



INNOVATIVE TURF TECHNOLOGY



2023 Catalog
USA MANUFACTURER

STAY SHARP ALL YEAR LONG

Quality
MATTERS



**Worldwide Manufacturer of Turfgrass Maintenance Products:
Bedknives • Tines • INFINITY® Reels • Grinding Wheels • Mower Blades**



Table Of Contents

INFINITY® Emperor Tine™	1-2
INFINITY® Reels	3-4
DURANIUM-801® Bedknife information	5-10
Reel Sharp Lapping Compound	6
Socket Driver Tool	7
Toro® Greensmower/Fairway Bedknives	8
Jacobsen® Greensmower/Fairway Bedknives	9
John Deere® Greensmower/Fairway Bedknives	10
Golfco Rollers®	11
Vulcan Grinding Wheelz	12
JRM Mower Blades	13-14
Graden, Mataway, Star, Vortex Verti Cutting Blades	15
Closed Spoon Tines, Blocks & Rake Prongs	16
Tine Terminology	17
Terms To Know	18
Tine Measurement	19
Machines	20
Conventional Coring Tines	21-23
John Deere®	22
Economy Tines	22
Toro®	23
JRM Core Profiler Keychain.....	23
Quad Tines	24-26
Standard Quad Tines	25
Super Quad™ Tines.....	25
Magnum Quad™ Tines	26
Magnum Quad Plus™ Tines	26
Solid/Venting Tines	27-29
Conventional Solid Tines	28
Bayonet™ Tines	29
CROSTINES®.....	29
SuperCross™ Tines.....	29
Greenbay Tines	30
Fairway Side-eject Tines/Shanks	31
Deep Tines	32-36
Deep Tines for VERTI-DRAIN®/Shanks	33
Deep Tines for Soil Reliever®/Shanks.....	34
Replacement Tubes.....	34
Solid Deep Tines	35
Solid DILLENNIUM® Fairway Tines	35
Wiedenmann® Tines/Shanks	36
Warranty Information	37
Wear & Tear Usage	38
Shipping & Contacting JRM	39
Ordering JRM Products	40

Prices subject to change without notice.

EXTRA! EXTRA!

READ ALL ABOUT IT!

JRM OFFERING EMPEROR-STYLE AERIFICATION TINES FOR 2023



JRM INFINITY® Emperor Tines™

1S157180—Micro INFINITY® Emperor Tine® has caught fire in the field. The 3/8” mount tine pulls a .173” core (Inside Diameter) and .287” hole (Outside Diameter) with a 4.45” total length. The Micro INFINITY® Emperor Tine™ is perfectly suited for water filtration and thatch removal with quick and easy cleanup and playability. \$22.00

1S157580—DILLENNIUM® INFINITY Emperor Tine® This tine has all the same specs as the 1S157180 except it features a DILLENNIUM® tip for consistent core depths and even longer life. \$28.00

1S202180—The INFINITY® Emperor Tine™ is simply a larger version of the Micro INFINITY® Emperor Tine™. This is a premium tine like the 1S157180, but it still offers plenty of longevity thanks to the INFINITY® process. The INFINITY® Emperor Tine™ features a .202” inside diameter and a .315” outside diameter for individuals looking to pull a little more material from the greens. The plug is still small enough to easily blow off the greens. Like the Micro INFINITY® Emperor Tine™, the INFINITY® Emperor Tine™ has a 3/8” mount and 4.45” total length. \$22.00

NEW! **1S202580—NEW IMPERIAL TIP (Patent Pending) INFINITY® DILLENNIUM® Emperor Tine** features a unique hardened DILLENNIUM® tip that holds up in all soil conditions. It has the same I.D. and O.D. as the Emperor tine. This tine was introduced to the field in 2022, and several courses have aerated 36 up to 48 holes with this hardened DILLENNIUM® tip. The unique tip design pulls more material and leaves a cleaner hole. \$28.00

JRM INFINITY® Emperor Tines™

The INFINITY® Emperor line of tines is now four strong. The newest addition is the 1S202580. It features an Imperial (patent pending) tip. The unique tip is designed to cut a cleaner hole and pull more material.

The INFINITY® line of tines is unmatched in longevity. The non-standard trademarked INFINITY® steel can be heat treated much harder without getting brittle, and JRM adds an extra heat treat induction process to protect the top 2-3 inches of each tine.

Visit JRM at www.jrmonline.com for the most up to date product information.

Like us on & follow us on @JRM Turf Products and @JRM_Inc. to view upcoming specials and updated information about JRM products and events.

JRM Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tine™ Testimonial

JRM is receiving rave performance reviews for the 1S202580—JRM's newest Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tine™. Several courses are getting multiple uses from this aerification tine that features a .202 I.D. and .315" O.D.

Fawn Lake Country Club in Spotsylvania, VA have aerated their greens twice so far pulling consistent cores throughout. Sister courses Brushy Mountain Golf Club in Taylorsville, NC and Orchard Hills Golf Course in Granite Falls, NC shared a set of the Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tine™ and aerated 39 holes between them. There was still plenty of life left on the tines, and they pulled consistent cores throughout.

"I'm very impressed with these tines," said Fawn Lake Superintendent Dave Smith. *"The new [Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tine™] have been around the course twice, and we'll be making a third trip soon."*

(Left Photo) Fawn Lake Country Club in Spotsylvania, VA aerated 38 holes of bentgrass greens with the JRM 1S202580—Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tine™ with life still left on the tines.

(Right Photo) Brushy Mountain Golf Club and Orchard Hills Golf Course aerated 39 holes with one set of the JRM Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tines™.



JRM INFINITY® Emperor Tines™

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall
1S157180	Premium Micro INFINITY® Emperor Tine™ side-eject	4.45"	3/8"	.173"	.287"	.040"
1S157580	DILLENNIUM® Micro INFINITY® Emperor Tine™ side-eject	4.45"	3/8"	.173"	.287"	.040"
1S202180	Premium INFINITY® Emperor Tine™ side-eject	4.45"	3/8"	.202"	.315"	.040"
1S202580	Imperial Tip (patent pending) INFINITY® DILLENNIUM® Emperor Tine™ side-eject	4.45"	3/8"	.202"	.315"	.040"



1S157180

Additional Dealers needed worldwide. Please call the JRM Customer Service Department (888-576-7007) with all inquiries.

James. R Merritt
JRM, Inc. President/CEO

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



STAY SHARP ALL YEAR LONG

JRM INFINITY® DURANIUM-24 Reels

- Made with a high-carbon, high-alloy steel that can be heat treated harder without getting brittle.
- Designed with similar steel and quality craftsmanship as a DURANIUM-801® bedknife to hold an edge longer and grind less.
- Bearings are already inserted on shaft. (5RTG112100, 5RTG142100, 5RTF085210, 5RTF085510, 5RTF115610).
- JRM will sell 8-spline and 9-spline couplings plus the drive tools to insert and take out the couplings on JRM Toro® Fairway Reels--5RTF085210, 5RTF085510 and 5RTF115610.
- Bearing kits can be purchased separately for all other JRM INFINITY® DURANIUM-24 Reels.
- **NEW Reel—5RJG15322—15-blade Jacobsen® greensmower reel.**
- Welds are strengthened for longer reel life.
- All JRM INFINITY® DURANIUM-24 reels come with relief that matches the relief on JRM DURANIUM-801® bedknives.

Contact JRM
for Reel Pricing

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JRM INFINITY® DURANIUM-24 REELS

When ordering, please verify OEM part number and machine to select the correct reel. For Toro®, verify the OEM cutting unit model number. You can cross-reference the correct cutting unit model number in JRM's 2023 INFINITY® DURANIUM-24 Reels Catalog.

What makes a JRM INFINITY® DURANIUM-24 Reel stand out from the competition:

- Made with a high-carbon-high alloy steel that can be heat treated harder without getting brittle
- Designed with similar steel and quality craftsmanship as a DURANIUM-801® bedknife to hold an edge longer and grind less.
- Welds are strengthened for longer reel life.
- All JRM INFINITY® DURANIUM-24 reels come with relief that matches the relief on JRM DURANIUM-801® bedknives.

New additions for 2023

- Bearings will be inserted on the shaft for five Toro® reels. (5RTG112100, 5RTG142100, 5RTF085210, 5RTF085510, 5RTF115610).
- Bearing kits can be purchased separately for all other JRM INFINITY® DURANIUM-24 Reels.
- JRM will sell 8-spline and 9-spline couplings plus the drive tools to insert and take out the couplings on JRM Toro® Fairway Reels--5RTF085210, 5RTF085510 and 5RTF115610.
- NEW Reel—5RJG15322—15-blade Jacobsen® greensmower reel.

