

# JRM INC



INNOVATIVE TURF TECHNOLOGY

*Quality Matters*



**2018 Catalog**  
USA MANUFACTURER



*Worldwide Manufacturer of Turfgrass Maintenance Products*  
**GRINDING WHEELS • BEDKNIVES • BLADES • BLOCKS • TINES**





# WE HAVE THE EDGE

## Not All Bedknives are Created Equal

*What makes a JRM DURANIUM-801®  
Bedknife stand above the rest?*

- JRM manufactures all of its DURANIUM-801 bedknives at its home facility outside Winston-Salem, N.C. The JRM team undertakes several steps to ensure the quality and straightness of each bedknife that leaves the JRM facility. The precise machining that goes into a JRM bedknife sets it apart in the industry.
- JRM uses specially designed Non-Standard steel that is unique to the Turfgrass Maintenance industry. The steel is flexible, but durable. This flexibility helps lengthen the life of your reels.
- Every Greensmower and Fairway bedknife comes to the customer 4,000th of an inch straight across the cutting edge making it easier to set up and use immediately.
- JRM bedknives are truer, hold up in top-dressing conditions better, provide a cleaner cut and lengthen the life of your reels.
- JRM offers a full selection of greensmower, fairway and high-cut bedknives.
- JRM's innovation and technology work together to deliver a superior, longer lasting high performance edge over all other brands.

**JRM** Inc.

Innovative Turf Technology

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## NEW for 2018

**Check out JRM on the Internet ([www.jrmonline.com](http://www.jrmonline.com)), Facebook and Twitter**—JRM is constantly updating its website with new information, and you can friend us on Facebook and Twitter to stay updated as well.

**INFINITY tines**—JRM is constantly evolving its INFINITY line. The newly designed line of conventional solid, Bayonet and Quad tines are performing great in the field without any pricking on the greens. Learn more about these tines on page 3 of the catalog.

**FUTURE products**—JRM is planning to unveil a line of INFINITY reels for late 2018. We are currently testing the reels in our regional market of North Carolina, South Carolina and Tennessee. They are made of high-alloy hardened steel to match the hardness of a JRM DURANIUM-801 bedknife. Once testing is complete, we will offer them globally.

Also, we are currently designing 13 new bedknives for late fall of 2018. You can check out our planned future selection of reels and bedknives on page 4 of the catalog.

## JRM Socket Driver Tool

To complement its quality line of DURANIUM-801® Greensmower and Fairway bedknives, JRM, Inc. is offering a bedknife screw tool to fit its Toro®, Jacobsen® and John Deere® screws. The Socket Driver Tool is specifically designed to fit the countersink on all JRM DURANIUM-801® bedknives. The JRM bedknife screw tools feature a superior design and stronger steel than its OEM Counterparts. The tight tolerances and superior design also eliminates the need for hammering and punching the screw to ensure tightness.

JRM will offer 4 screw tools for 2018. The Toro® screw tool will fit all Toro® greensmower, fairway and high-cut screws (4STB050/4STB100). There is a separate greensmower (4JB050/4SJB100) and fairway (4SJF050/4SJF100) screw tool for Jacobsen®, and the John Deere® screw tool is specifically for greensmower (4SDB050/4SDB100) screws only. JRM will have a John Deere® Fairway screw tool ready for 2019.



## JRM Socket Driver Tool

Part No.	JRM Description	FITS	Price
<b>Toro®</b>			
4TGFBD	Socket Driver Tool for Toro® Greensmower and Fairway screws	4STB050/4STB100	
<b>John Deere®</b>			
4DGBD	Socket Driver Tool for John Deere® Greensmower screws	4SDB050/4SDB100	
<b>Jacobsen®</b>			
4JGBD	Socket Driver Tool for Jacobsen® Greensmower screws	4SJB050/4SJB100	
4JFBD	Socket Driver Tool for Jacobsen® Fairway screws	4SJF050/4SJF100	

James. R Merritt  
JRM, Inc. President/CEO



*With God's help we can accomplish great things; without OUR help, HE will do nothing.*

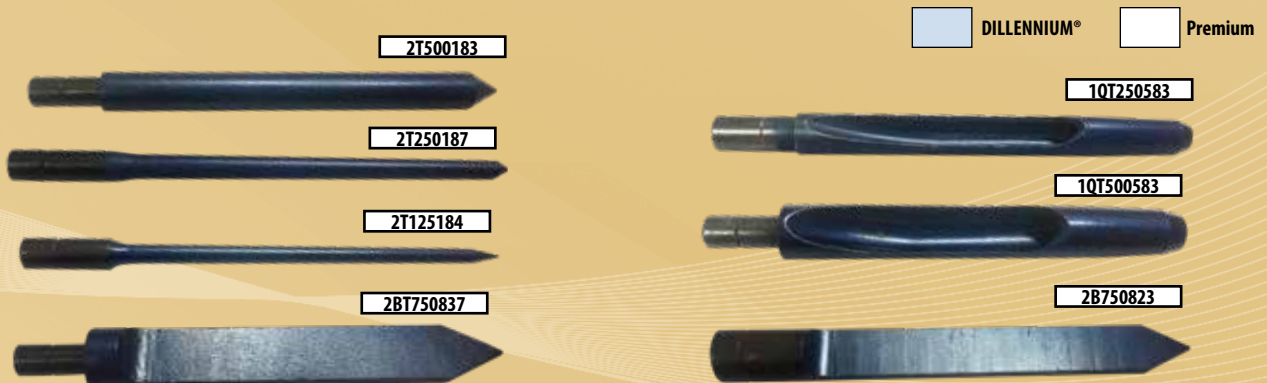


## DILLENNIUM/PREMIUM INFINITY TINES

JRM, Inc. continues to attempt perfection with its NEW version of the INFINITY tine. Due to tufting and pricking concerns on the greens, JRM did away with the hardened, abrasive coating and DILLENNIUM tips on the solids and Bayonet tines. The 2018 INFINITY features harder steel and an additional heat treat induction process to protect the tip. The new process allows JRM to lower the price making it more affordable. The NEW INFINITY will last 2 to 3 times the average life compared to its Premium/DILLENNIUM counterpart while maintaining its length and outside diameter much longer.

## DILLENNIUM/Premium Solid Tines

Part No.	Description	Length	Mount	ID	OD	Wall	Price
Conventional Solid Tines							
2T125184	1/8" Premium INIFINITY solid tine	6"	3/8"	n/a	.200"	solid	
2T250187	1/4" Premium INIFINITY solid tine	6.125"	3/8"	n/a	.250"	solid	
2D375186	3/8" Premium INIFINITY solid tine	6"	3/8"	n/a	.375"	solid	
2T500183	1/2" Premium INIFINITY solid tine	6"	3/8"	n/a	.500"	solid	
2T500184	1/2" Premium INIFINITY solid tine	7"	3/4"	n/a	.500"	solid	
NEW ADDITIONS							
Part No.	Description	Length	Mount	ID	OD	Wall	
2T125183	1/8" Premium INIFINITY solid tine	4.5"	3/8"	n/a	.200"	solid	
2T250186	1/4" Premium INIFINITY solid tine	5"	3/8"	n/a	.250"	solid	
2T250188	1/4" Premium INIFINITY solid tine	6.5"	3/4"	n/a	.250"	solid	
2R250186	1/4" Premium INIFINITY solid tine	5"	3/4"	n/a	.250"	solid	
2D375184	3/8" Premium INIFINITY solid tine	5"	3/8"	n/a	.375"	solid	
2T375183	3/8" Premium INIFINITY solid tine	6"	3/4"	n/a	.375"	solid	
2T500182	1/2" Premium INIFINITY solid tine	5"	3/4"	n/a	.500"	solid	
2D625182	5/8" Premium INIFINITY solid tine	7"	3/4"	n/a	.625"	solid	
2T625184	5/8" Premium INIFINITY solid tine	6"	3/8"	n/a	.625"	solid	
2D750182	3/4" Premium INIFINITY solid tine	7"	3/4"	n/a	.750"	solid	
Bayonet Tines							
Part No.	Description	Length	Mount	ID	OD	Wall	
2B750813	3/4" Premium INIFINITY Bayonet Tine	4.75"	3/4"	n/a	.750"	.750"	
2B750823	3/4" Premium INIFINITY Bayonet Tine	7"	3/4"	n/a	.750"	.750"	
2B750827	3/4" Premium INIFINITY Bayonet Tine	7"	3/8"	n/a	.750"	.750"	
2BT750837	3/4" Premium INIFINITY Bayonet Tine W/ Toro shank	6"	3/8"	n/a	.750"	.750"	
Premium/DILLENNIUM Quad Tines							
Part No.	Description	Length	Mount	ID	OD	Wall	
1QT250183	1/4" Premium INIFINITY Side-eject Quad Tine W/ Toro shank	5"	3/8"	.250"	.385"	.065"	
1QT250583	1/4" DILLENNIUM INIFINITY Side-eject Quad Tine W/ Toro shank	5.125"	3/8"	.250"	.370"	.065"	
1QT375181	3/8" Premium INIFINITY Side-eject Quad Tine W/ Toro shank	5"	3/8"	.335"	.485"	.072"	
1QT375581	3/8" DILLENNIUM INIFINITY Side-eject Quad Tine W/ Toro shank	5.125"	3/8"	.325"	.500"	.072"	
1Q375585	3/8" DILLENNIUM INIFINITY Side-eject Quad Tine	4.625"	3/8"	.325"	.500"	.072"	
1QT500183	1/2" Premium INIFINITY Side-eject Quad Tine W/ Toro shank	5.5"	3/8"	.400"	.550"	.072"	
1QT500583	1/2" DILLENNIUM INIFINITY Side-eject Quad Tine W/ Toro shank	5.625"	3/8"	.400"	.575"	.072"	
1QT625185	5/8" Premium INIFINITY Side-eject Quad Tine W/ Toro shank	6"	3/8"	.500"	.635"	.063"	
1QT625585	5/8" DILLENNIUM INIFINITY Side-eject Quad Tine W/ Toro shank	6"	3/8"	.510"	.655"	.063"	



## The JRM INFINITY reels are ready for testing.

JRM has started testing a line of INFINITY reels in our regional market of North Carolina, South Carolina and Eastern Tennessee. When the reels meet JRM's quality standards, they will become available globally. The reels will feature similar steel to JRM's DURANIUM-801 bedknives to enhance the longevity for the bedknives and reels. Other features include:

- More significant relief on reel than OEM equivalent reels
- Individual blades are a ¼" wider to allow for more grinding and/or backlapping
- The JRM INFINITY reels are simple to install
- Will cut paper all the way across without grinding or backlapping
- The JRM INFINITY reels are more precise and better engineered than OEM reels

**Products on this page are currently in the design and testing phase and plan to be ready mid-to-late 2018 depending on testing results.**



## JRM INFINITY Bedknife Reels

Part No.	OEM Part No.	Fits	Description	Price
<b>Toro® Greensmower reels</b>				
4RTG11FLEX	107-7635, 127-2176	Flex 21 (2011 & older)	11 blades	
4RTG14FLEX	115-4289, 127-2177	Flex 21 (2011 & older)	14 blades	
4RTG112100	119-4104, 127-2201	2100, 3250, 3300, 3320, 3400, 3420	11 blades	
4RTG142100	119-4105, 127-2202	2100, 3250, 3300, 3320, 3400, 3420	14 blades	
4RTG113250	105-5792, 127-2194	3250 (2011 & older)	11 blades	
<b>Toro® Fairway reels</b>				
4RTF075510	108-9072, 127-2077	5510D, 5610D, 6500D, 6700D	7 blades	
4RTF085510	108-9073, 127-2078	5510D, 5610D, 6500D, 6700D	8 blades	
<b>John Deere® Greensmower reels</b>				
4RDG118500	AMT2885	JD 2500A/B/E, 3225 B/C, 7500, 8500	11 Blades	
<b>John Deere® High-cut reels</b>				
4RDG078500	AMT2883	JD 2500A/B/E, 3225 B/C, 7500, 8500	7 Blades	
<b>John Deere® Fairway reels</b>				
4RDF088700	AMT2893	JD3215/A, 3235A/B/C, 7700, 8700	8 blades Heavy duty	
4RDF078500	TCA19350	JD 2500A/B/E, 3225 B/C, 7500, 8500	7 blades	
4RDF087200	AMT2871	JD2653A/B, 8900A, 7200A	8 blades	
<b>Jacobsen® Greensmower reels</b>				
4RJG11522	5000148	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	11 blades	
<b>Jacobsen® Fairway reels</b>				
4RJF073400	5003053	Eclipse 322, G-Plex III, GP400, LF550, LF3400, LF4675	7 blades	

## NEW Bedknives

JRM is currently designing 13 new DURANIUM-801® bedknives for several popular Toro® and John Deere® mowers. We determined this list based on requests from our customers. We are constructing the fixtures and hope to start shipping these bedknives by late fall or early winter 2018.

OEM part No.	Machine	Description	Holes
<b>TORO®</b>			
120-1640	Reelmaster 3555/3575/5010-H/5210/5410/5510/56106500/6700 DPA	22" low cut extended	8
94-8936	Reel Master 5500/6500/6700D SPA	22" low cut extended	8
106-2646	Greensmaster 1600/1610/2600 Integral cutting unit	26" high cut	16
93-9015	Greensmaster 1600/1610/2600 Integral cutting unit	26" low cut	16
94-5885	Greensmaster 1600/1610/2600 Integral cutting unit	26" Tournament cut	16
107-8181	Greensmaster 1600/1610/2600 Integral cutting unit	26" Fairway cut	16
112-9275	Greensmaster 1600/1610/2600 Integral cutting unit	26" Microcut	16
121-3167	Reelmaster 3550D DPA	18" low cut	6
104-1380	Reel Master 3100D/7000/216/216D/2000D/2300D/2600D/Grounds Pro 2000D SPA	27" Fairway cut Heavy duty	10
105-6785	Reel Master 3100D/7000/216/216D/2000D/2300D/2600D/Grounds Pro 2000D SPA	27" Fairway Low cut	10
<b>JOHN DEERE®</b>			
MT6947	John Deere® 260 B/C/D	26" Standard cut	15
MT6946	John Deere® 260 B/C/D	26" Fairway cut	15
TCU31428	John Deere® 260 B/C/D	26" Tournament cut	15



## JRM's Elite Super-thin Line of Bedknives

**Please Read  
Instructions Before  
Grinding**

Many courses have a particular day, week or month where their members expect total perfection. JRM's Elite super-thin bedknives provide zero tolerance for bruising, which is music to a superintendent's ears. JRM has designed the Elite super-thin line of bedknives for **Toro®**, **John Deere®**, and **Jacobsen®** that will leave your greens looking immaculate and allow you to achieve the lowest possible cut without dragging or scuffing. The bedknives come in lengths of 18 and 22 inches to fit most OEM models. While not built for longevity, the quality of cut is far superior to anything else on the market. The bedknives can also cut as low as .050".

These thin bedknives are slightly different from your standard bedknife during the set-up phase. They are engineered with a 0 degree deck height, or top-face angle. With a bedknife this thin, precision grinding is at a premium.

**Step 1:** Mount bedknife to your bed bar then set it up to your grinding stone.

**Step 2:** When grinding this bedknife the top face angle should be indicated anywhere between 1 and 3 degrees, or whenever you begin to scratch with consistent friction from end to end.

**Step 3:** When you achieve a consistent friction across the top face you should begin grinding. It should take no more than a few passes to get them configured with your bed bars tolerances.

**Step 4:** During touch up please keep the same angle of your initial grind. You may feel the need to backlap these bedknives to prolong longevity. That is a non-issue, but please remember to use a fine grit compound (180+).

These super-thin bedknives also work very well with the JRM Vulcan Grinding Wheel. Our grinding stones are well-known for their cool grinding characteristics and will relieve a lot of stress on the bedknife when grinding.

## Bedknife Grind Angles

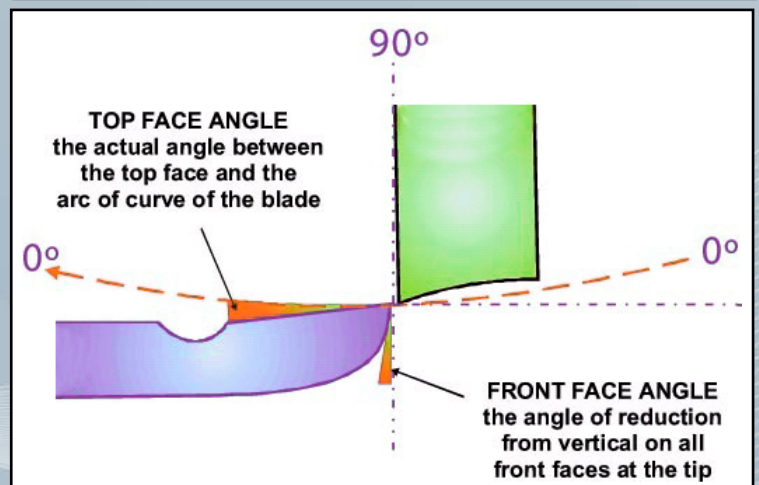
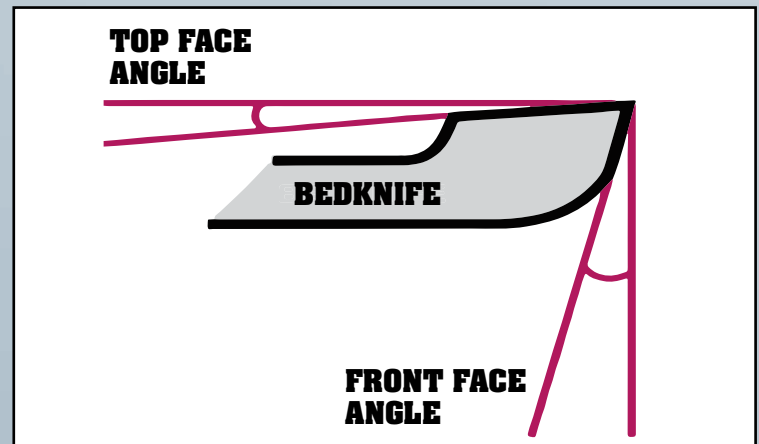
**Bedknife grind angles**—The top face and front face grind angles listed on our bedknife pages are the angles that the JRM DURANIUM-801 greensmower, fairway and high-cut bedknives will feature coming out of the box. You can run our bedknives as is and get a quality cut, but that is not set in stone. Maintenance Technicians can grind to a personally preferred angle through their years of experience or follow an OEM specification. Although that is not necessary, it won't affect the life of a JRM bedknife provided you don't grind too much off the front face.

The top face angle combines with the front face angle to create the actual cut point, and it provides clearance for the clippings to eject after a blade of grass has been cut. The top angle is also important in eliminating metal-to-metal contact across a wide-range of bedknife attitudes.

The front face angle is important for allowing the reel to present the grass to the bedknife to be cut. If there is no front angle on the bedknife, the bedknife tends to push the grass forward making it difficult for the grass to be properly cut.

Regular bedknife maintenance practices like front facing, backlapping etc. are critical in extending the life of a bedknife. The quality of JRM's cutting edge is what stands it apart from all competitors. JRM's unique steel and coining process allow for several more grinds than most of its competitors.

**Extended-cut bedknives**—JRM now offers extended-cut options for Toro, John Deere and Jacobsen bedknives. These blades sit further forward than a standard blade allowing it to sit closer to dead center in correlation to the reel. This provides a less-aggressive cut, which reduces bruising, gouging and streaking, and also extends the life of a bedknives cutting edge.



## JRM Bedknife Screws

It is extremely important to use JRM screws with our Toro®, Jacobsen®, and John Deere® Greensmower and Fairway bedknives to ensure proper bedknife positioning on the bedbar. **Non-use of JRM screws will void any warranty for our DURANIUM-801® bedknives.**

## A Totally Unique Manufacturing Process!

JRM, Inc. features a comprehensive line of high-quality alloy bedknives for the Greens, Fairways, Tee Boxes, Rough, Aprons and Fringes.

Each JRM bedknife is made of top-quality DURANIUM-801®/High Carbon/High Alloy steel for superior quality and performance. We offer an extensive line of knives in various thicknesses and hole patterns to cater to a course's individual needs.

When you order our greensmower bedknives, you will notice a little different look. To ensure a completely straight cutting edge on all of our DURANIUM-801® knives, we are now machining all of our bedknives "AFTER" heat treat. You'll also notice the new shiny surface on the top edge of the bedknife. This allows for a more attractive look and lets you know it was machined to our highest standards.

## Coining! A Patented Process

- Flatter Knife
- Truer to bedbar
- Less reel wear
- Less "pre-use" preparation
- Doesn't interfere with molecular realignment for added strength
- Compresses metal, instead of cutting metal away, creating a stronger bedknife

## Alloy Bedknives

- DURANIUM-801® steel
- Highest Carbon content on the market
- High Manganese content
- High Boron content for bonding

**Fairway bedknives for John Deere® 2653/7200A/8900A, QA7 mowers**—JRM has two DURANIUM-801® fairway bedknives for these mowers. The 4BD273206 is a 10-hole, 26-inch bedknife, and the 4BD273207 is a 12-hole 30" bedknife.

**John Deere® Bedknives**—JRM has designed two new bedknives (4BD250304, 4BD250305) that are built to the exact specifications of a standard John Deere® bedknife. John Deere® bedknives sit further back from the center line of the reel line, which renders these machines very aggressive in cut. Many new cultivars of grass designed for golf course greens require a more aggressive cut, so we designed a bedknife for that purpose. In contrast, JRM's 4BD250102 through 4BD250109 are all designed to sit .060" forward from bottom dead center of the reel line. 4BD250114, 4BD250115 and 4BD250117 sit .080" further forward from bottom dead center of the reel line. These bedknives are designed to help lessen the aggressive nature of these cutting units and allow the machine to work smoother over undulations, cleanup cuts, or very low Height of Cut (HOC).

**Cutting-edge height clarification**—JRM's cutting-edge thickness is based on your standard bench height setting. The bench height is the measurement from the cutting edge to the cutting surface. The weight of the reel will slightly push the bedknives down when cutting, which allows for a lower cut.

Please remember on most cutting units, there is a drastic difference in bench height and actual HOC. If you are skeptical get your bench setting as you normally would. Then take a Prism Gauge and set it on your putting surface to see exactly how much grass is left on the surface after mowing.

You will see your actual HOC is different from your bench height. The moral of the story is sometimes we as an industry focus too much on getting as "low" as possible. When, in fact, you may already be achieving your desired height of cut on your surfaces and doing so with a much higher bench setting without even knowing it. Also, you will notice that the Micro-cut/Super Tournament bedknives have the same cutting-edge height as the Ultra-cut bedknives. The difference in these two bedknives can be found on the bottom side of the bedknife or the "drag" angles. JRM's Ultra-Cut bedknives are shaved down on the bottom side of the knife to provide a cut that has reduced bruising and less dragging.

**Elite super-thin bedknives**—JRM added a line of Elite super-thin bedknives to our John Deere®, Jacobsen®, and Toro® lines. These bedknives are designed to cut as low as possible and are great alternatives if your club was to host a tournament, or you are looking to give them that extra pop going into a big weekend. The bedknives basically carry 0.00" deck height and cut as low as .050". Our engineering department worked diligently with several top end courses to create what is, without a doubt, the thinnest bedknife on the market.

