **Shiny** finish for increased direct sunlight.
- Can be sewn to insect net and fitted with eyelets.
- Backed by **20 years of manufacturing and engineering experience**.

**Available in Pre Cut Sizes:**
- 24’ x 105’ 146
- 24’ x 155’ 146
- 32’ x 105’ 146
- 32’ x 155’ 146
- 42’ x 105’ 146
- 42’ x 155’ 146
- 48’ x 105’ 146
- 48’ x 155’ 146

**BATTEN STRIPS**
Recommended for Single Layer Application
2” x 300’ ........ $18.00

**PALRING**

The Leader in Woven Greenhouse Covers
PALRING 175 UV, AF&IR SHINY
Woven Greenhouse Cover

- **7-year** industry-leading warranty.
- **Woven** greenhouse cover for all types of cultivation.
- **Extra** strength makes it **hail and tear-resistant** – long lasting.
- **UV** package of additives assures superior performance and long life.
- **IR** additives keep foliar temperature higher in the greenhouse during cold nights.
- **Anti-drip** directs condensation to the cover’s edges, reducing the incidence of fungus and disease.
- **Shiny** finish for increased direct sunlight.
- Can be sewn to insect net and fitted with eyelets.
- Backed by **20 years of manufacturing and engineering experience**.

Available in Pre Cut Sizes:
- 24’ x 105’ 175
- 24’ x 155’ 175
- 32’ x 105’ 175
- 32’ x 155’ 175
- 42’ x 105’ 175
- 42’ x 155’ 175
- 48’ x 105’ 175
- 48’ x 155’ 175

**BATTEN STRIPS**
Recommended for Single Layer Application
2” x 300’........ $18.00
Solarig's premier greenhouse cover — Solarof 182 — is at least 10 times stronger than conventional polyethylene film, providing greater durability and a high percentage of diffused light for increased crop yield. Made of woven plastic, this material carries a six-year warranty and will not tear in wind storms even when punctured.

PRODUCTS AND WARRANTIES
- Solarof 182 AF & IR
  - Six-year limited warranty
- Solarof 156 AF & IR
  - Four-year limited warranty
  - Six-year limited warranty when used as the bottom layer with Solarof 182 AF & IR as the top layer

DIFFUSED LIGHT
- The light transmission of Solarof averages 88 percent, comparable to traditional poly films, and a high rate of diffused light — about 45 percent. Diffused light provides these benefits:
  - Increased photosynthesis and crop yield
  - Reduced burning of plants
  - Greater comfort in the greenhouse
  - Less evaporation and less water used for irrigation

OTHER FEATURES
- An anti-drip coating directs condensation to the edges of the greenhouse and reduces the incidence of fungi and diseases.
- IR additives provide insulating qualities for warmer nights and cooler days in greenhouses.
- UV-blocking agent reduces incidence of pests and disease.
**SOLAROOF 172 AF & IR**

**Recommended For Single**

- **48', 42', 36', 32', 28', 24'**

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; x 300'</td>
<td></td>
<td>$12.00</td>
</tr>
</tbody>
</table>

**Custom Cut Lengths**

**BATTEN STRIPS**

Call For Pricing

**Layer Application**

**Widths Available**

- INFRARED, ENERGY SAVER, AND DRIPLESS

**TUFFLITE IR - 6 MIL - 4 YEAR WARRANTY**

- Striped Every 12 inches For Easy Plant Alignment
- Permeable To Water
- 3.2 oz - 3.3 oz Polypropylene Woven Construction
- Excellent Weed Suppression
- Extremely Strong and Durable

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
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<tbody>
<tr>
<td>14' x 100'</td>
<td></td>
</tr>
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<td>20' x 100'</td>
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<td>24' x 100'</td>
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<tr>
<td>28' x 100'</td>
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<tr>
<td>28' x 150'</td>
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<td>32' x 100'</td>
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<td></td>
</tr>
<tr>
<td>50' x 150'</td>
<td></td>
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</tbody>
</table>

**Custom Sizes Available**

**TUFFLITE IV - 6 MIL - 4 YEAR WARRANTY**

- INFRARED, ENERGY SAVER, AND DRIPLESS

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>14' x 100'</td>
<td></td>
</tr>
<tr>
<td>20' x 100'</td>
<td></td>
</tr>
<tr>
<td>24' x 100'</td>
<td></td>
</tr>
<tr>
<td>28' x 100'</td>
<td></td>
</tr>
<tr>
<td>28' x 150'</td>
<td></td>
</tr>
<tr>
<td>32' x 100'</td>
<td></td>
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<tr>
<td>32' x 150'</td>
<td></td>
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<tr>
<td>36' x 100'</td>
<td></td>
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<tr>
<td>36' x 150'</td>
<td></td>
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<tr>
<td>40' x 100'</td>
<td></td>
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<tr>
<td>40' x 150'</td>
<td></td>
</tr>
<tr>
<td>42' x 100'</td>
<td></td>
</tr>
<tr>
<td>42' x 150'</td>
<td></td>
</tr>
<tr>
<td>48' x 100'</td>
<td></td>
</tr>
<tr>
<td>50' x 100'</td>
<td></td>
</tr>
<tr>
<td>50' x 150'</td>
<td></td>
</tr>
</tbody>
</table>

**Custom Sizes Available**

**POLY PATCH TAPE**

A rugged patching tape for mending greenhouse plastic rips and tears

- 2" x 48' ........................................... $8.00
- 4" x 48' .......................................... $14.00
- 6" x 48' .......................................... $20.00
Black Woven Ground Cover

- Extremely Strong and Durable
- UV Stabilized
- Excellent Weed Suppression
- 3.2 oz - 3.3 oz Polypropylene Woven Construction
- Permeable To Water
- Striped Every 12 inches For Easy Plant Alignment

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>3’ X</td>
<td>300’</td>
</tr>
<tr>
<td>4’ X</td>
<td>300’</td>
</tr>
<tr>
<td>6’ X</td>
<td>300’</td>
</tr>
<tr>
<td>10’ X</td>
<td>300’</td>
</tr>
<tr>
<td>12½’ X</td>
<td>300’</td>
</tr>
<tr>
<td>15½’ X</td>
<td>300’</td>
</tr>
</tbody>
</table>

HEAVY DUTY STAPLES

8” LONG x 1” WIDE H.D. 8 GAUGE

BOX of 500 ................................... $37.00
One of the most recognized and trusted drip tape brands in the world, T-Tape drip tape is used in a variety of crops around the world to helping reduce water consumption, increase crop quality, and increase crop yields.