JRM INFINITY® DURANIUM-24 REELS

JRM Part #	OEM Part No.	Fits	Reel Diam.	Length	Description	Price
Toro® Greensmower Reels						
5RTG112100	119-4104/127-2201/137-8512	Toro® Flex/E-Flex 2100, 2120, GR Flex & E-Flex 1021 & 021, GM 3000, 3100, 3200, 3300, 3400 series DPA Cutting Units (2012 & newer)	5"	21"	11 blades Internal	
5RTG142100	119-4105/127-2202/137-8513	Toro® Flex/E-Flex 2100, 2120, GR Flex & E-Flex 1021 & 021, GM 3000, 3100, 3200, 3300, 3400 series DPA Cutting Units (2012 & newer)	5"	21"	14 blades Internal	
5RTG113250	105-5792/127-2194, 137-8496	Toro® Greensmaster 3000, 3100, 3200 series DPA cutting units (2011 & older)	5"	21"	11 blades	
5RTG111000	93-6097/127-2182/132-7313	Toro® 1000, 1010, 2000 Integral Cutting Units	5"	21"	11 blades	
Toro® Fairway Reels						
5RTF085210	108-9071/127-2065/137-8416, 137-8422	Toro® 5210D, 5410D DPA Cutting units	5"	22"	8 blades Internal 8-spline	
5RTF085510	108-9073/127-2084/137-8432, 137-8438	Toro® 5510D, 5610D, 6500D, 6700D DPA Cutting units	7"	22"	8 blades Internal 9-spline	
5RTF115610	108-9074/127-2085/137-8433, 137-8439	Toro® 5510D, 5610D, 6500D, 6700D DPA Cutting units	7"	22"	11 blades Internal 9-spline	
John Deere® Greensmower, High-cut, Fairway Reels						
5RDG11QA5	TCA19351	John Deere® 2500 B/E, 7500/A, 7500 E-cut, 8500, 8500 E-cut, 220 E-cut, 2700, 2700 E-cut, 2550 E-cut, 2750 E-cut, 6500A, 6500A E-cut	5"	22"	11 blades Internal	
5RDG14QA5	TCA23621	John Deere® 2500 B/E, 7500/A, 7500 E-cut, 8500, 8500 E-cut, 220 E-cut, 2700, 2700 E-cut, 2550 E-cut, 2750 E-cut, 6500A, 6500A E-cut	5"	22"	14 blades Internal	
5RDF078500	TCA19350	John Deere® 2500 B/E, 7500/A, 7500 E-cut, 8500, 8500 E-cut, 220 E-cut, 2700, 2700 E-cut, 2550 E-cut, 2750 E-cut, 6500A, 6500A E-cut	5"	22"	7 blades Internal	
5RDF08QA5	TCA19353	John Deere® 6700A, 7700, 7700A, 8700, 8700A	7"	22"	8 blades Internal	
5RDF108700	TCA19354	John Deere® 6700A, 7700, 7700A, 8700, 8700A	7"	22"	10 blades Internal	
Jacobsen® Greensmower and Fairway Reels						
(NEW) 5RJG15322	4225505	Jacobsen® Eclipse 122, Eclipse 122F, E-Plex, E-Plex II, GP400, GK IV/IV+ (left), G-Plex III, Eclipse 322	5"	22"	15 blades	
5RJG11322	5001101, 5000028, 506636	Jacobsen® Eclipse 122, Eclipse 122F, E-Plex, E-Plex II, GP400, GK IV/IV+ (left), G-Plex III, Eclipse 322	5"	22"	11 blades	
5RJG11GK4	5001102, 5000029, 506635	Jacobsen® E-Plex, E-Plex II, GK IV, GK IV Plus, GK V, GK VI	5"	22"	11 blades	
5RJF073400R	5003054, 5003064, 5001096, 503320	Jacobsen® GK IV, GK IV Plus, GK V, GK VI, LF 100, LF 123, LF 128, LF 135, LF 3400, LF 3407, LF 3800, LF 4675, LF 510, LF 550, LF 550 T4F, LF550H T4F, LF 557	5"	22"	7 blades	
5RJF073400L	5003053, 5001095, 503319	Jacobsen® E-Plex, E-Plex II, GP 400, GK IV, GK IV Plus, G-Plex III, Eclipse 322, LF 100, LF 123, LF 128, LF-135, LF 3400, LF 3407, LF3800, LF 4675, LF 510, LF 550, LF 550 T4F, LF 557	5"	22"	7 blades	

Spline Couplings and Spline driver tools

Part #	Description	OEM #	Machines	Price
5RTF8SPMD	Toro® 8-spline male adapter	TOR 4112	Toro® 5210 and 5410 DPA Cutting Units	
5RTF8SPCL	Toro® 8-spline left-hand coupler	105-8076	Toro® 5210 and 5410 DPA Cutting Units	
5RTF8SPCR	Toro® 8-spline right-hand coupler	105-8075	Toro® 5210 and 5410 DPA Cutting Units	
5RTF9SPMD	Toro® 9-Spline Male Adapter	TOR 4074	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units	
5RTF9SPCL	Toro® 9-spline left-hand coupler	107-3276	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units	
5RTF9SPCR	Toro® 9-spline right-hand coupler	107-3275	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units	
5RTF9SPCL (Gold)	Toro® 9-spline left-hand coupler for brush and groomer kits	127-7111	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units	
5RTF9SPCLR (Gold)	Toro® 9-spline right-hand coupler for brush and groomer kits	127-7109	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units	

The Jacobsen® GK IV, GK 4 Plus mowers take (2) 5RJG11GK4, and (1) 5RJG11322. The Jacobsen® LF 3400, LF 4675, LF 510, LF 557, LF 550, LF 550H, LF 550H T4F take (3) 5RJF073400L (RF, C, RR) and (2) 5RJF073400R (LF, LR).

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.

The Elite super-thin bedknives for Toro® (4TPB18 and 4TPB22), John Deere® (4JDPB18 and 4JDPB22) and Jacobsen® (4JPB18 and 4JPB22) will leave your greens looking immaculate and allow you to achieve the lowest possible cut without dragging or scuffing.

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.

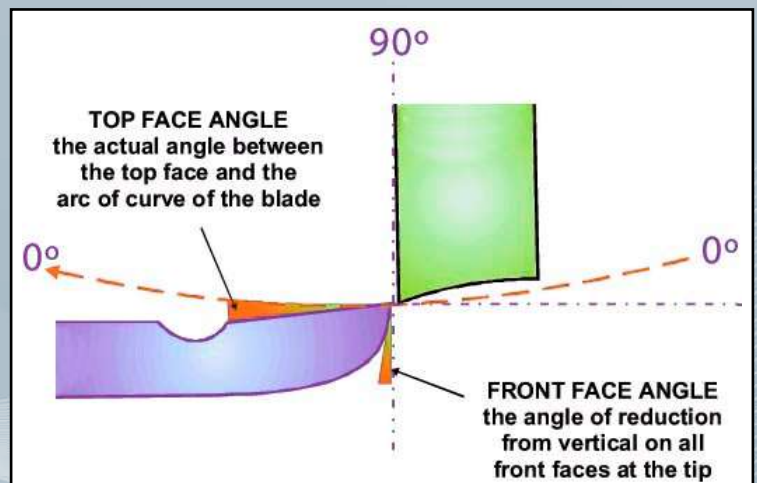
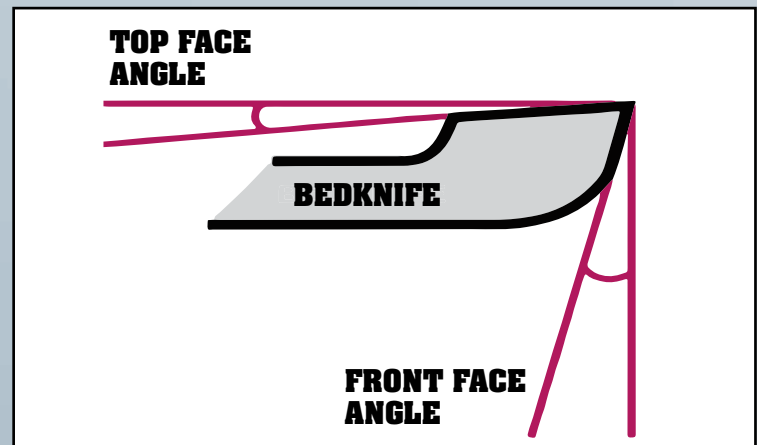
Bedknife Grind Angles

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.



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.

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

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	

Selecting the correct DURANIUM-801® greensmower bedknife

- Standard Low-cut (.135" & above)
- Tournament-cut (.115" & above)
- Micro-cut/Super Tournament (.098" & above)
- High-cut bedknives (.175" & above)



Correct bedknife determined by your cutting height. These bedknives will not cut lower than the minimum cutting-edge height listed.

- Extended-cut bedknives



These bedknives are designed to position the cutting-edge further dead center on the reel allowing for a less-aggressive angle to the ground minimizing the chances of bruising, dragging and scuffing.

- Ultra-cut bedknives



The bottom face angles are cut back to the screws to allow for maximum drag clearance to avoid bruising, dragging and scuffing. These bedknives feature the same cutting-edge thickness as a micro-cut, but can provide the flexibility to cut as low as .070" due to the extended bottom face angles.

- Elite super-thin bedknife



This bedknife is the thinnest bedknife on the market (.050" cutting-edge height). It is not designed for everyday use but for special occasions to achieve the cleanest and lowest possible cut.

4BT250104



4BD273202



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 our 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.



JRM Socket Driver Tool

Part No.	JRM Description	FITS	Price
4TGFBD	Socket Driver Tool for Toro® Greensmower and Fairway screws	45TB100	
4DGBD	Socket Driver Tool for John Deere® Greensmower screws	45DB100	
4JGBD	Socket Driver Tool for Jacobsen® Greensmower screws	45JB100	

We currently do not offer a Socket Driver Tool for the John Deere® Fairway screws. Exception: the bedknives (4BD273202 and 4BD273205) work with the 4DGBD socket driver tool.

Testimonial

Daniel L. Barnes

Lead tech at Sun City Hilton Head in South Carolina.

Nice little addition to box. No slips, no burrs created on the screw like other bits I've used, just nice and easy. Blue screws are pretty too. Thanks!

[@JRMTurfProducts](#)



JRM DURANIUM-801® bedknife torque specifications

Steps to tighten a JRM bedknife

Step 1: Using a torque wrench and bedknife socket driver tool, tighten the two outermost screws to 10 in-lbs (1 N-m)

Step 2: Working from the center of the bedknife towards each end, tighten the screws according to your mower's recommended tolerance below in an alternating (side to side) sequence. (see diagram)

Anti-Seize Lubricant is recommended to be put on the screw threads before installation.

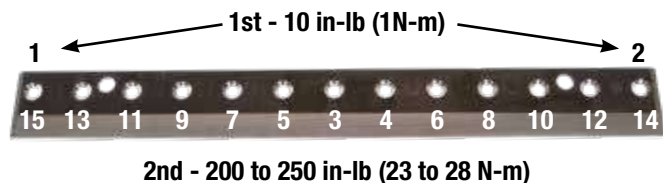
Recommended factory tolerances

Toro® -- 200 to 250 inch-lbs. (22.6-28.3 N-m)

Jacobsen® -- 90 to 120 inch-lbs. (10.2-13.5 N-m)

John Deere® -- 62 inch-lbs. (7 N-m)

N-m = Newton Metre



Check out our premium lapping compound on Page 6 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	Toro [®] Machines	Price
4BT250101 (Toro [®] 94-6395)	Standard Low-Cut 7-hole bedknife	.135" & above	5 & 15°	21.25"	Toro [®] Greensmaster 3000 Series	
4BT250102 (Toro [®] 93-4264)	Standard Low-Cut 13-hole bedknife	.135" & above	5 & 15°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	
4BT250103 (Toro [®] 94-6394)	Tournament 7-hole bedknife	.115" & above	5 & 15°	21.25"	Toro [®] Greensmaster 3000 Series	
4BT250104 (Toro [®] 93-4263)	Tournament 13-hole bedknife	.115" & above	5 & 15°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	
4BT244216 (Toro [®] 94-5885/117-1548)	Tournament 16-hole bedknife	.115" & above	3° & 13°	26"	Toro [®] GM 1600, 1610, 2600, GR 1026 Integral Cutting Unit	
4BT250109 JRM Exclusive	Micro-cut 7-hole bedknife	.098" & above	5 & 15°	21.25"	Toro [®] Greensmaster 3000 Series	
4BT250105 (Toro [®] 93-4262)	Micro-cut 13-hole bedknife	.098" & above	5 & 15°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	
4BT250106 (Toro [®] 98-7261)	Micro-cut 11-hole bedknife	.098" & above	5 & 15°	18.25"	Toro [®] GM800, Flex 18/1800, eFlex1800/1820	
4BT244218 (Toro [®] 112-9275)	Micro-cut 16-hole bedknife	.098" & above	3° & 13°	26"	Toro [®] GM 1600, 1610, 2600, GR 1026 Integral Cutting Unit	
4BT250107 (Toro [®] 108-4303)	Extended-cut 13-hole micro-cut bedknife	.098" & above	5 & 15°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	
4BT250110 (Toro [®] 110-2300)	Extended-cut 11-hole micro-cut bedknife	.098" & above	5 & 15°	18.25"	Toro [®] GM800, Flex 18/1800, eFlex1800	
4BT250108 JRM Exclusive	Ultra-cut 13-hole bedknife with Max. Drag Clearance/Reduced Bruising	.098" & above	5 & 15°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	
4TPB18 JRM Exclusive	Elite super-thin cut 11-hole bedknife	.050" & above	0 & 90°	18.25"	Toro [®] GM800, Flex 18/1800, eFlex1800/1820	
4TPB22 JRM Exclusive	Elite super-thin cut 13-hole bedknife	.050" & above	0 & 90°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	