**John Deere® nuts**—JRM now offers lock nuts for the John Deere® Fairway bedknives. The nuts lock onto the back of the screw after you attach the bedknife to the reel. The nut is used for the following bedknives: 4BD273201, 4BD273203, 4BD273204, 4BD273206, 4BD273207.

**Extended-cut bedknives**—JRM offers Extended-cut bedknives for Toro® Jacobsen® and John Deere® units. We simply place the holes farther back on the bedknife. This allows for the cutting edge to stick further out and lets it sit more bottom center on the reel. This bedknife provides a less aggressive cut out of the box and allows the bedknife to keep its edge even longer.





★ It is extremely important that you use JRM screws with all of our bedknives. OEM screws could affect our tolerances and overall bedknife performance.

## DURANIUM-801<sup>®</sup> Greensmower Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Toro <sup>®</sup> Machines	Price
4BT250101 (Toro <sup>®</sup> #94-6395)	Standard Low-Cut 7-hole bedknife	.135" & above	5 & 15°	21.25"	Greensmaster 3000 Series	
4BT250102 (Toro <sup>®</sup> #93-4264)	Standard Low-Cut 13-hole bedknife	.135" & above	5 & 15°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100	
4BT250103 (Toro <sup>®</sup> #94-6394)	Tournament 7-hole bedknife	.115" & above	5 & 15°	21.25"	Greensmaster 3000 Series	
4BT250104 (Toro <sup>®</sup> #93-4263)	Tournament 13-hole bedknife	.115" & above	5 & 15°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100 2200/3000/3100/3200/3300/3400	
4BT250109 <b>JRM Exclusive</b>	Micro-cut 7-hole bedknife	.098" & above	5 & 15°	21.25"	Greensmaster 3000 Series	
4BT250105 (Toro <sup>®</sup> #93-4262)	Micro-cut 13-hole bedknife	.098" & above	5 & 15°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100 2200/3000/3100/3200/3300/3400	
4BT250106 (Toro <sup>®</sup> #98-7261)	Micro-cut 11-hole bedknife	.098" & above	5 & 15°	18.25"	GM800, Flex 18/1800, eFlex1800/1820	
4BT250107 (Toro <sup>®</sup> #108-4303)	Extended-cut 13-hole micro-cut bedknife	.098" & above	5 & 15°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100 2200/3000/3100/3200/3300/3400	
4BT250110 (Toro <sup>®</sup> #110-2300)	Extended-cut 11-hole micro-cut bedknife	.098" & above	5 & 15°	18.25"	GM800, Flex 18/1800, eFlex1800	
4BT250108 <b>JRM Exclusive</b>	Ultra-cut 13-hole bedknife with Max. Drag Clearance/Reduced Bruising	.098" & above	5 & 15°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100 2200/3000/3100/3200/3300/3400	
4TPB18	Toro <sup>®</sup> DURANIUM-801 <sup>®</sup> Elite super-thin cut 11-hole bedknife	.050" & above	5 & 90°	18.25"	GM800, Flex 18/1800, eFlex1800/1820	
4TPB22	Toro <sup>®</sup> DURANIUM-801 <sup>®</sup> Elite super-thin cut 13-hole bedknife	.050" & above	5 & 90°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100	
4STB050	Toro <sup>®</sup> Fairway/Greensmower bedknife screws (Blue-colored)-Bag of 50 Screw Diameter .245"; Screw Length .500"; Screw Head Diameter .450"					
4STB100	Toro <sup>®</sup> Fairway/Greensmower bedknife screws (Blue-colored)-Bag of 100 Screw Diameter .245"; Screw Length .500"; Screw Head Diameter .450"					

## DURANIUM-801<sup>®</sup> Tee Box, Fringe, Apron & High-cut Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Toro <sup>®</sup> Machines	Price
4BT250221 (Toro <sup>®</sup> #94-6396)	High-cut 7-hole bedknife	.175" & above	5 & 15°	21.25"	Greensmaster 3000 Series	
4BT250222 (Toro <sup>®</sup> #94-6392)	High-cut 13-hole bedknife	.175" & above	5 & 15°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100 2200/3000/3100/3200/3300/3400	

## DURANIUM-801<sup>®</sup> Fairway Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Toro <sup>®</sup> Machines	Price
4BT243201 (Toro <sup>®</sup> #93-9774)	Low-cut 8-hole fairway bedknife	.250" & above	3.83 & 30°	22.19"	3550/3555/3575/5010-H/5210/5410/ 5510/5610 6500/6700 DPA	
4BT243202 (Toro <sup>®</sup> #104-1810)	High-cut 8-hole fairway bedknife	.335" & above	3 & 11°	22.19"	RM 5500D/6500D/6700D SPA	
4BT264203* (Toro <sup>®</sup> #108-9096)	Standard-cut 8-hole fairway bedknife	.285" & above	3.33 & 6°	22.19"	3550/3555/3575/5010-H/5210/5410/ 5510/5610 6500/6700 DPA	
4BT265204 (Toro <sup>®</sup> #63-8610/#100-3350)	Standard-cut 7-hole fairway bedknife	.250" & above	3 & 13°	21.25"	5200/5300/5400 4-bolt cutting units	
4BT264205 (Toro <sup>®</sup> #110-4084)	Low-cut 8-hole fairway bedknife	.200" & above	5 & 6°	22.19"	3550/3555/3575/5010-H/5210/5410/ 5510/5610 6500/6700 DPA	
4BT248206* (Toro <sup>®</sup> #63-8600)	Standard-cut 13-hole fairway bedknife	.250" & above	3 & 6°	21.25"	GM 1000/1010/2000/Flex 21/e-flex 2100 2200/3000/3100/3200/3300/3400	
4BT243207* (Toro <sup>®</sup> #110-4074)	Heavy Duty 8-hole fairway bedknife	.350" & above	5 & 6°	22.19"	3550/3555/3575/5010-H/5210/5410/ 5510/5610 6500/6700 DPA	
4STB050	Toro <sup>®</sup> Fairway/Greensmower bedknife screws (Blue-colored)-Bag of 50 Screw Diameter .245"; Screw Length .500"; Screw Head Diameter .450"					
4STB100	Toro <sup>®</sup> Fairway/Greensmower bedknife screws (Blue-colored)-Bag of 100 Screw Diameter .245"; Screw Length .500"; Screw Head Diameter .450"					

\* The 4BT264203, 4BD273206 and 4BD273207 is the recommended replacement for Toro's EdgeMax Fairway bedknife

Check out our premium lapping compound on Page 11 of the catalog. It comes in 30-pound pails and six grit sizes are offered. We do offer bulk shipping options to cut down on the freight expense. Please contact JRM's Customer Service Department (888-576-7007) with any questions.



★ It is extremely important that you use JRM screws with all of our bedknives. OEM screws could affect our tolerances and overall bedknife performance.

## DURANIUM-801® Greensmower Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Machines	JRM Screw	Price
4BJ250102 (Jacobsen® #503478)	Standard low-cut 13-hole bedknife	.135" & above	8 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	
4BJ250103 (Jacobsen® #503479)	Tournament 13-hole bedknife	.115" & above	8 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	
4BJ250104 (Jacobsen® #5002887)	Super Tournament 13-hole bedknife	.098" & above	5 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	
4BJ250105 (Jacobsen® #5002888)	Super Tournament 11-hole bedknife	.098" & above	5 & 90°	18.25"	GK518, Eclipse 118/118F	4SJB050/100	
4BJ250106 (Jacobsen® #2810984)	Super Tournament 11-hole bedknife	.098" & above	5 & 90°	19.35"	PGM 19	4SJB050/100	
4BJ250108 (Jacobsen® #503476)	Tournament 11-hole bedknife	.115" & above	8 & 90°	19.35"	PGM 19	4SJB050/100	
4BJ250109 (Jacobsen® #4234900)	Ultra-cut 13-hole bedknife with Max. Drag Clearance	.098" & above	5 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	
4BJ250110 (Jacobsen® #4234901)	Ultra-cut 11-hole bedknife with Max. Drag Clearance	.098" & above	5 & 90°	18.25"	GK518, Eclipse 118/118F	4SJB050/100	
4BJ250111 (Jacobsen® #5002887)	Extended Hole Super Tournament 13-hole bedknife	.098" & above	5 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	
4JPB18	Jacobsen® DURANIUM-801® Elite super-thin cut 11-hole bedknife	.050" & above	5 & 90°	18.25"	GK518, Eclipse 118/118F	4SJB050/100	
4JPB22	Jacobsen® DURANIUM-801® Elite super-thin cut 13-hole bedknife	.050" & above	5 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	

## DURANIUM-801® Tee Box, Fringe, Apron & High-cut Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Machines	JRM Screw	Price
4BJ250221 (Jacobsen® #503477)	High-cut 13-hole bedknife	.175" & above	8 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB050/100	
4BJ250222 (Jacobsen® #4118902)	High-cut 11-hole bedknife	.175" & above	8 & 90°	18.25"	Jacobsen SLF1880, GK518, Eclipse 118	4SJB050/100	

## DURANIUM-801® Fairway Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Machines	JRM Screw	Price
4BJ248201* (Jacobsen® #503460)	Standard-cut 13-hole fairway bedknife	.360" & above	5 & 90°	22"	Jacobsen® GKV, GKVI, LF128, LF135/550/570, LF3400, LF3800, LF4675, LF4677	4SJB050/100	
4BJ248202* (Jacobsen® #5003150)	Low-cut 13-hole fairway bedknife	.320" & above	5 & 90°	22"	Eclipse 322, G-Plex III, GP400 LF550, LF3400, LF4675	4SJB050/100	
4BJ248203 (Jacobsen® #4118902)	Low-cut 11-hole fairway bedknife	.320" & above	5 & 90°	18.25"	Jacobsen® SLF1880	4SJB050/100	
4BJ248206▲ (Jacobsen® #503550)	Heavy-duty 13-hole fairway bedknife	.360" & above	5 & 90°	30"	Jacobsen® Tri-King (30')	4SJB050/100	Discontinued

▲ Available while supplies last.

\*The 4BJ248202 can fit on the 5-blade reels for the Jacobsen LF3800. It will not work on the 7-blade reels for the LF3800. When in stock, the recommended bedknife for the LF3800 is 4BJ248201.

## JRM Fairway/Greensmower Bedknife Screws

Part No.	JRM Description	Screw Measurements	Price
4SJB050 / 4SJB100	Jacobsen® bedknife screws-Bag of 50 and 100 Course-threaded silver-colored screws	Screw Diameter: .229"; Screw Length: .472"; Screw Head Diameter: .417"	
4SJB050 / 4SJB100	Jacobsen® bedknife screws-Bag of 50 and 100 Course-threaded silver-colored screws	Screw Diameter: .306"; Screw Length: .777"; Screw Head Diameter: .618"	

Bedknives for the Jacobsen® TC22 use a fine-threaded metric screw. The Jacobsen® screw works fine with our bedknives.

Check out our premium lapping compound on Page 11 of the catalog. It comes in 30-pound pails and six grit sizes are offered. We do offer bulk shipping options to cut down on the freight expense. Please contact JRM's Customer Service Department (888-576-7007) with any questions.





★ It is extremely important that you use JRM screws with all of our bedknives. OEM screws could affect our tolerances and overall bedknife performance.

## DURANIUM-801<sup>®</sup> Greensmower Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Machines	JRM Screw	Price
4BD250102 (John Deere <sup>®</sup> #ET17533)	Extended-Cut Standard 13-hole bedknife	.135" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
<b>(JRM EXCLUSIVE)</b> 4BD250117	Super Extended-cut Standard 13-hole bedknife	.135" & above	5 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
4BD250103 (John Deere <sup>®</sup> #ET17534)	Extended-Cut Tournament 13-hole bedknife	.115" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
4BD250108 (John Deere <sup>®</sup> #MT4846)	Extended-Cut Tournament 11-hole bedknife	.115" & above	8 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5	4SDB050/100	
4BD250304 (John Deere <sup>®</sup> #ET4869)	Standard 13-hole Super Tournament bedknife	.098" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
4BD250305 (John Deere <sup>®</sup> #MT6944)	Standard 11-hole Super Tournament bedknife	.098" & above	8 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5	4SDB050/100	
4BD250104 (John Deere <sup>®</sup> #ET4869)	Extended-Cut Super Tournament 13-hole bedknife	.098" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
4BD250105 (John Deere <sup>®</sup> #MT6944)	Extended-Cut Super Tournament 11-hole bedknife	.098" & above	8 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5	4SDB050/100	
4BD250114 (John Deere <sup>®</sup> #ET4869)	Super Extended-cut Super Tournament 13-hole bedknife	.098" & above	5 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
4BD250115 (John Deere <sup>®</sup> #MT6944)	Super Extended-cut Super Tournament 11-hole bedknife	.098" & above	5 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5	4SDB050/100	
4BD250109 (John Deere <sup>®</sup> #MT7351)	Extended-cut Ultra-cut 13-hole bedknife with Maximum Drag Clearance	.098" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
<b>(JRM EXCLUSIVE)</b> 4BD250110	Extended-cut Ultra-cut 11-hole bedknife with Maximum Drag Clearance	.098" & above	5 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5	4SDB050/100	
4JDPB18	Elite Super-thin cut 11-hole bedknife	.050" & above	5 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5, JD8000 E-cut	4SDB050/100	
4JDPB22	Elite Super-thin cut 13-hole bedknife	.050" & above	5 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	

## DURANIUM-801<sup>®</sup> Tee Box, Fringe, Apron & High-cut Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Machines	JRM Screw	Price
4BD250221 (John Deere <sup>®</sup> #ET17532)	High-cut 13-hole bedknife	.175" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB050/100	
4BD250222 (John Deere <sup>®</sup> #TCU25299)	High-cut 11-hole bedknife	.175" & above	8 & 90°	18.25"	JD180A/B/C/SL WGM 18" QA5, JD8000 E-cut	4SDB050/100	

## DURANIUM-801<sup>®</sup> Fairway Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Machines	JRM Screw	Price
*4BD273201 (John Deere <sup>®</sup> #ET17751)	Standard-cut 9-hole fairway bedknife	.360" & above	5 & 6°	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade	4SDF050/100	
4BD273202 (John Deere <sup>®</sup> #ET17767)	High-cut 13-hole fairway bedknife	.270" & above	5 & 6°	22.63"	JD 220A, 220B, 2500A, 3215A, 3235A, 3225C, 7500, 8500	4SDB050/100	
4BD273205 (John Deere <sup>®</sup> #ET17767)	Extended-cut 13-hole fairway bedknife	.270" & above	5 & 6°	22.63"	JD 220B, 3215A, 3225C, 7500, 8500	4SDB050/100	
*4BD273203 (John Deere <sup>®</sup> #MT1928)	Standard-cut 9-hole fairway bedknife	.240" & above	5 & 6°	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade JD 3215A, 3235A, 3225C	4SDF050/100	
*4BD273204 (John Deere <sup>®</sup> #MT3983)	Low-cut 9-hole fairway bedknife	.180" & above	5 & 6°	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade JD 3215A, 3235A, 3225C	4SDF050/100	
*4BD273206 (John Deere <sup>®</sup> #ET17752)	Standard-cut 10-hole fairway bedknife	.360" & Above	5 & 6°	26.75"	JD2653, 7200/A, 8900A, QA7	4SDF050/100	
*4BD273207 (John Deere <sup>®</sup> #MT1973)	Standard-cut 12-hole fairway bedknife	.360" & Above	5 & 6°	30.75"	JD2653, 7200/A, 8900A, QA7	4SDF050/100	

\* The nuts (4SDN050) fit on the 4BD273201, 4BD273203, 4BD273204, 4BD273206, and 4BD273207 fairway bedknives.

## JRM Fairway/Greensmower Bedknife Screws/Nuts

Part No.	JRM Description	Screw Measurements	Price
4SDB050 / 4SDB100	John Deere <sup>®</sup> bedknife screws-Bag of 50 and 100 Course-threaded gold-colored screws	Screw Diameter: .245"; Screw Length: .500"; Screw Head Diameter: .450"	
4SDF050 / 4SDF100	John Deere <sup>®</sup> bedknife screws-Bag of 50 and 100 Course-threaded gold-colored screws	Screw Diameter: .370"; Screw Length: .732"; Screw Head Diameter: .673"	
4SDN050	Lock Nuts for John Deere Bedknife Screws-Bag of 50	Lock Nut Diameter: 1/2"	

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**COMPETITION™  
ROLLERS**



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## Heavy Duty Polyurethane Over Steel Rollers For All Toro®, Jacobsen® and John Deere® Reel & Rotary Deck Mowers

Golf Courses | Sports Fields

**Grooved Rollers**



**Smooth Rollers**



**Rotary Deck Front Rollers**



**Rotary Deck Stubby Rollers**



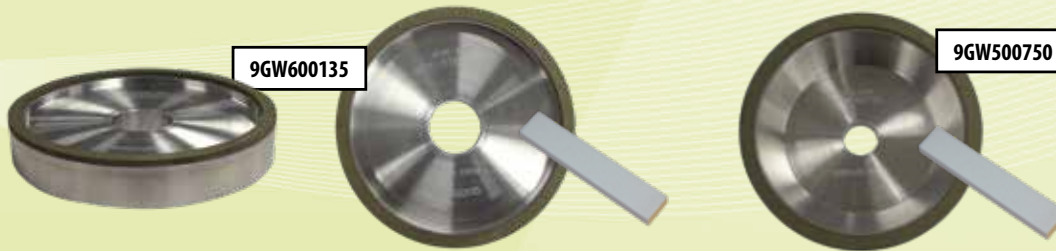
Celebrating **25** years of turf innovation.

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## Vulcan Grinding Wheelz Overview

The JRM Vulcan Bedknife Grinding Wheelz showcase a new direction for JRM, Inc. in its mission to make the jobs of maintenance technicians easier. Through the years, the RC hardness of bedknives has changed. Unfortunately, until now, the stones used to resurface them have stayed relatively the same. JRM Vulcan Wheelz feature a Cubic Boron Nitride surface that is coveted for its use on harder steels, and its cool grinding characteristics, consistent grinding, and versatility. It is the second hardest abrasive on the market next to diamond. The Vulcan Wheel is stronger and more durable than your standard Aluminum Oxide wheel. JRM now offers six bedknife grinding wheels (4 parallel, 2 tapered) that fit Neary, Foley, Peerless, and Bernhard Anglemaster grinding units. A smaller version of our full-sized dressing stick is included with every grinding wheel. Our full-sized (twice the size) dressing sticks (9GW211111) can be purchased separately.



## JRM Vulcan Grinding Wheelz

Part No.	JRM Description	Diameter	Depth	Arbor	Machines	Price
9GW600125	JRM Vulcan Grinding Wheel Parallel, Dressing stick included	6"	1/2"	1 1/4"	Fits Foley, Peerless & Neary machines	
9GW600135	JRM Vulcan Grinding Wheel Parallel, Dressing stick included	6"	1"	35mm	Fits Bernhard Anglemaster 4000/4000DX	
9GW600162	JRM Vulcan Grinding Wheel Parallel, Dressing stick included	6"	1"	5/8"	Fits Foley machines	
9GW600235	JRM Vulcan Grinding Wheel Parallel, Dressing stick included	6"	2"	35mm	Fits Bernhard Anglemaster 3000/4000/4000DX	
9GW500035	JRM Vulcan Grinding Wheel Taper, Dressing stick included	5"	1 1/2"	35mm	Fits Bernhard Anglemaster 1000/2000	
9GW500750	JRM Vulcan Grinding Wheel Taper, Dressing stick included	5"	1 1/2"	3/4"	Fits Bernhard Anglemaster 1000/2000	
9GW211111	Full-size dressing stick for Vulcan Grinding Wheelz					

NOTE: Please make sure you verify the depth on your grinding stones. The Bernhard Anglemaster 4000/4000DX can take a deeper stone. The 9GW600135 has a 1" depth, and the 9GW600235 has a 2" depth.

## Reel Sharp Lapping Compound

Reel Sharp Lapping Compound is an internationally renowned premium lapping compound made with virgin silicon carbide grit and pharmaceutical grade water soluble polymer. It is pre-mixed and non-toxic.



Part No.	JRM Description	Size	Price
Reel-Sharp-50	50-grit premium lapping compound	30 lb. pail	
Reel-Sharp-80	80-grit premium lapping compound	30 lb. pail	
Reel-Sharp-100	100-grit premium lapping compound	30 lb. pail	
Reel-Sharp-120	120-grit premium lapping compound	30 lb. pail	
Reel-Sharp-180	180-grit premium lapping compound	30 lb. pail	
Reel-Sharp-220	220-grit premium lapping compound	30 lb. pail	

## JRM Mower Blades



### OREGON® MOWER BLADES STYLE DIFFERENCES

**OEM:** Equivalent copy of OEM blade

**G3:** Gator blade feature superior side discharge & bagging and superior mulching

**G5:** same as G3 plus extended cutting length and infused carbide cutting surface

**G6:** same as G5 plus greater width and thickness to extend blade life and allow for longer lifting arch to improve bagging and mulching.

This is a partial list. More blades are available from the Oregon® catalog. Contact your salesman or the JRM Customer Service Department (888-576-7007) for other blades and pricing.