T-Tape is available in a wide assortment of configurations, including various lengths, wall thickness, emitter spacings and flow rates. Helping growers match individual growing situations with maximum yield benefits.

### Prices

<table>
<thead>
<tr>
<th>MIL</th>
<th>LENGTH</th>
<th>FLOW</th>
<th>SPACING</th>
<th>MAX ROW LENGTH</th>
<th>1-15 ROLLS</th>
<th>16+ ROLLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 MIL</td>
<td>7,500’</td>
<td>.670 GPM</td>
<td>8”</td>
<td>375’ @ 90% EU</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>8 MIL</td>
<td>7,500’</td>
<td>.220 GPM</td>
<td>12”</td>
<td>770’ @ 90% EU</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>8 MIL</td>
<td>7,500’</td>
<td>.450 GPM</td>
<td>12”</td>
<td>490’ @ 90% EU</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>10 MIL</td>
<td>6,000’</td>
<td>.450 GPM</td>
<td>12”</td>
<td>490’ @ 90% EU</td>
<td>Call</td>
<td>Call</td>
</tr>
<tr>
<td>15 MIL</td>
<td>4,100’</td>
<td>.450 GPM</td>
<td>12”</td>
<td>490’ @ 90% EU</td>
<td>Call</td>
<td>Call</td>
</tr>
</tbody>
</table>

**Quantity Discounts Available!**

**Other Flow Rates & Spacing Available**
Bowsmith BigFoot Drip Tape

The largest flow path of any drip tape on the market.

Strength
The biggest turbulent flow path, of footprint, of any drip tape product.

Reliable Performance
Slit outlets help prevent root intrusion. Enhanced turbulent flow path for better emission uniformity.

Cost effective
Save on water and fertilizer costs. Low inlet pressure requirements save on energy costs. Reliable performance for increased yields. Requires only 120 Mesh Filtration and Operates at 8-10 PSI.

Made in the USA!

Call for product information
T-Tape drip tape is one of the most recognized and trusted brands in the world. It is used in a variety of crops around the world to help reduce water consumption, increase crop quality, and increase crop yields.

<table>
<thead>
<tr>
<th>MIL LENGTH</th>
<th>FLOW SPACING</th>
<th>MAX ROW</th>
<th>PRICE 50+</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>.220 GPM</td>
<td>12&quot;</td>
<td>@ 90% EU</td>
</tr>
<tr>
<td>10</td>
<td>.450 GPM</td>
<td>12&quot;</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>.450 GPM</td>
<td>12&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Quantity Discounts Available!

Other Flow Rates & Spacing Available

T-Tape Drip Tape

- 490' @ 90% EU

Drip Line Fittings

- 400B-06-LSO Flat Tube x Drip Line: $0.50 - $0.40
- P6 Flat Tube X Drip Line w/Valve: $1.50 - $1.30
- T2 Tape X Tape Repair Coupler: $0.50 - $0.40
- FCH-06-LSL Dripline Self Flush End: $1.35 Each
- FHC-06-LSO Layflat x Drip Line: $0.90 - $0.70
- FTV5-LF Layflat x Drip w/valve: $1.50 - $1.30
- CPT BV-06-LS Drip Tape Coupler W/ VALVE: $1.50 - $1.30
- TEE-06-LS Drip Line T: $1.30 - $1.10
- FHS-06-LS Garden Hose X Drip Line: $1.25 Each
- Power Loc 1/2” MPT x Drip Line: $0.50 Each
- ELL-06-LS Drip Line L: $1.20 - $1.00
- Flat Tube Punch: $12.00 Each
- Layflat Punch for FHC-06-LS0: $63.00 Each
- LayFlat Punch for FTV5-LF: $63.00 Each

Layflat Punch for FHC-06-LS0

19mm

Flat Tube Punch

16mm
Drip Line Fittings

Goof Plug .5 Barb

- .5 Barb
- $.35

Goof Plug MP-400

- .40 Barb
- $.35

Goof Plug MP-1

- .25 Barb
- $.05

Layflat Goof Plug FHC-06-Plug

- $.80 Each

V19 Dead End for H13 & D3

- $.20 Each

1/4" Supply Tubing Shut Off Valve

- $3.00 Each

1/4" Supply Tubing

- 100' $14.00
- 500' $50.00

Air Vents

- VBK 1" $8.50

CSP 06-LS

- Drip Line x 1/4" Supply Tube
- $1.00 Each

TPA

- 1/4" Supply Tubing x PVC Pipe
- Drill 29/64 Hole in Pipe to Mount
- $.80 Each
Other Fittings Available
Valves Female Threaded

Brass Gate Valve
1” . . . $ 7.50
1.5” . . . $ 14.50
2” . . . $ 24.00
3” . . . $ 66.00

True Union Ball Valve
1” . . . $ 11.00
1.5” . . . $ 19.00
2” . . . $ 25.00
3” . . . $ 67.00
4” . . . $ 133.00

Check Valve
1” . . . $ 11.00
1.5” . . . $ 15.00
2” . . . $ 22.00
3” . . . $ 38.00

PVC Ball Valve
1” . . . $ 4.00
1.5” . . . $ 7.00
2” . . . $ 10.00
3” . . . $ 35.00
4” . . . $ 54.00

Power Loc Fittings For In-Line Tubing

Power Loc Tee
$1.40 each

Power Loc Elbow
$1.10 each

Figure 8 Tubing End Closure
$0.20 each

Power Loc 1/2” MPT x In-Line
$0.50 each

Power Loc Coupler
$0.60 each

Power Loc End Flush Valve
$1.30 each

P6 Flat Tube x 18mm w/ valve
1-49 Pcs . . . $1.50
50+. . . $1.30

Pressure Compensating In-line Drip Tubing
Features
- Unique flow regulating concept: wide effective labyrinth, leading into the flow control chamber, where a sensitive floating diaphragm regulates and maintains a constant flow rate at variable inlet pressure.
- High clog resistance: Dripper’s large intake filter is continuously flushed by the water flow.
- Large cross section on labyrinth.
- Self-cleaning mechanism at the flow regulated water outlet.
- Uniform flows from 7–60 PSI
- Manufactured from durable plastics for long service life.
- Protected against UV degradation.
- Resistant to chemicals and fertilizers commonly used in agriculture.

