

WORLDWIDE MANUFACTURER OF TURFGRASS MAINTENANCE PRODUCTS

EST. 1992

**BEDKNIVES | TINES | INFINITY® REELS
GRINDING WHEELS | MOWER BLADES**



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JRM, Inc. was founded by James R. Merritt, a former golf course superintendent who grew frustrated with the poor craftsmanship of aeration tines and bedknives. In the early 90s, aerating a golf course required replacing tines 5-6 times. Jim approached Toro® to develop a tine that could last an entire aeration, but they said it couldn't be done. Determined to find a solution, Jim began making tines in his garage, and in 1997, he introduced JRM's DILLENNIUM® carbide tip tines. These tines could aerate 18 greens—including practice areas—on a single set, revolutionizing the turfgrass maintenance industry. Today, with over 30 years of innovation, JRM is known for producing the highest-quality products trusted by superintendents worldwide.



James. R & Jenni Merritt
JRM, Inc. President/CEO

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

DURANIUM-801® Greensmower and Fairway Bedknives

The most durable bedknives in the market, manufactured entirely by JRM to ensure quality and precision. JRM has perfected several proprietary processes to create bedknives which hold a sharp edge longer, even in challenging soil and turf conditions, such as those with heavy sand top-dressing.

INFINITY® DURANIUM-24 Reels

JRM's fairway and greensmower reels are designed to maintain a sharp edge while being tough enough to handle impacts. The improved heat-treat process increases durability, setting JRM's reels apart in the industry.

INFINITY® Tines

Made from JRM's patented steel, INFINITY® tines are heat-treated to be up to 40% harder than standard steel tines. These tines deliver consistent performance, guaranteeing the same diameter and hole length from the first green to the 18th. Many users can aerate over 36 greens plus tee boxes with just one set.

INFINITY® Emperor Tines™

Engineered to remove the smallest cores with minimal disruption to gameplay, Emperor Tines™ effectively remove the top layer of thatch and improve water filtration on golf greens. When used correctly, a single set can aerate 36 to 48 greens, offering incredible durability and efficiency.

JRM Deburring Stone

JRM DURANIUM-801® bedknives are renowned for being ready to cut right out of the box. After aligning the bedknives to the bed bar, the JRM deburring stone comes into play. By coating the bed bar with WD-40® and hand-stoning the surface for about 30 seconds, you can remove high spots and dings, ensuring the flattest surface. This minimizes the need for grinding, extending the life of the bedknife.

JRM Vulcan Grinding Wheelz

The Vulcan Grinding Wheelz are compatible with all Foley®, Peerless® and Bernhard Anglemaster® bedknife grinders. Made from Cubic Boron Nitride (CBN), the second hardest abrasive next to diamond, these wheels are ideal for grinding harder steels like bedknives. CBN wheels provide a cooler grind, reducing the risk of thermal damage. The Vulcan Wheel can cut a Maintenance Tech's time grinding by half compared to standard Aluminum Oxide wheels.



Website / Pricelist
for Golfco®

Authorized distributor of:



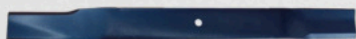
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Website

NEW PRODUCTS

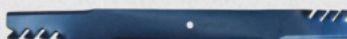
JRM Exclusive Mower Blades

- JRM Proprietary design for enhanced performance and durability.
- Hardened steel with an enhanced heat treat on the fins and cutting edge of all mulching blades.
- Improved design for more consistent cutting height and balanced to tight tolerances.

Machines	JRM Part #	OEM #	Oregon®#	Style	Length	Arbor	Width	Thickness
Toro® 3505-D, 3500-D, 4500-D, 4700-D	9TMB4500S	108-9026	94-052	Straight	26.75"	1/2"	2.5"	.255"
	9TMB4500M	107-0235	96-741	Mulching	26.75"	1/2"	3"	.225"
	9TMB4500UT	N/A	N/A	Ultra-thin	26.75"	1/2"	2.5"	.118"
Toro® 4300	9TMB4300M	114-0435	96-075	Mulching	22"	1/2"	3"	.255"
John Deere® 7400, 9009A	9DMB7400M	TCU27876	580820	Mulching	27"	.855"	3"	.255"
	9DMB7400S	TCU27401	580823	Straight	27"	.855"	2.5"	.255"



9TMB4500S



9TMB4500M



9TMB4300M



9DMB7400S



9DMB7400M

JRM Free-Spinning Blades | for Wessex®, Tri-max® and Progressive®

JRM Part #	Brand	Style	OEM #	Machines	Length	Width	Thickness
9WESBM	Wessex	Mulching	WX-11470	Wessex® CRX and RMX Mowers	7"	2.625"	.205"
9WESBS	Wessex	Straight	WX-11370	Wessex® CRX and RMX Mowers	7"	2.625"	.170"
9WESBOLT	Wessex	Bolt	WX-3039	Wessex® CRX and RMX Mowers			
9TMXS	Trimax Snake	Straight	411-160-842	Trimax® Snake S3 mowers	5.5"	.170"	2.25"
9TMXSBOLT	Trimax Snake	Bolt	411-322-050	Trimax® Snake S3 mowers			
9PTDRX	Progressive	Straight	526601	Progressive® TDR-X mowers	5"	.250"	.200"
9PTDRXBOLT	Progressive	Bolt	526866	Progressive® TDR-X mowers			

Wessex® Blades



9WESBM



9WESBS



9WESBOLT

Trimax® Snake Blades



9TMXS



9TMXSBOLT



JRM Backlapping Machine

- Superior electric motor that does not overheat.
- Forward and reverse directional switch
- Quietest unit on the market
- 2 stands for height adjustment

Part #	Description
7BLM100	Backlapping machine

Toro® Reels Kickstand

- Made for the Toro® 5" and 7" Fairway reels
- Specifically made for the Toro® fairway cutting units that have the pin and chain setup. The JRM kickstand allows you to *safely tilt the cutting unit for accessibility and visibility.*
- You can *work on rollers, check the height of cut, and the reel to bedknife contact* safely and easily.



Part #	Description	OEM #
5TSTAND	Kickstand for Toro® reels	110-4088

First Products® VC-40, VC-60, and VC-90 Verti-cutting Blades



- Features JRM's unique formula of high-carbon, high-alloy steel for hardness and durability.
- Making JRM DILLENNIUM® tips the strongest composition of carbide on the market.

JRM part #	Description	Diameter	Arbor	DILLENNIUM TIP
4VPVC60	Verti-cutting blade for VC-40, VC-60, VC-90	12"	1 5/8" hex	3mm

JRM Soil Probes

JRM Part #	Description	Length	I.D.	O.D.
9PROBEF	Soil probe for Greens, fairways and surrounds	21"	.625"	1"
9PROBEG	Soil probe for Greens	18"	.500"	.625"

Providing a quick way to check for soil compaction, moisture levels, and root growth without causing significant damage to the turf.



NEW PRODUCTS

BARONESS® BEDKNIVES, REELS AND ROTARY BLADES

JRM DURANIUM-801® Baroness® Replacement Bedknives & Screws

JRM Part #	OEM #	Description	Cutting-edge (height)	Grind Angles (top/front)	Holes	Length	Fits
4BB250103	K2511000270	Tournament-cut bedknife 3mm	.115" & above	8° & 90°	13	22"	Baroness® LM56GC, LH62, LS62, LM101, LM311, LM315GC, LM56GC, LM56GA
4BB250119	K2511000280	Smooth and True bedknife with Max Drag Clearance, 1.5mm	.080" & above	8° & 90°	13	22"	Baroness® LM56GC, LH62, LS62, LM101, LM311, LM315GC, LM56GC, LM56GA
4BB250221	K2511000280	High-cut bedknife for tee boxes, fringes and aprons, 4.5mm	.175" & above	8° & 90°	13	22"	Baroness® LM56GC, LH62, LS62, LM101, LM311, LM315GC, LM56GC, LM56GA
4SBB100		Fairway/Greensmower bedknife screws (Bag of 100) Diameter .245" / Screw Length .500" / Screw Head Diameter .450"					



4BB250103



4BB250119



4BB250221

JRM Baroness® Mower Blades

Baroness® mower blades coming soon! Arriving in January 2026!