### MOWER BLADES

Offering:

- ✓ Superior Mulching
- ✓ Superior Bagging
- ✓ Superior Side Discharge
- ✓ A longer-lasting cutting edge compared to the OEMs on the market



Oregon #	OEM No.	Machine	Style	Style	Length	Arbor	Width	Thickness	Price
<b>JRM MOWER BLADE TOP SELLERS</b>									
94-052	105-9810-03	Toro 3500D/4000D/4500D/4700D	Standard	OEM	27"	.500"	2.50"	.250"	
94-049	108-9026-03	Toro 3500D/4000D/4500D/4700D (Extended Cutting Edge)	Standard	OEM	27"	.500"	2.50"	.250"	
96-741	104-5183	Toro 3500D/4000D/4500D/4700D	Mulching	G3	27"	.500"	2.50"	.250"	
94-045	92-5608-03	Toro 4000D/4100D/4110D (3 for 62" cut/7 for 11" GM 4000D)	Standard	OEM	21 11/16"	.500"	2.50"	.250"	
96-708	107-0214-03	Toro 4000D/4100D/4110D (3 for 62" cut/7 for 11" GM 4000D)	Mulching	G3	21 11/16"	.500"	2.50"	.250"	
580820	TCU27876	John Deere 7400, 9009	Mulching	G6	27"	7/8"	3.00"	.250"	
580823	TCU27401	John Deere 7400, 9009	Standard	OEM	27"	7/8"	2.50"	.250"	
584621	GC00344	John Deere 8800, 3245 Series	Standard	OEM	20.675"	3/8"	2.50"	.250"	
96-811	GC00175	John Deere 8800, 3245 Series	Mulching	G3	20.675"	3/8"	2.50"	.250"	
391-591	4137186	Jacobsen AR-5/522	Mulching	G6	22 5/16"	1/2"	3.00"	.250"	
91-591	4137186	Jacobsen AR-5/522	Standard	OEM	22 5/16"	1/2"	.250"	.250"	
91-593	522372	Progressive Pro-Flex 120/120R (Left Hand) (4 to a set)	Standard	OEM	27"	1.00"	2.50"	.312"	
91-592	522374	Progressive Pro-Flex 120/120R (Right Hand) (1 to a set)	Standard	OEM	27"	1.00"	2.50"	.312"	
<b>ARIENS 48" CUT MOWER BLADES</b>									
396-716	ACC-0022	Ariens (2 for 32" Cut) Mulching	Mulching	G6	16 1/4"	5/8"	3.00"	.250"	
<b>BOBCAT MOWER BLADES</b>									
96-310	106041X	Bobcat/AYP (3 for 48" Cut)	Mulching	G3	16 1/4"	5/8"	2.50"	.203"	
<b>BUSHHOG MOWER BLADES</b>									
396-707	71001000	Bush Hog 71" Cut, Model TC710N	Mulching	G6	24 1/8"	3/4"	3.00"	.250"	
<b>CRAFTSMAN MOWER BLADES</b>									
92-139	942-04417	Craftsman 17" Blade (3 for 38" Cut)	Standard	OEM	17"	3/4"	3.00"	0.203	
<b>CUB CADET MOWER BLADES</b>									
98-068	942-0740	Cub Cadet 20" Cut Walk Behind, High Lift	Standard	OEM	20"	Bow Tie	2.50"	.134"	
198-049	742-04276	Cub Cadet 21" cut	Standard	OEM	20 15/16"	Bow Tie	2.25"	.134"	
198-059	490-110-C109	Cub Cadet/Bolens (2 for 42" Cut) High Lift	Standard	OEM	21 3/16"	5/8" Y	2.75"	.149"	
596-300	02005019-X	Cub Cadet 21" Tank and Recon (3 for 60" cut)	Mulching	G5	21"	3/4"	3.00"	.203"	
98-071	1005338	Cub Cadet 21" Tank and Recon (3 for 60" cut) High Lift	Standard	OEM	21"	3/4"	3.00"	.203"	
98-631	742-0741	Cub Cadet 21" Cut Walk Behind	Mulching	G3	21"	Bow Tie	2.50"	.187"	
942-04312		Cub Cadet 2 N 1	Mulching	OEM	21 3/16"	6 Pt Star	2.50"	.187"	
198-086	490-110-C123	Cub Cadet Z-Force Deck LT1050, RZT-50 (3 for 50" Cut)	Standard	OEM	17 7/8"	6 Pt Star	2.50"	.149"	
942-05056A		Cub Cadet 54" NX-15 High Lift 2-in-1	Standard	OEM	18.67"	6 Pt Star			
<b>DIXIE CHOPPER MOWER BLADES</b>									
91-502	30227-50X	Dixie Chopper 50" Cut	Standard	OEM	17"	5/8"	2.50"	.203"	
392-141	300819/301068	Dixie Chopper (3 for 48" Cut) Zee 1	Mulching	G6	17 1/4"	1/2"	3.00"	.250"	
396-740	30227-60E	Dixie Chopper (3 for 60" Cut)	Mulching	G6	20 1/2"	5/8"	3.00"	.250"	
<b>EXMARK MOWER BLADES</b>									
392-205	1038250, 1038270	Exmark Triton Deck (3 for 46" Cut)	Mulching	G6	16 1/4"	15/16"	3.00"	.250"	
596-334	1033231, 1033233	Exmark Turf Tracer Models (3 for 60" Cut)	Mulching	G5	20 1/2"	1/2"	3.00"	.203"	
94-051	108-3762-03	Exmark 21" Cut, Walk-Behind Mower	Standard	OEM	20 7/8"	7/16"	2.25"	.149"	
<b>FERRIS MOWER BLADES</b>									
91-209	20842	Ferris (3 for 61" Cut)	Standard	OEM	21"	5/8"	2.50"	.250"	
<b>GRAVELY MOWER BLADES</b>									
396-806	00450300	Pro Turn 152 XDZ/Pro Master 252 XDZ (2 for 36" Cut; 3 for 52" Cut)	Mulching	G6	18"	5/8"	3.00"	0.25	
<b>HONDA MOWER BLADES</b>									
91-291	72511-960-000	Honda 21" Cut Walk Behind	Standard	OEM	20 13/16"	13/16"	2.25"	.149"	
91-517	72531-VE2-010	Honda Harmony Quada-Cut Lower Blade 21" Cut	Standard	OEM	21"	1 1/4"	2.75"	.120"	
91-516	72511-VE2-000	Honda Harmony Quada-Cut Upper Blade 21" Cut	Standard	OEM	20 7/8"	13/16"	2.25"	.120"	
92-101	72511-VK6-000	Honda HRC216K2/K3HXA Bottom Blade	Standard	OEM	21 1/4"	3/4"	3.25"	.120"	
<b>HUSQVARNA MOWER BLADES</b>									
95-615	580244001	Husqvarna 22" Walk Behind Star Center Hole	Mulching	G3	21 15/16"	5Pt Star	2.25"	.134"	
95-076	420463	Husqvarna 22" Walk Behind Star Center Hole	Standard	OEM	21 15/16"	5Pt Star	2.25"	.134"	



Oregon #	OEM No.	Machine	Style	Style	Length	Arbor	Width	Thickness	Price
<b>HUSTLER MOWER BLADES</b>									
92-208	601124, 601012	Hustler Standard Lift, XR7 Decks (3 for 54" Cut)	Standard	OEM	18 1/2"	5/8"	2.50"	.203"	
<b>JACOBSEN MOWER BLADES</b>									
396-702		Jacobsen (3 for 61" Cut) High Lift	Mulching	G6	21"	5/8"	3.00"	.250"	
596-702		Jacobsen (3 for 61" Cut) High Lift	Mulching	G5	21"	5/8"	3.00"	.203"	
93-025	112111-04	Jacobsen Bobcat (1-hole) (3 for 72" Cut)	Standard	OEM	24 15/16"	5/8"	2.50"	.250"	
396-731	42139B/P848/7046625	Jacobsen Bobcat (1-hole) (3 for 72" Cut)	Mulching	G6	25"	5/8"	3.00"	.250"	
91-364	JT391040	Jacobsen HR511 RH Cut (3 per deck)	Standard	OEM	23"	1/2"	2.50"	.250"	
91-363	JT391039	Jacobsen HR511 LH Cut (4 per deck)	Standard	OEM	23"	1/2"	2.50"	.250"	
96-696	JT391039	Jacobsen HR 5111 LH Cut (4 per deck)	Mulching	G3	23"	1/2"	2.50"	.250"	
96-795	JT391040	Jacobsen HR 5111 RH Cut (3 per deck)	Mulching	G3	23"	1/2"	2.50"	.250"	
92-013	3007759	Jacobsen Turfcut (3 for 60" Cut); HR 9016 Turbo 11 (60" Cut)	Standard	OEM	20 13/16"	1/2"	2.50"	.250"	
392-013	2810030/4119024	Jacobsen Turfcut (3 for 60" Cut); HR 9016 Turbo 11 (60" Cut)	Mulching	G6	20 13/16"	1/2"	3.00"	.250"	
93-013	112243-03	Jacobsen HR6010/Turfcut 628D	Standard	OEM	21"	5/8"	2.50"	.250"	
91-352	390515	Jacobsen Turfcut 72" cut (3-hole)	Standard	OEM	24 15/16"	7/16"	2.50"	.250"	
<b>JOHN DEERE MOWER BLADES</b>									
396-710	TCU51118/M144935	John Deere (3 for 62" Cut), High Lift	Mulching	G6	21 7/8"	7/8"	3.00"	.250"	
91-395	AM102401/M141786	John Deere (72" cut) 72/172/272	Standard	OEM	24 15/16"	7/8"	2.50"	.312"	
91-587	M131958/M168223	John Deere 60" Cut, 7-Iron Deck, High Lift	Mulching	OEM	20 7/8"	7/8"	2.50"	.250"	
396-743	EPC201693/M141669	John Deere 1453 72" cut, 7-Iron deck	Mulching	G6	25"	7/8"	3.00"	.250"	
92-114	TCU15882	John Deere 1453 72" cut, 7-Iron deck	Standard	OEM	25"	7/8"	3.00"	.250"	
596-722	M144297/M144935	John Deere 1600 Wide Area Mower (3 for 62" Cut) High Lift	Mulching	G5	21 7/8"	7/8"	3.00"	.203"	
92-120	TCU51118	John Deere 1600 Wide Area Mower (3 for 62" Cut) High Lift	Standard	OEM	21 7/8"	7/8"	2.50"	.312"	
396-770	M136185/TCU14939	John Deere 48" cut, 7-Iron deck	Mulching	G6	17 1/16"	7/8"	3.00"	.250"	
91-079	M136194	John Deere 48" cut, 7-Iron deck	Standard	OEM	17 1/16"	7/8"	2.50"	.250"	
91-138	M136195 & TCU30316	John Deere 54" Cut, 7-Iron Deck, Z Track, Signature Series	Standard	OEM	19"	7/8"	2.50"	.250"	
396-775	AM102401/M141786	John Deere 777 (72" cut)	Mulching	G6	24 15/16"	7/8"	3.00"	.250"	
91-078	M128485	John Deere all 60" cut, Extended Cut 7-Iron decks	Standard	OEM	20 7/8"	7/8"	2.50"	.312"	
92-113	M144196/TCU15881	John Deere all 60" cut, high lift 7-Iron decks	Standard	OEM	20 7/8"	7/8"	3.00"	.250"	
396-769	M135334, M136195, M144652, M164016	John Deere 54" Cut, High Lift, Z-Track Signatures Series	Mulching	G6	19"	7/8"	3.00"	.250"	
396-730	M133381, M163983, TCU18990	John Deere High Cut 7 Iron Deck 60" Cut (Washer Supplied)	Mulching	G6	20 7/8"	7/8"	3.00"	.250"	
<b>KUBOTA MOWER BLADES</b>									
596-810	K5645-34330/40	Kubota 60" Cut	Mulching	G5	20 1/2"	1 1/8"	3.00"	.203"	
92-049	K5647-34340/K5647-97530	Kubota 60" Cut ZD(21, 25F, 28, 323, 326P, 331P, 331LP)	Standard	OEM	20 9/16"	1 1/8"	2.50"	.250"	
96-372	70000-25030	Kubota 72" Cut for RC72 Deck on B2150D, F2560, F3060	Mulching	G3	24 1/2"	1 1/8"	2.50"	.250"	
92-116	K5677-34340/K5677-97530	Kubota 72" Cut for Pro Deck	Standard	OEM	24 1/2"	1 1/8"	2.50"	.250"	
91-493	70000-25002	Kubota (3 for 2" Cut), RC72 Deck used on B2150D, F2560, F3060	Standard	OEM	24 1/2"	1 1/8"	2.50"	.250"	
396-814	70000-25030/70090-30708	Kubota RCK72P-331Z/ZD28/ZD326P/ZD331LP	Mulching	G6	24 1/2"	1 1/8"	3.00"	.250"	
<b>LAND PRIDE MOWER BLADES</b>									
91-087	890-325C	LandPride Blade AFM4011, 4211, 40133	Standard	OEM	16 7/8"	1"	2.50"	.203"	
92-175	890-326C	LandPride Blade AFM4011, 40133, 4211	Standard	OEM	16 7/8"	1"	2.50"	.250"	
<b>LASTEC MOWER BLADES</b>									
91-596	P128/P246	Lastec (3 for 61" cut)	Mulching	OEM	21"	5/8"	2.50"	.203"	
396-727	063265/P-322	Lastec (3 for 61" cut)	Mulching	G6	21"	5/8"	3.00"	.250"	
96-347	063265/P-322	Lastec (3 for 61" cut)	Mulching	G3	21"	5/8"	2.50"	.203"	
91-609	P107, P701, P848, P849	Lastec (3 for 72" Cut)	Standard	OEM	25"	5/8"	2.50"	.250"	
93-008	21538	Lastec (3 for 61" cut)	Standard	OEM	21"	5/8"	2.50"	.250"	
<b>LESCO MOWER BLADES</b>									
96-344	50125/50140	Lesco 52" cut (set of 3), 36" cut (set of 2)	Mulching	G3	18"	5/8"	2.50"	.203"	
<b>SCAG MOWER BLADES</b>									
91-628	481712	Scag 61" Cut High Lift Version of 91-626	Standard	OEM	21"	5/8"	3.00"	.203"	
91-638	482787/482879	Scag 61" Cut All Models	Standard	OEM	21"	5/8"	2.50"	.203"	
<b>STEINER MOWER BLADES</b>									
91-731	79068	Steiner 72" Cut, Standard Lift (Also fits Ventrac OEM#79-0038)	Standard	OEM	24 3/4"	1/2"	2.50"	.250"	
391-731	79-037 / 79-038	Steiner 72" Cut, Standard Lift (Also fits Ventrac OEM#79-0038)	Mulching	G6	24 3/4"	1/2"	3.00"	.250"	
396-739	79-035/79-036/79-050	Steiner (3 for 60" Cut)	Mulching	G6	20 1/2"	1/2"	3.00"	.250"	
<b>TROY-BILT MOWER BLADES</b>									
198-059	942-0616	Troy-Bilt 42" Cut, Deep Deck & Auto-Drive	Standard	OEM	21 3/16"	5/8" Y	2.75"	.149"	
198-049	742-0741	Troy-Bilt 21" cut, 1995 & Newer, Fits Bowtie Center Hole	Standard	OEM	21"	Bow-Tie	2.25"	.134"	
<b>WALKER MOWER BLADES</b>									
91-917	7705-2	Walker 48" cut, rear discharge, high lift, left hand cut	Standard	OEM	25"	5/8"	2.75"	.203"	
91-918	7705-1	Walker 48" cut, rear discharge, high lift, right hand cut	Standard	OEM	25"	5/8"	2.75"	.203"	
<b>WOODS MOWER BLADES</b>									
91-584	1001513	Woods C360/RM360/RM550	Standard	OEM	20 15/16"	1"	2.50"	.250"	
<b>JRM MOWER BLADES PRIOR TO OREGON</b>									
4JR20101	330719	20" Cut	Standard	OEM	20"	7/16"	2.00"	.195"	
4JL12101	391040	23" Width (left blade) for HR51-11 (3 required)	Standard	OEM	23"	17/32"	2.50"	.275"	
4JR12102	391039	23" Width (right blade) for HR51-11 (4 required)	Standard	OEM	23"	17/32"	2.50"	.275"	
4TR072101	29-5530	25" Width, 72" cut for Groundmaster	Standard	OEM	25"	3/4"	2.50"	.250"	
4HR072101	754853	25" Width, 72" cut for XL Hustler	Standard	OEM	24"	1/2"	2.75"	.250"	

## TORO® Mower Blades

Oregon #	OEM No.	Machine	Style	Style	Length	Arbor	Width	Thickness	Price
<b>TORO MOWER BLADES</b>									
94-055	105-7718/108-1114	Toro (60" cut) Hi-Flow Model #74942/GM7200	Standard	OEM	20 1/2"	5/8"	2.50"	.250"	
96-362	106-2247-03	Toro (2 for 42" Cut) Recycler Time Cutter Z	Mulching	G3	21 9/16"	5/8"	2.25"	0.203	
94-127	14-1659/62-7700	Toro 21" Cut, Walk Behind Recycler	Standard	OEM	20 15/16"	7/16"	2.25"	.134"	
94-322	104-8697	Toro 22" Cut, Walk Behind Recycler	Standard	OEM	21 11/16"	7/16"	2.25"	.149"	
96-607	108-9764	Toro 22" Cut, Walk Behind Recycler	Mulching	G3	21 11/16"	7/16"	2.25"	.149"	
94-068	106-2247	Toro 42" cut, Mulcher, Recycler, Time Cutter Z	Standard	OEM	21 9/16"	5/8"	2.25"	.164"	
96-701	107-0210/107-0215	Toro 455D/4100D (Set of 7)	Mulching	G3	19"	1/2"	2.50"	.250"	
96-319	105-7715-03	Toro 60" High Lift Turbo Force Deck	Mulching	G3	20 1/2"	5/8"	2.50"	.203"	
94-053	105-7781	Toro High Lift (2 for 36") (3 for 52") Turbo Force Deck	Standard	OEM	18"	5/8"	2.50"	.187"	
94-019	106-0629	Toro SFS Deck, (3 Needed for 62" Deck)	Standard	OEM	21 1/2"	1/2"	2.50"	.187"	
94-011	29-5530	Toro 72" cut Left-hand cut heavy duty Groundsmaster	Standard	OEM	25"	3/4"	2.50"	.250"	
94-040	85-6040	Toro 72" cut, Recycler, Groundsmaster	Standard	OEM	25 3/16"	1/2"	2.50"	.250"	
96-705	85-6040	Toro 72" cut, Recycler, Groundsmaster	Mulching	G3	25 3/16"	1/2"	2.50"	.250"	
92-035	105-7784	Toro 72@ cut, High Lift, Turbo Force Deck	Standard	OEM	24 1/2"	5/8"	3.00"	.250"	
596-341		Toro Gator G5 Turbo Force Deck Built 2010 and later	Mulching	G5	24 1/2"	5/8"	3.00"	.203"	
94-074	110-0621-03	Toro Groundsmaster 3280-D3320	Standard	OEM	24 1/2"	1/2"	2.50"	.250"	
94-620	107-0217/108-1453	Toro Groundsmaster 580D (11 for 16' Cut)	Mulching	G3	20"	5/8"	2.50"	.203"	
94-029	69-6920	Toro Groundsmaster 580D (11 for 16' Cut)	Standard	OEM	20"	5/8"	2.50"	.250"	
96-802	110-5948-03	Toro Groundsmaster 5900/5910 (11 for 192" Cut)	Mulching	G3	20"	.500"	2.50"	.250"	
96-801	110-4701-03	Toro Groundsmaster 7200 Zero Turn 60" Deck	Mulching	G3	20 1/2"	1/2"	2.50"	.250"	
94-071	110-0622/110-0624	Toro Groundsmaster 3280D/ 72" cut Model # 74944	Mulching	G3	24 1/2"	.500"	2.50"	.250"	
94-075	108-7395	Toro Combo, 4300-D	Standard	OEM	22"	1/2"	2.50"	.250"	
394-075	114-0435-03	Toro Combo, 4300-D Heavy Duty High Lift Extended	Mulching	G6	22"	1/2"	3.00"	.250"	
96-075	117-434-03	Toro Combo, 4300-D	Mulching	G3	22"	1/2"	2.50"	.187"	
94-076	114-0434-03	Toro High Lift, 4300-D	Standard	OEM	22"	1/2"	2.50"	.250"	
396-735	107-3193	Toro 48" Cut Turbo Force Decks Built 2010 and Later	Mulching	G6	16 1/2"	5/8"	3.00"	.250"	
396-764	105-7711-03	Toro Turbo Force Deck 72" Cut	Mulching	G6	24 1/2"	5/8"	3.00"	.250"	

This is a partial list of JRM mower blades. Others are available. Contact the JRM Customer Service Department (888-576-7007) if you cannot find blade you need.



### JRM's newest innovation in turf maintenance Solid DILLENNIUM Fairway Tines

JRM, Inc. has developed a solid deep tine that is proving extremely valuable in the field. In testing, these DILLENNIUM®-tipped solid tines have lasted nearly 60 acres before switching them out--meaning you can aerify more than 18 holes of fairways and tees. The DILLENNIUM® tip will ensure a consistent hole depth throughout your aerification. Currently, we will offer tines to fit your conventional Toro® and John Deere® machines. We are still in the testing phase on tines longer than 8 inches. We hope to correct those issues soon, but right now we recommend the 6.75" tines as they are holding strong in a variety of soil conditions. If you need a different length or mount size, we will have the flexibility to special make a part for you. Contact our customer service department (888.576.7007) for pricing and allow 3-5 weeks to manufacture.

### Solid DILLENNIUM Fairway Tines



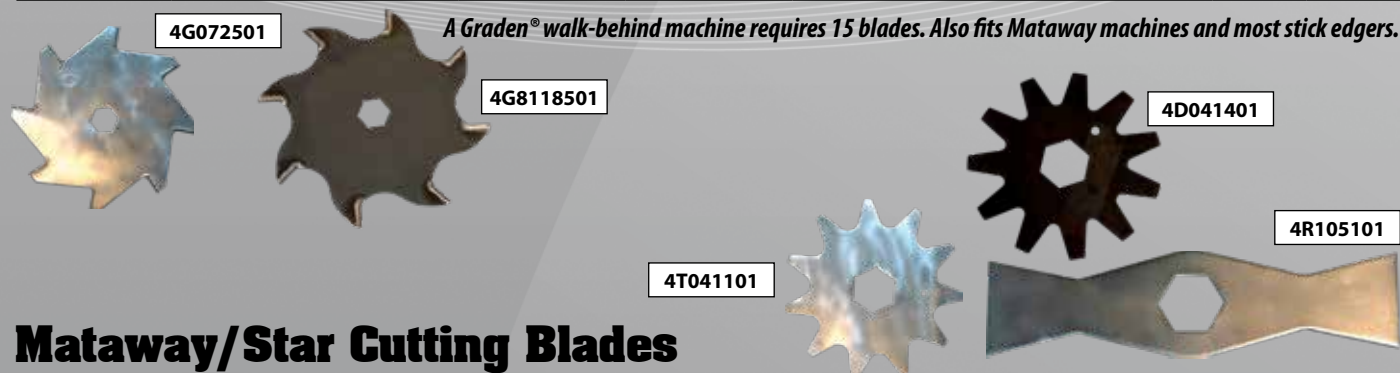
Part No.	Description	Length	Mount	OD	Price
2D875501	DILLENNIUM 7/8" Solid Fairway Tine	6 3/4"	7/8"	.875"	
2D875502	DILLENNIUM 7/8" Solid Fairway Tine	6 3/4"	3/4"	.875"	



## DILLENNIUM® Graden® cutting blades



Part No.	JRM Description	Blade Diameter	Blade Thickness	Replacement Description	Width	Price
4G031501	1/32" DILLENNIUM® Graden® blade	7 1/2"	1mm	Graden® GS04 Verti-cut machine	.045"	
4G060501	1/16" DILLENNIUM® Graden® blade	7 1/2"	2mm	Graden® Verti-cut machine	.075"	
4G072501	1/10" DILLENNIUM® Graden® blade	7 1/2"	2.5mm	Graden® Verti-cut machine	.100"	
4G125501	1/8" DILLENNIUM® Graden® blade	7 1/2"	3mm	Graden® Verti-cut machine	.125"	
4G8046501	1/32" DILLENNIUM® Graden® blade	8 1/4"	1mm	Graden® GBS 1200, SW04 Swing-Wing Verti-Cutter, CSI Contour Sand Injector Verti-Cutter	.045"	
4G8079501	1/16" DILLENNIUM® Graden® blade	8 1/4"	2mm	Graden GBS 1200, SW04 Swing-wing Verti-cutter, CSI Contour Sand injector Verti-cutter	.075"	
4G8118501	1/10" DILLENNIUM® Graden® blade	8 1/4"	2.5mm	Graden GBS 1200, SW04 Swing-wing Verti-cutter, CSI Contour Sand injector Verti-cutter	.100"	
4G8125501	1/8" DILLENNIUM® Graden® blade	8 1/4"	3mm	Graden GBS 1200, SW04 Swing-wing Verti-cutter, CSI Contour Sand injector Verti-cutter	.125"	



## Mataway/Star Cutting Blades

Part No.	JRM Description	Blade Diameter	Arbor Size	Replacement Description	Price
4R031101	1/32" Mataway Blade	7 1/4"	1"	1/32" Ryan® Mataway Machine	
4R062101	1/16" Mataway Blade	7 1/4"	1"	1/16" Ryan® Mataway Machine	
4R105101	1/8" Mataway Blade	7 1/4"	1"	1/8" Ryan® Mataway Machine	
4T041101	Star Verti-cut blade for Toro®	5"	1.125"	1/32" Toro® Reel Verti-cut blade OEM# 17-1590; 111 required	
4T041132	Toro® Verti-cut Reel Star Blade	5"	1.325"	1/32" Toro® GR3320 Triflex Mower Blade OEM# 121-6674	
4J041401	Star Verti-cut blade for Jacobsen®	5"	1"	Star blade replacements for Jacobsen #335449	
4D041401	Star Verti-cut blade for John Deere®	5"	1.125"	Star blade replacements for John Deere #AMT2703	

## DILLENNIUM® Vortex Verti® Cutting Blades



Part No.	JRM Description	Blade Diameter	Arbor	Replacement Description	Price
4VD079501	DILLENNIUM® Vortex Verti® blade	5"	1.140"	Hexagonal mount, 2mm for John Deere®	
4VD047501	DILLENNIUM® Vortex Verti® blade	5"	1.140"	Hexagonal mount, 1.2mm for John Deere®	
4VJ079501	DILLENNIUM® Vortex Verti® blade	5"	1.140"	Square mount, 2mm for Jacobsen/Ransome®	
4VJ047501	DILLENNIUM® Vortex Verti® blade	5"	1.140"	Square mount, 1.2mm for Jacobsen/Ransome®	
4VT079501	DILLENNIUM® Vortex Verti® blade	5"	1.140"	Hexagonal mount, 2mm for Toro®	
4VT047501	DILLENNIUM® Vortex Verti® blade	5"	1.140"	Hexagonal mount, 1.2mm for Toro®	
4VT047502	DILLENNIUM® Vortex Verti® blade OEM # 117-6824	5"	1.325"	Hexagonal mount, 1.2mm for Toro®	
4VJS250	Vortex Verticut 1/4" Spacer for Jacobsen® Mowers		1.140"	Spacers attachable for spacing of 1/2", 3/4", 1"	



Part No.	Spacer Size	Number Of Blades Required
John Deere®	1/2"	117
	3/4"	81
	1"	60
TORO®	1/2"	111
	3/4"	78
	1"	60
Jacobsen® & Ransome®	1/2"	111
	3/4"	78
	1"	60



1N100103

1N750102



## Closed Spoon Tines

Part No.	JRM Description	Total Length	Replacement Description	Price
1N100103	JRM Closed Spoon 1" split, two-hole mount	8.5"	Hahn-Westpoint® .9" and similar (H-W3556)	
1N750102	JRM Closed Spoon 3/4" split, one-hole mount	7.5"	Ryan Renovaire-Tracaire® .9" and similar	

## Mounting Blocks

★ Turf Guards must be detached from your machine to use the 14-hole blocks.