Recommended Filtration: 150 mesh

Tubing specifications

<table>
<thead>
<tr>
<th>Size Length</th>
<th>O.D. (mm)</th>
<th>I.D. (mm)</th>
<th>Avg. Wall Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 mm</td>
<td>1000’</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.14</td>
<td>(0.045)</td>
</tr>
<tr>
<td>20 mm</td>
<td>1000’</td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.27</td>
<td>(0.050)</td>
</tr>
</tbody>
</table>

Emitter Flow Performance

Manufacturer’s variation (Cv):

- 0.04

Recommended operating pressure: 10–45 PSI

Other flow rates are available

Inline drip tubing is used in a wide range of applications and is designed for multi year use. It is typically used in orchards, vineyards, over top of potted plants like mums, and in nurseries.

<table>
<thead>
<tr>
<th>Size Length</th>
<th>Flow Rate</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 mm</td>
<td>1000’</td>
<td>0.53 GPH @ 10 - 60 PSI</td>
</tr>
<tr>
<td>18 mm</td>
<td>1000’</td>
<td>0.53 GPH @ 10 - 60 PSI</td>
</tr>
<tr>
<td>18 mm</td>
<td>1000’</td>
<td>0.53 GPH @ 10 - 60 PSI</td>
</tr>
<tr>
<td>18 mm</td>
<td>1000’</td>
<td>0.53 GPH @ 10 - 60 PSI</td>
</tr>
</tbody>
</table>
Pressure Compensating In-line Drip Tubing

Features
- Unique flow regulating concept: wide effective labyrinth, leading into the flow control chamber, where a sensitive floating diaphragm regulates and maintains a constant flow rate at variable inlet pressure.
- High clog resistance:
  - Dripper's large intake filter is continuously flushed by the water flow.
  - Large cross section on labyrinth.
  - Self-cleaning mechanism at the flow regulated water outlet.
- Uniform flows from 7–60 PSI
- Manufactured from durable plastics for long service life.
- Protected against UV degradation.
- Resistant to chemicals and fertilizers commonly used in agriculture.
Recommended Filtration: 150 mesh

Emitter Flow Performance

- Unique flow regulating concept: wide effective labyrinth, leading into the flow control chamber, where a sensitive floating diaphragm regulates and maintains a constant flow rate at variable inlet pressure.
- High clog resistance:
  - Dripper's large intake filter is continuously flushed by the water flow.
  - Large cross section on labyrinth.
  - Self-cleaning mechanism at the flow regulated water outlet.
- Uniform flows from 7–60 PSI
- Manufactured from durable plastics for long service life.
- Protected against UV degradation.
- Resistant to chemicals and fertilizers commonly used in agriculture.

Recommended Filtration: 150 mesh

Inline drip tubing is used in a wide range of applications and is designed for multi year use. It is typically used in orchards, vineyards, over top of potted plants like mums, and in nurseries.

Tubing specifications
Made from durable LLDPE material

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Spacing</th>
<th>Flow</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 mm</td>
<td>1000'</td>
<td>24&quot;</td>
<td>.53 GPH @ 10 - 60 PSI</td>
<td>$104.00</td>
</tr>
<tr>
<td>18 mm</td>
<td>1000'</td>
<td>36&quot;</td>
<td>.53 GPH @ 10 - 60 PSI</td>
<td>$95.00</td>
</tr>
</tbody>
</table>

Other flow rates are available
**Hose Clamps**

**Layflat** is a general purpose water discharge hose. It is used primarily as a mainline in drip irrigation systems to transfer water from the source to the field. Layflat can also be used as a submain in which your drip tape is connected directly to it. This material can operate at a higher pressure than flat tube.

**Flat Tube Prices**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>LENGTH</th>
<th>PRICE PER ROLL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Inch</td>
<td>250 feet</td>
<td>$49.00</td>
</tr>
<tr>
<td>1.5 Inch</td>
<td>150 feet</td>
<td>$40.00</td>
</tr>
<tr>
<td>1.5 Inch</td>
<td>600 feet</td>
<td>$120.00</td>
</tr>
<tr>
<td>2 Inch</td>
<td>150 feet</td>
<td>$50.00</td>
</tr>
<tr>
<td>2 Inch</td>
<td>450 feet</td>
<td>$125.00</td>
</tr>
<tr>
<td>3 Inch</td>
<td>200 feet</td>
<td>$130.00</td>
</tr>
<tr>
<td>4 Inch</td>
<td>130 feet</td>
<td>$135.00</td>
</tr>
</tbody>
</table>

**Blue Vinyl Layflat / Flat Tube**

**Blue Vinyl Layflat Prices**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>LENGTH</th>
<th>MAX PSI</th>
<th>PRICE PER ROLL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 Inch</td>
<td>300 feet</td>
<td>80 PSI</td>
<td>$91.00</td>
</tr>
<tr>
<td>2 Inch</td>
<td>300 feet</td>
<td>80 PSI</td>
<td>$106.00</td>
</tr>
<tr>
<td>3 Inch</td>
<td>300 feet</td>
<td>70 PSI</td>
<td>$195.00</td>
</tr>
<tr>
<td>4 Inch</td>
<td>300 feet</td>
<td>70 PSI</td>
<td>$265.00</td>
</tr>
<tr>
<td>6 Inch</td>
<td>300 feet</td>
<td>50 PSI</td>
<td>$465.00</td>
</tr>
</tbody>
</table>

**Flat Tube** is a low pressure tubing used for headlines in drip irrigation systems. Typically operating pressure in a flat tube should not exceed 21 PSI. The use of a pressure regulator is recommended.