JRM Part #	OEM #	Fits	Style	Length	Arbor	Thickness	Width
9BMB253S	K253000009B	Baroness® GM2800A, GM2800B, GM2810, GM2810A	Straight, high lift	27.17"	1.3"	.217"	2.56"
9BMB253M	K253000009B	Baroness® GM2800A, GM2800B, GM2810, GM2810A	Mulching	27.17"	1.3"	.217"	2.56"

JRM INFINITY® DURANIUM-24 Baroness® Reels

Baroness® mower blades coming soon! Arriving in January 2026!

JRM Part #	OEM #	Fits	Blades	Diameter	Length
5RBF092700	LM2700-0192Z0	Baroness® LH 22" cutting heads	9	7"	22"
5RBG11LM6	K28056101BR	Baroness® LM56GC; LH52 cutting heads	11	5"	22"

JRM PI Tape

- Important tool to measure roundness of your reels to avoid coning.
- Each PI Tape has a QR Code that links to use instructions, reel diameter conversion charts and more.

JRM Part #	Description
9PITAPE	JRM PI Tape - measures reel diameter



REDEXIM® AND WIEDENMANN® VERTI-CUTTING BLADES

Redexim® Scarifier Blades

JRM Part #	OEM #	Description	Diameter	Arbor	Tip	Machine
4VRG801	999G801	Redexim® Scarifier blade round	8.275"	1.1890"	2mm	Redexim® Verti-Core III 1600
4VRG805	999G805	Redexim® Scarifier blade round	8.275"	1.1890"	3mm	Redexim® Verti-Core III 1600
4VR2280	341.302.280	Redexim® Scarifier blade round	11.025"	1.6220"	2mm	Redexim® Verti-Core III 1600
4VR3280	341.303.280	Redexim® Scarifier blade round	11.025"	1.6220"	3mm	Redexim® Verti-Core III 1600



4VRG801



4VRG805



4VR2280



4VR3280

Redexim® Scarifier Hybrid Blades

JRM Part #	OEM #	Description	Length	Thickness	TIP	Arbor	Machine
4VR3110	353.303.110	Redexim® Scarifier Hybrid blade turf stripper	4.95"	.375"	13mm	1.181"	Redexim® Turf-Stripper 1600/2000
4VR3128	353.303.128	Redexim® Scarifier Hybrid blade turf stripper	5"	.1160"	3mm	1.181"	Redexim® Turf-Stripper 1200 fraise mower
4VR5128	353.305.128	Redexim® Scarifier Hybrid blade turf stripper	5"	.1160"	2mm	1.181"	Redexim® Turf-Stripper 1200 fraise mower
4VR3124	341.302.124	Redexim® Scarifier Hybrid blade turf stripper	4.8"	.0800"	2mm	.4330"	Redexim® Turf Tidy 2300/3000



4VR3100



4VR3128



4VR5128



4VR3124

Wiedenmann® Cutting Blades

Wiedenmann® cutting blade coming soon! Arriving in January 2026!

JRM part #	OEM #	Description	Diameter	Arbor	Tip	Machine
4WV375	1838220-01	Wiedenmann® carbide-tipped blade	8.23"	27mm (1.063")	2mm	Wiedenmann® Triple V 375 Tri-gang verti-cutter



4WV375

The New JRM Stimp Brush™ a huge advancement in 'Pre-Clip Conditioning'

In celebration of the 100th anniversary of the GCSAA, JRM, Inc. will introduce a true game changer to the golf course industry at the 2026 Conference in Orlando.



Demos are available, please reach out to your local JRM representative.



'Pre-Clip Conditioning'

Faster, Smoother and Truer Ball Roll

Stimp Brush™ Benefits:

- | | |
|--|---|
| <p>01 Speed & Cut Quality</p> <ul style="list-style-type: none">• Boosts green speed at higher HOC.• Truer, cleaner cut.• Eliminates groomer marks.• Consistent height-of-cut. | <p>02 Turf Health & Canopy</p> <ul style="list-style-type: none">• Clears old clippings.• Increases light penetration.• Improves spray efficacy.• Improves nesting of top-dressing materials. |
| <p>03 Customization & Durability</p> <ul style="list-style-type: none">• Maximum lifespan, non-corrosive.• Soft and Firm brush models for all turf types. | <p>04 Maintenance Efficiency</p> <ul style="list-style-type: none">• Quickly adjusts height.• Tool-less brush removal.• Extends reel life. |



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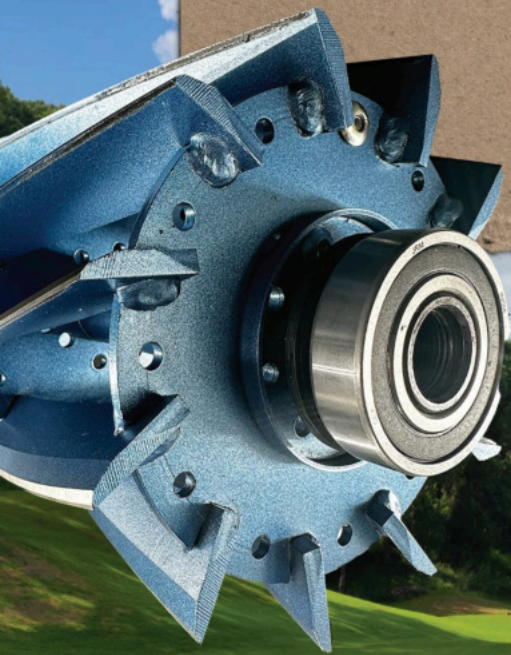
8491 North NC Highway 150 Clemmons, NC 27102

"I have four John Deere® 7700 fairway mowers. Last year, I rebuilt all 20 of the cutting units with JRM reels and bearing kits. The quality of the JRM products is second to none. The JRM reels and knives retain their edge well. This winter, I plan on rebuilding the cutting units on three John Deere® triplex greensmowers and 11 John Deere® walking greensmowers."

Ray Jaramillo,



Equipment Manager
at Diablo Country
Club in Diablo Ca.

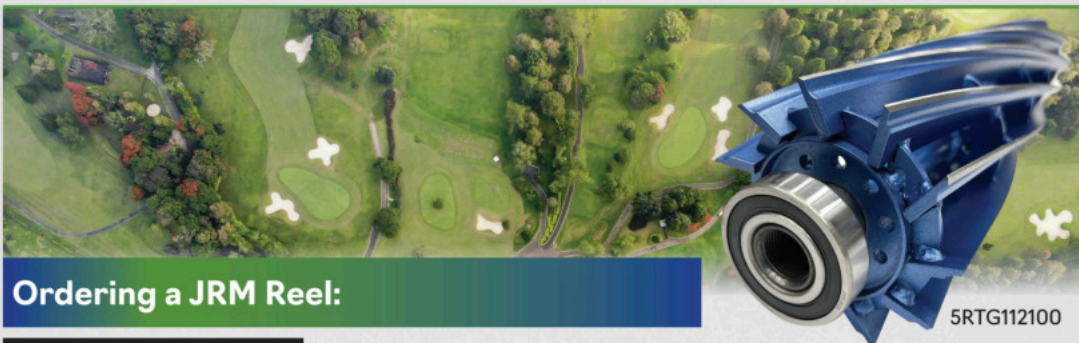


JRM INFINITY® DURANIUM-24 REELS

Created with strengthened welds & blade profile including pre-ground relief.
Balanced at the highest standard.

**Made with DURANIUM-24 steel
and YOU in mind.**

JRM INFINITY® DURANIUM-24 REELS



Ordering a JRM Reel:

For Toro® Machines:

Very important to verify the 5-digit cutting unit model number that is stamped on all Toro® cutting units. You can cross reference the cutting unit model numbers on Page 11 of the 2026 JRM parts catalog.

For John Deere® Machines:

All JRM reels are made for the Quick Adjust (QA5 and QA7) cutting units. Most John Deere® cutting units come with the "QA" units no matter the age of the mower. The Quick Adjust reels are designed to easily adjust the bedknife to reel contact on each cutting unit.

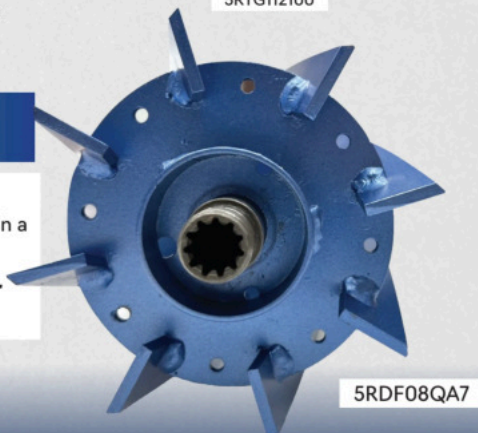
For Jacobsen® Machines:

Simply verify the OEM part number to select the correct reel. Currently, JRM only carries 22" reels for Jacobsen®. We are researching 18" and 26" options for Jacobsen®.