Part No.	JRM Description	Blocks Per Set	Price Per Block	Price Per Set
★ 1B200101	.200" 14-Hole Seeder tine block for Toro Procore 648	Set=6 blocks	\$96.29	
1B250102	.250" 10-Hole Needle Tine Block for Toro Procore 648	Set=6 blocks	\$96.29	
1B375102	.375" 10-Hole Quad Tine Block for Toro Procore 648	Set=6 blocks	\$96.29	
1B375101	3/8" Quad Block for Toro® Walking Greens Aerifier	Set=4 blocks	\$93.52	
1B375103	3/8" Quad Block for John Deere® 1500 (also fits 2000) 9" long, 7 holes	Set= 6 blocks	\$128.61	

1B375101



1B375103



1B200101



1B250102



Please note that Tine Holders are specific to certain manufacturers and are very unlikely to work on alternative brands as tines might. Tine Holders are usually purchased in sets of four or more (typically one for each "arm" on the aerification machine). All JRM Tine Holders are made of high-grade steel and machined. Most OEM blocks are cast.

## Rake Prongs

All of our Rake Prongs (also known as rake teeth) are designed specifically for the Toro® Sand Pro machine. The 9T375100 is a standard length rake prong (3.15"), and we also offer a shorter rake prong 9T375150 (2.65") for customers that have shallow liners in their sand traps.

JRM offers a circular rake prong (9T375500) designed to avoid catching the shallow liners in many sand traps. It also screws into the block, which allows you to control the depth of the rake prong when it enters the sand.

## Rake Prongs

9T375500



Part No.	JRM Description	O.D.	I.D.	Machines	Price
9T375100	JRM Rake Prong 3.15" long (27 per set)	3/8"	Solid	For Toro® Sand Pro	
9T375150	JRM Rake Prong 2.65" long (27 per set)	3/8"	Solid	For Toro® Sand Pro	
9T375175	JRM Rake Prong 2.10" long (27 per set)	3/8"	Solid	For Toro® Sand Pro	

Part No.	JRM Description	Hole Diameter	Mount diameter	Length	Machines	Price
9T375500	JRM Circular Rake Prong 4" long (27 per set)	1"	3/8" threaded	4"	Toro Sand Pro	

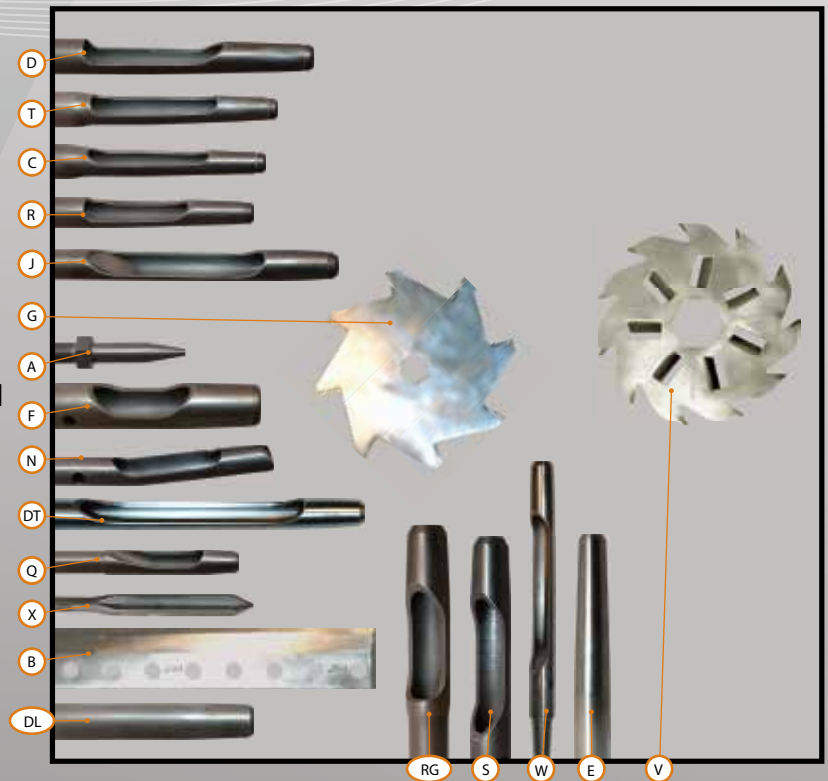
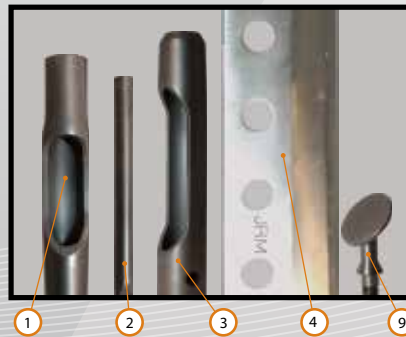


**The first character is the part Type.**

- 1 = Hollow Aerification Tine**
- 2 = Solid Aerification Tine**
- 3 = Tube Only (no shank), roll pin included**
- 4 = Blade**
- 9 = Miscellaneous Part/Adapter**

**The second character designates the manufacturer on whose equipment the part is designed to work or family of tines.**

- D = John Deere®**
- T = Toro®**
- C = Coremaster®**
- R = Ryan®**
- J = Jacobsen®**
- G = Graden®**
- A = Aerovator®**
- F = Fairway**
- N = Drum style aerifier**
- DT = Deep Tine [ie. VERTI-DRAIN® & Soil Reliever®]**
- Q = Quad Tine**
- X = CROSSTINES®**
- B = Tine Holder and Bedknife**
- DL = DILLENNIUM® Lite**
- RG = Greenbay**
- S = Side-eject [ie. FS= Fairway, Side-eject]**
- W = Wiedenmann®**
- E = Economy**
- V = DILLENNIUM® Vortex**



**The next three characters designate the size of the part as a decimal fraction.**

**The next two characters identify the general group for this part.**

- 100 Series = a standard or Premium part**
- 500 Series = a "vastly improved" and unique item (DILLENNIUM®)**



**The last character is the individual item within the previously identified type, manufacturer, size, and group.**



**Example** — Part number **1 TS 625 50 1** is a:

**5/8" DILLENNIUM®, side-eject aerification tine, that will fit on a Toro®**

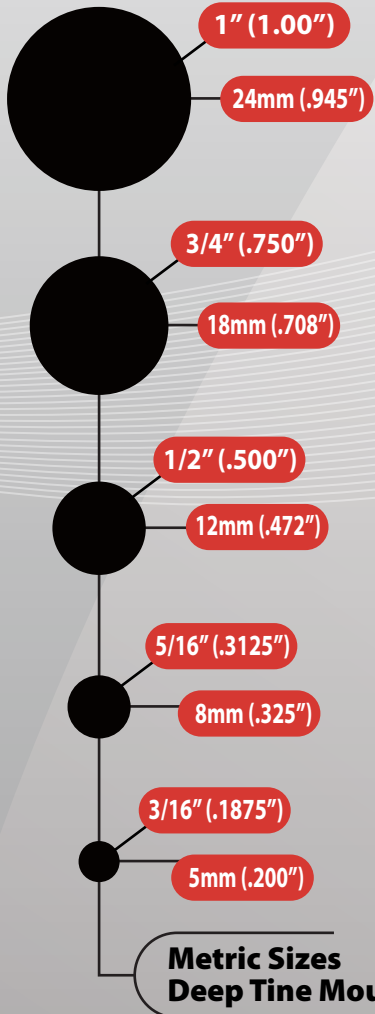
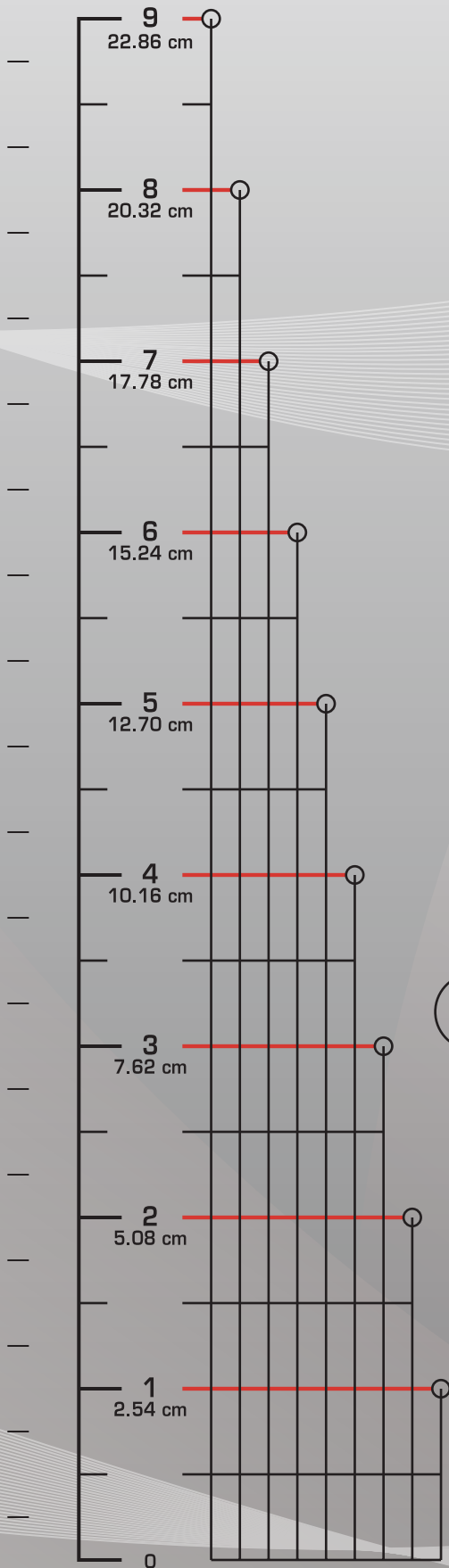
The terminology and specification conventions we use to describe both conventional and deep tines were not created by JRM. In actuality, they have been in existence for many years. There are two critical measurements necessary to selecting the correct tine: total length and mounting diameter. The total length necessity is easy to understand ... a tine that is too long for a specific machine will cause a very big problem, plowing. If the mounting diameter is incorrect, the tine will simply not fit in the machine's mounting bracket.

The OD (outside diameter) on a Deep Tine is, by tradition, the outside diameter of the original production stock (tubular steel). On Conventional Tines, the OD is considered the measurement at the tapered end. These two measurements will vary since all tines must have a taper in order to pull a core.

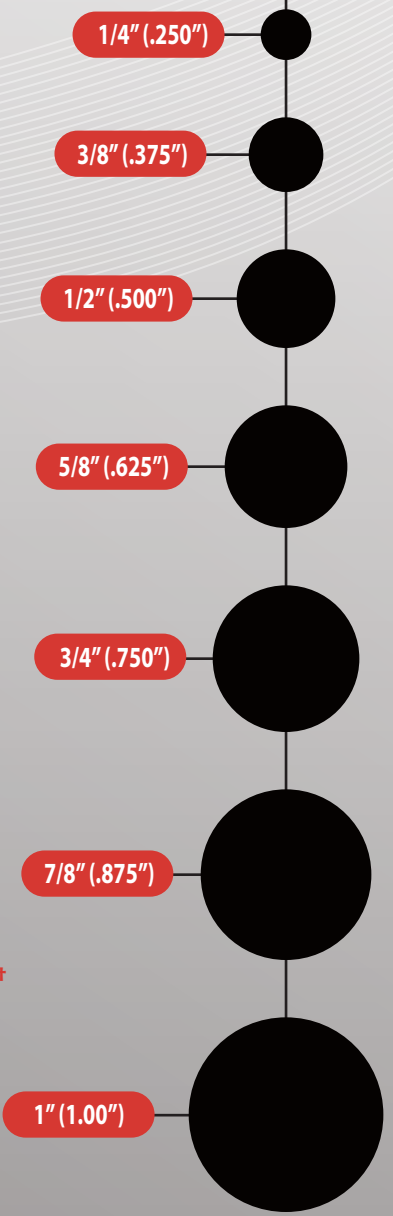
The ID (inside diameter) is the cutting measurement that will result in the diameter of each core. Carefully consider the tine's ID, since it will determine the diameter of each core. When deciding whether to purchase a DILLENNIUM® tine or a Premium tine one should consider the soil quality/makeup. Since a DILLENNIUM® tine will outlast a Premium tine by a factor of three or four, the choice should be clear. However, if you are likely to encounter excessive rocks or other foreign material you may wish to consider a Premium tine. A Premium tine simply offers less financial loss if a tine breaks but less overall value.





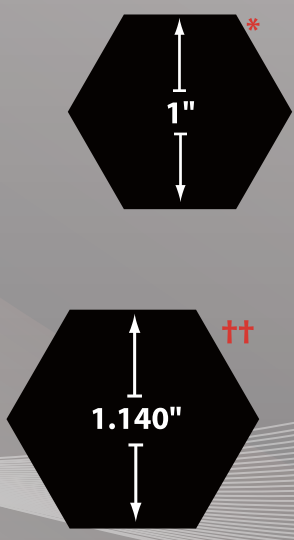


**U.S. Standard Sizes**

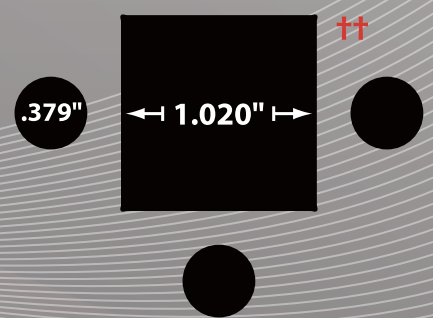


**Graden® & Ryan® Mataway blades\*  
DILLENNIUM® Vortex VERTI® blades††**

**Hex Mounts**



**Square Mount**



***The mounting diameter of your machine, and the proper length of tine needed for your aerification are the two most important factors you should consider when selecting the correct tine.***

Located below is a list of the most popular machines from Toro®, John Deere®, Ryan®, VERTI-DRAIN®, Soil Reliever®, and Wiedenmann®, and the corresponding mounting diameter options available for each machine.

The smaller mounts (1/2", 3/8") represent the Quad blocks used for our Quad line and solid/venting tines, and we also offer CROSSTINES® and solid tines to fit these machines.

Please take note of the unique mounts for the Wiedenmann® machines as well. The machines require the 8mm, 12mm dimple mount, or the 1:10 and 1:4 conical screw mount. Please consult your machine manual before choosing a tine.

This chart will help you determine what mounts can fit on your specific machine and determine what type of options you have when selecting a tine.

Also pay attention to a tine's length. All machines are different. Toro® and John Deere® machines can take a tine longer than 6", but Ryan® has a recommended tine height of 4.5". So if you plan to use a tine longer than the recommended height, please keep a close eye on the tines during aerification to make sure they are not creating a plowing effect on your greens.

Machine	Recommended Max. Length (Working Depth)	3/8" Mount	1/2" Mount	5/8" Mount	3/4" Mount	7/8" Mount	8mm Mount	12mm Mount	18mm Mount	24mm Mount
Toro® Greens Aerator	4.5"	X			X	X				
Toro® ProCore 648	6.5"	x			x	x				
Toro® ProCore 864/1298	7"	x			x	x				
Toro® ProCore 440/660/880	7"	x			x	x				
Toro® Fairway Aerifier	7"				x	x				
John Deere® 800	5.5"	x			x	x				
John Deere® 1000	7"				x	x				
John Deere® 1500	7"				x	x				
John Deere® 2000	7"				x	x				
Ryan® GA-24	4.5"	x	x	x	x					
Ryan® GA-30/60	5.5"	x	x	x	x	x				
Coremaster® 6/12	5"				(.730)					
Coremaster® Precision 1200/1560	5"					(.835)				
VERTI-DRAIN® 7007/7007H/7110/7113/7117	6"						x	x	x	
VERTI-DRAIN® 7120	8"						x	x	x	
VERTI-DRAIN® 7212/7215	10"							x	x	x
VERTI-DRAIN® 7416	14"							x	x	x
VERTI-DRAIN® 7626/7316/7521/7526	16"							x	x	x
Soil Reliever® (SR) 54	10"							x	x	
Soil Reliever® (SR) 48	12"							x	x	
Soil Reliever® (SR) 72/75HD/80	16"							x	x	
Wiedenmann® Terra Spike GXi/XF/XD/XP	10"						(Dimple)	(Dimple)	(Conical screw)	
Wiedenmann® Greens Terra Spike	10"						(Dimple)	(Dimple)	(Conical screw)	



JRM offers a wide variety of conventional coring tines to adhere to all of your aeration needs. JRM standard coring tines are made to fit most John Deere®, Toro®, Coremaster®, Jacobsen®, and Ryan® aeration machines.

**Premium tines**—JRM Premium coring tines are made of High-quality/high-alloy steel, but they will not last as long as a DILLENNIUM® coring tine. JRM offers a wide variety of lengths and outside diameters in side-eject and top-eject to fit your specific needs.

**DILLENNIUM® tines**—JRM's DILLENNIUM® conventional coring tines are the longest lasting tines on the market. JRM's unique carbide tip will last much longer than a Premium tine. DILLENNIUM® tines can last on average 130,000 sq. feet. The longer use-life of a DILLENNIUM® tine will significantly reduce "down time" and therefore reduce your labor hours.

The most significant advantage of DILLENNIUM® tines is that every core you pull, from green 1 to 18, will be exactly the same length. This assures that the water and nutritional uptake is consistent from green to green.

**Selecting the correct tine**—There are several important characteristics one should keep in mind when deciding which JRM tine to order. Most JRM tines, when compared to an OEM tine, have a wall that is slightly thicker. This is necessary to provide extra wear and strength. It is extremely important that you select the correct mount diameter, preferred tine length, and ideal inside (core) and outside (hole) diameters. Once that is accomplished, you have found your ideal tine. Before you make a final selection, make sure you check our machine specification list on Page 20 of our catalog to be aware of the length and mount specifications of your machine.

**New DILLENNIUM® tip**—We modified the design of our DILLENNIUM® tip for our conventional coring tines. The tip is slightly thinner but still durable. The goal of this modification was to achieve a cleaner core and still enjoy the durability of a DILLENNIUM® tine.

**Heavy-duty DILLENNIUM® tip**—JRM offers four ½" Heavy-duty DILLENNIUM-tipped tines with a ¾" mount diameter for Toro® and John Deere® machines. It is thicker than our standard DILLENNIUM® tip. Although it won't pull as clean of a core as our current tip, it will hold up under the most strenuous soil conditions.