**Heavy Duty Bolt Clamps**

Designed for positive sealing on high pressure applications. Stainless steel bands and zinc plated steel screws.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5”</td>
<td>$4.00</td>
</tr>
<tr>
<td>2”</td>
<td>$4.25</td>
</tr>
<tr>
<td>3”</td>
<td>$6.00</td>
</tr>
<tr>
<td>4”</td>
<td>$8.00</td>
</tr>
<tr>
<td>6”</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

**Stainless Steel Clamps**

All stainless steel construction screw driver clamp with 9/16” band.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>$.75</td>
</tr>
<tr>
<td>1.5”</td>
<td>$.80</td>
</tr>
<tr>
<td>2”</td>
<td>$.80</td>
</tr>
<tr>
<td>3”</td>
<td>$1.25</td>
</tr>
<tr>
<td>4”</td>
<td>$1.50</td>
</tr>
<tr>
<td>6”</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

**Box (10) Price**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>$.75</td>
</tr>
<tr>
<td>1.5”</td>
<td>$.80</td>
</tr>
<tr>
<td>2”</td>
<td>$.80</td>
</tr>
<tr>
<td>3”</td>
<td>$1.25</td>
</tr>
<tr>
<td>4”</td>
<td>$1.50</td>
</tr>
<tr>
<td>6”</td>
<td>$2.00</td>
</tr>
</tbody>
</table>
**Premium Plus Tubing**

**Features**
- New and unique resin additive formula.
- Meets or exceeds stress standards of conventional LLDPE tubing.
- Longer SEVEN-YEAR WARRANTY backs it all up.

**General Specifications**
Bowsmith Premium Plus Tubing is fabricated exclusively from a single virgin Linear Low Density Polyethylene (LLDPE) base resin and compounded with a suitable virgin carbon concentrate resin to provide a minimum of 2% carbon black property mixed and dispersed in the finished extrudate.

Premium plus tubing also referred to as orchard tubing is a lateral distribution and supply hose for on line drippers like our Bowsmith Nonstop drip emitter. It can also be used as a header line for small scale drip irrigation systems.

**Premium Plus Tubing**

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” x 500’</td>
<td>$45</td>
</tr>
<tr>
<td>3/4” x 500’</td>
<td>$60</td>
</tr>
<tr>
<td>1” x 500’</td>
<td>$75</td>
</tr>
</tbody>
</table>

See page 9 for Bowsmith Non-Stop Emitters

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**Pressure Regulators**

Pressure Regulators are recommended for all drip systems. Failure to use a pressure regulator can result in water hammer which can damage submains and drip irrigation tape. These regulators are flow activated. Water needs to be flowing through them at a constant rate to make them work.

**Amiad Adjustable Pressure Regulator**

<table>
<thead>
<tr>
<th>Size</th>
<th>GPM</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>5-175</td>
<td>$189</td>
</tr>
<tr>
<td>3”</td>
<td>5-240</td>
<td>$247</td>
</tr>
</tbody>
</table>

**Features**
- Accepts Flows as low as 5 GPM
- Low friction loss design
- Steel body construction with protective coating
- Manual on/off control
- Adjustable 7-87 PSI
In-Line Screen Filters

Our In-Line screen filters are a less expensive alternative to our API screen filters. (See page 28 for API screen filters.) These basic screen filters are used to filter relatively clean water such as water from wells. They are good for filtering sand out of water which can clog irrigation tape. These filters are not recommended for surface water containing algae.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MESH</th>
<th>MAX GPM</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5”</td>
<td>150 Mesh</td>
<td>44</td>
<td>$25.00</td>
</tr>
<tr>
<td>2”</td>
<td>120 Mesh</td>
<td>110</td>
<td>$48.00</td>
</tr>
<tr>
<td>3”</td>
<td>120 Mesh</td>
<td>220</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

Don’t forget your insert fittings

Screen Filter  Disc Filter

In-Line Disc Filters

Disc Filters are used when you need to clean dirty water for drip irrigation systems. These filters can handle more dirt and debris than screen filters before cleaning. The way a disc filter works is a stack of discs are pressed together. These discs have tiny grooves that allow clean water to pass through while trapping the dirt and debris. To clean, remove the stack of discs and wash between them.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MESH</th>
<th>MAX GPM</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4”</td>
<td>120 Mesh</td>
<td>22</td>
<td>$19.00</td>
</tr>
<tr>
<td>1”</td>
<td>150 Mesh</td>
<td>22</td>
<td>$28.00</td>
</tr>
<tr>
<td>1.5”</td>
<td>150 Mesh</td>
<td>44</td>
<td>$39.00</td>
</tr>
<tr>
<td>2”</td>
<td>120 Mesh</td>
<td>110</td>
<td>$55.00</td>
</tr>
</tbody>
</table>

Don’t forget your insert fittings
Eurodrip Disc Filters

These high quality disc filters from Eurodrip are built to last and provide many years of service. The filter’s construction provides easy access to the filter cartridge for cleaning with a smooth action clamp that is easily opened and closed. These disc filters are a true value for the price. Replacement filters are also available.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MAX GPM</th>
<th>MAX PSI</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; Eurodrip Disc Filter</td>
<td>120 Mesh • 132 Max GPM</td>
<td>145 Max PSI</td>
<td>$195</td>
</tr>
<tr>
<td>3&quot; Eurodrip Disc Filter</td>
<td>120 Mesh • 220 Max GPM</td>
<td>145 Max PSI</td>
<td>$225</td>
</tr>
<tr>
<td>Replacement Disc Filter</td>
<td></td>
<td></td>
<td>2&quot; - $75 3&quot; - $155</td>
</tr>
</tbody>
</table>

API Screen Filters

API Spin Clean Screen Filters are one of the best on the market. These filters are used to clean water for drip irrigation systems. They clean well water or relatively clean water. They are very good at filtering sand out of water which can clog irrigation tape. Not recommended for surface water containing algae. Comes with a 150 mesh stainless steel screen.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MAX GPM</th>
<th>MAX PSI</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>API 1&quot; Screen Filter W/ Flush</td>
<td>18</td>
<td>80 psi</td>
<td>$18.00</td>
</tr>
<tr>
<td>1.5&quot; Self Flush</td>
<td>55</td>
<td>150 psi</td>
<td>CALL</td>
</tr>
<tr>
<td>2&quot; T</td>
<td>65</td>
<td>150 psi</td>
<td>CALL</td>
</tr>
<tr>
<td>2&quot; Self Flush</td>
<td>110</td>
<td>150 psi</td>
<td>CALL</td>
</tr>
</tbody>
</table>

Don’t forget your insert fittings
Home Garden Drip Irrigation Kit

This set up is ideal for gardens of a 1/2 ACRE or less with rows less than 500 feet. Comes with easy Installation Instructions.