What makes a JRM INFINITY® DURANIUM-24 reel stand out from the competition?

- JRM reel blades are **made with a unique non-standard high-carbon, high-alloy steel** that is designed to maintain a sharp edge longer than the competition.
- JRM reels are balanced to **tighter tolerances than OEM.**
- Welds are strengthened for **longer reel life.**



"JRM REELS are great quality and even better performance. They hold an edge better and longer than the OEM and I would recommend JRM's for your next replacement reel."



Isaac Keziah, Eagle Chase
GC, Marshville, NC.

Toro® INFINITY® DURANIUM-24 REELS

Toro® INFINITY® DURANIUM-24 Greensmower Reels

Part #	OEM Part #	Reel Diam.	Length	Blades	Fits Toro® Mowers	Bearing Kit
5RTG112100	119-4104/127-2201/ 137-8512	5"	21"	11	Toro® Flex/e-Flex 1021, e-021, 2100, 2120, Greensmaster 3000, 3100, 3200, 3300, 3400 Series DPA cutting units (2012 & newer)	5RT1BK
Cutting unit model numbers: 04832, 04251, 04833, 04290, 04252, 04834, 04292, 04613, 04618, 04651, 04652, 04614, 04619, 04653, 04654, 04615, 04624, 04655, 04656						
5RTG142100	119-4105/127-2202/ 137-8513	5"	21"	14	Toro® Flex/e-Flex 1021, e-021, 2100, 2120 Greensmaster 3000, 3100, 3200, 3300, 3400 Series DPA cutting units (2012 & newer)	5RT1BK
Cutting unit model numbers: 04832, 04251, 04833, 04290, 04252, 04834, 04292, 04613, 04618, 04651, 04652, 04614, 04619, 04653, 04654, 04615, 04624, 04655, 04656						
5RTG113250	105-5792/127-2194/ 137-8496	5"	21"	11	Toro® Greensmaster 3000, 3100, 3200 series DPA cutting units (2011 & older)	5RT4BK
Cutting unit model numbers: 04610, 04611, 04616 (Reel will not fit 300, 400 or 500 series cutting units 2011 & older)						
5RTG111000	93-6097/127-2182/ 132-7313	5"	21"	11	Toro® 1000, 1010, 2000 Integral Cutting Units	5RT3BK
Cutting unit model numbers: 04055, 04034, 04036, 04052, 04038						

Toro® INFINITY® DURANIUM-24 Tee Boxes, Aprons, Surrounds and Fringes Reel

Part #	OEM Part #	Reel Diam.	Length	Blades	Fits Toro® Mowers	Bearing Kit
5RTG082100	127-2200/ 130-0120/ 137-8511	5"	21"	8	Toro® Flex/e-Flex 1021, e-021, 2100, 2120, Greensmaster 3000, 3100, 3200, 3300, 3400 Series DPA cutting Units (2012 & newer)	5RT1BK
Cutting unit model numbers: 04832, 04251, 04833, 04290, 04252, 04834, 04292, 04613, 04618, 04651, 04652, 04614, 04619, 04653, 04654, 04615, 04624, 04655, 04656						

Toro® INFINITY® DURANIUM-24 Fairway Reels

Part #	Style	OEM Part #	Reel Diam.	Length	Blades	Fits Toro® Mower	Bearing Kit
5RTF085210	Forward-swept	108-9071/127-2065/ 137-8416/ 137-8422	5"	22"	8	Toro® 5210D, 5410D DPA cutting units (red side plates)	5RT2BK
Cutting unit model numbers: 03661, 03694, 03695							
5RTF115210	Forward-swept	127-2066/ 133-8203/ 137-8417/ 137-8423	5"	22"	11	Toro® 5210D, 5410D DPA cutting units (red side plates)	5RT2BK
Cutting unit model numbers: 03661, 03694, 03695							
5RTF113555	Forward-swept	105-5792/127-2194/ 137-8496	5"	22"	11	Toro® 3550 (rear only), 3555, 5010-H, 5410 Low-drag DPA cutting units (Aluminum side plates)	5RT1BK
Cutting unit model numbers: 03913, 03482, 03634, 03487, 03621, 03483, 03635, 03488, 03623, 03489, 03624							
5RTF113575	Forward-swept	131-6801/ 137-8447	7"	22"	11	Toro® 3575, 5010-H, 5510, 5610 Low-drag DPA cutting units (Aluminum side plates)	5RT1BK
Cutting unit model numbers: 03638, 03639, 03641, 03643							
5RTF085510	Radial	108-9073/127-2084/ 137-8432/ 137-8438	7"	22"	8	Toro® 5510D, 5610D, 6500D, 6700D DPA cutting units	5RT2BK
Cutting unit model numbers: 03681, 03863, 03696, 03698, 03864, 03682, 03697, 03699, 03693							
5RTF115610	Radial	108-9074/127-2085/ 137-8433/ 137-8439	7"	22"	11	Toro® 5510D, 5610D, 6500D, 6700D DPA cutting units	5RT2BK
Cutting unit model numbers: 03681, 03863, 03696, 03698, 03864, 03682, 03697, 03699, 03693							
5RTF145610	Forward-swept	JRM EXCLUSIVE	7"	22"	14	Toro® 5510D, 5610D, 6500D, 6700D DPA cutting units	5RT2BK
Cutting unit model numbers: 03681, 03863, 03696, 03698, 03864, 03682, 03697, 03699, 03693							

* Reel blade relief grind angle for all reels: 30° +/- 10°

* Relief grinding required when land width is greater than .100" (2.5 mm)

* Maximum allowed taper on all reels is .010" (.2 mm)

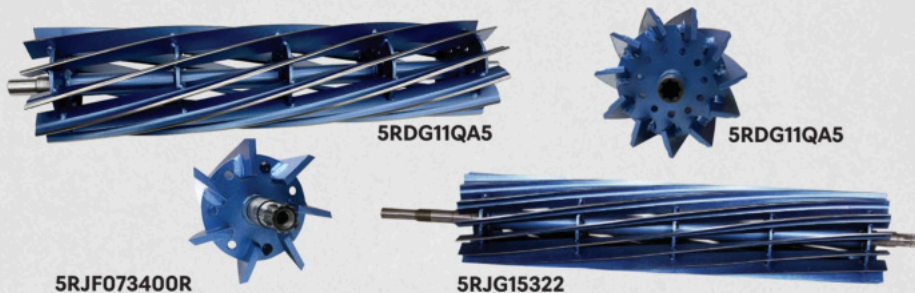
REELS MUST BE RETURNED IN ORIGINAL BOX ON
ALL RETURNS. SEE JRM RETURN POLICY ON PAGE 57.

John Deere® & Jacobsen® INFINITY® DURANIUM-24 REELS

REELS MUST BE RETURNED IN ORIGINAL BOX ON ALL RETURNS. SEE JRM RETURN POLICY ON PAGE 57.

John Deere® INFINITY® DURANIUM-24 Reels

Part #	OEM Part #	Reel Diam.	Length	Blades	Fits John Deere® Mower	Bearing Kit
5RDG11QA5	TCA19351	5"	22"	11	John Deere® 2500 B/E, 7500/A, 7500 E-cut, 8500, 2700 E-cut, 2550 E-cut, 2750 E-cut, 6500A, 6500A E-cut	5RJD1BK
5RDG14QA5	TCA23621	5"	22"	14	John Deere® 2500 B/E, 7500/A, 7500 E-cut, 8500, 2700 E-cut, 2550 E-cut, 2750 E-cut, 6500A, 6500A E-cut	5RJD1BK
5RDF078500	TCA19350	5"	22"	7	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	5RJD1BK
5RDF08QA7	TCA19353	7"	22"	8	John Deere® 6700A, 7700, 7700A, 8700, 8700A	5RJD2BK
5RDF108700	TCA19354	7"	22"	10	John Deere® 6700A, 7700, 7700A, 8700, 8700A	5RJD2BK



Jacobsen® INFINITY® DURANIUM-24 Reels

Part #	OEM Part #	Reel Dia.	Length	Blades	Fits Jacobsen® Mowers	Bearing Kit
5RJG15322	4225505	5"	22"	15	Jacobsen® Eclipse 122, Eclipse 122F, E-Plex, E-Plex II, GP400, GK IV/IV+ (left), G-Plex III, Eclipse 322	5RJAC1BK
5RJG11322	5001101, 5000028, 506636	5"	22"	11	Jacobsen® Eclipse 122, Eclipse 122F, E-Plex, E-Plex II, GP400, GK IV/IV+ (left), G-Plex III, Eclipse 322	5RJAC1BK
5RJG11GK4	5001102, 5000029, 506635	5"	22"	11	Jacobsen® E-Plex, E-Plex II, GK IV, GK IV Plus, GK V, GK VI	5RJAC1BK
5RJF073400R	5003054, 5003064, 5001096, 503320	5"	22"	7	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	5RJAC1BK
5RJF073400L	5003053, 5001095, 503319	5"	22"	7	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	5RJAC1BK

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

JRM PI Tape

- Important tool to measure roundness of your reels to avoid coning.
- Each PI Tape has a QR Code that links to use instructions, reel diameter conversion charts and more.