# CONVENTIONAL CORING TINES


# John Deere®

## Replacement parts for John Deere®

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Dia.	I.D.	O.D.	Wall	Alt. Part	Price
1DS375503	DILLENNIUM® 3/8" side-eject tine	4.5"	5/8"	.270"	.425"	.072"	1RS375501	
1D375101	Premium 3/8" top-eject tine	5.5"	3/4"	.285"	.450"	.072"	n/a	
1DS375101	Premium 3/8" side-eject tine	5.5"	3/4"	.285"	.450"	.072"	n/a	
1DS375504	DILLENNIUM® 3/8" side-eject tine	5"	3/4"	.270"	.425"	.072"	1TS375501	
1DS375501	DILLENNIUM® 3/8" side-eject tine	5.75"	3/4"	.270"	.425"	.072"	n/a	
1D500103	Premium 1/2" top-eject tine	4.25"	5/8"	.400"	.580"	.072"	1R500101	
1D500503	DILLENNIUM® 1/2" top-eject tine	4.5"	5/8"	.400"	.570"	.072"	1R500501	
1D500503	DILLENNIUM® 1/2" side-eject tine	4.5"	5/8"	.400"	.570"	.072"	1RS500501	
1D500104	Premium 1/2" top-eject tine	4.75"	3/4"	.390"	.580"	.072"	n/a	
1D500504	DILLENNIUM® 1/2" top-eject tine	5"	3/4"	.400"	.570"	.072"	1TS500501	
1D500504	DILLENNIUM® 1/2" side-eject tine	5"	3/4"	.400"	.570"	.072"	1TS500501	
1D500101 (JD #TCU17343)	Premium 1/2" top-eject tine	5.5"	3/4"	.400"	.580"	.072"	1TS500102	
1D5500101	Premium 1/2" side-eject tine	5.5"	3/4"	.400"	.580"	.072"	1TS500102	
1D500501 (JD #TCU17344)	DILLENNIUM® 1/2" top-eject tine	5.75"	3/4"	.400"	.570"	.072"	1TS500502	
1D5500501	DILLENNIUM® 1/2" side-eject tine	5.75"	3/4"	.400"	.570"	.072"	1TS500502	
1D500105	Premium 1/2" top-eject tine	6"	3/4"	.400"	.580"	.072"	1TS500105	
1D5500105	Premium 1/2" side-eject tine	6"	3/4"	.400"	.580"	.072"	1TS500105	
1D500505	DILLENNIUM® 1/2" top-eject tine	6.25"	3/4"	.400"	.570"	.072"	1TS500505	
1D500505	DILLENNIUM® 1/2" side-eject tine	6.25"	3/4"	.400"	.570"	.072"	1TS500505	
1D500552	DILLENNIUM® 1/2" top-eject tine (with heavy-duty DILLENNIUM® tip)	5.75"	3/4"	.350"	.525"	.072"	1TS500552	
1D5500552 (JD #TCU17345)	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	5.75"	3/4"	.350"	.525"	.072"	1TS500552	
1D500556	DILLENNIUM® 1/2" top-eject tine (with heavy-duty DILLENNIUM® tip)	6.25"	3/4"	.350"	.525"	.072"	1TS500556	
1D5500556	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	6.25"	3/4"	.350"	.525"	.072"	1TS500556	
1D625103	Premium 5/8" top-eject tine	4.25"	3/4"	.490"	.660"	.072"	1R625101	
1D625503	DILLENNIUM® 5/8" top-eject tine	4.5"	3/4"	.480"	.630"	.072"	1R625501	
1DS625503	DILLENNIUM® 5/8" side-eject tine	4.5"	3/4"	.480"	.630"	.072"	1RS625501	
1D625104	Premium 5/8" top-eject tine	4.75"	3/4"	.490"	.660"	.072"	1T625101	
1D625504	DILLENNIUM® 5/8" top-eject tine	5"	3/4"	.480"	.630"	.072"	1T625501	
1DS625504	DILLENNIUM® 5/8" side-eject tine	5"	3/4"	.480"	.630"	.072"	1TS625501	
1D625101 (JD #TCU17335)	Premium 5/8" top-eject tine	5.5"	3/4"	.490"	.660"	.072"	1T625102	
1DS625101	Premium 5/8" side-eject tine	5.5"	3/4"	.490"	.660"	.072"	1TS625102	
1D625501 (JD #TCU17336)	DILLENNIUM® 5/8" top-eject tine	5.75"	3/4"	.480"	.630"	.072"	1T625502	
1DS625501 (JD #TCU17337)	DILLENNIUM® 5/8" side-eject tine	5.75"	3/4"	.480"	.630"	.072"	1TS625502	
1D625105	Premium 5/8" top-eject tine	6"	3/4"	.490"	.660"	.072"	1T625105	
1DS625105	Premium 5/8" side-eject tine	6"	3/4"	.490"	.660"	.072"	1TS625105	
1D625505	DILLENNIUM® 5/8" top-eject tine	6.25"	3/4"	.480"	.630"	.072"	1T625505	
1DS625505	DILLENNIUM® 5/8" side-eject tine	6.25"	3/4"	.480"	.630"	.072"	1TS625505	
1D750101 (JD #TCU17454)	Premium 3/4" top-eject tine	6"	7/8"	.570"	.765"	.095"	n/a	
1DS750101	Premium 3/4" side-eject tine	6"	7/8"	.570"	.765"	.095"	1TS750102	
1D750501 (JD #TCU17340)	DILLENNIUM® 3/4" top-eject tine	6.25"	7/8"	.535"	.745"	.095"	1T750502	
1DS750501 (JD #TCU17341)	DILLENNIUM® 3/4" side-eject tine	6.25"	7/8"	.535"	.745"	.095"	1TS750502	

 DILLENNIUM®

 Premium

John Deere® is a registered trademark of John Deere Co., Research Triangle Park, NC 27709

*Value in your pocket, quality on the course.*



## Replacement parts for Toro®

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Diameter	I.D.	O.D.	Wall	Alternate Part	Price
1TS375501	DILLENNIUM® 3/8" side-eject tine	5"	3/4"	.270"	.425"	.072"	1DS375504	
1T500101	Premium 1/2" top-eject tine	4.5"	3/4"	.400"	.580"	.072"	n/a	
1T500501	DILLENNIUM® 1/2" top-eject tine	5"	3/4"	.400"	.570"	.072"	1D500504	
1TS500501	DILLENNIUM® 1/2" side-eject tine	5"	3/4"	.400"	.570"	.072"	1DS500504	
1T500102	Premium 1/2" top-eject tine	5.5"	3/4"	.400"	.580"	.072"	1D500101	
1TS500102	Premium 1/2" side-eject tine	5.5"	3/4"	.400"	.580"	.072"	1DS500101	
1T500502	DILLENNIUM® 1/2" top-eject tine	5.75"	3/4"	.400"	.570"	.072"	1D500501	
1TS500502	DILLENNIUM® 1/2" side-eject tine	5.75"	3/4"	.400"	.570"	.072"	1DS500501	
1T500105	Premium 1/2" top-eject tine	6"	3/4"	.400"	.580"	.072"	1D500105	
1TS500105	Premium 1/2" side-eject tine	6"	3/4"	.400"	.580"	.072"	1DS500105	
1T500505	DILLENNIUM® 1/2" top-eject tine	6.25"	3/4"	.400"	.570"	.072"	1D500505	
1TS500505	DILLENNIUM® 1/2" side-eject tine	6.25"	3/4"	.400"	.570"	.072"	1DS500505	
1T500552	DILLENNIUM® 1/2" top-eject tine (with heavy-duty DILLENNIUM® tip)	5.75"	3/4"	.350"	.525"	.072"	1D500552	
1TS500552	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	5.75"	3/4"	.350"	.525"	.072"	1DS500552	
1T500556	DILLENNIUM® 1/2" top-eject tine (with heavy-duty DILLENNIUM® tip)	6.25"	3/4"	.350"	.525"	.072"	1D500556	
1TS500556	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	6.25"	3/4"	.350"	.525"	.072"	1DS500556	
1T625101	Premium 5/8" top-eject tine	4.75"	3/4"	.490"	.650"	.072"	1D625104	
1T625501	DILLENNIUM® 5/8" top-eject tine	5"	3/4"	.480"	.630"	.072"	1D625504	
1TS625501	DILLENNIUM® 5/8" side-eject tine	5"	3/4"	.480"	.630"	.072"	1DS625504	
1T625102	Premium 5/8" top-eject tine	5.5"	3/4"	0.49	0.66	0.072	1D625101	
1TS625102	Premium 5/8" side-eject tine	5.5"	3/4"	.490"	.660"	.072"	1DS625101	
1T625502	DILLENNIUM® 5/8" top-eject tine	5.75"	3/4"	.480"	.630"	.072"	1D625501	
1TS625502	DILLENNIUM® 5/8" side-eject tine	5.75"	3/4"	.480"	.630"	.072"	1DS625501	
1T625105	Premium 5/8" top-eject tine	6"	3/4"	.490"	.660"	.072"	1D625105	
1TS625105	Premium 5/8" side-eject tine	6"	3/4"	.490"	.660"	.072"	1DS625105	
1T625505	DILLENNIUM® 5/8" top-eject tine	6.25"	3/4"	.480"	.630"	.072"	1D625505	
1TS625505	DILLENNIUM® 5/8" side-eject tine	6.25"	3/4"	.480"	.630"	.072"	1DS625505	
1TS625106	Premium 5/8" side-eject tine	6.25"	3/4"	.490"	.660"	.072"	n/a	
1TS625506	DILLENNIUM® 5/8" side-eject tine	6.50"	3/4"	.480"	.630"	.072"	n/a	
1T750101	Premium 3/4" top-eject tine	5"	7/8"	.555"	.765"	.095"	n/a	
1T750501	DILLENNIUM® 3/4" top-eject tine	5.25"	7/8"	.535"	.745"	.095"	n/a	
1TS750501	DILLENNIUM® 3/4" side-eject tine	5.25"	7/8"	.535"	.745"	.095"	n/a	
1TS750102	Premium 3/4" side-eject tine	6"	7/8"	.555"	.765"	.095"	1DS750101	
1T750502	DILLENNIUM® 3/4" top-eject tine	6.25"	7/8"	.535"	.745"	.095"	1D750501	
1TS750502	DILLENNIUM® 3/4" side-eject tine	6.25"	7/8"	.535"	.745"	.095"	1DS750501	

DILLENNIUM®  Premium

TORO® is a registered trademark of The Toro Company, Bloomington, MN 55420

## Replacement parts for Ryan®

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Diameter	I.D.	O.D.	Wall	Alternate Part	Price
1RS375502	DILLENNIUM® 3/8" side-eject tine	4.5"	3/4"	.270"	.425"	.072"	n/a	
1RS00101	Premium 1/2" top-eject tine	4.25"	5/8"	.380"	.535"	.072"	1D500103	
1RS00501	DILLENNIUM® 1/2" top-eject tine	4.5"	5/8"	.350"	.525"	.072"	1D500503	
1RS500501	DILLENNIUM® 1/2" side-eject tine	4.5"	5/8"	.395"	.540"	.072"	1D5500503	
1RS00102	Premium 1/2" top-eject tine	4.25"	3/4"	.380"	.540"	.072"	n/a	
1RS00502	DILLENNIUM® 1/2" top-eject tine	4.5"	3/4"	.350"	.525"	.072"	n/a	
1RS500502	DILLENNIUM® 1/2" side-eject tine	4.5"	3/4"	.395"	.540"	.072"	n/a	
1R625101	Premium 5/8" top-eject tine	4.25"	3/4"	.480"	.650"	.072"	1D625103	
1RS625101	Premium 5/8" side-eject tine	4.25"	3/4"	.490"	.650"	.072"	n/a	
1R625501	DILLENNIUM® 5/8" top-eject tine	4.5"	3/4"	.480"	.630"	.072"	1D625503	
1RS625501	DILLENNIUM® 5/8" side-eject tine	4.5"	3/4"	.480"	.630"	.072"	1D5625503	

Ryan® is a registered trademark of TEXTRON Turf Care and Specialty Products, Racine, WI 53403

## Replacement parts for Coremaster®

Part No.	JRM Description	Length	Mount Diameter	I.D.	O.D.	Wall	Price
1CS375501▲	DILLENNIUM® 3/8" side-eject tine	4.75"	.730"	.270"	.425"	.072"	
1CS00101▲	Premium 1/2" top-eject tine	4.5"	.730"	.390"	.550"	.072"	
1CS00501▲	DILLENNIUM® 1/2" top-eject tine	4.75"	.730"	.395"	.540"	.072"	
1C625101▲	Premium 5/8" top-eject tine	4.5"	.835"	.490"	.650"	.072"	

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▲ Available while supplies last.

Coremaster® is a registered trademark of GREENCARE®, Caringbah, NSW 2229 Australia

 DILLENNIUM®  Premium

### JRM Economy Tines

The JRM Economy tines are an improved, straight-carbon steel with an excellent cost-to-performance ratio. Our walls are thicker than most OEM's at this price level. The added thickness and better metal provides an excellent value.

JRM introduced a new rolled tine with a standard 3/4" mount. Both of our rolled tines feature a thick wall (.134") and are perfectly suited for aerating ball fields and for landscaping.



1E500101



1ES875102

## JRM Economy Tines

Part No.	JRM Description	Length	Mount Diameter	I.D.	O.D.	Wall	Price
1E375101	3/8" JRM Economy Top-eject Tine	4.5"	3/4"	.350"	.460"	.055"	
1E375102 (JD #TCU17449)	3/8" JRM Economy Top-eject Tine	5"	3/4"	.350"	.460"	.055"	
1E500101▲	1/2" JRM Economy Top-eject Tine	4.5"	3/4"	.445"	.555"	.055"	
1E500102	1/2" JRM Economy Top-eject Tine	5"	3/4"	.445"	.555"	.055"	
1E500104 (JD #TCU17450)	1/2" JRM Economy Top-eject Tine	6"	3/4"	.445"	.555"	.055"	
1E625101	5/8" JRM Economy Top-eject Tine	4.5"	3/4"	.545"	.655"	.055"	
1E625102	5/8" JRM Economy Top-eject Tine	5"	3/4"	.545"	.655"	.055"	
1E625104 (JD #TCU17451)	5/8" JRM Economy Top-eject Tine	6"	3/4"	.545"	.655"	.055"	
1ES750101	3/4" JRM Economy Side-eject Rolled Tine	5.5"	3/4"	.620"	.875"	.134"	
1ES875102	7/8" JRM Economy Side-eject Rolled Tine	5.5"	7/8"	.620"	.875"	.134"	

Discontinued

▲ Available while supplies last.



# Economy Tines/DILLENNIUM® Lite Tines **CONVENTIONAL CORING TINES**

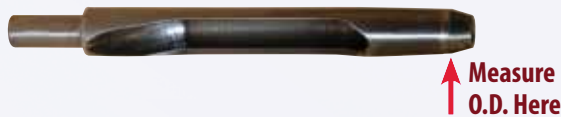
**5/8" DILLENNIUM® Quad**—JRM offers seven 5/8" Quad tines, including a full-line of DILLENNIUM® tip options. A majority of these will feature a 3/8" mount diameter in lengths of 4.5", 5.5", and 6". We also offer a DILLENNIUM® tine (1Q625501) with a 3/4" mount for use on standard blocks for Toro® and John Deere®

**Quad tine overview**—Quad tines are the smallest and least invasive coring tines available in our Standard Quad (1/4") and SuperQuad™ (3/8") lines. We also offer some of the largest Quad tines on the market with our line of Magnum Quad Plus™ tines. Our Quad tines are milled from a single rod for enhanced strength and longevity. Quads also come with varying wall thicknesses for extra life. Quad tines are ideal for use during times of stress, or when a short grow-in period is desired. Quads can be used in standard mounting blocks (3/4" mount), or in the closely spaced "Quad blocks" containing 6 tines per block. Popular mount sizes for the Quad blocks are 3/8" and 1/2". The DILLENNIUM® Quad provides at least twice the use-life of the premium Quad.

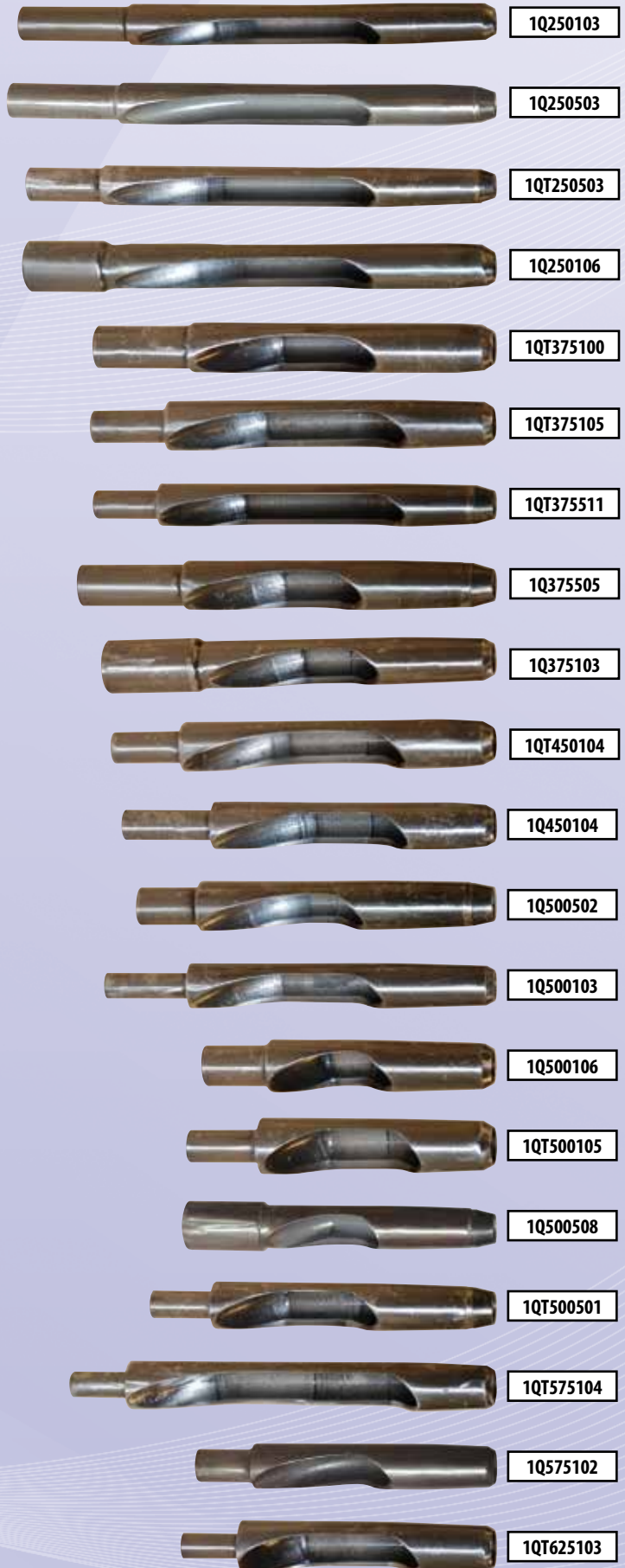
**Optimal gas exchange and thatch removal**—Quad tines come in extremely handy with the new hybrid bent and Bermuda grasses. The Quad tines are specifically designed for dethatching and maximizing gas/nutrient exchange. Quad blocks allow for closer spacing which gives you more flexibility when choosing your optimal core size.

**Toro®-shanked Quad tines**—The 3/8" mount blocks for the Toro® ProCore 648 are more shallow than all other standard blocks. To ensure a proper fit, we shortened the shank a 1/4". This doesn't affect the overall length of the tine as we simply lengthened the tube a 1/4" down the shank. You'll notice in our catalog that a "1QT" in front of the part number helps designate the Toro® ProCore 648 shanked tines.

At JRM, we are aware that every manufacturer has a different method of measuring the outside diameter of its product. We just want to clarify how we measure ours, especially with our tapered ODs for our quad line.



We determine our OD based on the initial entry of the tine into the soil. Although the OD of the tine is larger toward the mount, and that width may make the hole larger initially, the hole will always shrink back down to the size of initial entry. We measure our OD at the tip right after we cut the stock for the part. It may seem deceiving by looking at the part with the naked eye, but this is the way we've determined to get the most accurate outside diameter measurement.



## Standard Quads

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1Q250101	Premium 1/4" Quad Tine	3.5"	3/8"	.250"	.385"	.065"	
1QT250101	Premium 1/4" Quad Tine (with Toro® shank)	3.5"	3/8"	.250"	.385"	.065"	
1Q250501	DILLENNIUM® 1/4" Quad Tine	3.625"	3/8"	.250"	.370"	.065"	
1QT250501	DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	3.625"	3/8"	.250"	.370"	.065"	
1Q250105	Premium 1/4" Quad Tine	4.5"	3/8"	.250"	.385"	.065"	
1QT250105	Premium 1/4" Quad Tine (with Toro® shank)	4.5"	3/8"	.250"	.385"	.065"	
1Q250505	DILLENNIUM® 1/4" Quad Tine	4.625"	3/8"	.250"	.370"	.065"	
1QT250505	DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	4.625"	3/8"	.250"	.370"	.065"	
1Q250103 (JD #TCU17452)	Premium 1/4" Quad Tine	5"	3/8"	.250"	.385"	.065"	
1QT250103	Premium 1/4" Quad Tine (with Toro® shank)	5"	3/8"	.250"	.385"	.065"	
1QT250183	1/4" Premium INFINITY Side-eject Quad Tine W/ Toro shank	5"	3/8"	.250"	.385"	.065"	
1Q250503 (JD #TCU17453)	DILLENNIUM® 1/4" Quad Tine	5.125"	3/8"	.250"	.370"	.065"	
1QT250503	DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	5.125"	3/8"	.250"	.370"	.065"	
1QT250583	1/4" DILLENNIUM INFINITY Side-eject Quad Tine W/ Toro shank	5.125"	3/8"	.250"	.370"	.065"	
1QT250109	Premium 1/4" Side-eject Quad Tine	6"	3/8"	.250"	.385"	.065"	
1QT250509	DILLENNIUM 1/4" Side-eject Quad Tine	6.125"	3/8"	.250"	.370"	.065"	
1Q250108	Premium 1/4" Quad tine	7.18"	12mm	.250"	.385"	.065"	
1Q250102	Premium 1/4" Quad Tine	4"	1/2"	.250"	.385"	.065"	
1Q250502	DILLENNIUM® 1/4" Quad Tine	4.125"	1/2"	.250"	.370"	.065"	
1Q250106	Premium 1/4" Quad Tine	4.5"	1/2"	.250"	.385"	.065"	
1Q250506	DILLENNIUM® 1/4" Quad Tine	4.625"	1/2"	.250"	.370"	.065"	
1Q250107	Premium 1/4" Quad Tine	4"	5/8"	.250"	.385"	.065"	
1Q250507	DILLENNIUM® 1/4" Quad Tine	4.125"	5/8"	.250"	.370"	.065"	

## Super Quads™

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1Q375100	Premium 3/8" Quad Tine	3.5"	3/8"	.335"	.485"	.072"	
1QT375100	Premium 3/8" Quad Tine (with Toro® shank)	3.5"	3/8"	.335"	.485"	.072"	
1Q375500	DILLENNIUM® 3/8" Quad Tine	3.625"	3/8"	.325"	.500"	.072"	
1QT375500	DILLENNIUM® 3/8" Quad Tine (with Toro® shank)	3.625"	3/8"	.325"	.500"	.072"	
1Q375105 (JD #TCU17347)	Premium 3/8" Quad Tine	4.5"	3/8"	.335"	.485"	.072"	
1QT375105	Premium 3/8" Quad Tine (with Toro® shank)	4.5"	3/8"	.335"	.485"	.072"	
1Q375505 (JD #TCU17348)	DILLENNIUM® 3/8" Quad Tine	4.625"	3/8"	.325"	.500"	.072"	
1Q375585	3/8" DILLENNIUM INFINITY Side-eject Quad Tine	4.625"	3/8"	.325"	.500"	.072"	
1QT375505	DILLENNIUM® 3/8" Quad Tine (with Toro® shank)	4.625"	3/8"	.325"	.500"	.072"	
1Q375111	Premium 3/8" Quad Tine	5"	3/8"	.335"	.485"	.072"	
1QT375111	Premium 3/8" Quad Tine (with Toro® shank)	5"	3/8"	.335"	.485"	.072"	
1QT375181	3/8" Premium INFINITY Side-eject Quad Tine W/ Toro shank	5"	3/8"	.335"	.485"	.072"	
1Q375511	DILLENNIUM® 3/8" Quad Tine	5.125"	3/8"	.325"	.500"	.072"	
1QT375511	DILLENNIUM® 3/8" Quad Tine (with Toro® shank)	5.125"	3/8"	.325"	.500"	.072"	
1QT375581	3/8" DILLENNIUM INFINITY Side-eject Quad Tine W/ Toro shank	5.125"	3/8"	.325"	.500"	.072"	
1QT375113	Premium 3/8" Quad Tine (with Toro® shank)	6"	3/8"	.335"	.485"	.072"	
1QT375513	DILLENNIUM® 3/8" Quad Tine (with Toro® shank)	6"	3/8"	.325"	.500"	.072"	
1Q375101	Premium 3/8" Quad Tine	3.5"	1/2"	.335"	.485"	.072"	
1Q375501	DILLENNIUM® 3/8" Quad Tine	3.625"	1/2"	.325"	.500"	.072"	
1Q375102	Premium 3/8" Quad Tine	4.5"	1/2"	.335"	.485"	.072"	
1Q375502	DILLENNIUM® 3/8" Quad Tine	4.625"	1/2"	.325"	.500"	.072"	
1Q375103	Premium 3/8" Quad Tine	4.5"	5/8"	.335"	.485"	.072"	
1Q375503 ▲	DILLENNIUM® 3/8" Quad Tine	4.625"	5/8"	.325"	.500"	.072"	
1Q375104	Premium 3/8" Quad Tine	4.5"	3/4"	.335"	.485"	.072"	
1Q375504	DILLENNIUM® 3/8" Quad Tine	4.625"	3/4"	.325"	.500"	.072"	

Discontinued

▲ Available while supplies last.