System Components

1. Garden Hose Adapter
2. 250’ of 1” flat tube used for header line
3. Screen filter
4. Pressure regulator
5. End cap for header line
6. Pressure gauge and stake
7. Punch for header line
8. 10 drip line repair couplers
9. 25 drip line x flat tube shut off valves
10. 10 1” S.S. Clamps
11. 5 Goof plugs for mistakes in header
12. 25 Drip line end sleeves
13. 3000’ of Rivulis T-Tape 10 mil 12”.450 GPM / 100’ Drip Tape

Call for Pricing
Mazzei Fertilizer Injectors

Mazzei’s are a venturi type injector which are very simple to operate. A pressure difference between the inlet and outlet of the injector creates a vacuum inside the body which results in suction. The suction can then be used to inject fertilizer into your drip irrigation system. These injectors are a very inexpensive and reliable way to deliver fertilizer to your crops. Easy installation. Mazzei’s are recommended for consistent flow rates.

Injector comes with check valve, gate valve & flow meter

Mazzei Injector Prices

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MAX INJECTION</th>
<th>FLOW RATE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>3/4” Model 384</td>
<td>10 GPH</td>
<td>2-8 GPM</td>
<td>$110.00</td>
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<tr>
<td>1” Model 484</td>
<td>18 GPH</td>
<td>3-12 GPM</td>
<td>$129.00</td>
</tr>
<tr>
<td>1.5” Model 584</td>
<td>30 GPH</td>
<td>9-50 GPM</td>
<td>$158.00</td>
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<tr>
<td>2” Model 684</td>
<td>30 GPH</td>
<td>9-80 GPM</td>
<td>$185.00</td>
</tr>
<tr>
<td>3” Model 1078</td>
<td>75 GPH</td>
<td>16-180 GPM</td>
<td>$345.00</td>
</tr>
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</table>

Tomato Stakes & Twine

Tomato Stakes

Honduras Pine Stakes Treated & Rot Resistant
Pointed Prices

1”x 1”x 48”  .  .  .  .  .  .  .  .  .  .  . CALL
Full Skid of 1400  .  .  .  .  .  .  .  .  . CALL
1”x 1” x 54”  .  .  .  .  .  .  .  .  .  .  . CALL
Full Skid of 1400  .  .  .  .  .  .  .  .  . CALL

Tomato Twine

White Nylon Twine Used For Tying Tomato Plants To Stakes

3 Lb. 6300 ft Ball  .  .  .  .  .  $7.00/Each
Full Case of 18 Balls  .  .  .  .  .  $6.00/Each
**Equipment Prices (Subject To Change)**

### Plastic Mulch Layers

- **Model 2600 Series II Auto Ro-Trak** ............... 1825 lbs. Shipping Weight ................... $5400.00
- **Model 2600 Series II Manual Ro-Trak** .......... 1775 lbs. Shipping Weight ................... $4800.00
- **Model 2550 Series II Auto Ro-Trak** ............ 1625 lbs. Shipping Weight ................... $4975.00
- **Model 2550 Series II Manual Ro-Trak** .......... 1575 lbs. Shipping Weight ................... $4400.00
- **Model 2400 Mini Layer** ............................ 1025 lbs. Shipping Weight ................... $2850.00

### Optional Equipment for 2600 Series II and 2550 Series II

- Drip irrigation attachment with roll brake
  - For stainless steel down pipe .......................... Add $40.00 ....................... $285.00
  - Double drip irrigation attachment for two drip tapes in one bed .......................... $385.00
  - Center bed filler set ........................................ $175.00
  - Crown raised bed ............................................. $130.00
  - Stainless Steel Dry fertilizer hopper 400 lb. Ground driven w/ speed selection .......... $1900.00
  - Fumigation attachment for weed control ........................................... $500.00

### Optional Attachments for Model 2400

- Drip irrigation attachment with roll brake
  - For stainless steel down pipe .......................... Add $40.00 ....................... $285.00
  - Double drip irrigation attachment for two drip tapes in one bed .......................... $385.00
  - Center of bed fillers ............................................. $110.00

### MODEL 345 Series II Flat Bed Plastic Mulch Layer

- Flat Bed Mulch Layer Model 345 Series II 3ft 4ft or 5ft wide ...................................... $2075.00

**Optional Equipment For Model 345**

- Drip attachment w/ on demand drip roll brake ........................................... $285.00
- Depth wheels to lay clear plastic over sweet corn ........................................... $190.00
- Double drip attachment w/ roll brake ........................................... $385.00

### Challenger 1800 Plastic Mulch Lifter

- Model 1800 Standard Shear Bolt ............... 850 LB. Shipping wt ................... $2250.00
- Replacement plow shears, Left and Right (18” Deep-Suck) .......................... (Set) $48.00
- Replacement disk blades and bolts ............................................. $25.00
- Replacement Side Disk Hub with Bolts ............................................. $68.00
- Replacement wheel, tire, and bearings ............................................. $52.00

### Automatic Reset

- Model 1800 Automatic Reset ....................... 1095 LB. shipping wt ................... $2800.00
  * Heavy duty double spring reset, keeps shears in ground!
  * 8” more clearance between disk and plow shank.
  * No more shear bolts
The Water Wheel Planter can plant up to 4 rows at a time. It will carry 18 trays or 25 with optional top tray. It has two 80 gallon water tanks (total 160 gallons) and quick change water wheel setup. Plants through 60" row centers.

Model 1600 Series II w/ 3 point hitch .................... 1100 lbs. Shipping Weight ........ $2650.00  
Model 1600 Series II w/ 3 point hitch & trailer ...... 1200 lbs. Shipping Weight ........ $2950.00

Optional Equipment

- Top tray in back of tank .............................................. $120.00
- Side ladder to fill tank .............................................. $90.00
- 3rd and 4th seat with double tray shelf ................. $260.00 Each (2)$520.00
- Planter wheels 12", 15", 18", 24", 30", 36", 42", 48", 52", 62", 72" (C Spike) ... $135.00
- Planter wheel 12" D strawberry ................................. $135.00
- Planter wheels Not a Spike C ................................. $160.00
- Planter Wheels under 12" ........................................ $175.00

The compact Model 1200 Water Wheel Planter, Cat I/Cat II, can plant 2 rows at a time. It will carry 10 trays; or with top rack 15 trays. It has two 50 gallon water tanks (total 100 gallons) for better visibility. It features a quick change water wheel setup and adjustable seats on the go. Plants through 62" row centers.