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	Toro [®] Machines	Price
4BT250221 (Toro [®] 94-6396)	High-cut 7-hole bedknife	.175" & above	5 & 15°	21.25"	Toro [®] Greensmaster 3000 Series	
4BT250222 (Toro [®] 94-6392)	High-cut 13-hole bedknife	.175" & above	5 & 15°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	

DURANIUM-801[®] Fairway Replacement Bedknives

Part No.	JRM Description	Cutting edge height	JRM Recommended Grind Angles Top Face/Front Face	Length	Toro [®] Machines	Price
4BT243201 (Toro [®] 93-9774)	Low-cut 8-hole fairway bedknife	.250" & above	3.83 & 30°	22.19"	Toro [®] 3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA	
4BT238211 (Toro [®] 121-3167/130-4745)	Low-cut 6-hole fairway bedknife	.250" & above	10° & 5°	18"	Toro [®] Reelmaster 3550 Edge Series DPA	
4BT243202 (Toro [®] 104-1810)	High-cut 8-hole fairway bedknife	.335" & above	3 & 11°	22.19"	Toro [®] RM 5500D, 6500D, 6700D SPA	
4BT244217 (Toro [®] 104-2646)	High-cut 16-hole fairway bedknife	.320" & above	3° & 13°	26"	Toro [®] GM 1600, 1610, 2600, GR 1026 Integral Cutting Unit	
4BT264203* (Toro [®] 108-9096)	Standard-cut 8-hole fairway bedknife	.285" & above	3.33 & 6°	22.19"	Toro [®] 3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA	
4BT265204 (Toro [®] 63-8610/100-3350)	Standard-cut 7-hole fairway bedknife	.250" & above	3 & 13°	21.25"	Toro [®] 5200, 5300, 5400 4-bolt cutting units	
4BT243210 (Toro [®] 94-8936)	Extended-cut 8-hole low-cut fairway bedknife	.250" & above	10° & 30°	22.19"	Toro [®] 3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA	
4BT264205 (Toro [®] 110-4084)	Low-cut 8-hole fairway bedknife	.200" & above	5 & 6°	22.19"	Toro [®] 3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA	
4BT264209 (Toro [®] 120-1640/119-4280)	Extended-cut 8-hole low-cut fairway bedknife	.200" & above	10° & 10°	22.19"	Toro [®] 3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA	
4BT244215 (Toro [®] 93-9015)	Low-cut 16-hole fairway bedknife	.200" & above	3° & 13°	26"	Toro [®] GM 1600, 1610, 2600, GR 1026 Integral Cutting Unit	
4BT248206 (Toro [®] 63-8600)	Standard-cut 13-hole fairway bedknife	.250" & above	3 & 6°	21.25"	Toro [®] GM 1000, 1010, 2000, Flex 21/e-flex 2100, 2120, 3000, 3100, 3200, 3300, 3400, GR 1021	
4BT243207 (Toro [®] 110-4074)	Heavy Duty 8-hole fairway bedknife	.350" & above	5 & 6°	22.19"	Toro [®] 3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA	
4BT248214 (Toro [®] 107-8181)	Heavy Duty 16-hole fairway bedknife	.360" & above	3° & 13°	26"	Toro [®] GM 1600, 1610, 2600, GR 1026 Integral Cutting Unit	
4BT220212 (Toro [®] 104-1380/114-9390)	Heavy Duty 10-hole fairway bedknife	.360" & above	10° & 5°	27"	Toro [®] Reelmaster 3100 Sidewinder/7000 Edge Series DPA	
4BT244213 (Toro [®] 105-6785/104-9388/112-8910)	Low-cut 10-hole fairway bedknife	.260" & above	10° & 5°	27"	Toro [®] Reelmaster 3100 Sidewinder/7000 Edge Series DPA	

Toro[®] Screws and Socket driver tool

Part No.	JRM Description	Price
4STB100	Toro [®] Fairway/Greensmower bedknife screws (Blue-colored)-Bag of 100 Screw Diameter .245"; Screw Length .500"; Screw Head Diameter .450"	
4TGFBD	Toro [®] Socket Driver Tool for Greens and fairway screws	

★ 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	4SJB100	
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	4SJB100	
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	4SJB100	
4BJ250105 (Jacobsen® #5002888)	Super Tournament 11-hole bedknife	.098" & above	5 & 90°	18.25"	GK518, Eclipse 118/118F	4SJB100	
4BJ250106 (Jacobsen® #2810984)	Super Tournament 11-hole bedknife	.098" & above	5 & 90°	19.35"	PGM 19	4SJB100	
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	4SJB100	
4BJ250110 (Jacobsen® #4234901)	Ultra-cut 11-hole bedknife with Max. Drag Clearance	.098" & above	5 & 90°	18.25"	GK518, Eclipse 118/118F	4SJB100	
4BJ250111 (Jacobsen® #5002887)	Extended-Cut 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	4SJB100	
4JPB18 JRM Exclusive	Elite super-thin cut 11-hole bedknife	.050" & above	0 & 90°	18.25"	GK518, Eclipse 118/118F	4SJB100	
4JPB22 JRM Exclusive	Elite super-thin cut 13-hole bedknife	.050" & above	0 & 90°	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22	4SJB100	

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	4SJB100	
4BJ250222 (Jacobsen® #4118902)	High-cut 11-hole bedknife	.175" & above	8 & 90°	18.25"	Jacobsen SLF1880, GK518, Eclipse 118	4SJB100	

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	4SJB100	
4BJ248202* (Jacobsen® #5003150)	Low-cut 13-hole fairway bedknife	.320" & above	5 & 90°	22"	Eclipse 322, G-Plex III, GP400, LF550, LF3400, LF4675	4SJB100	
4BJ248203 (Jacobsen® #4118902)	Low-cut 11-hole fairway bedknife	.320" & above	5 & 90°	18.25"	Jacobsen® SLF1880	4SJB100	

The 4BJ248202 will work on all 5" fairway reels for Jacobsen®, but not the Jacobsen® 7" reels. The recommended bedknife for the 7" reel is the 4BJ248201.

JRM Fairway/Greensmower Bedknife Screws

Part No.	JRM Description	Screw Measurements	Price
4SJB100	Jacobsen® bedknife screws-Bag of 100 Course-threaded silver-colored screws	Screw Diameter: .229"; Screw Length: .472"; Screw Head Diameter: .417"	
4JGBD	Socket Driver Tool for Jacobsen® Greensmower screws	4SJB100	

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 6 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
4BD250102 (John Deere [®] #ET17533)	Extended-Cut Standard 13-hole bedknife	.135" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD248209 (John Deere [®] MT6947)	Super Extended-cut Standard 15-hole bedknife	.135" & above	15° & 6°	26"	John Deere 260 B, C, SL	4SDB100	
4BD250103 (John Deere [®] #ET17534)	Extended-Cut Tournament 13-hole bedknife	.115" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD250108 (John Deere [®] #MT4846)	Extended-Cut Tournament 11-hole bedknife	.115" & above	8 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5	4SDB100	
4BD248210 (John Deere [®] TCU31428)	Extended-Cut Tournament 13-hole bedknife	.115" & above	15° & 6°	26"	John Deere 260 B, C, SL	4SDB100	
4BD250304 (JD [®] #ET4869/UC19154)	Standard 13-hole Super Tournament bedknife	.098" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD250305 (John Deere [®] #MT6944)	Standard 11-hole Super Tournament bedknife	.098" & above	8 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5	4SDB100	
4BD250104 (JD [®] #ET4869/UC19154)	Extended-Cut Super Tournament 13-hole bedknife	.098" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD250105 (John Deere [®] #MT6944)	Extended-Cut Super Tournament 11-hole bedknife	.098" & above	8 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5	4SDB100	
4BD250114 (JD [®] #ET4869/UC19154)	Super Extended-cut Super Tournament 13-hole bedknife	.098" & above	5 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD250115 (John Deere [®] #MT6944)	Super Extended-cut Super Tournament 11-hole bedknife	.098" & above	5 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5	4SDB100	
4BD250109 (John Deere [®] #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	4SDB100	
NEW 4BD250111 (John Deere [®] #TCU36165)	Super Extended-cut Ultra-cut 13-hole bedknife with Maximum Drag Clearance	.098" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD250110 (John Deere [®] #MT7350)	Extended-cut Ultra-cut 11-hole bedknife with Maximum Drag Clearance	.098" & above	5 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5	4SDB100	
4JDPB18 (JRM EXCLUSIVE)	Elite Super-thin cut 11-hole bedknife	.050" & above	0 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5, JD8000 E-cut	4SDB100	
4JDPB22 (JRM EXCLUSIVE)	Elite Super-thin cut 13-hole bedknife	.050" & above	0 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	

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
4BD250221 (John Deere [®] ET17532)	High-cut 13-hole bedknife	.175" & above	8 & 90°	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500	4SDB100	
4BD250222 (John Deere [®] #TCU25299)	High-cut 11-hole bedknife	.175" & above	8 & 90°	18.13"	JD180A/B/C/SL WGM 18" QA5, JD8000 E-cut	4SDB100	

DURANIUM-801[®] 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 [®] ET17751)	Standard-cut 9-hole fairway bedknife	.360" & above	5 & 6°	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade	4SDF100	
4BD273202 (John Deere [®] ET17767)	High-cut 13-hole fairway bedknife	.270" & above	5 & 6°	22.63"	JD 220A, 220B, 2500A, 3215A, 3235A, 3225C, 7500, 8500	4SDB100	
4BD273205 (John Deere [®] ET17767)	Extended-cut 13-hole fairway bedknife	.270" & above	5 & 6°	22.63"	JD 220B, 3215A, 3225C, 7500, 8500	4SDB100	
*4BD273203 (John Deere [®] MT1928)	Standard-cut 9-hole fairway bedknife	.240" & above	5 & 6°	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade, 3215A, 3235A, 3225C	4SDF100	
*4BD273204 (John Deere [®] MT3983)	Low-cut 9-hole fairway bedknife	.180" & above	5 & 6°	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade, 3215A, 3235A, 3225C	4SDF100	
4BD248208 (John Deere [®] MT6946)	Fairway 15-hole bedknife	.180" & above	15° & 6°	26"	John Deere 260 B, C, SL	4SDB100	
4BD273206 (John Deere [®] ET17752)	Standard-cut 10-hole fairway bedknife	.360" & Above	5 & 6°	26.75"	JD2653, 7200/A, 8900A, QA7	4SDF100	