All "QT" parts have a shortened shank designed for the Toro ProCore® Series 648 aerifier

DILLENNIUM®
  Premium
  INFINITY



## Magnum Lite™ Tines

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1Q450104 ▲	Premium Magnum Lite™ Tine	4.5"	3/8"	.350"	.490"	.065"	
1QT450104 ▲	Premium Magnum Lite™ Tine (with Toro® shank)	4.5"	3/8"	.350"	.490"	.065"	
1Q450102 ▲	Premium Magnum Lite™ Tine	4.5"	1/2"	.350"	.490"	.065"	
1Q450101 ▲	Premium Magnum Lite™ Tine	4.5"	5/8"	.350"	.490"	.065"	

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▲ Available while supplies last.

## Premium/DILLENNIUM® Magnum Quad™ Tines

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1QT500105	Premium 1/2" Magnum Quad™ Tine (with Toro® shank)	3.5"	3/8"	.400"	.550"	.072"	
1Q500505	DILLENNIUM® 1/2" Magnum Quad™ Tine	3.625"	3/8"	.400"	.575"	.072"	
1QT500505	DILLENNIUM® 1/2" Magnum Quad™ Tine (with Toro® shank)	3.625"	3/8"	.400"	.575"	.072"	
1Q500101	Premium 1/2" Magnum Quad™ Tine	4.5"	3/8"	.400"	.550"	.072"	
1QT500101	Premium 1/2" Magnum Quad™ Tine (with Toro® shank)	4.5"	3/8"	.400"	.550"	.072"	
1Q500501	DILLENNIUM® 1/2" Magnum Quad™ Tine	4.625"	3/8"	.400"	.575"	.072"	
1QT500501	DILLENNIUM® 1/2" Magnum Quad™ Tine (with Toro® shank)	4.625"	3/8"	.400"	.575"	.072"	
1Q500103	Premium 1/2" Magnum Quad™ Tine	5.5"	3/8"	.400"	.550"	.072"	
1QT500103	Premium 1/2" Magnum Quad™ Tine (with Toro® shank)	5.5"	3/8"	.400"	.550"	.072"	
1QT500183	1/2" Premium INFINITY Side-eject Quad Tine W/ Toro shank	5.5"	3/8"	.400"	.550"	.072"	
1Q500503	DILLENNIUM® 1/2" Magnum Quad™ Tine	5.625"	3/8"	.400"	.575"	.072"	
1QT500503	DILLENNIUM® 1/2" Magnum Quad™ Tine (with Toro® shank)	5.625"	3/8"	.400"	.575"	.072"	
1QT500583	1/2" DILLENNIUM INFINITY Side-eject Quad Tine W/ Toro shank	5.625"	3/8"	.400"	.575"	.072"	
1QT500112	Premium 1/2" Side-eject Quad Tine	6.5"	3/8"	.400"	.550"	.072"	
1QT500512	DILLENNIUM® 1/2" Side-eject Quad Tine	6.625"	3/8"	.400"	.575"	.072"	
1Q500106	Premium 1/2" Magnum Quad™ Tine	3.5"	1/2"	.400"	.550"	.072"	
1Q500506	DILLENNIUM® 1/2" Magnum Quad™ Tine	3.625"	1/2"	.400"	.575"	.072"	
1Q500102	Premium 1/2" Magnum Quad™ Tine	4.5"	1/2"	.400"	.550"	.072"	
1Q500502	DILLENNIUM® 1/2" Magnum Quad™ Tine	4.625"	1/2"	.400"	.575"	.072"	
1Q500104	Premium 1/2" Magnum Quad™ Tine	5.5"	1/2"	.400"	.550"	.072"	
1Q500504	DILLENNIUM® 1/2" Magnum Quad™ Tine	5.625"	1/2"	.400"	.575"	.072"	
1Q500107	Premium 1/2" Magnum Quad™ Tine	4.5"	5/8"	.400"	.550"	.072"	
1Q500507	DILLENNIUM® 1/2" Magnum Quad™ Tine	4.625"	5/8"	.400"	.575"	.072"	
1Q500108	Premium 1/2" Magnum Quad™ Tine	4.5"	3/4"	.400"	.550"	.072"	
1Q500508	DILLENNIUM® 1/2" Magnum Quad™ Tine	4.625"	3/4"	.400"	.575"	.072"	
1Q500111	Premium 1/2" Magnum Quad™ Tine	5.5"	3/4"	.400"	.550"	.072"	
1Q500511	DILLENNIUM® 1/2" Magnum Quad™ Tine	5.625"	3/4"	.400"	.575"	.072"	
1Q500113	Premium 1/2" Side-eject Quad Tine	6.5"	3/4"	.400"	.550"	.072"	
1Q500513	DILLENNIUM® 1/2" Side-eject Quad Tine	6.625"	3/4"	.400"	.575"	.072"	

All "QT" parts have a shortened shank designed for the Toro ProCore® Series 648 aerifier



1Q450104



INFINITY



DILLENNIUM®



Premium

1Q500508



1Q500111



## Magnum Quad Plus™ Tines

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1Q575103	Premium Mag Quad Plus™ Tine	4.5"	3/8"	.470"	.605"	.063"	
1QT575103	Premium Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.470"	.605"	.063"	
1Q575503	DILLENNIUM® Mag Quad Plus™ Tine	4.5"	3/8"	.465"	.600"	.063"	
1QT575503	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.465"	.600"	.063"	
1Q575108	Premium Mag Quad Plus™ Tine	5.30"	3/8"	.470"	.605"	.063"	
1QT575108	Premium Mag Quad Plus™ Tine (with Toro® shank)	5.30"	3/8"	.470"	.605"	.063"	
1Q575508	DILLENNIUM® Mag Quad Plus™ Tine	5.30"	3/8"	.465"	.600"	.063"	
1QT575508	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	5.30"	3/8"	.465"	.600"	.063"	
1Q575104	Premium Mag Quad Plus™ Tine	6"	3/8"	.470"	.605"	.063"	
1QT575104	Premium Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.470"	.605"	.063"	
1Q575504	DILLENNIUM® Mag Quad Plus™ Tine	6"	3/8"	.465"	.600"	.063"	
1QT575504	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.465"	.600"	.063"	
1Q575105	Premium Mag Quad Plus™ Tine	6"	12mm	.470"	.605"	.063"	
1Q575505	DILLENNIUM® Mag Quad Plus™ Tine	6"	12mm	.465"	.600"	.063"	
1Q575102	Premium Mag Quad Plus™ Tine	4.5"	1/2"	.470"	.605"	.063"	
1Q575502	DILLENNIUM® Mag Quad Plus™ Tine	4.5"	1/2"	.465"	.600"	.063"	
1Q575107	Premium Mag Quad Plus™ Tine	5"	1/2"	.470"	.605"	.063"	
1Q575507	DILLENNIUM® Mag Quad Plus™ Tine	5"	1/2"	.465"	.600"	.063"	
1Q575106	Premium Mag Quad Plus™ Tine	5.5"	3/4"	.470"	.605"	.063"	
1Q575506	DILLENNIUM® Mag Quad Plus™ Tine	5.5"	3/4"	.465"	.600"	.063"	
1Q575110	Premium .575" Side-eject Quad Tine	6.5"	3/4"	.470"	.605"	.063"	
1Q575510	DILLENNIUM .575" Side-eject Quad Tine	6.625"	3/4"	.470"	.605"	.063"	
1Q625103	Premium Mag Quad Plus™ Tine	4.5"	3/8"	.500"	.635"	.063"	
1QT625103	Premium Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.500"	.635"	.063"	
1Q625503	DILLENNIUM® Mag Quad Plus™ Tine	4.5"	3/8"	.510"	.655"	.063"	
1QT625503	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.510"	.655"	.063"	
1QT625104	Premium Mag Quad Plus™ Tine (with Toro® shank)	5.5"	3/8"	.500"	.635"	.063"	
1QT625504	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	5.5"	3/8"	.510"	.655"	.063"	
1QT625105	Premium Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.500"	.635"	.063"	
1QT625185	5/8" Premium INFINITY Side-eject Quad Tine W/ Toro shank	6"	3/8"	.500"	.635"	.063"	
1QT625505	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.510"	.655"	.063"	
1QT625585	5/8" DILLENNIUM INFINITY Side-eject Quad Tine W/ Toro shank	6"	3/8"	.510"	.655"	.063"	
1Q625101	Premium Mag Quad Plus™ Tine	5.5"	3/4"	.500"	.635"	.063"	
1Q625501	DILLENNIUM® Mag Quad Plus™ Tine	5.5"	3/4"	.510"	.655"	.063"	
1Q625102	Premium Mag Quad Plus™ Tine	6.5"	3/4"	.500"	.635"	.063"	
1Q625502	DILLENNIUM® Mag Quad Plus™ Tine	6.625"	3/4"	.510"	.655"	.063"	

All "QT" parts have a shortened shank designed for the Toro ProCore® Series 648 aerifier

INFINITY
  DILLENNIUM®
  Premium



**It's always a good time to vent**--Everyone needs to vent every now and then. And when it comes to your course's greens, there is no better time than the summer. As the temperatures rise and the rainfall decreases, the amount of golfers who come to play on finely manicured greens increases during the summer months. Our line of venting tines will help greens breathe, which allows your grass to stay healthy through the summer. The slicing aeration technique (using Bayonet™/CROSSTINES® to create lots of narrow slits in the green) is particularly useful in the summer and during periods of stress when aeration would be problematic.

The chief benefit of a venting tine is that the hole will stay open for an extremely long period of time. It is most useful for times when one wishes to aggressively aerify for a long-term benefit with reduced trauma to the greens. The Bayonet™ tine in particular is so benign that it is frequently used mid-season and does not interfere with the playability of the course.

The JRM CROSSTINES® and Bayonet™ tines sever the small fibrous roots instead of separating them. This severing action causes the plant hormone Auxin to be released that causes root branching even in times of stress. Root branching enhances root density and contributes to a stronger and healthier root mass. Our CROSSTINES® are frequently credited with saving greens in times of stress.

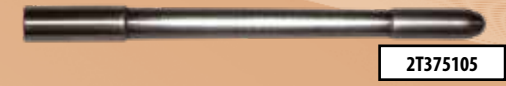
**1/4" and 1/8" solid tines**—JRM's 1/4" solid tines are the hottest selling tines in the conventional solid tine line. We have two 6" solid tines (2T250107, 2T250108) for added options. Also take note of our three 1/8" solid tines. The tines come in mount sizes of 3/8" and 1/2" and are the smallest tines available on the market.

**Aerivator tines**—The Aerivator tine is a popular tine for landscapers. It is located at the top of Page 30 in our catalog. It is a plugging tine that is 4.63" in length with a threaded mount.

**Bullet-tipped solid tines**—All of our solid and venting tines are manufactured from a single piece of cold drawn solid rod of steel to enhance strength and durability. Our entire line of conventional solid tines is now completely switched to the "360-degree bullet-style" or "Pencil-tip". This tip provides a cleaner hole and a more consistent core depth.

**SuperCross™ tines**—JRM has two .750" SuperCross™ tines available. These tines provide the optimum in aerification surface area for the maximum in gas and water exchange. The SuperCross™ should be considered when needing solid tines that provide an exceptional volume of water and oxygen exchange because of the larger wall surface on the resulting hole.

**Bayonet™ tine length reminder**—JRM offers a variety of lengths and mount diameters to fit all conventional and deep tine aerifiers. The length options are 4.75", 7", 9.5", and 11". The popular mounting options include 3/4", 3/8", and 1/2" for standard aerifiers and 12mm and 18mm for deep tine aerifiers like VERTI-DRAIN® and Soil Reliever. We also offer a dimple mount option for Wiedenmann® aerifiers.





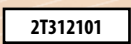
# CONVENTIONAL SOLID TINES

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

## Conventional Solid Tines

Part No.	JRM Description	Length	Mount Diameter	O.D.	Wall	Price
2DT200104	.200" Needle Tine for Toro® ProCore 648	6.125"	.200"	.200"	Solid	
2DT200105	.200" Needle Tine for Toro® ProCore 648	3.5"	.200"	.200"	Solid	
2DT250104	.250" Needle Tine for Toro® ProCore 648	6.125"	.250"	.250"	Solid	
2A625101	Solid 5/8" Aerivator tine	4.625"	Threaded	.586"	Solid	
2T200101	Solid 3/16" hook tine	6.5"	5mm hook	.200"	Solid	
2T312101	Solid 5/16" hook tine	7.5"	8mm hook	.312"	Solid	
2T125103	Solid 1/8" tine	4.5"	3/8"	.200"	Solid	
2T125183	1/8" Premium INFINITY solid tine	4.5"	3/8"	.200"	solid	
2T125105	Solid 1/8" tine	5.25"	3/8"	.200"	solid	
2T125104	Solid 1/8" tine	6"	3/8"	.200"	Solid	
2T125184	1/8" Premium INFINITY solid tine	6"	3/8"	.200"	solid	
2R125103	Solid 1/8" tine	4.5"	1/2"	.200"	Solid	
2T250105	Solid 1/4" tine	4.25"	3/8"	.250"	Solid	
2T250106	Solid 1/4" tine	5"	3/8"	.250"	Solid	
2T250186	1/4" Premium INFINITY solid tine	5"	3/8"	.250"	solid	
2T250107	Solid 1/4" tine	6.125"	3/8"	.250"	Solid	
2T250187	1/4" Premium INFINITY solid tine	6.125"	3/8"	.250"	solid	
2T250109	Solid 1/4" tine	6.5"	3/8"	.250"	solid	
2R250105	Solid 1/4" tine	5"	1/2"	.250"	Solid	
2T250104	Solid 1/4" tine	4.25"	3/4"	.250"	Solid	
2R250106	Solid 1/4" tine	5"	3/4"	.250"	Solid	
2R250186	1/4" Premium INFINITY solid tine	5"	3/4"	.250"	solid	
2T250108	Solid 1/4" tine	6.5"	3/4"	.250"	Solid	
2T250188	1/4" Premium INFINITY solid tine	6.5"	3/4"	.250"	solid	
2D375104 (JD #TCU17346)	Solid 3/8" tine	5"	3/8"	.375"	Solid	
2D375184	3/8" Premium INFINITY solid tine	5"	3/8"	.375"	solid	
2T375105	Solid 3/8" Rhino tine	5"	3/8"	.375"	Solid	
2D375106	Solid 3/8" tine	6"	3/8"	.375"	Solid	
2D375186	3/8" Premium INFINITY solid tine	6"	3/8"	.375"	solid	
2D375107	Solid 3/8" tine	7"	3/8"	.375"	solid	
2D375105	Solid 3/8" tine	5"	1/2"	.375"	Solid	
2R375105	Solid 3/8" Rhino tine	5"	1/2"	.375"	Solid	
2T375102	Solid 3/8" tine	5"	3/4"	.375"	Solid	
2T375103	Solid 3/8" tine	6"	3/4"	.375"	Solid	
2T375183	3/8" Premium INFINITY solid tine	6"	3/4"	.375"	solid	
2T375107	Solid 3/8" tine	7"	3/4"	.375"	solid	
2T500103	Solid 1/2" Tine	6"	3/8"	.500"	Solid	
2T500183	1/2" Premium INFINITY solid tine	6"	3/8"	.500"	solid	
2R500101	Solid 1/2" tine	5"	1/2"	.500"	Solid	
2T500101	Solid 1/2" tine	4.5"	3/4"	.500"	Solid	
2T500102	Solid 1/2" tine	5"	3/4"	.500"	Solid	
2T500182	1/2" Premium INFINITY solid tine	5"	3/4"	.500"	solid	
2T500104	Solid 1/2" tine	7"	3/4"	.500"	Solid	
2T500184	1/2" Premium INFINITY solid tine	7"	3/4"	.500"	solid	
2T625104	Solid 5/8" tine	6"	3/8"	.625"	Solid	
2T625184	5/8" Premium INFINITY solid tine	6"	3/8"	.625"	solid	
2D625101 ▲	Solid 5/8" tine	5"	5/8"	.625"	Solid	Discontinued
2D625103 ▲	Solid 5/8" tine	6"	5/8"	.625"	Solid	Discontinued
2T625101	Solid 5/8" tine	4.5"	3/4"	.625"	Solid	
2T625102	Solid 5/8" tine	5"	3/4"	.625"	Solid	
2D625102	Solid 5/8" tine	7"	3/4"	.625"	Solid	
2D625182	5/8" Premium INFINITY solid tine	7"	3/4"	.625"	solid	
2R750101 ▲	Solid 3/4" tine	4.25"	5/8"	.750"	Solid	Discontinued
2T750102	Solid 3/4" tine	5"	3/4"	.750"	Solid	
2D750102	Solid 3/4" tine	7"	3/4"	.750"	Solid	
2D750182	3/4" Premium INFINITY solid tine	7"	3/4"	.750"	solid	
2T750104	Solid 3/4" tine	5"	7/8"	.750"	Solid	
2T750103	Solid 3/4" tine	7"	7/8"	.750"	Solid	
2T875102	Solid 7/8" tine	5"	7/8"	.875"	Solid	
2T875103	Solid 7/8" tine	7"	7/8"	.875"	Solid	

▲ Available while supplies last.



## The Importance of Venting

Standing out in a field with a plastic bag over your head in 100 degree heat is likely not your idea of a relaxing afternoon. However, that is exactly how the greens on a golf course feel when you don't allow them to breathe in extreme weather conditions. During the hot and dry summer conditions, many golf courses fall victim to lost greens. However, one course was sitting pretty throughout the summer. North Ridge Country Club's greens, and entire course for that matter, were immaculate throughout the summer.

The secret.

*"You have to put a hole in the greens and let them breathe."* said North Ridge CC Superintendent Butch Sheffield, CGCS. *"When it starts to get hot, gases will build under the surface. The sooner you release that gas the better."*

And the magical gas-releasing tool: the JRM Bayonet™ tine.

This is not Sheffield's first rodeo. He accepted his first job as a superintendent in 1972, and he recently retired from North Ridge. The amount of lost greens in his career is very minimal. North Ridge has Crenshaw Bent grass. It's a surface Sheffield has always preferred, and he feels proper management, even in extreme conditions, can ensure a smooth playing surface. The only other thing that could interfere with good management practices is bad water. If your irrigation system is up-to-par, greens should be manageable.

In early June, Sheffield will take out his Toro® ProCore 648 and pull one final core, usually in the .300" range. Then like clockwork, he'll start to Bayonet™ tine his greens every two weeks until the end of summer. Sheffield will top-dress after each aerification, and the small slits the Bayonet™ tines leave provide little playability concerns.

Bottom line: everyone is happy. The players can play, and the North Ridge Maintenance staff can be satisfied with a job well done.

Another key to saving greens is a deep root system. With some help from Butch Sheffield, JRM developed a series of longer Bayonet™ tines (9 1/2 and 11 inches) for Deep Tine aerifiers. In total, we have added eight new Bayonet™ tines to our line.

*"In the winter months when the weather cooperates, we will try to pull a deep core, and now we are using the long Bayonets on our VERTI-DRAIN® machine, and they are working great,"* said Sheffield. *"The deeper the root system the better. Once the root system starts jumping in March, they need a place to go. So the deeper you go in the winter, the stronger your root system will be in the summer."*

Sheffield has enjoyed a very good working relationship with JRM for the past several years.

*"I am a big supporter of JRM products; they work so well with us and have always been acceptable to our ideas,"* said Sheffield. *"Jim [Merritt, JRM's President/CEO] and the rest of their staff have been so open and supportive. They will continue to get my loyalty and support."*

At JRM, Inc., our mission is to help make the jobs of Superintendents and Maintenance Technicians easier.

And to all of our valued customers, we wish you many immaculate greens in the future.

• It is recommended that you rotate your Bayonet™ tines every 3 to 5 greens to ensure proper wear patterns and longevity.

## Bayonet™ Tines

Part No.	JRM Description	Length	Mount Diameter	Blade Width	Thickness	Price
2B625102	Premium Bayonet™ 5/8" rib	4.75"	1/2"	.625"	.190"	
2B625101	Premium Bayonet™ 5/8" rib	5.50"	3/8"	.625"	.190"	
2BT625101	Premium Bayonet™ 5/8" rib (with Toro shank)	5.50"	3/8"	.625"	.190"	
2B750110	Premium Bayonet™ 3/4" rib	4.75"	3/8"	.750"	.190"	
2B750127	Premium Bayonet™ 3/4" rib	7"	3/8"	.750"	.190"	
2B750827	3/4" Premium INFINITY Bayonet Tine	7"	3/8"	.750"	.750"	
2B750137	Premium Bayonet™ 3/4" rib	6"	3/8"	.750"	.190"	
2BT750137	Premium Bayonet™ 3/4" rib (with Toro shank)	6"	3/8"	.750"	.190"	
2BT750837	3/4" Premium INFINITY Bayonet Tine W/ Toro shank	6"	3/8"	.750"	.750"	
2B750125	Premium Bayonet™ 3/4" rib	7"	12mm	.750"	.190"	
2B750145	Premium Bayonet™ 3/4" rib	9.5"	12mm	.750"	.190"	
2B750156	Premium Bayonet™ 3/4" rib	11"	12mm	.750"	.190"	
2WB750146	Premium Bayonet™ 3/4" rib for Wiedenmann®	9.5"	12mm dimple	.750"	.190"	
2B750111	Premium Bayonet™ 3/4" rib	4.75"	1/2"	.750"	.190"	
2B750112	Premium Bayonet™ 3/4" rib	4.75"	5/8"	.750"	.190"	
2B750157	Premium Bayonet™ 3/4" rib	11"	18mm	.750"	.190"	
2B750113	Premium Bayonet™ 3/4" rib	4.75"	3/4"	.750"	.190"	
2B750813	3/4" Premium INFINITY Bayonet Tine	4.75"	3/4"	.750"	.750"	
2B750138	Premium Bayonet™ 3/4" rib	6"	3/4"	.750"	.190"	
2B750123 (JD #TCU17352)	Premium Bayonet™ 3/4" rib	7"	3/4"	.750"	.190"	
2B750823	3/4" Premium INFINITY Bayonet Tine	7"	3/4"	.750"	.750"	
2B750114▲	Premium Bayonet™ 3/4" rib	4.75"	7/8"	.750"	.190"	
2B750124	Premium Bayonet™ 3/4" rib	7"	7/8"	.750"	.190"	
2B750136	Premium Bayonet™ 3/4" rib	6"	7/8"	.750"	.190"	

2B750111



Discontinued

▲ Available while supplies last.