3-Point Planter With One Planting Wheel .... 675 LB. shipping weight .... $1850.00
3-Point & Trailer Combination With One Planting Wheel ... 750 LB. shipping wt. ... $2050.00

Top tray behind tank ............................................... $105.00

### Wheel Spike Sizes

<table>
<thead>
<tr>
<th>Width at top</th>
<th>Length</th>
<th>Base</th>
<th>Snap-on Spike</th>
<th>Pots</th>
<th>Count Tray</th>
<th>Only</th>
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<tr>
<td></td>
<td>2&quot;</td>
<td>4&quot;</td>
<td># A</td>
<td>3&quot;</td>
<td>Count tray</td>
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<td></td>
<td>5 1/4&quot;</td>
<td>3 1/4&quot;</td>
<td># B</td>
<td>2 1/2&quot;</td>
<td>Count tray</td>
<td>$8.00</td>
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<td></td>
<td>4 1/2&quot;</td>
<td>2 1/4&quot;</td>
<td># C</td>
<td>50 to 72 count tray</td>
<td>$4.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2&quot;</td>
<td>4 1/2&quot;</td>
<td># D</td>
<td>3 1/4&quot;</td>
<td>Count tray</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 1/4&quot;</td>
<td>4&quot;</td>
<td># E</td>
<td>96 to 128 count tray</td>
<td>$4.50</td>
<td></td>
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<tr>
<td></td>
<td>1 1/4&quot;</td>
<td>2 1/4&quot;</td>
<td># F</td>
<td>72 to 96 count tray</td>
<td>$4.50</td>
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</table>

<table>
<thead>
<tr>
<th>Single Spikes Per-Wheel</th>
<th>2 1 1 1 1 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Spikes Per-Wheel</td>
<td>1 2 3 4 6 8</td>
</tr>
</tbody>
</table>

### Order Snap-On Spikes Separate

**Super Wheel #24** for snap-on spike #whl-24 Plant Spacing

- 8" 16" 22" 28" 40" 77" without spikes $135.00
- Number of Spikes Per-Wheel
  - 12 6 4 3 2 1

**Super Wheel #26** for snap-on spike #whl-26 Plant spacing

- 6" 12" 17" 31" 45" 86" without spikes $135.00
- Number of Spikes Per-Wheel
  - 18 9 6 3 2 1

**Super Wheel #30** for snap-on spike #whl-30 Plant Spacing

- 5" 10" 14" 19" 27" 35" 51" 98" without spikes $135.00
- Number of Spikes Per-Wheel
  - 24 12 8 6 4 3 2 1

Extra grommet only # grommet..............$0.58
Grommets included free with each super wheel also includes free snap pins to secure spikes if any trouble is experienced with the spikes popping out because of rocks, etc.
New Features

* Heavy Built Machine for large acreage.
* Automatically starts plastic film.
* Manual plastic & drip tape cutters.
* On the go plastic roll change.

* On the go cover disks adjustment.
* Adjustable crowned or flat bed top.
* Shorter, more compact overall.
* Lays only 48” plastic.

Pricing

<table>
<thead>
<tr>
<th>Part</th>
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<th>Price</th>
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<td>#480A</td>
<td>Model 480 with Auto RO-TRAK, 2,250 Lb. shipping weight.</td>
<td>$7,100.00</td>
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<tr>
<td>#480-3ROW</td>
<td>Three row machine with flex hitch Tool Bar</td>
<td>$22,100.00</td>
</tr>
<tr>
<td>#604C</td>
<td>Optional Manual Row Markers For 3-Row Machine</td>
<td>$365.00</td>
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<tr>
<td>#DRIP1</td>
<td>Drip irrigation attachment, with roll brake, for stainless steel down pipe,</td>
<td>$285.00</td>
</tr>
<tr>
<td></td>
<td>add $40.00</td>
<td></td>
</tr>
<tr>
<td>#DRIP2</td>
<td>Double drip irrigation attachment for two drip lines in one bed.</td>
<td>$385.00</td>
</tr>
<tr>
<td>#HYDD</td>
<td>Hydraulic Cover Disk Adjustment</td>
<td>$750.00</td>
</tr>
<tr>
<td>#480-TBO</td>
<td>18” x 6” x 6” Tool Bar Only for three row with Flex Category II &amp; III Hitch</td>
<td>$2,650.00</td>
</tr>
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</table>
Model 2600 Series II Raised Bed Mulch Layer

With Auto Ro-Trak

- Adjustable plastic width from 3 ft wide to 5 ft wide plastic
- Adjustable bed height from 5" to 9" high bed.
- Special rolled bed formers bring fine soil to center of bed where you plant.
- Adjustable tension brake on plastic roll and drip roll carriers
- Rear disc blades are fully adjustable. Can be tilted up or down to knife into soil for better coverage.
- Large independent press wheels keep plastic in place.
- Bed press has adjustable side press plates, for more or less plastic coverage.
- Spring loaded shovels on side, help loosen soil for cover disk.
- Will carry 4000 ft long rolls of plastic mulch.

- High speed dirt shields, adjustable row markers, operator seat, and UHMW poly lined bed press are standard features.
- Optional equipment: drip irrigation attachment, fumigating attachment, crowned bed and dry fertilizer, front disk.

Why raised beds?

- Earlier Crops: Raised beds will make you produce crop earlier due to warmer, better drained soil.
- Cleaner Crops: Crops stay off the ground and are easier to pick. Dirt is not rolled onto plastic if between rows are cultivated.
- Prevent Erosion: Rows should be laid with the field contour.
- Remove Plastic Fast: Plastic pulls away easier from raised beds.

Requires 80-HP or 70-HP with 4-wheel drive.
**Model 2550 Series II Raised Bed Mulch Layer**

*With Auto Ro-Trak*

The 2550 Raised Bed Mulch Layer has most of the same features as its bigger brother Model 2600. The model 2550 is an excellent machine for the small grower and will probably set the standards of mulch layers in the future. Its compact size can do 60” row centers. Requires 70-HP or 60 with 4-wheel drive.