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

JRM Fairway/Greensmower Bedknife Screws/Nuts

Part No.	JRM Description	Screw Measurements	Price
4SDB100	John Deere [®] bedknife screws-Bag of 100 Course-threaded gold-colored screws	Screw Diameter: .245"; Screw Length: .500"; Screw Head Diameter: .450"	
4DGBD	Socket Driver Tool for John Deere [®] Greensmower screws	4SDB100	
4SDF050 / 4SDF100	John Deere [®] bedknife screws-Bag of 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"	

GOLFCO® INTERNATIONAL

*Experience The Competition
Roller Difference*

**Consistent After Cut Appearance
Heavy-Duty Polyurethane
Rollers For All Equipment**

**Kinder on Turf
Common Bearing Kit
Custom Roller Packages**



COMPETITION™ **ROLLERS**

JRM Vulcan grinding wheels - Longest lasting grinding wheel on the market

- The Cubic Boron Nitride (CBN) surface is the second-hardest abrasive next to diamond
- Perfectly designed for difficult to grind materials like hardened bedknives
- The CBN surface stays cool throughout the grinding process eliminating any possible thermal damage or glazing to the bedknife
- The CBN wheel cuts the grinding time in half compared to other grinding surfaces
- Coolant is optional with the Vulcan Grinding Wheel
- Dress the stone periodically with the included dressing stick to keep the surface clean and even.
- The CBN surface holds its form and provides the consistent grinding and versatility needed in the golf course maintenance field



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.

Featuring Hector Velazquez from Hector's Shop

Hector Velazquez from Hector's Shop will soon be opening an Outdoor Power Equipment Training Center, based in Chesaning, MI for Equipment Manager's nationwide for one-on-one training inside Hector's Shop. The training will be a boot camp setup focusing on troubleshooting, electrical systems, reel and bedknife grinding and setup and much more.

Hector is also starting Outdoor Power Equipment (OPE) classes for junior-high and high-school homeschoolers.

Velazquez is a 20-year veteran in the industry, and he is currently the Equipment Manager at Walnut Creek Country Club in South Lyon, MI. You can reach Hector through his website, www.hectorsshop.com. Also, check out the many instructional videos that he posts monthly on the website. Hector's motto is "Helping Technicians One Wrench at a Time," and he's maintained his instructional website for 9 years now.



Hector Velazquez, owner of Hector's Shop, an outdoor power equipment training center, is shown grinding a JRM, Inc. 4JDPB22 DURANIUM-801® bedknife with a JRM Vulcan Grinding Wheel—9GW600162. Velazquez is a proud supporter of all JRM, Inc. Turf Products and has used most of our parts on his courses and for training in his classes and instructional videos.

OREGON®

"We consistently deliver on our commitment to quality through our established manufacturing standards for 26 different characteristics."

- David Parrish, General Manager
Blount Kansas City – Blade Manufacturing Facility



Oregon® Certified Lawn Mower Blades

OREGON®

OREGON® MOWER BLADES STYLE DIFFERENCES

OEM: Equivalent copy of OEM blade

G3: Gator blades 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 thicker & wider for superior longevity.

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

JRM Mower Blades

Machines	Part No.	OEM No.	Style	Style	Length	Arbor	Width	Thickness	Price
PROGRESSIVE® MOWER BLADES									
Progressive® SDR-90 (4 for 90" decks, high-lift)	94-122	522364	Standard	OEM	24"	1"	2.50"	.312"	
TORO® MOWER BLADES									
Toro® 3500D/3505D/4000D/4500D/4700D	794-052	105-9810/108-9026	Standard	OEM	27"	.500"	2.5"	.250"	
	96-741	104-5183	Mulching	G3	27"	.500"	2.5"	.250"	
Toro® 4100D (3 for 62" cut/7 for 11" 4000D)	94-045	92-5608	Standard	OEM	21 11/16"	.500"	2.5"	.250"	
	96-708	107-0241	Mulching	G3	21 11/16"	.500"	2.5"	.250"	
Toro® 455D, 4100D (7 to a set)	94-043	106-7166/86-0010	Standard	OEM	19"	.500"	2.50"	.250"	
	96-701	107-0210/107-0215/108-1451	Mulching	G3	19"	.500"	2.50"	.250"	
Toro® 4300D	94-075	108-7395	Standard	OEM	22"	1/2"	2.5"	.250"	
	96-075	114-0434	Mulching	G3	22"	1/2"	2.5"	.187"	
Toro® Groundsmaster 3280-D3320	94-074	110-0621	Standard	OEM	24 1/2"	1/2"	2.5"	.250"	
	94-071	110-0622/110-0624	Mulching	G3	24 1/2"	1/2"	2.5"	.250"	
Toro® Groundsmaster 5900/5910	94-079	110-5946	Standard	OEM	20"	1/2"	2.50"	.250"	
	96-802	110-5948	Mulching	G3	20"	1/2"	2.5"	.250"	
Toro® Groundsmaster 580D (11 for 16" cut)	94-029	69-6920	Standard	OEM	20"	5/8"	2.5"	.250"	
Toro® 72" cut Heavy Duty	94-011 (left-hand)	29-5530	Standard	OEM	25"	3/4"	2.5"	.250"	
Toro® (60" cut) Turbo Force Deck	94-055	105-7718/108-1114	Standard	OEM	20 1/2"	5/8"	2.5"	.250"	
	94-130 (recycler decks)	105-7777	Standard	OEM	20 1/2"	5/8"	2.5"	.250"	
	96-319	105-7715/105-7777/105-8777	Mulching	G3	20 1/2"	5/8"	2.5"	.203"	
	396-740	105-7715/105-7777/105-8777	Mulching	G6	20 1/2"	5/8"	3"	.250"	
John Deere® Mower Blades									
John Deere® 7400, 9009	580820	TCU27876	Mulching	G6	27"	7/8"	3"	.250"	
	580823	TCU27401	Standard	OEM	27"	7/8"	2.5"	.250"	
John Deere® 8800, 3245 Series	584621	GC0344	Standard	OEM	20.675"	3/8"	2.5"	.250"	
	96-811	GC00175	Mulching	G3	20.675"	3/8"	2.5"	.250"	
John Deere® 60" cut, High-lift, 7-Iron decks (JD 8800A)	91-078	M128485	Standard	OEM	20 7/8"	7/8"	2.50"	.312"	
	92-113	M144196/TCU15881	Standard	OEM	20 7/8"	7/8"	3"	.250"	
	396-730	M133381/M163983/TCU18990	Mulching	G6	20 7/8"	7/8"	3"	.250"	
John Deere® 1453 72" cut, 7-Iron deck	396-743	EPC201693/M141669	Mulching	G6	25"	7/8"	3"	.250"	
	92-114	TCU15882	Standard	OEM	25"	7/8"	3"	.250"	
John Deere® 1600 Wide-area mower (3 for 62" cut)	596-722	M144297/M144935	Mulching	G5	21 7/8"	7/8"	3"	.203"	
	92-120	TCU51118	Standard	OEM	21 7/8"	7/8"	2.5"	.312"	
John Deere® 54" cut, 7-iron deck, Z Track, signature series	91-138	M134305/M136195/TCU30316	Standard	OEM	19"	7/8"	2.5"	.250"	
	92-118	M144652/M164016/TCU30317	Standard	OEM	19"	7/8"	3"	.250"	
	396-769	M135334	Mulching	G3	19"	7/8"	3"	.250"	
Jacobsen® AR-5/522	91-591	4137186	Standard	OEM	22 5/16"	1/2"	2.5"	.250"	
Jacobsen® Bobcat (1-hole) 3 for 72" cut	93-025	112111-04	Standard	OEM	25"	5/8"	2.5"	.250"	
	396-731	42139B/P848/7046625	Mulching	G6	25"	5/8"	3"	.250"	
Jacobsen® HR511	91-364 (Right-hand cut, 3 per deck)	JT391040	Standard	OEM	23"	1/2"	2.5"	.250"	
	91-363 (Left-hand cut, 4 per deck)	JT391039	Standard	OEM	23"	1/2"	2.5"	.250"	
	96-696 (Left-hand cut, 4 per deck)	JT391039	Mulching	G3	23"	1/2"	2.5"	.250"	
	96-795 (Right-hand cut, 3 per deck)	4186852	Mulching	G3	23"	1/2"	2.5"	.250"	
LASTEC® MOWER BLADES									
LASTEC® 61" cut 2261, 2661, 2861, 2961, and EF 100 Series	93-008	42180B/3021538	Standard	OEM	21"	5/8"	2.5"	.250"	
	91-308	P246	Mulching	OEM	21"	5/8"	2.5"	.203"	
	96-347	063265/P322	Mulching	G3	21"	5/8"	2.5"	.203"	
	396-727	063265/P322	Mulching	G6	21"	5/8"	3"	.250"	
LASTEC® 72" cut	91-609	5102227S	Standard	OEM	25"	5/8"	2.5"	.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 the blade you need.

MOWER BLADE PRICES SUBJECT TO CHANGE



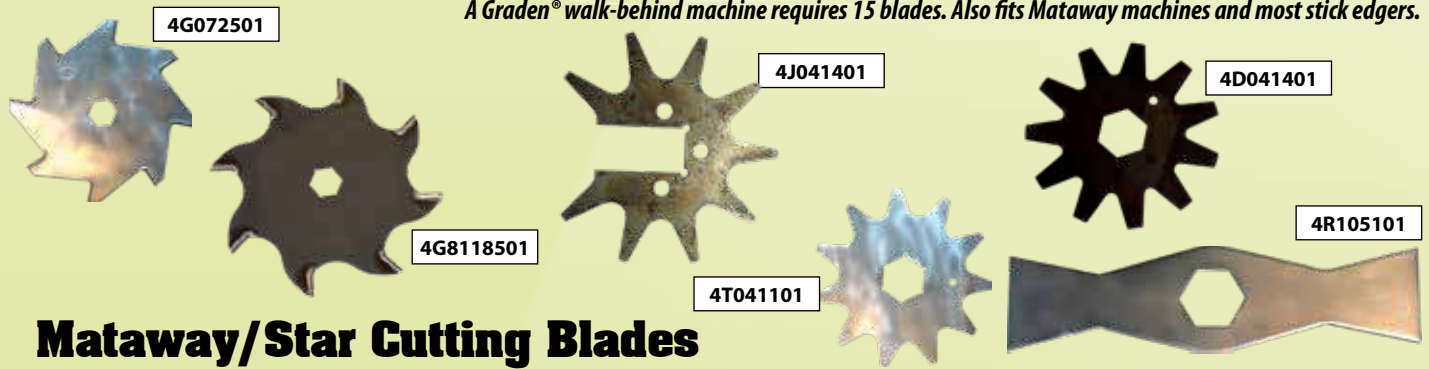
96-741

DILLENNIUM® Graden® cutting blades



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

A Graden® walk-behind machine requires 15 blades. Also fits Mataway machines and most stick edgers.