JRM Part #	Description
9PITAPE	JRM PI Tape - measures reel diameter

Toro® Bearing Kits

Photo	Part #	Fits Toro® Machines
	5RT1BK	5RTG112100, 5RTG142100, 5RTG082100, 5RTF113575, 5RTF113555
	5RT2BK	5RTF085210, 5RTF115210, 5RTF115610, 5RTF085510, 5RTF145610
	5RT3BK	5RTG111000
	5RT4BK	5RTG113250

John Deere® Bearing Kits

Photo	Part #	Fits John Deere® Machines
	5RJD1BK	5RDG11QA5 5RDG14QA5 5RDF078500
	5RJD2BK	5RDF08QA7 5RDF108700

Jacobsen® Bearing Kits

Photo	Part #	Fits Jacobsen® Machines
	5RJAC1BK	5RJG15322, 5RJG11322, 5RJG11GK4, 5RJF073400L, 5RJF073400R

Toro® Spline Couplings and Spline Driver Tools for Fairway Reels

Part #	Description	OEM #	Machines
5RTF8SPMD	Toro® 8-spline male adapter tool	TOR 4112	Toro® 5210 and 5410 DPA Cutting Units
5RTF-8SPL-C-R	Toro® 8-spline left-hand coupler	105-8076	Toro® 5210 and 5410 DPA Cutting Units
5RTF-8SPL-C-L	Toro® 8-spline right-hand coupler	105-8075	Toro® 5210 and 5410 DPA Cutting Units
5RTF9SPMD	Toro® 9-spline male adapter tool	TOR 4074	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units
5RTF-9SPL-BC-L	Toro® 9-spline left-hand coupler	107-3276	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units
5RTF-9SPL-BC-R	Toro® 9-spline right-hand coupler	107-3275	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units
5RTF-9SPL-C-L (Gold)	Toro® 9-spline left-hand coupler for brush kits	127-7111	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units
5RTF-9SPL-C-R (Gold)	Toro® 9-spline right-hand coupler for brush kits	127-7109	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units
5RTF-9SPL-GC-L (extended)	Toro® 9-spline left-handed extended grooming kit coupler	108-4238	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units
5RTF-9SPL-GC-R (extended)	Toro® 9-spline right-handed extended grooming kit coupler	108-4237	Toro® 5510, 5610, 6500, 6700 DPA Cutting Units

JRM'S SMOOTH & TRUE LOW PROFILE DURANIUM-801® BEDKNIFE



JRM'S NEWEST CREATION PROVIDES UNMATCHED LOW-CUT PERFORMANCE WITH SUPERIOR AFTER-CUT APPEARANCE.

- Made to fit standard 22" bed bars for Toro®, Jacobsen® and John Deere® greensmowers
- Designed the same as JRM's top selling "Ultra-Cut" max drag clearance bedknife
- Perfectly suited for all turf grasses including Paspalum, Bermuda, Bent, and Poa Annua
- The Smooth and True bedknife allows for extremely low mowing performance approaching .080"
- JRM manufactures all bedknives at its Winston-Salem, NC facility to control quality, performance and consistency



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JRM DURANIUM-801® BEDKNIVES LINEUP

LOW-CUT GREENS (.135" & ABOVE)

4BT250102



4BD250102



4BJ250102



TOURNAMENT-CUT (.115" & ABOVE)

4BT250104



4BD250103



4BJ250103



MICRO-CUT/SUPER TOURNAMENT (.098" & ABOVE)

4BT250105



4BJ250104



4BD250104



HIGH-CUT BEDKNIVES (.175" & ABOVE)

4BT250222



4BD250221



4BJ250221



ULTRA-CUT BEDKNIVES

4BT250108



4BD250109



4BJ250109



SMOOTH AND TRUE BEDKNIVES

4BT250119



4BD250119



4BJ250119



EXTENDED-CUT BEDKNIVES

4BT250107



4BD250114



4BJ250111



FAIRWAY BEDKNIVES

4BT264203



4BD273201



4BJ248201



ELITE SUPER-THIN BEDKNIVES

4JPB22



4TPB22



JRM DURANIUM-801® Bedknife Info

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.

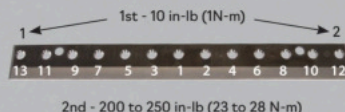
Recommended factory tolerances

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)

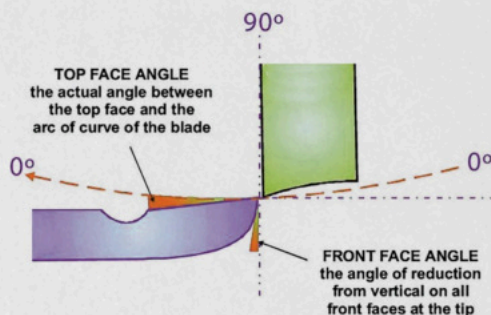
N-m = Newton Metre



Bedknife Grind Angles

The top-face and front-face angles listed in the book for DURANIUM-801® bedknives are present on the bedknives out of the box. The bedknives will cut at those specs, but maintenance technicians can adjust those angles according to their preferences and needs without losing life on the bedknife.

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-face angle can also be used to adjust your bedknife to reel contact. The front-face angle is important for allowing the reel to present the grass to the bedknife to be cut.



JRM DURANIUM-801® Bedknives: A cut above the rest!

- DURANIUM-801® bedknives are the most durable bedknife on the market.
- JRM bedknives are designed to hold an edge longer, cut paper longer and grind less.
- DURANIUM-801® steel is perfectly suited to the different golf course grasses and holds an edge longer in all conditions, including top-dressing.
- Consistency: All JRM bedknives are QC inspected within a .004" margin creating straightness from edge to edge to minimize any pre-grinding set up.
- DURANIUM-801® bedknives are ready to cut grass out of the box at the grind angles listed in the catalog.
- Highest carbon content on the market.
- High manganese content and high boron for bonding.

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

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

SELECTING THE CORRECT GREENSMOWER BEDKNIFE:

JRM Standard Bedknives

A standard bedknife is recommended for courses with no scalping, bruising and/or scuffing issues. Select according to your desired cutting height.



These bedknives will not cut lower than the minimum cutting-edge height listed.

Standard low-cut: .135" & above

Tournament-cut: .115" & above

Micro-cut/Super Tournament: .098" & above

High-cut: .175" & above

Smooth and True low-profile bedknives

- Cuts as low as .080" & above.
- Designed similar to a JRM Ultra-cut bedknife for maximum drag clearance.
- Flexible bedknife for all turfgrass surfaces, including bermuda, paspalum, bent and poa.



4BD250119

Ultra-cut bedknives

- JRM maximum drag clearance bedknife.
- The bottom-face angles are cut back to the screw hole.
- This helps minimize dragging on the golf course greens.
- Flexibility to cut as low as .090" with the bottom face angles shaved down. This is dependent on the condition of your cutting units, bed bar and reels.



4BD250109

Elite Super-thin bedknives

- The thinnest bedknife on the market cutting as low as .050".
- Not recommended for everyday use.
- Designed for the cleanest, lowest cut for big tournaments and events.
- Zero-degree deck height minimizes the capacity to grind these bedknives.
- Many customers hand face these bedknives to keep them polished and sharp.



4TPB22

Extended-cut bedkives

- 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.