- Adjustable bed height 3” to 7”.
- Will lay 3’ or 4’ plastic mulch.
- Can be used to make beds without plastics.
- Quick change on bed height adjustment.

**Optional Equipment 2550:** Drip irrigation attachment, Crowned bed, Dry fertilizer hopper, and fumigating attachment, front disk.

**Requires 70-HP or 60-HP with 4-wheel drive.**
Model 2550 Series II Raised Bed Mulch Layer

Adjustable bed height 3” to 7”.
Will lay 3’ or 4’ plastic mulch.
Can be used to make beds without plastics.
Quick change on bed height adjustment.
Adjustable tension brake on plastic and drip tape roll carriers.
High speed dirt shields, adjustable row markers, operator seat, and UHMW poly lined bed press are standard features.

The 2550 Raised Bed Mulch Layer has most of the same features as its bigger brother Model 2600. The model 2550 is an excellent machine for the small grower and will probably set the standards of mulch layers in the future. Its compact size can do 60” row centers. Requires 70-HP or 60 with 4-wheel drive.

Optional Equipment 2550:
Drip irrigation attachment, Crowned bed, Dry fertilizer hopper, and fumigating attachment, front disk.
Requires 70-HP or 60-HP with 4-wheel drive.

Model 2400 Mini Layer Raised Bed Mulch Layer

Features
- Will lay 4’ plastic with 58” row spacing.
- Adjustable 3” to 5” bed height.
- Requires minimum 40-hp with 4-wheel drive.
- 50 Gal Water tank to adjust weight to match tractor size.
- Compact machine for high tunnels.
- Adjustable tension break on plastic roll carriers.
- Replaceable, reversible plow share.
- 3/8” & 1/2” UHMW poly lined bed press.
- Category I, 3-point hitch.

Options
- Optional double or single drip applicator.
- Optional center fillers for heavy soils.
Options for Model 2550 & 2600 Plastic Mulch Layers

Stainless Steel Dry Fertilizer Hopper

- Approx. 400 pounds capacity
- Ground drive for consistent fertilizer flow
- Auger has speed selection for proper amount of fertilizer per acre

Stainless steel fertilizer hopper

Fumigating Attachment

Includes:
- Two or three fumigating knives mounted on front.
- Tank holders for two fumigation tanks and one nitrogen tank.
- Mounts on model 2550 and 2600

"Ro-Trak" is a self-steering device for the Model 2550 and 2600 raised bed plastic mulch layers. "Ro-Trak" electronically senses when the machine is not traveling straight and hydraulically makes adjustments to keep it straight and in line with the row while laying mulch. "Ro-Trak" works especially well on hillsides and contours, the most challenging mulch laying conditions. It keeps the covering discs and press wheels accurately positioned on each side of the bed because it stops drifting and off steering of the tractor, eliminating the problem of row to row adjustments by keeping the machine in line with the direction of travel.

"Ro-Trak" is a compact hydraulic rocker arm attached to the 3-point hitch that is activated by a sensor at the back of the machine to counter the sway and control the movement of the machine.

"Ro-Trak" Features
- More uniform and fuller beds.
- Helps prevent mulch from coming loose.
- Faster mulch laying! Not necessary to lay all in one direction on hillsides.

Notice the difference between the Contour Mulch Layer with Ro-Track and Disengaged Ro-Track, Rigid like conventional machines.
**What is Ro-Trak?**

“Ro-Trak” is a self-steering device for the Model 2550 and 2600 raised bed plastic mulch layers. “Ro-Trak” electronically senses when the machine is not traveling straight and hydraulically makes adjustments to keep it straight and in line with the row while laying mulch film.

“Ro-Trak” works especially well on hillsides and contours, the most challenging mulch laying conditions. It keeps the covering discs and press wheels accurately positioned on each side of the bed because it stops the rear of the mulch layer from fish tailing due to side drifting and off steering of the tractor, eliminating the problem of row to row adjustments by keeping the machine in line with the direction of travel.

“Ro-Trak” is a compact hydraulic rocker arm attached to the 3-point hitch that is activated by a sensor at the back of the machine to counter the sway and control the fish tailing of the mulch layer.

**“Ro-Trak” Features**
- More uniform and fuller beds.
- Helps prevent mulch from coming loose.
- Faster mulch laying! Not necessary to lay all in one direction on hillsides.

Notice the difference

**Mulch Layer with Ro-Track**

**Disengaged Ro-Track, Rigid Like Conventional Machines**

**Contour**
Model 345 Series II Flat Bed Mulch Layer

The Model 345 Series II Flat Bed Mulch Layer will lay 3’, 4’ or 5’ plastic. This machine has an independent leveling blade that floats, and a bed press. The specially designed leveling blade does an excellent job in leveling uneven soil. Eliminating low spots in the beds that fill with water. Trench openers are behind the bed press so soil can move away to make the trench.

- Has extra roll carrier.
- Big independent press wheels keep plastic in trench.
- Full open back for fast reloading.
- 16” cover disk with high speed shields.
- Compact machine has cat. #1 3-point hitch.
- Has adjustable row markers.
- Drip irrigation attachment is optional.
- Approximate Tractor Size 35 To 60 HP FWD.
Challenger 1800 Plastic Mulch Lifter

- Will lift plastics from 3ft to 5ft wide with fast and easy adjustments
- Lifting plows uses Standard Case International 18” right and left hand “Deep-suck” Shears.
- To keep from clogging, machine has three spring loaded trash and vine cutting disks. Has depth control wheels for constant depth control.
- Heavy shanks have 5/8” safety shear bolts. Auto-reset is optional.
- Requires minimum 100 HP or 55 HP with 4 wheel drive.

Automatic Reset Lifter

Standard Lifter w/ Shear Bolt
Model 1600 Series II Water Wheel Transplanter

The most versatile water wheel planter for planting vegetables into plastic mulch!!

The **Model 1600 Series II** is a transplanter for setting plugs, pots, or bare root plants through plastic mulch. Here’s how it works. Water from the tank is directed into the center of the planting wheel. The spikes on the planting wheel pierce the mulch and fills the hole with water. Allowing the operators riding close to the row to hand set the plants into the holes at the proper depth. Up to four rows can be planted at a time. Growers are getting nearly 100% stands with this method of planting. There is no need to check plants after planting. Planting wheel can float over uneven bed. Will plant on flat or raised bed.