Mataway/Star Cutting Blades

Part No.	JRM Description	Blade Diameter	Arbor	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	Star Verti-cut blade for Toro®	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®	



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

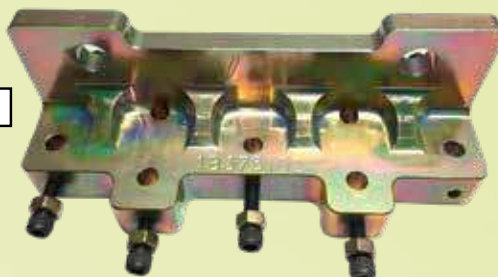
Closed Spoon Tines

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

Part No.	JRM Description	Blocks Per Set	Price Per Block	Price Per Set
1B375102	.375" 10-Hole Quad Tine Block for Toro® Procore 648 (Gold Rust-Proof Coating)	Set=6 blocks		

1B375102



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	

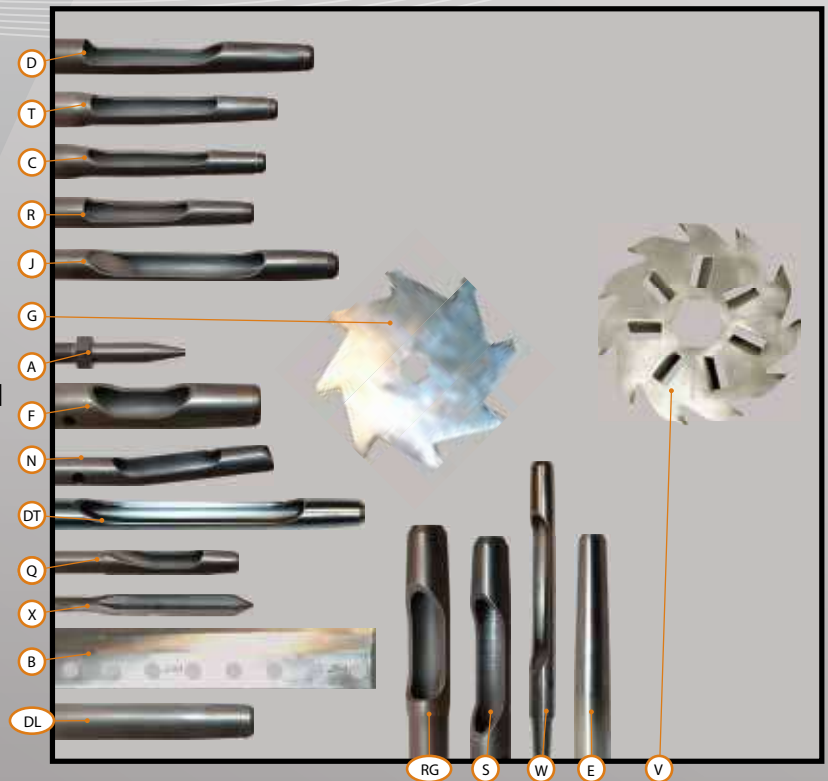
The first character is the part Type.

- 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®)**
- 800 Series = our NEW INFINITY line of tines for longer life**



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®

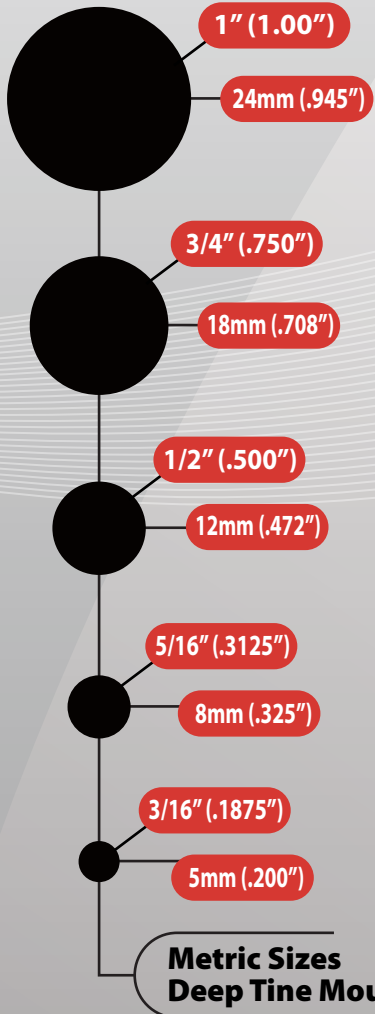
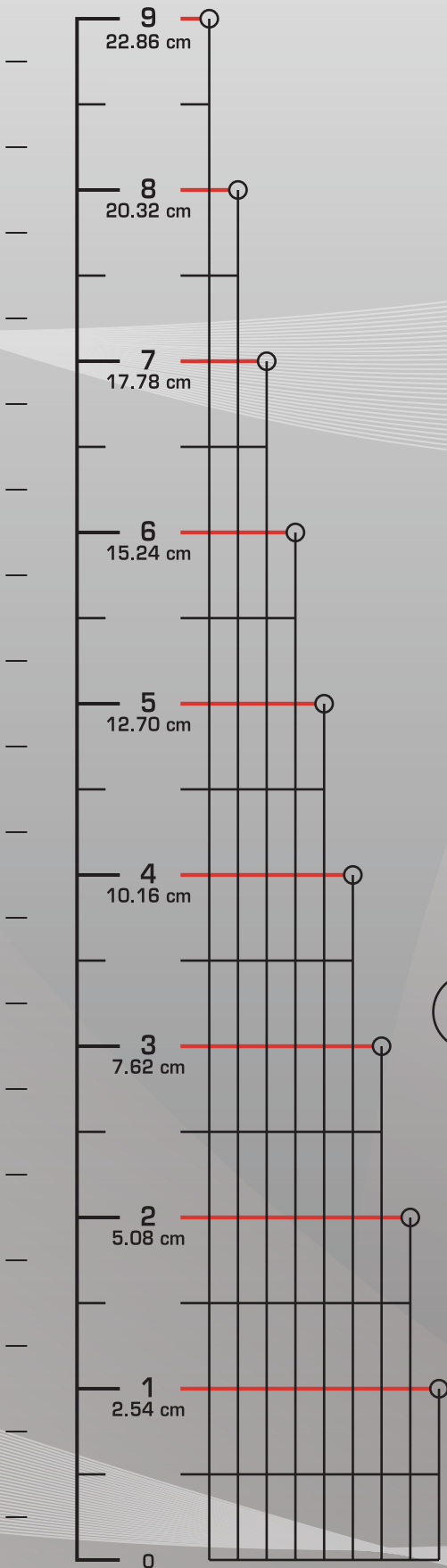
The terminology and specification conventions we use to describe both conventional and deep tines were not created by JRM. In actuality, they have been in existence for many years. There are two critical measurements necessary to selecting the correct tine: total length and mounting diameter. The total 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.

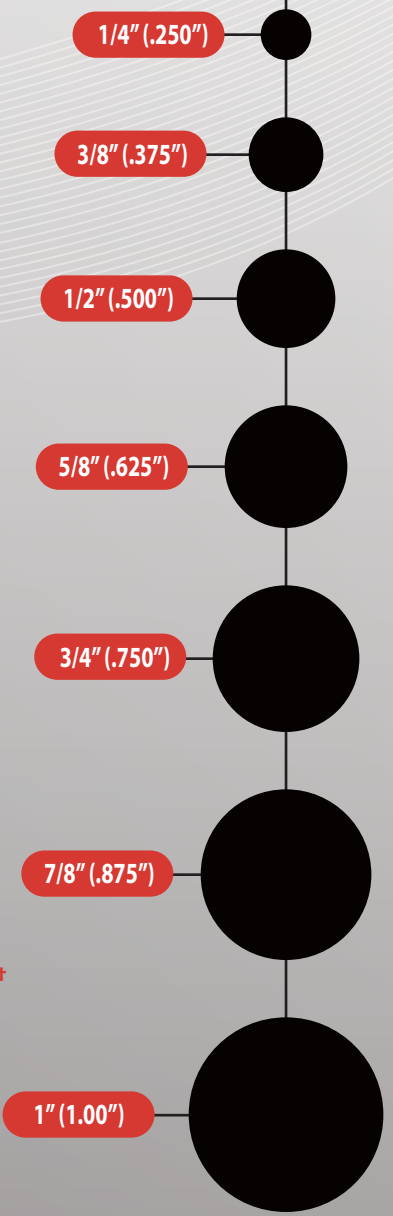
The ID (inside diameter) is the cutting measurement that will result in the diameter of each core. Carefully consider the tine's ID, since it will determine the diameter of each core. When deciding whether to purchase a DILLENNIUM® tine or a Premium tine one should consider the soil quality/makeup. Since 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.



TINE MEASUREMENT

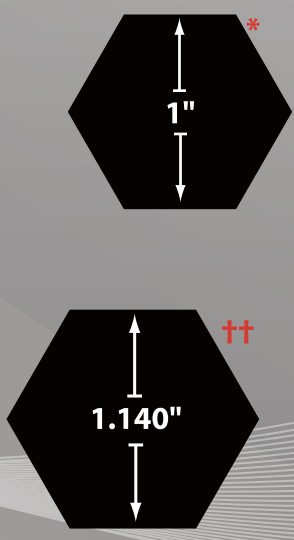


U.S. Standard Sizes

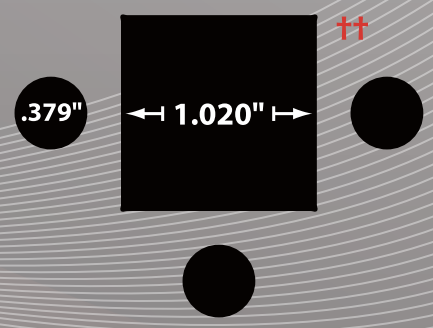


**Graden® & Ryan® Mataway blades*
DILLENNIUM® Vortex VERTI® blades††**

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	x				
Ryan® GA-30/60	5.5"	x	x	x	x	x				
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 19 of our catalog to be aware of the length and mount specifications of your machine.

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.