4BT250107

Toro® Greensmower Bedknives

Toro® DURANIUM-801® Standard Greensmower Bedknives

Part No.	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	Toro® Mower
4BT250102 (Toro® 93-4264)	Standard Low-Cut bedknife	.135" & above	5° & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
4BT250104 (Toro® 93-4263/115-1881)	Tournament bedknife	.115" & above	5° & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
4BT250105 (Toro® 93-4262/115-1880)	Micro-cut bedknife	.098" & above	5° & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
4BT250106 (Toro® 98-7261/117-1530)	Micro-cut bedknife	.098" & above	5° & 15°	11	18.25"	GM 800 Integral Cutting Unit, Flex 18, eFlex1800/1820, GR 1018
4BT250101 (Toro® 94-6395)	Standard Low-Cut bedknife	.135" & above	5° & 15°	7	21.25"	Greensmaster 3000 Series 4-bolt cutting units
4BT250103 (Toro® 94-6394)	Tournament bedknife	.115" & above	5° & 15°	7	21.25"	Greensmaster 3000 Series 4-bolt cutting units
4BT250109 JRM Exclusive	Micro-cut bedknife	.098" & above	5° & 15°	7	21.25"	Greensmaster 3000 Series 4-bolt cutting units
4BT244216 (Toro® 94-5885/117-1548)	Tournament bedknife	.115" & above	3° & 13°	16	26"	GM 1600, 1610, 2600 Integral Cutting Unit
4BT244218 (Toro® 112-9275/139-4324)	Micro-cut bedknife	.098" & above	3° & 13°	16	26"	GM 1600, 1610, 2600 Integral Cutting Unit

Toro® DURANIUM-801® Specialty Greensmower Bedknives

Part No.	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	Toro® Mower
Extended-Cut Bedknives						
4BT250107 (Toro® 108-4303)	Extended-cut micro-cut bedknife	.098" & above	5 & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
4BT250110 (Toro® 110-2300)	Extended-cut micro-cut bedknife	.098" & above	5 & 15°	11	18.25"	GM 800 Integral Cutting Unit, Flex 18, eFlex1800/1820, GR 1018
Ultra-Cut Bedknives						
4BT250108 JRM Exclusive	Ultra-cut bedknife with Max. Drag Clearance/Reduced Bruising	.098" & above	5 & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
Smooth & True Bedknives						
4BT250119 JRM Exclusive	Smooth & true low-profile bedknife	.080" & above	5 & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
Elite Super-Thin Bedknives						
4TPB18 JRM Exclusive	Elite Super-thin cut bedknife	.050" & above	0 & 90°	11	18.25"	GM800, Flex 18/1800, eFlex1800/1820
4TPB22 JRM Exclusive	Elite Super-thin cut bedknife	.050" & above	0 & 90°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series

Toro® Screws and Socket Driver Tool



4TGFBD

Part No.	JRM Description
4STB100	Fairway/Greensmower bedknife screws (Bag of 100 Screws) - Diameter .245" / Screw Length .500" / Screw Head Diameter .450"
4TGFBD	Socket Driver Tool for Greens and Fairway Screws

Toro® Fairway Bedknives

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

Part No.	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	Toro® Mower
4BT250221 (Toro® 94-6396)	High-cut bedknife	.175" & above	5 & 15°	7	21.25"	Greensmaster 3000 Series
4BT250222 (Toro® 94-6392)	High-cut bedknife	.175" & above	5 & 15°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
4BT244215 (Toro® 93-9015)	Low-cut bedknife	.200" & above	3 & 13°	16	26"	GM 1600, 1610, 2600 Integral Cutting Unit
4BT264205 (Toro® 147-1244/137-6093)	Low-cut bedknife	.200" & above	5 & 6°	8	22.19	3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA Cutting Unit
4BT264209 (Toro® 147-1243/119-4280)	Extended-cut Low-cut bedknife	.200" & above	10 & 10°	8	22.19	3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA Cutting Unit

Toro® DURANIUM-801® Fairway Replacement Bedknives

Part No.	JRM Description	Cutting-edge Height	Grind Angles Top Face/Front Face	Holes	Length	Toro® Mower
4BT238211 (Toro® 121-3167/137-6090)	Low-cut bedknife	.250" & above	10 & 5°	6	18"	Reelmaster 3550 Edge Series DPA Cutting Units
4BT265204 (Toro® 137-6097/137-6092)	Standard-cut bedknife	.250" & above	3 & 13°	7	21.25"	5200, 5300, 5400 4-bolt cutting units
4BT243201 (Toro® 93-9774)	Low-cut bedknife	.250" & above	3.83 & 30°	8	22.19"	3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA Cutting Units
4BT243210 (Toro® 94-8936)	Extended-cut Low-cut bedknife	.250" & above	10 & 30°	8	22.19"	3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA Cutting Units
4BT248206 (Toro® 63-8600)	Standard-cut bedknife	.250" & above	3 & 6°	13	21.25"	GM 1000, 1010, 2000, Flex 21/e-flex 2100/2120, 1021, 3000, 3100, 3200, 3300, 3400 series
4BT244213 (Toro® 105-6785/ 104-9388/37-6095)	Low-cut bedknife	.260" & above	10 & 5°	10	27"	RM 3100/7000 Edge Series DPA Cutting Units
4BT244217 (Toro® 104-2646)	High-cut bedknife	.280" & above	3 & 13°	16	26"	GM 1600, 1610, 2600 Integral Cutting Unit
4BT264203 (Toro® 108-9096/ 147-1245/137-6094)	Standard-cut bedknife	.285" & above	3.33 & 6°	8	22.19"	3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA
4BT243202 (Toro® 104-1810)	High-cut bedknife	.335" & above	3 & 11°	8	22.19"	RM 5500D, 6500D, 6700D SPA
4BT243207 (Toro® 110-4074)	Heavy-Duty bedknife	.350" & above	5 & 6°	8	22.19"	3550, 3555, 3575, 5010-H, 5210, 5410, 5510, 5610, 6500, 6700 DPA Cutting Units
4BT220212 (Toro® 104-1380/114-9390)	Heavy-Duty bedknife	.360" & above	10 & 5°	10	27"	RM 3100/7000 Edge Series DPA Cutting Units
4BT248214 (Toro® 107-8181)	Heavy-Duty bedknife	.360" & above	3 & 13°	16	26"	GM 1600, 1610, 2600 Integral Cutting Unit

Toro® Screws and Socket Driver Tool

Part No.	JRM Description
4STB100	Fairway/Greensmower bedknife screws (Bag of 100 Screws) - Diameter .245" / Screw Length .500" / Screw Head Diameter .450"
4TGFBD	Socket Driver Tool for Greens and Fairway Screws

Socket Driver Tool

To complement its quality line of DURANIUM-801® Greensmower and Fairway bedknives, JRM, Inc. offers 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.



Jacobsen® DURANIUM-801® Greensmower Bedknives

Part No.	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	Jacobsen® Mower
4BJ250102 (Jacobsen® #503478)	Standard low-cut bedknife	.135" & above	8 & 90	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
4BJ250103 (Jacobsen® #503479)	Tournament bedknife	.115" & above	8 & 90	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
4BJ250104 (Jacobsen® #5002887)	Super Tournament bedknife	.098" & above	5 & 90	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
4BJ250105 (Jacobsen® #5002888)	Super Tournament bedknife	.098" & above	5 & 90	11	18.25"	GK518, Eclipse 118/118F
4BJ250106 (Jacobsen® #2810984)	Super Tournament bedknife	.098" & above	5 & 90	11	19.35"	PGM 19

4BJ250104



4BJ250105

Jacobsen® Specialty Greensmower Bedknives

Part No.	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	Jacobsen® Mower
Ultra-cut Bedknives						
4BJ250109 (Jacobsen® #4234900)	Ultra-cut bedknife with Max. Drag Clearance	.098" & above	5 & 90°	13	22"	Eclipse 122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
4BJ250110 (Jacobsen® #4234901)	Ultra-cut bedknife with Max. Drag Clearance	.098" & above	5 & 90°	11	18.25"	GK518, Eclipse 118/118F
Smooth & True Bedknives						
4BJ250119 JRM Exclusive	Smooth and True low-profile bedknife	.080" & above	5 & 90°	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
Extended-cut Bedknives						
4BJ250111 (Jacobsen® #5002887)	Extended-Cut Super Tournament bedknife	.098" & above	5 & 90°	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
Elite Super-Thin Bedknives						
4JPB18 JRM Exclusive	Elite Super-thin cut bedknife	.050" & above	0 & 90°	11	18.25"	GK518, Eclipse 118/118F
4JPB22 JRM Exclusive	Elite Super-thin cut bedknife	.050" & above	0 & 90°	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
High-cut Bedknives						
4BJ250221 (Jacobsen® #503477)	High-cut bedknife	.175" & above	8 & 90°	13	22"	Eclipse122/122F, GK522, PGM22, E-Walk, Eclipse 322, GP400, G-Plex III, GK IV, V, VI, TC22
4BJ250222 (Jacobsen® #4118902)	High-cut bedknife	.175" & above	8 & 90°	11	18.25"	SLF1880, GK518, Eclipse 118
Fairway Bedknives						
4BJ248201 (Jacobsen® #503460)	Standard-cut fairway bedknife	.360" & above	5 & 90°	13	22"	GKV, GKVI, LF128, LF135/550/570, LF3400, LF3800, LF4675, LF4677
4BJ248202 (Jacobsen® #503479)	Low-cut fairway bedknife	.320" & above	5 & 90°	13	22"	Eclipse 322, G-Plex III, GP400, LF550, LF3400, LF4675
4BJ248203 (Jacobsen® #4118902)	Low-cut fairway bedknife	.320" & above	5 & 90°	11	18.25"	LF1880