The standard **Model 1600 Series II** has an 18 tray carrying capacity, (25 with optional top tray). Four slant trays are “self-feeding”, and two large 80 gallon water tanks with a flow control valve that can be controlled by the planters. Fully adjustable seat provide comfort while planting, One Planting wheel is included. A category #2 3-point hitch is standard. Plant spacing wheel are available in a wide selection of sizes. The standard spikes will plant up to 2.5” diameter rd. or sq. pot. Custom spikes can be ordered.

**Compare These Features Before You Buy!**

- Galvanized expanded metal trays; No more rust.
- Specialty Designed tanks so tractors operator can see people planting. Easier to communicate.
- More Water Capacity, Two 80 gallon tanks. (total 160 gallons)
- Quick change water wheel setup.
- Extra wide row spacing from 8” to 36” standard equipment, use one to four planting wheels.
- Less operator fatigue with new lower seat profile.
- Lifetime warranty on UHMW planting wheel bearings.
- Four slant trays is standard equip, optional top tray.
- Full open back, no bar to step across to access planting wheels.
- More leg room, easy foot rest adjustment, no wrench needed for seat height and side adjustment.
- Side valve for washing hands.
- High flow 1” valve necessary for 2-4 rows.
- Larger tires with highway bearings.
- Will plant through 62” row centers.
- Optional side ladder for filling water tanks.
- Requires 70 HP or 50 HP with 4 wheel drive.

---

**Model 1200 Water Wheel Transplanter**

- Compact water wheel transplanter with Category I and II 3- point hitch
- Approximate tractor size: 35 to 60 hp
- Field ready with one planting wheel
- Plants bare roots, pots, and plugs
- Capability of 8” to 16” row spacing and one or two planting wheels (Standard)
- Two 50 gallon water tanks
- 10 tray capacity; 15 with top tray
- Will plant 62” row spacing (minimum)
- Quick change planting wheel setup
- New design seat adjustment, easy on the go adjustment!
- Galvanized expanded metal trays

The compact **Model 1200 Water Wheel Planter**, Cat I/Cat II, can plant 2 rows at a time. It will carry 10 trays; or with top rack 15 trays. It has two 50 gallon water tanks (total 100 gallons) for better visibility. It features a quick change water wheel setup and adjustable seats on the go. Plants through 62” row centers.

**Options**

- Extra top tray
- Trailer 3-point combination
Model 1600 Series II Water Wheel Transplanter

The Model 1600 Series II Water Wheel Transplanter is a transplanter for setting plugs, pots, or bare root plants through plastic mulch. Here’s how it works. Water from the tank is directed into the center of the planting wheel. The spikes on the planting wheel pierce holes at the proper depth. Up to four rows can be planted at a time. Growers are getting nearly 100% stands with this technique.

The standard Model 1600 Series II has an 18 tray carrying capacity, (25 with optional top tray). Four slant trays provide comfort while planting. One planting wheel is included. A category #2 3-point hitch is standard. Plant spacing wheels are available in a wide selection of sizes. The standard spikes will plant up to 2.5” diameter round or square pot. Custom spikes can be ordered.

The most versatile water wheel planter for planting vegetables into plastic mulch!!

• Galvanized expanded metal trays; No more rust.
• Specialty Designed tanks so tractor operator can see people planting. Easier to communicate.
• More Water Capacity, Two 80 gallon tanks. (total 160 gallons)
• Quick change water wheel setup.
• Extra wide row spacing from 8” to 36” standard equipment, use one to four planting wheels.
• Lifetime warranty on UHMW planting wheel bearings.
• Four slant trays is standard equip, optional top tray.
• Full open back, no bar to step across to access planting wheels.
• More leg room, easy foot rest adjustment, no wrench needed for seat height and side adjustment.
• Side valve for washing hands.
• Larger tires with highway bearings.
• Will plant through 60” row centers.
• Requires 70 HP or 50 HP with 4 wheel drive

Compare These Features Before You Buy!

Model 1200 Water Wheel Transplanter

The compact Model 1200 Water Wheel Planter, Cat I/Cat II, can plant 2 rows at a time. It will carry 10 trays; or with top rack 15 trays. It has two 50 gallon water tanks (total 100 gallons) for better visibility. It features a quick change water wheel setup and adjustable seats on the go. Plants through 62” row centers.

Features
• Compact water wheel transplanter with Category I and II 3- point hitch
• Approximate tractor size: 35 to 60 hp
• Field ready with one planting wheel
• Plants bare roots, pots, and plugs
• Capability of 8” to 16” row spacing and one or two planting wheels (Standard)
• Two 50 gallon water tanks
• 10 tray capacity; 15 with top tray
• Will plant 62” row spacing (minimum)
• Quick change planting wheel setup
• New design seat adjustment, easy on the go adjustment!
• Galvanized expanded metal trays

Options
* Extra top tray
* Quick fill (2” quick coupler connection)
* Trailer\3-point combination
3-Row Machines

Model 2600 Series II 3 row machine with flex hitch tool bar .......................................................... $ 16,900.00
Model 2550 Series II 3 row machine with flex hitch tool bar ......................................................... $ 15,700.00
Model 345 Series II 3 row machine with flex hitch tool bar .......................................................... $ 8,400.00
Model 1600 Series II 3 row with tool bar hitch ............................................................................ $ 10,600.00
Optional Quick Fill has Quick Coupler to fill 6 tanks at one time ...................................................... $ 250.00
Manual Row Markers ........................................................................................................................ $ 365.00

Prices Subject To Change
Order Sheet

ROBERT MARVEL PLASTIC MULCH, LLC
2425 Horseshoe Pike
Annville, PA 17003
717-838-0976 Tel 717-838-0978 Fax

Business Name_______________________________________________________________________
Contact Person_______________________________________________________________________
Phone number __________________________ Fax Number _________________________________
Address ______________________________________________________________________________
City ______________________________ State ____________ Zip __________________________

[   ] I want to pick up my order (always call before pickup)
[   ] Please ship my order. We will quote freight prior to shipping.

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Total

8% cash discount until January 6th 2020
2% less for credit card purchases

Discount

Shipping

Grand Total
Typical Drip System Layout

This diagram illustrates the basic layout of a drip irrigation system. This basic design can be expanded to include more or less zones.