1DS500101



1DS625504



1DS750501



1T625102



1TS750502



1T625505



1TS500105



1TS625106



1TS625506



1TS750102



1DS625181

JRM TINES PULL A BETTER CORE, MORE MATERIAL & LAST LONGER

Tine Diameter	Spacing (inches)	# Holes per Sq Ft	% Surface area
1/4"	1x1	144	4.91%
1/4"	1x2	72	2.45%
1/4"	2x2	36	1.23%
3/8"	1x1	144	11.04%
3/8"	1x2	72	5.52%
3/8"	2x2	36	2.76%
1/2"	1x1	144	19.63%
1/2"	1x2	72	9.82%
1/2"	2x2	36	4.91%
5/8"	1x1	144	30.68%
5/8"	1x2	72	15.34%

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
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	
1DS500504	DILLENNIUM® 1/2" side-eject tine	5"	3/4"	.400"	.580"	.072"	1TS500501	
1DS500101 (JD #TCU17343)	Premium 1/2" top-eject tine	5.5"	3/4"	.400"	.570"	.072"	1TS500102	
1DS500101	Premium 1/2" side-eject tine	5.5"	3/4"	.400"	.570"	.072"	1TS500102	
1DS500501 (JD #TCU17344)	DILLENNIUM® 1/2" top-eject tine	5.75"	3/4"	.400"	.580"	.072"	1TS500502	
1DS500501	DILLENNIUM® 1/2" side-eject tine	5.75"	3/4"	.400"	.580"	.072"	1TS500502	
1DS500105	Premium 1/2" top-eject tine	6"	3/4"	.400"	.570"	.072"	1TS500105	
1DS500105	Premium 1/2" side-eject tine	6"	3/4"	.400"	.570"	.072"	1TS500105	
1DS500185	INFINITY® Premium 1/2" side-eject tine	6"	3/4"	.400"	.570"	.072"	N/A	
1DS500505	DILLENNIUM® 1/2" side-eject tine	6.25"	3/4"	.400"	.580"	.072"	1TS500505	
1DS500585	INFINITY® DILLENNIUM® 1/2" side-eject tine	6.25"	3/4"	.400"	.580"	.072"	N/A	
1DS500552 (JD #TCU17345)	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	5.75"	3/4"	.350"	.545"	.072"	1TS500552	
1DS500556	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	6.25"	3/4"	.350"	.545"	.072"	1TS500556	
1DS625503	DILLENNIUM® 5/8" side-eject tine	4.5"	3/4"	.480"	.640"	.072"	1RS625501	
1D625104	Premium 5/8" top-eject tine	4.75"	3/4"	.490"	.645"	.072"	1T625101	
1D625504	DILLENNIUM® 5/8" top-eject tine	5"	3/4"	.480"	.640"	.072"	1T625501	
1DS625504	DILLENNIUM® 5/8" side-eject tine	5"	3/4"	.480"	.640"	.072"	1TS625501	
1D625101 (JD #TCU17335)	Premium 5/8" top-eject tine	5.5"	3/4"	.490"	.645"	.072"	1T625102	
1DS625101	Premium 5/8" side-eject tine	5.5"	3/4"	.490"	.645"	.072"	1TS625102	
1DS625181	INFINITY® Premium 5/8" side-eject tine	5.5"	3/4"	.490"	.645"	.072"	N/A	
1D625501 (JD #TCU17336)	DILLENNIUM® 5/8" top-eject tine	5.75"	3/4"	.480"	.640"	.072"	1T625502	
1DS625501 (JD #TCU17337)	DILLENNIUM® 5/8" side-eject tine	5.75"	3/4"	.480"	.640"	.072"	1TS625502	
1DS625581 (JD #TCU17337)	INFINITY® DILLENNIUM® 5/8" side-eject tine	5.75"	3/4"	.480"	.640"	.072"	N/A	
1D625105	Premium 5/8" top-eject tine	6"	3/4"	.490"	.645"	.072"	1T625105	
1DS625105	Premium 5/8" side-eject tine	6"	3/4"	.490"	.645"	.072"	1TS625105	
1DS625185	INFINITY® Premium 5/8" side-eject tine	6"	3/4"	.490"	.645"	.072"	N/A	
1D625505	DILLENNIUM® 5/8" top-eject tine	6.25"	3/4"	.480"	.640"	.072"	1T625505	
1DS625505	DILLENNIUM® 5/8" side-eject tine	6.25"	3/4"	.480"	.640"	.072"	1TS625505	
1DS625585	INFINITY® DILLENNIUM® 5/8" side-eject tine	6.25"	3/4"	.480"	.640"	.072"	N/A	
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	
1DS750501 (JD #TCU17341)	DILLENNIUM® 3/4" side-eject tine	6.25"	7/8"	.535"	.760"	.095"	1TS750502	

DILLENNIUM®
Premium
INFINITY® Premium
INFINITY® Dillennium

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

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 OEMs at this price level. The added thickness and better metal provides an excellent value.



1E500104



1E5875102

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"	.465"	.055"	
1E500104 (JD #TCU17450)	1/2" JRM Economy Top-eject Tine	6"	3/4"	.445"	.560"	.055"	
1E625104 (JD #TCU17451)	5/8" JRM Economy Top-eject Tine	6"	3/4"	.545"	.665"	.055"	
1E5750101	3/4" JRM Economy Side-eject Rolled Tine	5.5"	3/4"	.620"	.900"	.134"	
1E5875102	7/8" JRM Economy Side-eject Rolled Tine	5.5"	7/8"	.620"	.900"	.134"	

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	
1TS375581	INFINITY® DILLENNIUM® 3/8" side-eject tine	5"	3/4"	.270"	.425"	.072"	N/A	
1TS500501	DILLENNIUM® 1/2" side-eject tine	5"	3/4"	.400"	.580"	.072"	1DS500504	
1TS00102	Premium 1/2" top-eject tine	5.5"	3/4"	.400"	.570"	.072"	1DS00101	
1TS500102	Premium 1/2" side-eject tine	5.5"	3/4"	.400"	.570"	.072"	1DS500101	
1TS00502	DILLENNIUM® 1/2" top-eject tine	5.75"	3/4"	.400"	.580"	.072"	1DS00501	
1TS500502	DILLENNIUM® 1/2" side-eject tine	5.75"	3/4"	.400"	.580"	.072"	1DS500501	
1TS00105	Premium 1/2" top-eject tine	6"	3/4"	.400"	.570"	.072"	1DS00105	
1TS500105	Premium 1/2" side-eject tine	6"	3/4"	.400"	.570"	.072"	1DS500105	
1TS500505	DILLENNIUM® 1/2" side-eject tine	6.25"	3/4"	.400"	.580"	.072"	1DS500505	
1TS500552	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	5.75"	3/4"	.350"	.545"	.072"	1DS500552	
1TS500556	DILLENNIUM® 1/2" side-eject tine (with heavy-duty DILLENNIUM® tip)	6.25"	3/4"	.350"	.545"	.072"	1DS500556	
1T625101	Premium 5/8" top-eject tine	4.75"	3/4"	.490"	.645"	.072"	1D625104	
1T625501	DILLENNIUM® 5/8" top-eject tine	5"	3/4"	.480"	.640"	.072"	1D625504	
1TS625501	DILLENNIUM® 5/8" side-eject tine	5"	3/4"	.480"	.640"	.072"	1DS625504	
1T625102	Premium 5/8" top-eject tine	5.5"	3/4"	0.49"	.645"	0.072"	1D625101	
1TS625102	Premium 5/8" side-eject tine	5.5"	3/4"	.490"	.645"	.072"	1DS625101	
1T625502	DILLENNIUM® 5/8" top-eject tine	5.75"	3/4"	.480"	.640"	.072"	1D625501	
1TS625502	DILLENNIUM® 5/8" side-eject tine	5.75"	3/4"	.480"	.640"	.072"	1DS625501	
1T625105	Premium 5/8" top-eject tine	6"	3/4"	.490"	.645"	.072"	1D625105	
1TS625105	Premium 5/8" side-eject tine	6"	3/4"	.490"	.645"	.072"	1DS625105	
1T625505	DILLENNIUM® 5/8" top-eject tine	6.25"	3/4"	.480"	.640"	.072"	1D625505	
1TS625505	DILLENNIUM® 5/8" side-eject tine	6.25"	3/4"	.480"	.640"	.072"	1DS625505	
1TS625106	Premium 5/8" side-eject tine	6.25"	3/4"	.490"	.645"	.072"	N/A	
1TS625506	DILLENNIUM® 5/8" side-eject tine	6.50"	3/4"	.480"	.640"	.072"	N/A	
1T750501	DILLENNIUM® 3/4" top-eject tine	5.25"	7/8"	.535"	.760"	.095"	N/A	
1TS750501	DILLENNIUM® 3/4" side-eject tine	5.25"	7/8"	.535"	.760"	.095"	N/A	
1TS750102	Premium 3/4" side-eject tine	6"	7/8"	.570"	.765"	.095"	1DS750101	
1TS750502	DILLENNIUM® 3/4" side-eject tine	6.25"	7/8"	.535"	.760"	.095"	1DS750501	

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JRM Core Profiler Keychain



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

Part No.	JRM Description	Price
1CP250102	JRM Core Profiler Key Chain	

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 by a 1/4". This doesn't affect the overall length of the tine as we simply lengthened the tube by 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.