INFINITY

## CROSSTINES<sup>®</sup>

Part No.	JRM Description	Length	Mount Diameter	Width	Wall	Price
2X375100	Premium CROSSTINETM 3/8" rib	6"	3/8"	.375"	Solid	
2X375101	Premium CROSSTINETM 3/8" rib	6"	3/4"	.375"	Solid	
2X500101	Premium CROSSTINE <sup>®</sup> 1/2" rib	4.6"	3/8"	.500"	Solid	
2X500501	DILLENNIUM <sup>®</sup> CROSSTINE <sup>®</sup> 1/2" rib	4.8"	3/8"	.500"	Solid	
2X500109 (JD #TCU17349)	Premium CROSSTINE <sup>®</sup> 1/2" rib	5.5"	3/8"	.500"	Solid	
2X500509 (JD #TCU17350)	DILLENNIUM <sup>®</sup> CROSSTINE <sup>®</sup> 1/2" rib	5.5"	3/8"	.500"	Solid	
2X500111	Premium CROSSTINE <sup>®</sup> 1/2" rib	5.5"	12mm	.500"	Solid	
2X500102	Premium CROSSTINE <sup>®</sup> 1/2" rib	4.6"	1/2"	.500"	Solid	
2X500502	DILLENNIUM <sup>®</sup> CROSSTINE <sup>®</sup> 1/2" rib	4.8"	1/2"	.500"	Solid	
2X500104	Premium CROSSTINE <sup>®</sup> 1/2" rib	5.5"	1/2"	.500"	Solid	
2X500105	Premium CROSSTINE <sup>®</sup> 1/2" rib	4.6"	5/8"	.500"	Solid	
2X500505 ▲	DILLENNIUM <sup>®</sup> CROSSTINE <sup>®</sup> 1/2" rib	4.8"	5/8"	.500"	Solid	Discontinued
2X500106	Premium CROSSTINE <sup>®</sup> 1/2" rib	4.6"	3/4"	.500"	Solid	
2X500506	DILLENNIUM <sup>®</sup> CROSSTINE <sup>®</sup> 1/2" rib	4.8"	3/4"	.500"	Solid	
2X500108	Premium CROSSTINE <sup>®</sup> 1/2" rib	5.5"	3/4"	.500"	Solid	
2X500508	DILLENNIUM <sup>®</sup> CROSSTINE <sup>®</sup> 1/2" rib	5.5"	3/4"	.500"	Solid	

▲ Available while supplies last.

  DILLENNIUM<sup>®</sup>   Premium

## SuperCross<sup>™</sup> Tines

Part No.	JRM Description	Length	Mount Diameter	Width	Wall	Price
2X750102 (JD #TCU17351)	Premium SuperCross <sup>™</sup> with 3/4" rib	5.88"	3/4"	.750"	Solid	
2X750101	Premium SuperCross <sup>™</sup> with 3/4" rib	5.88"	7/8"	.750"	Solid	



## JRM Core Profiler Keychain

The JRM Core Profiler Keychain is a complementary tool for Superintendents and Maintenance Technicians to test their soil profile.

Part No.	JRM Description	Price
1CP250102	JRM Core Profiler Keychain	



## Greenbay Tines

DILLENNIUM® Premium

Part No.	JRM Description	Length	Mount. Dia.	I.D.	Tapered O.D.	Wall	Price
1RG812102 (John Deere® TCU17456)	Premium Side-eject Greenbay Tine 13/16"	6"	3/4"	.500"	.735"	.105"	
1RG812502 (John Deere® TCU17457)	DILLENNIUM® Side-eject Greenbay Tine 13/16"	6"	3/4"	.490"	.720"	.105"	
1RG875102 (John Deere® TCU17342)	Premium Side-eject Greenbay Tine 7/8"	6"	3/4"	.575"	.775"	.095"	
1RG875502	DILLENNIUM® Side-eject Greenbay Tine 7/8"	6"	3/4"	.535"	.745"	.095"	
1RS875105	Heavy-Duty Premium Side-eject Greenbay Tine 7/8"	6"	3/4"	.600"	1.0625"	.156"	
1RS875505	Heavy-Duty DILLENNIUM® Side-eject Greenbay Tine 7/8"	6"	3/4"	.600"	1.0625"	.156"	
1RS875102 (John Deere® TCU17331)	Premium Side-eject Greenbay Tine 7/8"	5.55"	7/8"	.600"	.840"	.120"	
1RS875502 (John Deere® TCU17332)	DILLENNIUM® Side-eject Greenbay Tine 7/8"	5.55"	7/8"	.590"	.840"	.120"	
1RS875104	Heavy-Duty Premium Side-eject Greenbay Tine 7/8"	6"	7/8"	.600"	1.0625"	.156"	
1RS875504	Heavy-Duty DILLENNIUM® Side-eject Greenbay Tine 7/8"	6"	7/8"	.600"	1.0625"	.156"	



1RS875102



1RG812502

Our DILLENNIUM® lite tines are made of the same high-quality alloy steel of which our flagship DILLENNIUM® tines are made, but they have a slightly thinner wall. These tines are for the superintendent who demands the very finest possible cut and core quality. The use-life of these tines are not as long as our standard DILLENNIUM® tines, but it will produce the finest coring job available today and will certainly outlast other coring tines. They are especially useful on new or very soft greens with high sand or thatch content where aerification is problematic. They are more likely to pull a core, and the core itself is of higher quality with less compaction. All DILLENNIUM® lite tines are top-ejects, and cost less than a standard JRM DILLENNIUM® coring tine.

1DL500501



DILLENNIUM®

## DILLENNIUM® Lite Tines

Tines were designed for use on Greens.  
Warranty void for use on Tee Boxes and Fairways.

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1DL500501▲	DILLENNIUM® Lite 1/2" tine	4.5"	5/8"	.406"	.534"	.055"	Discontinued
1DL500502	DILLENNIUM® Lite 1/2" tine	5"	3/4"	.406"	.534"	.055"	
1DL500503	DILLENNIUM® Lite 1/2" tine	6"	3/4"	.406"	.534"	.055"	
1DL625501▲	DILLENNIUM® Lite 5/8" tine	4.5"	3/4"	.502"	.642"	.055"	Discontinued
1DL625502	DILLENNIUM® Lite 5/8" tine	5"	3/4"	.502"	.642"	.055"	
1DL625503	DILLENNIUM® Lite 5/8" tine	6"	3/4"	.502"	.642"	.055"	

▲ Available while supplies last.

If your soil conditions favor use of a top-eject tine, DILLENNIUM® Lite tines pull the cleanest core in our conventional coring tine line due to its thinner wall.

# CONVENTIONAL FAIRWAY TINES

**Fairway Side-eject tines**—These tines are designed to provide a 6" working depth across a variety of Outside Diameters ranging from 5/8" to 1 1/4". The Fairway side-eject tines are designed for Fairways and tee boxes and most of them feature metric mounts to fit VERTI-DRAIN®, Soil Reliever® and Wiedenmann® machines. There is also a selection of 3/4" and 7/8" mount tines to fit Toro® and John Deere® machines.

**13/16" Fairway Side-eject tines**—The 13/16" (.812") tine is the most popular deep tine size on the market. The tine pulls a manageable 1/2" core (Inside Diameter) and provides optimal recovery time.

**Removable shank**—Remember, after you initially purchase the full part, customers have the option to remove the tube from the shank and purchase a replacement tube to save on their budget. All replacement tubes come with roll pins.



1FS625101



1FS625501



1FS812502



1FS812506



3FS812500



1FS100105



1FS100503



3FS100100



1FS112101



1FS125102

## FAIRWAY SIDE-EJECT TINES

\* Roll pins are included with all replacement tubes.

Part No.	JRM Description	Length Full/Tube	Mount Diameter	I.D.	O.D.	Wall	Price
1FS625101	Premium 5/8" Fairway Tine with Mustang® shank1	7.19"/6"	12mm	.400"	.625"	.072"	
1FS625501	DILLENNIUM® 5/8" Fairway Tine with Mustang® shank1	7.44"/6"	12mm	.350"	.625"	.072"	
1FS625102	Premium 5/8" Fixed Mount Fairway Tine with Mustang® shank1	7.17"/6"	12mm	.390"	.625"	.072"	
1FS625103	Premium 5/8" Fixed Mount Fairway Tine	8"/6.97"	12mm	.406"	.625"	.072"	
1FS625503	DILLENNIUM® 5/8" Fixed Mount Fairway Tine	8.25"/7.20"	12mm	.350"	.625"	.072"	
1FS750502	DILLENNIUM® 3/4" Fixed Mount Fairway Tine with Mustang® shank1	6.92"/5.75"	12mm	.440"	0.75	.072"	
1FS812103	Premium 13/16" Fairway Tine with VERTI-DRAIN® shank	7.33"/6"	12mm	.500"	.812"	.105"	
1FS812503	DILLENNIUM® 13/16" Fairway Tine with VERTI-DRAIN® shank	7.33"/6"	12mm	.490"	.812"	.105"	
1FS812105	Premium 13/16" Fairway Tine with Mustang® shank1	7.17"/6"	12mm	.500"	.812"	.105"	
1FS812101	Premium 13/16" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.500"	.812"	.105"	
1FS812501	DILLENNIUM® 13/16" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.490"	.812"	.105"	
1FS812102	Premium 13/16" Fairway Tine for Conventional Aerifiers	6.75"/6"	7/8"	.500"	.812"	.105"	
1FS812502	DILLENNIUM® 13/16" Fairway Tine for Conventional Aerifiers	6.75"/6"	7/8"	.490"	.812"	.105"	
3FS625101	Premium 5/8" Fairway Replacement Tube	6"	12mm	.400"	.625"	.072"	
3FS625501	DILLENNIUM® 5/8" Fairway Replacement Tube	6"	12mm	.350"	.625"	.072"	
3FS812100	Premium 13/16" Fairway Replacement Tube	6"	12mm, 18mm	.500"	.812"	.105"	
3FS812500	DILLENNIUM® 13/16" Fairway Replacement Tube	6"	12mm, 18mm	.490"	.812"	.105"	
1FS100103	Premium 1" Fairway Tine with VERTI-DRAIN® shank	7.33"/6"	12mm	.595"	1"	.120"	
1FS100503	DILLENNIUM® 1" Fairway Tine with VERTI-DRAIN® shank	7.33"/6"	12mm	.590"	1"	.120"	
1FS100104	Premium 1" Fairway Tine with Soil Reliever® shank	8.25"/6"	12mm	.595"	1"	.120"	
1FS100504	DILLENNIUM® 1" Fairway Tine with Soil Reliever® shank	8.25"/6"	12mm	.590"	1"	.120"	
1FS100105	Premium 1" Fairway Tine with Mustang® shank1	7.17"/6"	12mm	.595"	1"	.120"	
1FS100101	Premium 1" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.595"	1"	.120"	
1FS100501	DILLENNIUM® 1" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.590"	1"	.120"	
1FS100102	Premium 1" Fairway Tine for Conventional Aerifiers	6.75"/6"	7/8"	.595"	1"	.120"	
1FS100502	DILLENNIUM® 1" Fairway Tine for Conventional Aerifiers	6.75"/6"	7/8"	.590"	1"	.120"	
1FS112101	Premium 1 1/8" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.735"	1.125"	.135"	
1FS112102	Premium 1 1/8" Fairway Tine for Conventional Aerifiers	6.75"/6"	7/8"	.735"	1.125"	.135"	
1FS125107	Premium 1 1/4" Fairway Tine with Soil Reliever® shank	8.25"/6"	18mm	.800"	1.25"	.135"	
1FS125101	Premium 1 1/4" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.800"	1.25"	.135"	
1FS125501	DILLENNIUM® 1 1/4" Fairway Tine for Conventional Aerifiers	6.75"/6"	3/4"	.800"	1.25"	.135"	
1FS125102	Premium 1 1/4" Fairway Tine for Conventional Aerifiers	6.75"/6"	7/8"	.800"	1.25"	.135"	
3FS100100	Premium 1" Fairway replacement tube	6"	12mm, 18mm, 3/4", 7/8"	.595"	1"	.120"	
3FS100500	DILLENNIUM® 1" Fairway replacement tube	6"	12mm, 18mm, 3/4", 7/8"	.590"	1"	.120"	
3FS112100	Premium 1 1/8" Fairway replacement tube	6"	18mm, 3/4", 7/8"	.735"	1.125"	.135"	
3FS125100	Premium 1 1/4" Fairway replacement tube	6"	18mm, 3/4", 7/8"	.800"	1.25"	.135"	
3FS125500	DILLENNIUM® 1 1/4" Fairway replacement tube	6"	18mm, 3/4", 7/8"	.800"	1.25"	.135"	
Shanks are available for all non-Fixed shank Fairway Tines. Contact our Customer Service Department for the correct shank.							
Roll Pins are available for all Fairway shanks. Contact our Customer Service Department for the correct roll pin.							

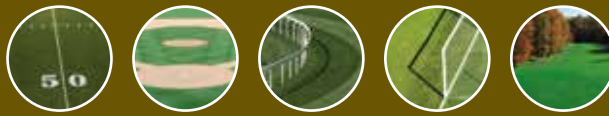
 DILLENNIUM®  Premium

The JRM "use warranty" only covers conventional top-eject coring tines used on golf course greens (tees and fairways are specifically excluded).

<sup>1</sup> For Mustang without core collector. Longer shanks are necessary when Core Collector is used, See Page 43 for 5/8" tines with a longer shank.

Please note: As a matter of convention in the turf industry, all deep tine shanks are made to metric standards. The mounting blocks used by deep tine machine manufacturers are made to these metric sizes. This is not true of "conventional" aerifiers since most of these machines are made in the United States. Refer back to page 17 if you have any questions about choosing the correct mount diameter for your tines.





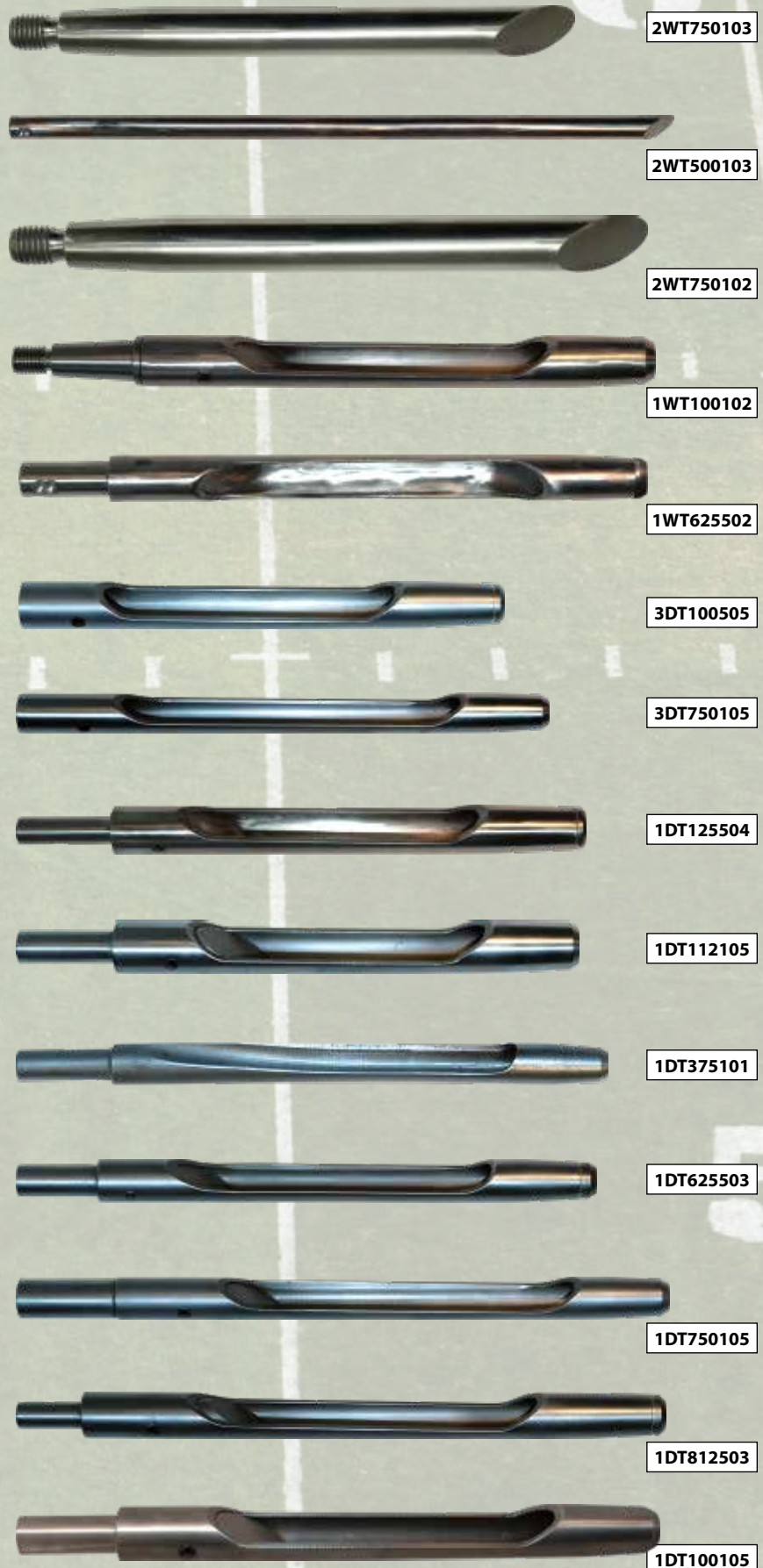
**Deep tine overview**—JRM deep tines have become an industry standard over the past 15 years. All JRM deep tines are made from the finest steel available and to exacting standards. The DILLENNIUM® deep tine is an excellent option in many situations and can save you both time and money. A DILLENNIUM® tine should be chosen for ground that is aerified on a regular basis, or greens and fairways that have little or no rock. If one is likely to bend or break a large number of deep tines (greater than 30%), then the JRM Premium deep tine will be the better option.

**Deep tines many uses**—Deep tine aeration is not restricted to the golf course. Many landscapers, service and/or sports field contractors employ the use of a deep tine aerifier. A 13/16" or 1" solid coring tine and/or a 1/2" or 3/4" solid deep tine is extremely popular on baseball and football fields as well as horse racing tracks.

**Deep tine machines**—JRM offers a full line of deep tine options for VERTI-DRAIN® (page 37), Soil Reliever® (page 38), and Wiedenmann® (page 40). The different lines are broken down separately in the catalog. Our deep solid tines are located on page 38. When choosing a Wiedenmann® tine, first determine whether you need a dimpled mount, or a screw mount. Our screw mounts are described as a 1:10 and 1:4 conical screw mount.

**Metric sizing**—Most deep tines have metric sizing for the shank diameter as all the deep tine manufacturers originate outside the United States. The two most popular shank options are the 12mm (.472"), considered a 1/2" equivalent, and the 18mm (.708"), considered a 3/4" equivalent.

**Replacement tubes**—To save money, a majority of our line features a removable shank and roll pin option. Once you order the full part and finish your initial aerification, you can pop out the roll pin, pull out the shank and order one of our replacement tubes on page 38 of our catalog.







**DEEP TINES  
for VERTI-DRAIN®**

*Fits VERTI-DRAIN® Only • Tines complete, includes shank, roll pin, and tube*

Part No.	JRM Description	Length Full/Tube	Mount Diameter	I.D.	O.D.	Wall	Price
1DT375101	Premium 3/8" fixed shank Deep Tine	6"/5"	5/16"	.240"	.330"	.060"	
1DT375501	DILLENNIUM® 3/8" fixed shank Deep Tine	6.125"/5.125"	5/16"	.240"	.327"	.060"	
1DT375102	Premium 3/8" Deep Tine	6"/5"	12mm	.250"	.440"	.060"	
1DT500102	Premium 1/2" Deep Tine	6"/5"	12mm	.336"	.550"	.072"	
1DT625103	Premium 5/8" Deep Tine	8.17"/7"	12mm	.400"	.625"	.072"	
1DT625503	DILLENNIUM® 5/8" Deep Tine	8.40"/7.25"	12mm	.350"	.625"	.072"	
1DT625105	Premium 5/8" fixed shank Deep Tine	8.17"/7"	12mm	.400"	.625"	.072"	
1DT625505	DILLENNIUM® 5/8" fixed shank Deep Tine	8.40"/7.25"	12mm	.350"	.625"	.072"	
1DT750101	Premium 3/4" Deep Tine	9.30"/8"	12mm	.450"	.750"	.095"	
1DT750106	Premium 3/4" Deep Tine	11.375"/10"	12mm	.450"	.750"	.095"	
1DT750506	DILLENNIUM® 3/4" Deep Tine	11.5"/10.25"	12mm	.450"	.750"	.095"	
1DT750102	Premium 3/4" Deep Tine	9.77"/8"	18mm	.450"	.750"	.095"	
1DT750105	Premium 3/4" Deep Tine	11.75"/10"	18mm	.450"	.750"	.095"	
1DT750505	DILLENNIUM® 3/4" Deep Tine	12"/10.25"	18mm	.450"	.750"	.095"	
1DT812111	Premium 13/16" Deep Tine	9.3"/8"	12mm	.510"	.812"	.105"	
1DT812511	DILLENNIUM® 13/16" Deep Tine	9.55"/8.25"	12mm	.490"	.812"	.105"	
1DT812103	Premium 13/16" Deep Tine	11.375"/10"	12mm	.510"	.812"	.105"	
1DT812503	DILLENNIUM® 13/16" Deep Tine	11.5"/10.25"	12mm	.490"	.812"	.105"	
1DT812105	Premium 13/16" Deep Tine	13.375"/12"	12mm	.510"	.812"	.105"	
1DT812505	DILLENNIUM® 13/16" Deep Tine	13.5"/12.25"	12mm	.490"	.812"	.105"	
1DT812102	Premium 13/16" Deep Tine	11.75"/10"	18mm	.510"	.812"	.105"	
1DT100101	Premium 1" Deep Tine	9.75"/8"	18mm	.625"	1"	.120"	
1DT100104	Premium 1" Deep Tine	10.75"/9"	18mm	.625"	1"	.120"	
1DT112184	Heavy-duty 1 1/8" Deep Tine	11.75"/10"	18mm	.750"	1.125"	.188"	
1DT100105	Premium 1" Deep Tine	11.75"/10"	18mm	.625"	1"	.120"	
1DT100505	DILLENNIUM® 1" Deep Tine	12"/10.25"	18mm	.590"	1"	.120"	
1DT112104	Premium 1 1/8" Deep Tine	11.75"/10"	18mm	.750"	1.125"	.120"	
1DT125104	Premium 1 1/4" Deep Tine	14"/12"	18mm	.812"	1.25"	.135"	
1DT125504	DILLENNIUM® 1 1/4" Deep Tine	14.25"/12.25"	18mm	.800"	1.25"	.135"	

Shanks are available for all non-Fixed shank Fairway Tines. Contact our Customer Service Department for the correct shank.

Roll Pins are available for all Fairway shanks. Contact our Customer Service Department for the correct roll pin.