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

Jacobsen® Screws and Socket Driver Tool



Part No.	JRM Description	Screw Measurements
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® Screws	4SJB100

John Deere® DURANIUM-801® Greensmower Bedknives

Part #	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	John Deere® Machine
4BD250102 (JD® ET17533)	Extended-Cut Standard low-Cut bedknife	.135" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut
4BD250103 (JD® ET17534, UC18869)	Extended-Cut Tournament bedknife	.115" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut
4BD250304 (JD® #ET4869/UC19154)	Standard Super Tournament bedknife	.098" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut
4BD250104 (JD® ET4869, UC19154)	Extended-Cut Super Tournament bedknife	.098" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut
4BD250114 (JD® #ET4869/UC19154)	Super Extended-Cut Super Tournament bedknife	.098" & above	5 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut
4BD250108 (JD® MT4846, MT7350, TCU36878)	Extended-Cut Tournament bedknife	.115" & above	8 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5
4BD250305 (JD® MT6944)	Standard Super Tournament bedknife	.098" & above	8 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5
4BD250105 (JD® MT6944)	Extended-Cut Tournament bedknife	.098" & above	8 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5
4BD250115 (JD® MT6944)	Super Extended-Cut Super Tournament bedknife	.098" & above	5 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5
4BD248209 (JD® MT6947)	Extended-Cut Standard low-Cut bedknife	.135" & above	15 & 6°	15	26"	JD260 B, C, SL
4BD248210 (JD® TCU31428)	Extended-Cut Tournament bedknife	.115" & above	15 & 6°	15	26"	JD260 B, C, SL

John Deere® DURANIUM-801® Specialty Greensmower Bedknives

Part #	JRM Description	Cutting-edge height	Grind Angles Top/Front	Holes	Length	John Deere® Mower	JRM Screw
Smooth & True Bedknives							
4BD250119 (MT73351, ET11066, UC28163)	Smooth and True low-profile bedknife	.080" & above	8 & 90°	13	21.25"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut	4SDB100
Extended-cut Bedknives							
4BD250109 (JD® MT7351)	Extended-Cut Ultra-Cut bedknife with Maximum Drag Clearance	.098" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut	4SDB100
4BD250111 (JD® TCU36165)	Super Extended-Cut Ultra-Cut bedknife with Maximum Drag Clearance	.098" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut	4SDB100
4BD250110 (JD® MT7350)	Extended-Cut Ultra-Cut bedknife with Maximum Drag Clearance	.098" & above	5 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5	4SDB100
Elite Super-Thin Bedknives							
4JDPB18 (JRM EXCLUSIVE)	Elite Super-Thin bedknife	.050" & above	0 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5, JD8000 E-cut	4SDB100
4JDPB22 (JRM EXCLUSIVE)	Elite Super-Thin bedknife	.050" & above	0 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut	4SDB100
High-cut Bedknives							
4BD250221 (JD® ET17532, UC28156)	High-cut bedknife	.175" & above	8 & 90°	13	22"	JD220A/B/C/SL 22" QA5, JD2443, JD2500, JD2700, JD2750 E-Cut	4SDB100
4BD250222 (JD® TCU25299, TCU31422, UC18867)	High-cut bedknife	.175" & above	8 & 90°	11	18.13"	JD180A/B/C/SL WGM 18" QA5, JD8000 E-cut	4SDB100
Fairway Bedknives							
4BD248208 (JD® MT6946)	High-cut bedknife	.180" & above	15 & 6°	15	26"	JD 260 B, C, SL	4SDB100
*4BD273201 (JD® ET17751)	Heavy-Duty bedknife	.360" & above	5 & 6°	9	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade	4SDF100
*4BD273203 (JD® MT1928)	Standard bedknife	.240" & above	5 & 6°	9	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade, 3215A, 3235A, 3225C	4SDF100
*4BD273204 (JD® MT3983, TCU32581)	Low-Cut bedknife	.180" & above	5 & 6°	9	22.63"	JD 7700, 8700 22" QA7 8 and 10 blade 3215A, 3235A, 3225C	4SDF100
4BD273202 (JD® ET17767)	Standard bedknife	.270" & above	5 & 6°	13	22.63"	JD 220A, 220B, 2500A/B/E, 3215A, 3235A, 3225C, 7500, 8500	4SDB100
4BD273205 (ET17767)	Extended-Cut bedknife	.270" & above	5 & 6°	13	22.63"	JD 220A, 220B, 2500A/B/E, 3215A, 3235A, 3225C, 7500, 8500	4SDB100
*4BD273206 (JD® ET17752, MT6949, TCU34070)	Standard bedknife	.360" & above	5 & 6°	10	26.75"	JD2653, 7200/A, 8900A, QA7	4SDF100

* Fairway nuts and screws are required for the following bedknives: 4BD273201, 4BD273203, 4BD273204, 4BD273206.

Part #	JRM Description	Screw Measurements
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
4SDF100	John Deere® Allen Head bedknife screws-Bag of 100 Course-threaded 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"

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

Testimonials

JRM products have been great for us at Baltusrol Golf Club. Their bedknives are the best I've used in 33 years as a Turf Equipment Technician"

- Carmen Tino, Equipment Manager
at Baltusrol GC in Springfield, NJ.

Matt Schnettler @DowsPlayGound · Jun 21

Just wanted to share this, so far after 27 tees (top dressed first) these JRM tines still have a point. Unbelievable, I would have had to change toros out 3 times by now.

#Sold! @JRMturfProducts



"When I needed a custom bedknife to solve a design flaw problem with a mower, JRM came through for me while the mower manufacturer let me down. JRM earned my loyalty and I've been a satisfied customer ever since."

Roland McPhearson, Almaden
G&CC in San Jose, CA

"I have been an Equipment Manager for almost 30 years and have used JRM tines and bedknives nearly exclusively for the past 15 years. The quality of their products and customer service are the best in the business. I strive for perfection daily, and the dependability of JRM products allows me to focus on the machinery used to maintain our three golf courses without having to worry about some of the most crucial parts that I order on a consistent basis."

Mike Elliott, Head Equipment Manager,
The Union League of Philadelphia.

190S Turf @1908Turf · Jun 10

Busy and productive week for our team. Last core aerification on greens before the summer; 10 tines per block (5- 1/2" coring; 5- 1/4" solid) and 3" depth. Have to give a big 🙌 to @JRMturfProducts new Imperial Tip Infinity Dillennium tines. Now all we need is some ☀️!



I use JRM exclusively for all my tines, reels, and bedknives. They are far more superior than the OEM's products that I've used in the past."

Brian Harper at Pendleton
GC in Ruther Glen, VA.

"I've been using JRM Bedknives for over 18+ yrs. I used to be a stickler for OEMs when it came to cutting units with the exception of these bedknives. Definitely would recommend!"

- Hector Velazquez
Hector's Shop,
GSCAA Content Creator



"JRM bedkives are by far the best we've ever used. They are the truest and longest lasting bedknives on the market, which in turn saves us money and time. We run them on our greens, tees and fairways! The maximum drag clearance design has eliminated all drag issues even when we mow at low summer heights!"

Keith Beaudin at Country Club
of Columbus in Columbus, GA



Quality Parts Meet Quality Care

JRM, Inc. makes the highest quality DURANIUM-801® bedknives and INFINITY® DURANIUM-24 reels. JRM has several products to complement these lines and keep the bedknives and reels sharper, longer.