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®

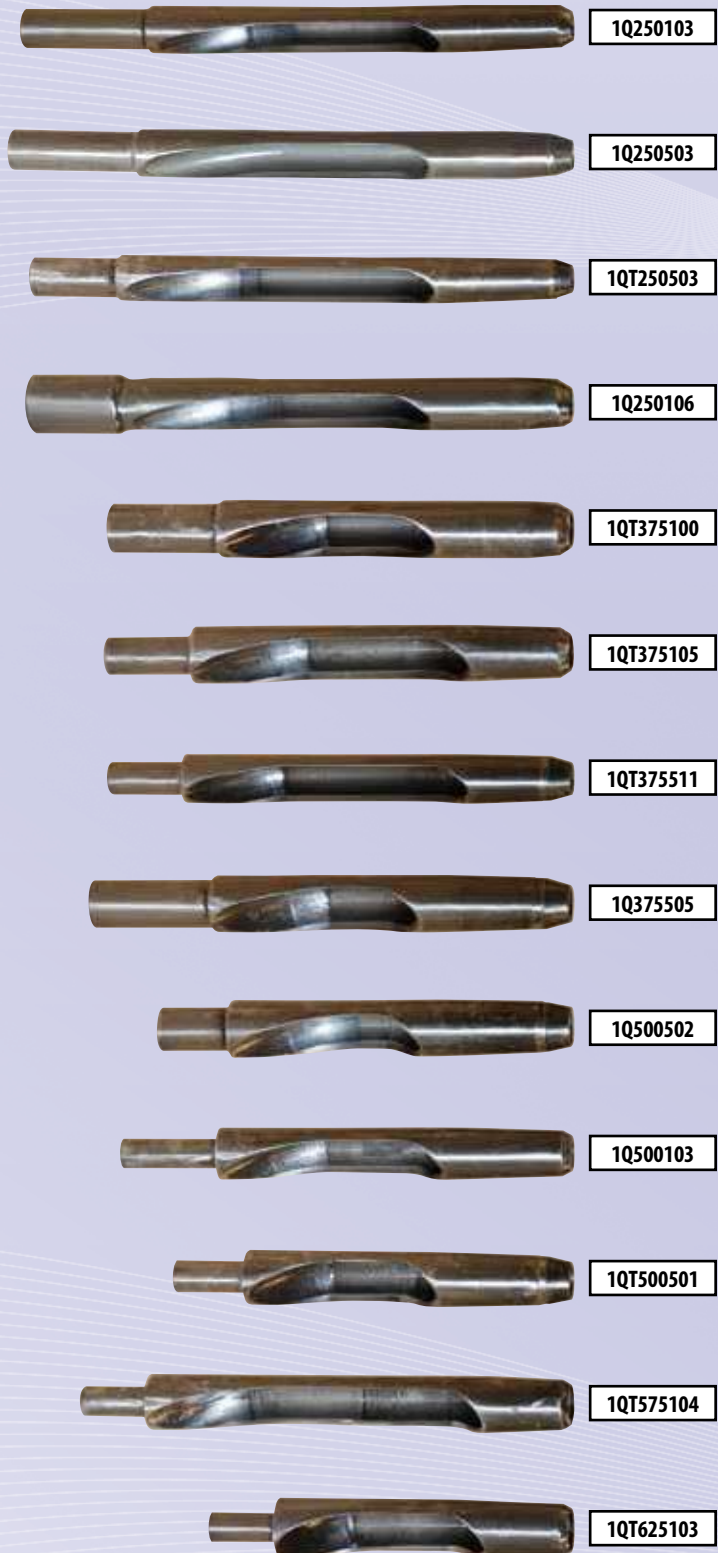
Quad Tine overview—Quad tines are the smallest and least invasive coring tines available in our Standard Quad (1/4") and SuperQuad™ (3/8") lines. We also offer some of the largest Quad tines on the market with our line of Magnum Quad Plus™ tines. Our Quad tines are milled from a single rod for enhanced 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.

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.



↑ Measure
O.D. Here

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
1QT250101	Premium 1/4" Quad Tine (with Toro® shank)	3.5"	3/8"	.250"	.385"	.065"	
1QT250501	DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	3.625"	3/8"	.250"	.385"	.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"	.385"	.065"	
1QT250505	DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	4.625"	3/8"	.250"	.385"	.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	INFINITY® Premium 1/4" Quad Tine (with Toro® shank)	5"	3/8"	.250"	.385"	.065"	
1Q250503 (JD #TCU17453)	DILLENNIUM® 1/4" Quad Tine	5.125"	3/8"	.250"	.385"	.065"	
1QT250503	DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	5.125"	3/8"	.250"	.385"	.065"	
1QT250583	INFINITY® DILLENNIUM® 1/4" Quad Tine (with Toro® shank)	5.125"	3/8"	.250"	.385"	.065"	
1QT250109	Premium 1/4" Side-eject Quad Tine (with Toro® shank)	6"	3/8"	.250"	.385"	.065"	
1QT250509	DILLENNIUM® 1/4" Side-eject Quad Tine (with Toro® shank)	6.125"	3/8"	.250"	.385"	.065"	
1Q250106	Premium 1/4" Quad Tine	4.5"	1/2"	.250"	.385"	.065"	

Super Quads™

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
1QT375100	Premium 3/8" Quad Tine (with Toro® shank)	3.5"	3/8"	.335"	.485"	.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	DILLENNIUM® 3/8" Quad Tine	4.625"	3/8"	.325"	.500"	.072"	
1Q375585 (JD #TCU17348)	INFINITY® DILLENNIUM® 3/8" 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	INFINITY® Premium 3/8" Quad Tine (with 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	INFINITY® DILLENNIUM® 3/8" Quad Tine (with 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"	
1Q375102	Premium 3/8" Quad Tine	4.5"	1/2"	.335"	.485"	.072"	
1Q375104	Premium 3/8" Quad Tine	4.5"	3/4"	.335"	.485"	.072"	

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



Premium/DILLENNIUM® Magnum Quad™ Tines

Part No.	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall	Price
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"	.580"	.072"	
1QT500501	DILLENNIUM® 1/2" Magnum Quad™ Tine (with Toro® shank)	4.625"	3/8"	.400"	.580"	.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	INFINITY® Premium 1/2" Magnum Quad™ Tine (with Toro® shank)	5.5"	3/8"	.400"	.550"	.072"	
1Q500503	DILLENNIUM® 1/2" Magnum Quad™ Tine	5.625"	3/8"	.400"	.580"	.072"	
1QT500503	DILLENNIUM® 1/2" Magnum Quad™ Tine (with Toro® shank)	5.625"	3/8"	.400"	.580"	.072"	
1Q500583	INFINITY® DILLENNIUM® 1/2" Magnum Quad™ Tine (with Toro® shank)	5.625"	3/8"	.400"	.580"	.072"	
1QT500112	Premium 1/2" Side-eject Quad Tine (with Toro® shank)	6.5"	3/8"	.400"	.550"	.072"	
1QT500512	DILLENNIUM® 1/2" Side-eject Quad Tine (with Toro® shank)	6.625"	3/8"	.400"	.580"	.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"	.580"	.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"	.580"	.072"	

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

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
1QT575103	Premium Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.470"	.605"	.063"	
1QT575503	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.465"	.610"	.063"	
1QT575108	Premium Mag Quad Plus™ Tine (with Toro® shank)	5.30"	3/8"	.470"	.605"	.063"	
1QT575508	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	5.30"	3/8"	.465"	.610"	.063"	
1QT575104	Premium Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.470"	.605"	.063"	
1QT575504	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.465"	.610"	.063"	
1Q575107	Premium Mag Quad Plus™ Tine	5"	1/2"	.470"	.605"	.063"	
1Q575507	DILLENNIUM® Mag Quad Plus™ Tine	5"	1/2"	.465"	.610"	.063"	
1QT625103	Premium Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.500"	.630"	.063"	
1QT625503	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	4.5"	3/8"	.510"	.665"	.063"	
1QT625104	Premium Mag Quad Plus™ Tine (with Toro® shank)	5.5"	3/8"	.500"	.630"	.063"	
1QT625184	5/8" Premium INFINITY® Side-eject Quad Tine (with Toro® shank)	5.5"	3/8"	.500"	.630"	.063"	
1QT625504	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	5.5"	3/8"	.510"	.665"	.063"	
1QT625584	5/8" DILLENNIUM INFINITY® Side-eject Quad Tine (with Toro® shank)	5.5"	3/8"	.510"	.665"	.063"	
1QT625105	Premium Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.500"	.630"	.063"	
1QT625185	INFINITY® Premium Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.500"	.630"	.063"	
1QT625505	DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.510"	.665"	.063"	
1QT625585	INFINITY® DILLENNIUM® Mag Quad Plus™ Tine (with Toro® shank)	6"	3/8"	.510"	.665"	.063"	
1Q625101	Premium Mag Quad Plus™ Tine	5.5"	3/4"	.500"	.630"	.063"	
1Q625501	DILLENNIUM® Mag Quad Plus™ Tine	5.5"	3/4"	.510"	.665"	.063"	
1Q625102	Premium Mag Quad Plus™ Tine	6.5"	3/4"	.500"	.630"	.063"	
1Q625502	DILLENNIUM® Mag Quad Plus™ Tine	6.625"	3/4"	.510"	.665"	.063"	

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

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1QT575104



1QT625103

It's always a good time to vent--Everyone needs to vent every now and then. When it comes to your course's greens, there is no better time to vent 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, allowing 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 aerification 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.

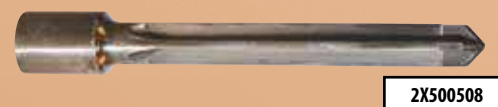
1/4" and 1/8" Solid Tines—JRM's 1/4" solid tines are the hottest selling tines in the conventional solid tine line. We have two 6" solid tines (2T250107, 2T250108) for added options. Also take note of our three 1/8" solid tines. The tines come in mount sizes of 3/8" and 1/2" and are the smallest tines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

Aerivator Tines—The Aerivator tine is a popular tine for landscapers. It is located at the top of Page 28 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 tines aerifiers like VERTI-DRAIN® and Soil Reliever. We also offer a dimple mount option for Wiedenmann® aerifiers.



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
2A625101	Solid 5/8" AERIVATOR tine	4.625"	Threaded	.640"	Solid	
2DT200104	.200" Needle Tine for Toro® ProCore 648	6.125"	.200"	.200"	Solid	
2DT250104	.250" Needle Tine for Toro® ProCore 648	6.125"	.250"	.250"	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	INFINITY® Solid 1/8" tine	4.5"	3/8"	.200"	Solid	
2T125105	1/8" solid tine	5.25"	3/8"	.200"	Solid	
2T125104	Solid 1/8" tine	6"	3/8"	.200"	Solid	
2T125184	INFINITY® Solid 1/8" 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	INFINITY® Solid 1/4" tine	5"	3/8"	.250"	Solid	
2T250107	Solid 1/4" tine	6.125"	3/8"	.250"	Solid	
2T250187	INFINITY® Solid 1/4" tine	6.125"	3/8"	.250"	Solid	
2T250109	Solid 1/4" tine	6.5"	3/8"	.250"	Solid	
2T250189	INFINITY® 1/4" solid 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	INFINITY® Solid 1/4" tine	5"	3/4"	.250"	Solid	
2T250108	Solid 1/4" tine	6.5"	3/4"	.250"	Solid	
2T250188	INFINITY® Solid 1/4" tine	6.5"	3/4"	.250"	Solid	
2D375104 (JD #TCU17346)	Solid 3/8" tine	5"	3/8"	.375"	Solid	
2D375184 (JD #TCU17346)	INFINITY® Solid 3/8" tine	5"	3/8"	.375"	Solid	
2D375106	Solid 3/8" tine	6"	3/8"	.325"	Solid	
2D375186	INFINITY® Solid 3/8" tine	6"	3/8"	.375"	Solid	
2D375107	3/8" solid tine	7"	3/8"	.375"	Solid	
2D375105	Solid 3/8" 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	INFINITY® Solid 3/8" tine	6"	3/4"	.375"	Solid	
2T375107	3/8" solid tine	7"	3/4"	.375"	Solid	
2T500103	Solid 1/2" Tine	6"	3/8"	.500"	Solid	
2T500183	INFINITY® Solid 1/2" Tine	6"	3/8"	.500"	Solid	
2T500102	Solid 1/2" tine	5"	3/4"	.500"	Solid	
2T500182	INFINITY® Solid 1/2" tine	5"	3/4"	.500"	Solid	
2T500104	Solid 1/2" tine	7"	3/4"	.500"	Solid	
2T500184	INFINITY® Solid 1/2" tine	7"	3/4"	.500"	Solid	
2T625104	Solid 5/8" tine	6"	3/8"	.625"	Solid	
2T625184	INFINITY® Solid 5/8" tine	6"	3/8"	.625"	Solid	
2T625102	Solid 5/8" tine	5"	3/4"	.625"	Solid	
2D625102	Solid 5/8" tine	7"	3/4"	.625"	Solid	
2D625182	INFINITY® Solid 5/8" tine	7"	3/4"	.625"	Solid	
2T750102	Solid 3/4" tine	5"	3/4"	.750"	Solid	
2D750102	Solid 3/4" tine	7"	3/4"	.750"	Solid	
2D750182	INFINITY® Solid 3/4" 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	

2T312101

INFINITY Premium

2T200101

Benefits of a Bayonet™ Tine:

- Very minimal playability concerns and little effect on ball roll
- The hole can stay open 2-3 weeks for maximum oxygen exchange
- Very effective tool in heavy rain and extreme heat conditions
- Bayonets sever the roots leading to a thicker root mass
- Rotate tines 180 degrees every 6-9 holes for even wear
- 7" bayonets work perfectly on the Toro® ProCore 648. Set your depth and get extended use from the tine.