*The JRM "use warranty" only covers conventional top-eject coring tines used on golf course greens (tees and fairways are specifically excluded).*

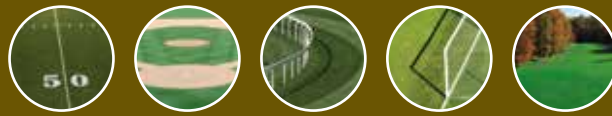
*Please note: As a matter of convention in the turf industry, all deep tine shanks are made to metric standards. The mounting blocks used by deep tine machine manufacturers are made to these metric sizes. This is not true of "conventional" aerifiers since most of these machines are made in the United States.*



1DT812503



1DT100105



## Deep Tines for Soil Reliever®

Fits Soil Reliever® Only • Tines complete, includes shank, roll pin, and tube

Part No.	JRM Description	Length Full/Tube	Mount Diameter	I.D.	O.D.	Wall	Price
1DT625104	Premium 5/8" Deep Tine	9"/7"	12mm	.400"	.625"	.072"	
1DT625504	DILLENNIUM® 5/8" Deep Tine	9.25"/7.25"	12mm	.350"	.625"	.072"	
1DT625106	Premium 5/8" fixed shank Deep Tine	9"/7"	12mm	.400"	.625"	.072"	
1DT625506	DILLENNIUM® 5/8" fixed shank Deep Tine	9.25"/7.25"	12mm	.350"	.625"	.072"	
1DT750107	Premium 3/4" Deep Tine	12"/10"	12mm	.450"	.750"	.095"	
1DT750507	DILLENNIUM® 3/4" Deep Tine	12.25"/10"	12mm	.440"	.750"	.095"	
1DT812112	Premium 13/16" Deep Tine for Soil Reliever®	10"/8"	12mm	.510"	.812"	.105"	
1DT812104	Premium 13/16" Deep Tine	12"/10"	12mm	.510"	.812"	.105"	
1DT812504	DILLENNIUM® 13/16" Deep Tine	12.25"/10.25"	12mm	.490"	.812"	.105"	
1DT750108	Premium 3/4" Deep Tine	12"/10"	18mm	.450"	.750"	.095"	
1DT812106	Premium 13/16" Deep Tine	12"/10"	18mm	.510"	.812"	.105"	
1DT812506	DILLENNIUM® 13/16" Deep Tine	12.25"/10.25"	18mm	.490"	.812"	.105"	
1DT100109	Heavy-duty 1" Deep Tine for Soil Reliever®	12"/10"	18mm	.550"	1.0625"	.188"	
1DT100107	Premium 1" Deep Tine	12"/10"	18mm	.625"	1"	.120"	
1DT100507	DILLENNIUM® 1" Deep Tine	12.25"/10.25"	18mm	.590"	1"	.120"	
1DT112185	Heavy-duty 1 1/8" Deep Tine for Soil Reliever®	12"/10"	18mm	.750"	1.125"	.188"	
1DT112105	Premium 1 1/8" Deep Tine for Soil Reliever®	12"/10"	18mm	.750"	1.125"	.135"	
1DT125102	Premium 1 1/4" Deep Tine	12"/10"	18mm	.812"	1.25"	.135"	
1DT125104	Premium 1 1/4" Deep Tine	14"/12"	18mm	.812"	1.25"	.135"	
1DT125504	DILLENNIUM® 1 1/4" Deep Tine	14.25"/12.25"	18mm	.800"	1.25"	.135"	
Shanks are available for all non-Fixed shank Fairway Tines. Contact our Customer Service Department for the correct shank.							
Roll Pins are available for all Fairway shanks. Contact our Customer Service Department for the correct roll pin.							

The JRM "use warranty" only covers conventional top-eject coring tines used on golf course greens (tees and fairways are specifically excluded).

Please note: As a matter of convention in the turf industry, all deep tine shanks are made to metric standards. The mounting blocks used by deep tine machine manufacturers are made to these metric sizes. This is not true of "conventional" aerifiers since most of these machines are made in the United States.

DILLENNIUM®  Premium

## Replacement Tubes for Deep Tines

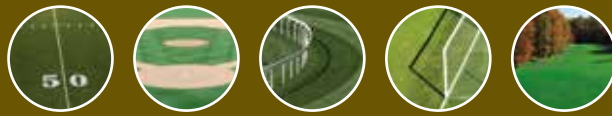
For Soil Reliever®-SR, VERTI-DRAIN®-VD, and Wiedenmann-W Replacement tubes-tubes only, includes roll pin

Part No.	JRM Description	Tube Length	Mount Diameter	Replacement Description	Price
3DT625103	Premium 5/8" replacement tube	7"	12mm	SR, VD, W	
3DT625503	DILLENNIUM® 5/8" replacement tube	7.25"	12mm	SR, VD, W	
3DT750101	Premium 3/4" replacement tube	8"	12mm, 18mm	SR, VD, W	
3DT750104	Premium 3/4" replacement tube	9"	12mm, 18mm	SR, VD, W	
3DT750105	Premium 3/4" replacement tube	10"	12mm, 18mm	SR, VD	
3DT750505	DILLENNIUM® 3/4" replacement tube	10.25"	12mm, 18mm	SR, VD	
3DT812101	Premium 13/16" replacement tube	8"	12mm, 18mm	SR, VD, W	
3DT812501	DILLENNIUM® 13/16" replacement tube	8.25"	12mm, 18mm	SR, VD, W	
3DT812100	Premium 13/16" replacement tube	10"	12mm, 18mm	SR, VD, W	
3DT812500	DILLENNIUM® 13/16" replacement tube	10.25"	12mm, 18mm	SR, VD, W	
3DT812110	Premium 13/16" replacement tube	12"	12mm, 18mm	SR, VD, W	
3DT812510	DILLENNIUM® 13/16" replacement tube	12.25"	12mm, 18mm	SR, VD, W	
3DT100104	Premium 1" replacement tube	9"	18mm	VD, SR	
3DT100109	Heavy-duty Deep Tine Replacement Tube for SR, VD	10"	18mm	SR, VD, W	
3DT100105	Premium 1" replacement tube	10"	18mm	SR, VD, W	
3DT100505	DILLENNIUM® 1" replacement tube	10.25"	18mm	SR, VD, W	
3DT100101	Premium 1" replacement tube	8"	18mm	SR, VD, W	
3DT112104	Premium 1 1/8" replacement tube	10"	18mm	SR, VD	
3DT112188	Heavy-duty Deep Tine Replacement Tube for SR, VD	10"	18mm	SR, VD, W	
3DT125100	Premium 1 1/4" replacement tube	10"	18mm	SR, VD	
3DT125500	DILLENNIUM® 1 1/4" replacement tube	10.25"	18mm	SR, VD	
3DT125106	Premium 1 1/4" replacement tube	12"	18mm	SR, VD	
3DT125506	DILLENNIUM® 1 1/4" replacement tube	12.25"	18mm	SR, VD	
Shanks are available for all Fairway Replacement Tubes. Contact our Customer Service Department for the correct shank.					
Roll Pins are available for all Fairway shanks. Contact our Customer Service Department for the correct roll pin.					

The JRM "use warranty" only covers conventional top-eject coring tines used on golf course greens (tees and fairways are specifically excluded).

Important note: Our shanks cannot be used with OEM tubes and our tubes cannot be used with OEM shanks.





**Solid Deep Tines**

*For Soil Reliever® and VERTI-DRAIN® solid deep tines*

Part No.	JRM Description	Length Full/Working Depth	Shank Diameter	O.D.	Price
2DT200101	Premium 3/16" Solid Deep Tine	5.71"/4"	3/16"	.1875"	
2DT250101	Premium 1/4" Solid Deep Tine	11.75"/10"	1/4"	.250"	
2DT312102	Premium 5/16" Solid Deep Tine	7.934"/6"	5/16"	.3125"	
2DT312103	Premium 5/16" Solid Deep Tine	9.25"/8"	5/16"	.3125"	
2DT312105	Premium 5/16" Solid Deep Tine	11.75"/10"	5/16"	.3125"	
2DT312106	Premium 5/16" Solid Deep Tine	13.75"/12"	5/16"	.3125"	
2DT375101	Premium 3/8" Solid Deep Tine	11"/9"	5/16"	.3125"	
2DT500102	Premium 1/2" Solid Deep Tine	8.16"/6"	12mm	.472"	
2DT500104	Premium 1/2" Solid Deep Tine	10.25"/8"	12mm	.472"	
2DT500105	Premium 1/2" Solid Deep Tine	12.6"/10"	12mm	.472"	
2DT500106	Premium 1/2" Solid Deep Tine	14.6"/12"	12mm	.472"	
2DT500107	Premium 1/2" Solid Deep Tine	16.6"/14"	12mm	.472"	
2DT750104	Premium 3/4" Solid Deep Tine	10"/8"	18mm	.708"	
2DT750105	Premium 3/4" Solid Deep Tine	12.875"/10"	18mm	.708"	
2DT750106	Premium 3/4" Solid Deep Tine	14.875"/12"	18mm	.708"	
2DT750107	Premium 3/4" Solid Deep Tine	16.6"/14"	18mm	.708"	
2DT750108	Premium 3/4" Solid Deep Tine	18.5"/16"	18mm	.708"	
2DT100103	Premium 1" Solid Deep Tine	18.7"/16"	24mm dimple	.945"	

Part No.	JRM Description	Length	Mount Diameter	Blade Width	Thickness	Price
2B750125	Premium Bayonet™ 3/4" rib	7"	12mm	.750"	.190"	
2B750145	Premium Bayonet™ 3/4" rib	9.5"	12mm	.750"	.190"	
2B750156	Premium Bayonet™ 3/4" rib	11"	12mm	.750"	.190"	
2B750157	Premium Bayonet™ 3/4" rib	11"	18mm	.750"	.190"	



*JRM supplies tines world-wide to a variety of customers, including horse tracks and sports fields.*





## Wiedenmann® Coring and Solid Deep Tines

Part No.	JRM Description	Length Full/Tube	Mount Diameter	I.D.	O.D.	Wall	Price
1WT375101	Premium 3/8" fixed shank deep tine	6"/4.82"	8mm dimple	.250"	.440"	.064"	
1WT375102	Premium 3/8" fixed shank deep tine	6.125"/4.82"	12mm dimple	.250"	.440"	.064"	
1WT500102	Premium 1/2" fixed shank deep tine	5.625"/4.315"	12mm dimple	.335"	.550"	.072"	
1WT625102	Premium 5/8" fixed shank deep tine	8.15"/7"	12mm dimple	.390"	.625"	.072"	
1WT625502	DILLENNIUM® 5/8" fixed shank deep tine	8.4"/7.25"	12mm dimple	.395"	.625"	.072"	
1WT625103	Premium 5/8" deep tine	8.3"/7"	12mm dimple	.400"	.625"	.072"	
1WT625503	DILLENNIUM® 5/8" deep tine	8.55"/7.25"	12mm dimple	.350"	.625"	.072"	
1WT812103	Premium 13/16" deep tine	7.3"/6"	12mm dimple	.510"	.812"	.105"	
1WT812503	DILLENNIUM® 13/16" deep tine	7.3"/6"	12mm dimple	.490"	.812"	.105"	
1WT812105	Premium 13/16" deep tine	9.33"/8"	12mm dimple	.510"	.812"	.105"	
1WT812505	DILLENNIUM® 13/16" deep tine	9.58"/8.25"	12mm dimple	.490"	.812"	.105"	
1WT812101	Premium 13/16" deep tine	11.3"/10"	12mm dimple	.510"	.812"	.105"	
1WT812501	DILLENNIUM® 13/16" deep tine	11.58"/10.25"	12mm dimple	.490"	.812"	.105"	
1WT812104	Premium 13/16" deep tine	10.6"/8"	1:10 cone mount	.510"	.812"	.105"	
1WT812504	DILLENNIUM® 13/16" deep tine	10.85"/8.25"	1:10 cone mount	.490"	.812"	.105"	
1WT812102	Premium 13/16" deep tine	12.6"/10"	1:10 cone mount	.510"	.812"	.105"	
1WT812502	DILLENNIUM® 13/16" deep tine	12.85"/10.25"	1:10 cone mount	.490"	.812"	.105"	
1WT100101	Premium 1" deep tine	9.33"/8"	12mm dimple	.625"	1"	.120"	
1WT100104	Premium 1" deep tine	10.6"/8"	1:10 cone mount	.625"	1"	.120"	
1WT100102	Premium 1" deep tine	12.6"/10"	1:10 cone mount	.625"	1"	.120"	
1WT100502	DILLENNIUM® 1" deep tine	12.85"/10.25"	1:10 cone mount	.590"	1"	.120"	
1WT100103	Premium 1" deep tine	12.3"/10"	1:4 cone mount	.625"	1"	.120"	
1WT100503	DILLENNIUM® 1" deep tine	12.55"/10.25"	1:4 cone mount	.590"	1"	.120"	
1WT112105	Premium Heavy-duty 1 1/8" deep tine	12.6"/10"	1:10 cone mount	.660"	1.125"	.188"	
2WT312102	Solid 5/16" deep tine	7.88"/6"	8mm dimple	Solid	.312"	Solid	
2WT312104	Solid 5/16" deep tine	8.97"/7.87"	8mm dimple	Solid	.312"	Solid	
2WT312105	Solid 5/16" deep tine	11.35"/10.25"	8mm dimple	Solid	.312"	Solid	
2WT500101	Solid 1/2" deep tine	9.61"/8"	12mm dimple	Solid	.472"	Solid	
2WT500112	Solid 1/2" deep tine	11.18"/9.5"	12mm dimple	Solid	.472"	Solid	
2WT500102	Solid 1/2" deep tine	12.16"/10.5"	12mm dimple	Solid	.472"	Solid	
2WT500103	Solid 1/2" deep tine	14.12"/12.5"	12mm dimple	Solid	.472"	Solid	
2WT750103	Solid 3/4" deep tine	8.66"/6.5"	1:10 cone mount	Solid	.750"	Solid	
2WT750102	Solid 3/4" deep tine	10.85"/8.75"	1:10 cone mount	Solid	.750"	Solid	
2WT750104	Solid 3/4" deep tine	11"/8.875"	1:10 cone mount	Solid	.750"	Solid	
2WT750107	Solid 3/4" deep tine	12"/9.5"	1:4 cone mount	Solid	.750"	Solid	
2WT750101	Solid 3/4" deep tine	13.25"/11"	1:10 cone mount	Solid	.750"	Solid	
2WT750105	Solid 3/4" deep tine	13.4"/11"	1:10 cone mount	Solid	.750"	Solid	
2WT750108	Solid 3/4" deep tine	15.05"/12.97"	1:10 cone mount	Solid	.750"	Solid	
2WT100101	Solid 1" deep tine	13.25"/11"	1:10 cone mount	Solid	1"	Solid	
2WB750146	Premium 3/4" Bayonet Tine	9.5"/n/a	12mm dimple	Solid	.750"	Solid	
Shanks are available for all non-Fixed shank Fairway Tines. Contact our Customer Service Department for the correct shank.							
Roll Pins are available for all Fairway shanks. Contact our Customer Service Department for the correct roll pin.							

*The JRM "use warranty" only covers conventional top-eject coring tines used on golf course greens (tees and fairways are specifically excluded).*

Premium  
 DILLENNIUM®



1WT100102



2WT500103



**JRM** products are made of the very finest materials available and are warranted against any defect in manufacturing or materials. JRM DILLENNIUM® top-eject coring tines used on conventional aerification machines having uniform wear on golf course greens have a “use warranty” of a minimum of 18 greens or 130,000 Square Feet, whichever comes first. This revolutionary “use warranty” is only applicable for use on golf greens. The JRM warranty does not cover “chipping” which may occur if a large rock or cart-path is hit.

**This “use warranty” does not extend to any solid or “side-eject” tine due to the weaker wall structure, the DILLENNIUM® “Quad”, DILLENNIUM® Lite, or “SuperQuad™” tines due to their thinner wall construction, or any Deep Tine. In most cases you can expect to get twice the life of any other conventional aerification tine with our DILLENNIUM® tines. The JRM “use warranty” only covers conventional top-eject coring tines used on golf course greens (tees and fairways are specifically excluded). “Uniform wear” means that the wear pattern is uniform on all sides of the tine indicating proper machine timing.**

### RETURN AUTHORIZATION REQUESTS

If you wish to return any JRM Products, immediately contact your Authorized JRM dealer, or call JRM directly at 336-354-1243 or toll free at 1-888-576-7007. You will be given a Returned Merchandise Authorization (RMA) number that needs to be prominently displayed on the outside of the box you are returning. No credit will be issued for any products returned to JRM without an RMA number. Requests for return authorization must be made within three months of purchase. Once an RMA is issued, you will have 30 days to return the merchandise to the JRM shipping department. It is the customer’s responsibility to return products to JRM. FedEx Call Tags will only be issued for defective parts or shipping and sales miscues originated from JRM. A 15% restocking fee will be applied to all return requests that are not accompanied by a replacement order.

JRM reserves the right to refuse credit for any returned item (other than a warranty return) that is not in “like new” condition and available for immediate resale. All decisions by JRM are final. If there are parts missing from any shipment that are listed on the “packing slip” it is very important that the shipping box NOT be discarded. For JRM to be reimbursed by the carrier, an inspection of the box is required. If parts are missing, please contact the JRM Customer Support department immediately to make arrangements to obtain replacement parts.

At JRM, we are very proud of our products and intend for them to be the very finest available in the turf industry. For this reason we ask that you contact us immediately if you have any usage problem(s). With your cooperation we will be able to continue to improve our products and protect you, our valued customer.

#### Timing Problems

If an aerification machine is “out of timing” it will greatly reduce the use-life of your tines. A clear and inescapable indicator of both good and bad timing is the wear pattern on a used set of tines. Indeed, the age of a machine is no guarantee against timing problems since new machines are often delivered “out of timing”. A well set up machine, in good timing, will produce a wear pattern that is ‘even’ all the way around the bottom of the tine. This is absolute and inescapable objective evidence that is true of all aerification machines and all tines. It is not required that a machine be in “perfect” timing for it to provide good and acceptable service. However, a machine that is badly out of timing will wear out any tine significantly faster and increase the total cost of aerification. With the advent of the JRM DILLENNIUM® tines, this “wear pattern” has become much more evident since the tines will last significantly longer. Problems with machine “timing” have not been noticed previously since the available tines were so soft that they would wear away at such an extremely fast rate.

**Return To: JRM, Inc.  
Return Goods Dept.  
8491 N. NC Hwy. 150  
Clemmons, NC 27012**



## Timing Problems

FIG. #1 is a clear exception to the JRM Warranty. This tine was used on an aerification machine with a severe timing problem. No credit would be given for this tine.

FIG. #1



### JRM Normal Wear

A JRM DILLENNIUM® tine with normal wear after 18 greens



### OEM Normal Wear

OEM conventional tine with normal wear in rocky turf



### Severe Timing Problems

OEM conventional tine



A JRM Dillennium™ tine with Severe Timing Problem

## Care & Storage of Dillennium™ Tines

Due to the longevity of JRM DILLENNIUM® tines, we are faced with a brand new issue in the golf course industry: how to care for used aerification tines that still have significant use-life left. We suggest the following procedure to get the most value from your JRM DILLENNIUM® tine(s).

1. Clean all dirt and grass from the tube.  
This may be done by hosing down. Soap may be used if needed.  
Thoroughly and immediately dry all tines.
2. Spray a silicone aerosol spray lubricant on the tines, inside tubular tines as well as on the outside of all tines.
3. Label and store in a dry location.

Do NOT use any petroleum based products, penetrating oils, or aerosol lubricating oils such as WD-40™. These products will cause the bonding material used to attach the tip to weaken, and it will also cause the tips to become brittle and therefore wear much faster the next time they are used.

## **Shipping & Contact Information**

### **Domestic Shipping**

All JRM shipments will be by UPS/FedEx “Standard Ground” unless otherwise requested in advance. All shipments are F.O.B. Clemmons, North Carolina. In most cases, if an order is received at our Sales & Marketing office in Clemmons, North Carolina before 4:00 p.m. EST, we will be able to ship the same day. In addition to the standard ground shipping, we can ship “Overnight”, “2nd Day”, or “3 Day” upon special request. We recommend that customers in the western United States consider shipping by “3 day” if the products are needed in less than 5 to 10 days. Larger orders may require special packaging and shipment by common carrier.

### **International Orders**

International shipments will be shipped “as requested” per customer instruction. Depending on weight, JRM will try to arrange the most economical freight option. Electronic wire transfer payments are accepted. Credit arrangements must be made in advance of shipment or charged to a credit card.

### **Internet Orders**

Warranty returns from “online” orders and warranty issues will be processed under the same guidelines as any other JRM order.

### **JRM Dealers**

JRM has many dealers domestically and internationally who are authorized to sell JRM products in designated areas defined by the “ship to” zip code and country codes. If you are not certain who your Authorized JRM Dealer is, please consult our JRM Distributor list located on page 44 of this catalog, or go to our website at [www.jrmonline.com](http://www.jrmonline.com). About 95% of North America is covered by an Authorized JRM Dealer. Areas not covered by an Authorized JRM Dealer are serviced from our Clemmons, N.C. office. All of our national and international dealers can be located on our website as well.

### **Contacting JRM**

At JRM we take your opinions very, very seriously. Indeed, it is as a result of customer requests and opinions that we have developed some of our finest products. We want to have your opinions even if they are not complimentary. Naturally, we love to hear positive comments, but it is through “constructive criticism” that we have often received our most valuable information. If you like JRM products, we definitely want to hear from you. If you have a problem with one of our products, we want to hear from you even more. Please forward any experiences or requests to:

#### **By mail**

Customer Service  
JRM, Inc.  
PO Box 1689  
Welcome, NC  
27374-1689

#### **By telephone/fax**

888-576-7007 toll free  
336-354-1243 toll  
336-354-1255 fax

#### **By E-mail**

[sales@jrmonline.com](mailto:sales@jrmonline.com)

## Ordering JRM Products

You have a variety of convenient options for ordering JRM products.

### Authorized Dealer

In most locations you will have an authorized JRM Distributor who is your personal JRM representative. You should look to your JRM Dealer as your first line of help in ordering or when you have a question about an existing order. If you need help finding your local dealer, please consult our list of JRM Distributors on the inside back cover of the catalog, or you may go to the JRM website at [www.jrmonline.com](http://www.jrmonline.com) for a complete listing of our dealers.

### Direct

Order directly from us by telephone or fax. You may call our toll free telephone number (888-576-7007) from within the United States or our toll line (336-354-1243) from anywhere during regular business hours (8:30 a.m.-5:30.p.m. Eastern Standard Time). You may also send us a fax at (336-354-1255). Please be careful to include all necessary information: ship-to; bill-to; number of items by part number; credit information (if a first time customer); and specific shipping information. All orders are subject to credit consideration. You can also email orders to [SALES@JRMONLINE.com](mailto:SALES@JRMONLINE.com).

### World Wide Web

[www.jrmonline.com](http://www.jrmonline.com)

As an added convenience, customers can now order on-line at [www.jrmonline.com](http://www.jrmonline.com) using VISA, Master Card, and American Express. International customers can order on-line as well. We encourage you to regularly check our website to conveniently view our entire line of products. We also offer specials throughout the year that will be posted in the “news” section of our website.



# JRM Inc. Authorized Distributors



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SiteOne Landscape Supply  
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Jim Brennan (011614 2141 8595)  
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Roy Gripske & Sons Pty Ltd  
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**New South Wales**  
Golf & Bowling Machinery  
Troy Burnside (2-9673-6722)  
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**JRM** INC  
INNOVATIVE TURF TECHNOLOGY

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