VULCAN GRINDING WHEELZ

- The Cubic Boron Nitride grinding surface is the second hardest abrasive next to diamond. Perfectly suited for harder steels like bedknives.
- The CBN surface is known for its cool grinding characteristics eliminating any possible thermal damage.
- Vulcan Grinding Wheelz can cut an individual's grind time in half.



JRM DEBURRING STONE

- Hand stone designed to remove the burrs, high spots and dings from the bedbar and bedknife mating surfaces.
- A true bedbar equals less pre-grind work and backlapping on bedknives.



JRM REEL SHARP

- JRM Reel Sharp lapping compound is made with a virgin silicon carbide grit and pharmaceutical grade water soluble polymer known for maintaining its mixture.
- JRM offers 6 grits. The lower grit numbers (50, 80, 100) are designed for fairways, rough and tee box applications. The higher grits numbers (120, 180, 220) are used for greens.

JRM Cutting Edge Papers

- The papers are the perfect weight to test the sharpness of greensmower and fairway reels and bedknives.
- Recommendation: use one single strip to test the sharpness for greensmower setups; and fold the strip in half to double the paper thickness for fairway setups.



Reel Sharp Lapping Compound

Part No.	JRM Description	Size
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
Reel-Sharp-80 2#	80-grit premium lapping compound	2 lb. pail
Reel-Sharp-120 2#	120-grit premium lapping compound	2 lb. pail



Recommended grit per application

Rough units – that are primarily ground driven and height of cut ranges from 1.25" to 2.25".

- Start with a 50 or 80 grit compound and lap until even.
- Repeat process for reels finishing with a 120 grit for smoothness.

Tees and Fairways units:

- Start by using an 80 or 120-grit compound, then follow up with a 180-grit compound to finish.
- Routine back lapping of these units is done every 2-3 weeks using 180 grit to maintain a sharp edge.

Greens units:

- Recommended to start with a 120-grit compound and finish with a 180 or 220-grit compound.
- Greens reels are typically lapped weekly to maintain a sharp cutting edge throughout the season.
- Courses that top dress regularly-a grit like 180 is recommended.
- A 220-grit is recommended for courses looking to polish up a knife for over the weekend use.
- Courses cutting below .110 during the busy season, 220-grit is recommended to maintain a sharp edge to avoid wearing out the thinner bedknives required for the lower heights of cut.

JRM Backlapping Machine

- Superior electric motor that does not overheat.
- Forward and reverse directional switch
- Quietest unit on the market
- 2 stands for height adjustment

Part #	Description
7BLM100	Backlapping machine



Vulcan Grinding Wheelz and Deburring Stone

JRM Vulcan Grinding Wheelz

Vulcan Grinding Wheelz feature the premium performance of Cubic Boron Nitride (CBN), an advanced abrasive second only to diamond.

The **CBN grinding surface** is the second hardest abrasive, surpassed only by diamond.

This exceptional hardness makes it perfectly suited for difficult-to-grind materials, such as hardened steel bedknives.

- **50% Faster Grinding:** Dramatically cut your labor time.
- **Stays Cool:** Eliminates thermal damage to the bedknife.
- **Ultimate Performance:** Superior hardness ensures maximum material removal and quality finish.

9GW600135



Part No.	JRM Description	Diameter	Depth	Arbor	Machines
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.

Bedknife and Bedbar Deburring Stone

Achieving a clean, true bedknife surface with your deburring stone is the essential first step for any precision grinding job.

Part No.	JRM Description	Diameter	Thickness
4BSTONE	2-sided deburring stone--thick rough/smooth finish side	4"	1.5"



4BSTONE

Optimizing Your Bedknife and Bedbar Surface

Follow these steps to ensure a flawless, ready-to-grind surface and maximum contact with your new bedknife:

- **Prep the Bedbar** - Thoroughly clean all excess dirt and debris from the bedbar surface using your preferred tool.
- **Lubricate** - Apply a liberal coating of WD-40® or similar lubricant to both the bedbar and the deburring stone.
- **Remove Imperfections** - Use the hand-held deburring stone to remove high spots and dings from the bedbar surface.
- **True the Mating Surface** - Stone the bedknife's mating surface to ensure the flattest, most precise surface possible.
- **The Result** - A true, optimized surface combined with a precision JRM DURANIUM-801® bedknife dramatically reduces pre-grind setup time.

JRM Cutting Edge Paper

Our specially weighted test paper is engineered with the perfect weight and thickness providing a reliable method for instantly verifying the quality of your grind.

Fairway Setup:

For the heavier demands of fairway equipment, fold the strip in half to double the thickness, providing the appropriate resistance for a proper sharpness test.

Greensmower Setup:

Use one single strip of paper to confirm the precise sharpness required for greensmower setups.

Part No.	Description	Size
5CP250101	Pack of 5 Cutting Edge Papers	250 sheets



Why **GOLFCO**[®] **INTERNATIONAL** ?

- Competition Rollers are designed to fit all: Toro[®], Jacobsen[®], John Deere[®], Ventac[®], Ransomes[®], Baroness[®], True-Surface[®], Tru-Turf[®] greens rolling machines, SISIS[®] & many more.
- GOLFCO[®] offers unique roller designs to help minimize wash boarding, reel overlap, non-striping and non-shadowing lines.
- Grooved and smooth rollers promote consistent cut appearance.
- Polyurethane cast over heavy-duty steel tubing is more durable than standard metallic rollers.
- Polyurethane is extremely abrasion resistant and will help minimize debris accumulation.
- Shock absorbing- less fatigue on operator.
- Universal overhaul bearing kits easy and fast to rebuild.
- Will not cause damage to cart paths; vice-versa.
- Lasting durability from quality components.
- Lowest heat/cold conductivity from urethane body.
- Reduces transmigration of harmful bacteria/fungi.
- Quiet operation--reduces mower noise.
- Minimizes turf temperature stress.
- Over 90% of orders ship the same day.
- Trusted by top championship golf courses.



Website / Pricelist
for Golfco[®]



COMPETITION ROLLERS MAKE THE DIFFERENCE



Contact the JRM Customer Service Department (888-576-7007) for an updated Golfco[®] Price list.

OREGON®

MOWER BLADES OFFER: *Superior Mulching*



Superior Bagging



Superior Side Discharge



***A longer-lasting cutting edge compared
to OEMs on the market***

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)**

MOWER BLADES

Offering:

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

Oregon® Mower Blades for Toro® | John Deere®

Toro® Mower Blades

Machines	Part No.	OEM No.	Style	Style	Length	Arbor	Width	Thickness
Toro® 3500D/3505D/4500D/4700D	94-052	105-9810/108-9026	Standard	OEM	27"	1/2"	2.5"	.250"
	96-741	104-5183	Mulching	G3	27"	1/2"	2.5"	.250"
Toro® 4100D (3 for 62" cut/ 7 for 11" 4000D)	94-045	92-5608	Standard	OEM	21 11/16"	1/2"	2.5"	.250"
	96-708	107-0241	Mulching	G3	21 11/16"	1/2"	2.5"	.250"
Toro® 455D, 4100D (7 to a set)	94-043	106-7166/86-0010	Standard	OEM	19"	1/2"	2.50"	.250"
	96-701	107-0210/107-0215/ 08-1451	Mulching	G3	19"	1/2"	2.50"	.250"
Toro® 4300D	9TMB4300M Oregon # 96-075	114-0435	Mulching	G6	22"	1/2"	3"	.255"
	94-075	108-7395	Standard	OEM	22"	1/2"	2.5"	.250"
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"
Toro® 72" cut, High Lift, turbo force deck	92-035	105-7784/105-7711/ 105-7712, 105-7719/ 105-7778	Standard	OEM	24 1/2"	5/8"	3"	.250"
Toro® (3) for 48" cut, high lift, turbo force deck	92-036	107-3192	Standard	OEM	16 1/2"	5/8"	2.5"	.250"
Toro® (3) for 54" cut, mulching, titan MX5400, MX5480, ZX5400, ZX5420, ZX5450	94-060	115-9650-03	Mulching	G3	18 3/4"	5/8"	2.25"	.164"

John Deere® Mower Blades

Machines	Part No.	OEM No.	Style	Style	Length	Arbor	Width	Thickness
John Deere® 7400, 9009	9DMB7400M	TCU27876	Mulching	G6	27"	7/8"	3"	.250"
	9DMB7400S	TCU27401	Standard	OEM	27"	7/8"	2.5"	.250"
John Deere® 8800, 3245 Series	584621	GC0344	Standard	OEM	20 5/8"	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"
	792-113	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® Gator Mulching Blade for 1400, 1500, and 1600 Series	396-710	TCU51118/M144935	Mulching	G6	21 7/8"	7/8"	3"	.250"
	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"
	396-769	M135334	Mulching	G3	19"	7/8"	3"	.250"
John Deere® 1435 7 Iron Deck; 72" Cut 1400/1500 Series Mowers 1400/1500 Series Mowers with V Flex Deck 777 Ztrak, 797 Ztrak, 997 Ztrak	396-743	EPC201693/M141669	Mulching	G6	25"	7/8"	3"	.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.