Bayonet™ Tines

• It is recommended that you rotate your Bayonet™ tines every 6 to 9 greens to ensure proper wear patterns and longevity.



2B750123

Part No.	JRM Description	Length	Mount Diameter	Blade Width	Thickness	Price
2BT625101	Premium Bayonet™ 5/8" rib (with Toro® shank)	5.50"	3/8"	.625"	.190"	
2B750127	Premium Bayonet™ 3/4" rib	7"	3/8"	.750"	.190"	
2B750827	INFINITY® Bayonet™ 3/4" rib	7"	3/8"	.750"	.190"	
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	INFINITY® Bayonet™ 3/4" rib (with Toro® shank)	6"	3/8"	.750"	.190"	
2B750145	Premium Bayonet™ 3/4" rib	9.5"	12mm	.750"	.190"	
2WB750146	Premium Bayonet™ 3/4" rib for Wiedenmann®	9.5"	12mm dimple	.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	INFINITY® Bayonet™ 3/4" rib	4.75"	3/4"	.750"	.190"	
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 (JD #TCU17352)	INFINITY® Bayonet™ 3/4" rib	7"	3/4"	.750"	.190"	

INFINITY



2X500108

CROSSTINES®

Part No.	JRM Description	Length	Mount Diameter	Width	Wall	Price
2X375100	Premium CROSSTINE™ 3/8" rib	6"	3/8"	.375"	Solid	
2X500109 (JD #TCU17349)	Premium CROSSTINE® 1/2" rib	5.5"	3/8"	.500"	Solid	
2X500509 (JD #TCU17350)	DILLENNIUM® CROSSTINE® 1/2" rib	5.5"	3/8"	.500"	Solid	
2X500108	Premium CROSSTINE® 1/2" rib	5.5"	3/4"	.500"	Solid	
2X500508	DILLENNIUM® CROSSTINE® 1/2" rib	5.5"	3/4"	.500"	Solid	

DILLENNIUM®

Premium



2X750102

SuperCross™ Tines

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

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"	.720"	.105"	
1RG812502 (John Deere® TCU17457)	DILLENNIUM® Side-eject Greenbay Tine 13/16"	6"	3/4"	.490"	.730"	.105"	
1RG875102 (John Deere® TCU17342)	Premium Side-eject Greenbay Tine 7/8"	6"	3/4"	.575"	.770"	.095"	
1RG875502	DILLENNIUM® Side-eject Greenbay Tine 7/8"	6"	3/4"	.535"	.765"	.095"	
1RS875105	Heavy-Duty Premium Side-eject Greenbay Tine 7/8"	6"	3/4"	.600"	.930"	.156"	
1RS875505	Heavy-Duty DILLENNIUM® Side-eject Greenbay Tine 7/8"	6"	3/4"	.590"	.900"	.156"	
1RS875102 (John Deere® TCU17331)	Premium Side-eject Greenbay Tine 7/8"	5.55"	7/8"	.600"	.855"	.120"	
1RS875502 (John Deere® TCU17332)	DILLENNIUM® Side-eject Greenbay Tine 7/8"	5.55"	7/8"	.590"	.850"	.120"	
1RS875104	Heavy-Duty Premium Side-eject Greenbay Tine 7/8"	6"	7/8"	.600"	.930"	.156"	
1RS875504	Heavy-Duty DILLENNIUM® Side-eject Greenbay Tine 7/8"	6"	7/8"	.590"	.900"	.156"	



1RS875102



1RG812502

Testimonial

Thomas Slevin

Superintendent Napa Golf Course at Kennedy Park, Napa, CA

Very impressed with @JRMturfProducts DILLENNIUM® Greenbay Tines [1RS875505] .156" wall thickness. After 2 acres of very stubborn tees, almost no signs of wear! When these finally wear out, I'll be buying them again! Thanks @JRMturfProducts for the great product and service!



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	.395"	.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	8.15"/7"	12mm	.390"	.625"	.072"	
1FS625503	DILLENNIUM® 5/8" Fixed Mount Fairway Tine	8.40"/7.20"	12mm	.395"	.625"	.072"	
3FS625101	Premium 5/8" Fairway Replacement Tube	6"	12mm	.400"	.625"	.072"	
3FS625501	DILLENNIUM® 5/8" Fairway Replacement Tube	6"	12mm	.395"	.625"	.072"	
1FS750502	DILLENNIUM® 3/4" Fixed Mount Fairway Tine with Mustang® shank1	6.92"/5.75"	12mm	.480"	.750"	.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"	
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.							



3FS812500



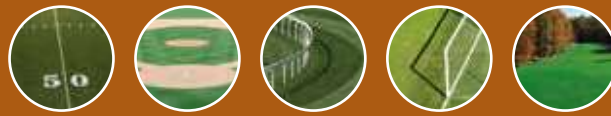
1FS100503

DILLENNIUM® Premium

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

1 For Mustang without core collector. Longer shanks are necessary when Core Collector is used, See Page 38 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 20 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 32), Soil Reliever® (page 33), and Wiedenmann® (page 35). The different lines are broken down separately in the catalog. Our deep solid tines are located on page 34. 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 33 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"	8mm	.250"	.440"	.060"	
1DT375501	DILLENNIUM® 3/8" fixed shank Deep Tine	6.20"/5.20"	8mm	.250"	.440"	.060"	
1DT375102	Premium 3/8" Deep Tine	6"/5"	12mm	.250"	.440"	.060"	
1DT500102	Premium 1/2" Deep Tine	5.625"/4.625"	12mm	.335"	.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	.440"	.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	.440"	.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"	
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	14.40"/12"	18mm	.812"	1.25"	.135"	
1DT125504	DILLENNIUM® 1 1/4" Deep Tine	14.72"/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.

DILLENNIUM® Premium

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

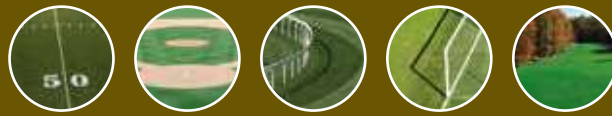
Please note: As a matter of convention in the turf industry, all deep tine shanks are made to metric standards. The mounting blocks used by deep tine machine manufacturers are made to these metric sizes. This is not true of "conventional" aerifiers since most of these machines are made in the United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

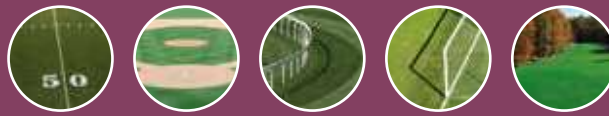


Replacement Tubes for Deep Tines

*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
2DT250101	Premium 1/4" Solid Deep Tine	11.75"/10"	.250"	.250"	
2DT312102	Premium 5/16" Solid Deep Tine	7.934"/6"	8mm	.3125"	
2DT312103	Premium 5/16" Solid Deep Tine	9.25"/8"	8mm	.3125"	
2DT312105	Premium 5/16" Solid Deep Tine	11.75"/10"	8mm	.3125"	
2DT312106	Premium 5/16" Solid Deep Tine	13.75"/12"	8mm	.3125"	
2DT375101	Premium 3/8" Solid Deep Tine	11"/9"	8mm	.375"	
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"	
2DT100103	Premium 1" Solid Deep Tine	18.7"/16"	24mm dimple	.945"	

Solid Bayonet™ Deep Tines

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

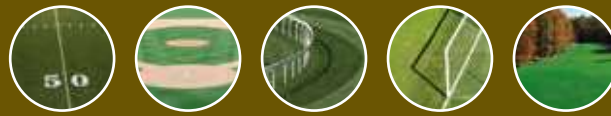
JRM's newest innovation in turf maintenance Solid DILLENNIUM Fairway Tines

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--allowing you to 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"	



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	.500"	.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	.500"	.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	.500"	.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	.500"	.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	.500"	.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	
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	
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®



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 from our DILLENNIUM® tine than from any other conventional aerification tine. 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 the inside back cover of this catalog, or go to our website at 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
336-764-8311 fax

By E-mail

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 placing an order 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 for a complete listing of our dealers.

Direct

Direct orders may be conveniently placed by:

- Visiting our website www.jrmonline.com
- By Email SALES@JRMONLINE.com
- Faxed orders may be sent to [336-764-8311](tel:336-764-8311)
- By Telephone during regular business hours 8:30 am-5:30 pm EST
 - o Toll free within the United States by dialing: [1-888-576-7007](tel:1-888-576-7007)
 - o From anywhere in the world to our direct sales line [336-354-1243](tel:336-354-1243)

When placing your order, please be sure to include all pertinent information such as your account number (if you have it available); ship-to address; bill-to address; name & contact number; quantity of items by part number.

Payments

A credit application must be completed by all new account holders. If you wish to set up a line of credit, then you are welcome to complete the entire application. If you would like to set up an immediate pay account, we accept major credit cards including VISA, Master Card, Discover and American Express.



JRM INC
 INNOVATIVE TURF TECHNOLOGY

8491 N. NC Hwy. 150
 Clemmons, NC 27012



JRM Quick Parts Reference

Bedknives:	Part #	Part #	Part #
Greens			
Fairways			
Tee Box, Fringe & Aprons			
JRM INFINITY® DURANIUM-24 Reels			

Tines:	Part #	Specs



www.jrmonline.com
 Email: sales@jrmonline.com
 USA Toll Free (888) 576-7007
 International (336) 354-1243
 Fax: (336) 764-8311