JRM Exclusive Mower Blades

Machines	JRM Part #	OEM #	Oregon ®#	Style	Length	Arbor	Width	Thickness
Toro® 3500-D, 3505-D, 4500-D, 4700-D	9TMB4500S	108-9026	94-052	Straight	26.75"	1/2"	2.5"	.255"
	9TMB4500M	107-0235	96-741	Mulching	26.75"	1/2"	3"	.225"
	9TMB4500UT	N/A	N/A	Ultra-thin	26.75"	1/2"	2.5"	.118"
Toro® 4300	9TMB4300M	114-0435	96-075	Mulching	22"	1/2"	3"	.255"
John Deere® 7400, 9009A	9DMB7400M	TCU27876	580820	Mulching	27"	.855"	3"	.255"
	9DMB7400S	TCU27401	580823	Straight	27"	.855"	2.5"	.255"

9DMB7400S



9TMB4500M

Jacobsen® Mower Blades

Machines	Part No.	OEM No.	Style	Style	Length	Arbor	Width	Thickness
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"
Jacobsen® 60" Cut Gator G6 Mower Blades	396-702	112243-03, 112111-03	Mulching	G6	21"	5/8"	3"	.250"
Jacobsen® Bobcat® 21" Heavy Duty	793-008	11211-03	Standard	OEM	21"	5/8"	2.5"	.250"
Jacobsen® Turfcut (3 for 60" Cut) / HR9016 Turbo 11 (60" Cut)	92-013	3007759	Standard	OEM	20 13/16"	1/2"	2.5"	.250"

LASTEC® Mower Blades

Machines	Part No.	OEM No.	Style	Style	Length	Arbor	Width	Thickness
LASTEC® 61" cut 2261, 2661, 2861, 2961, and EF100 Series	793-008	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"

Kubota® Mower Blades

Machines	Part No.	OEM No.	Style	Style	Length	Arbor	Width	Thickness
Kubota® Gator G6	396-787	K5945-34360	Mulching	G6	25"	5/8"	2.5"	.250"
Kubota® 60" cut	92-130	K5645-97520, K5645-34330, K5645-34340	Standard	OEM	20 1/2"	5/8"	2.5"	.250"
Kubota® (3 for 2" Cut), RC72 Deck used on B2150D, F2560, F3060	91-493	70000-25002, 70000-25013, 76553-34330, K5676-97520	Standard	OEM	24 1/2"	1 1/8"	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.

Terms to Know

There are two critical measurements necessary to selecting the correct tine total length and mounting diameter.

Total Length is important, if you choose a tine that is too long you can 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.

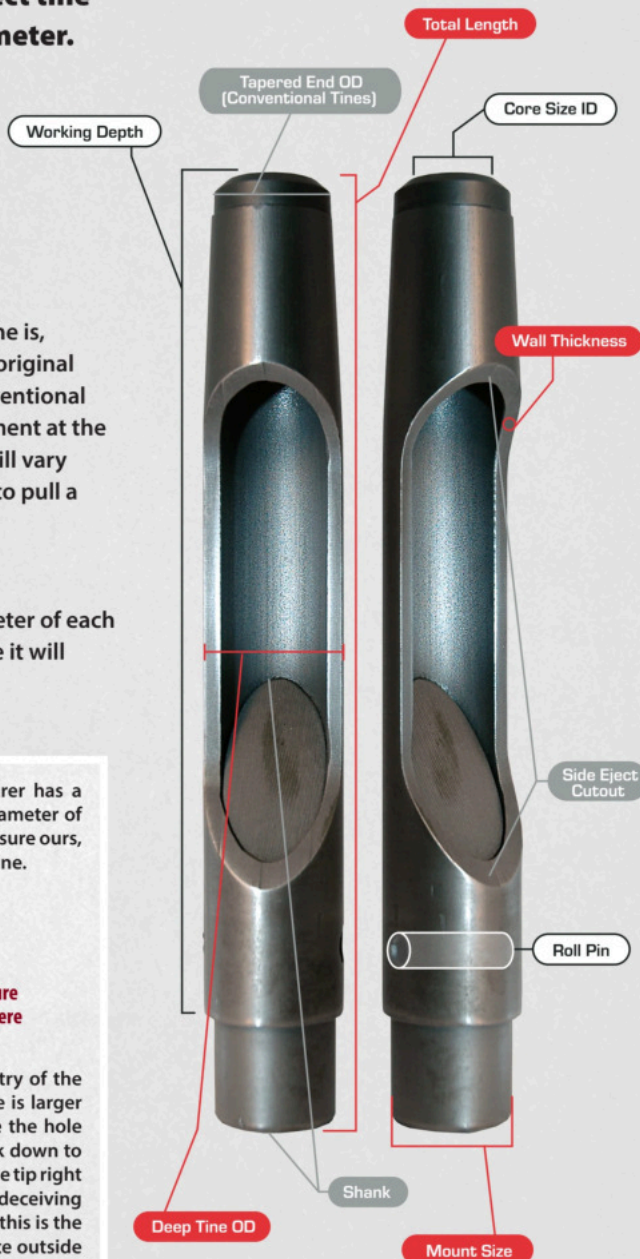
The **ID (inside diameter)** is the cutting measurement that will result in the diameter of each core. Carefully consider the tine's ID, since it will determine the diameter of each core.

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.

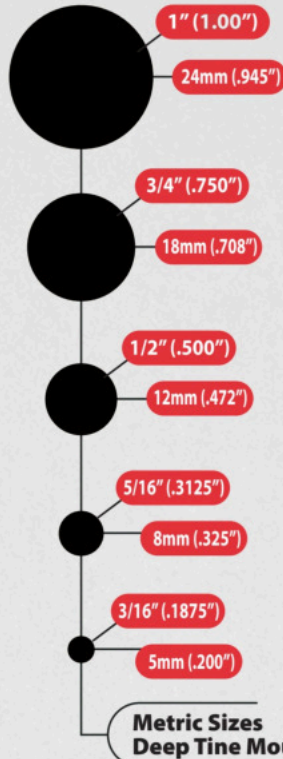
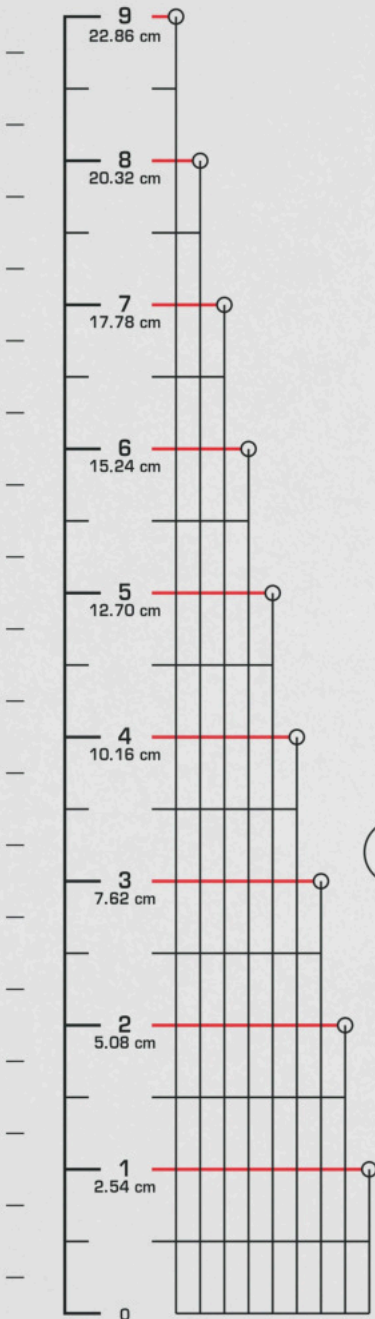


Measure
O.D. Here

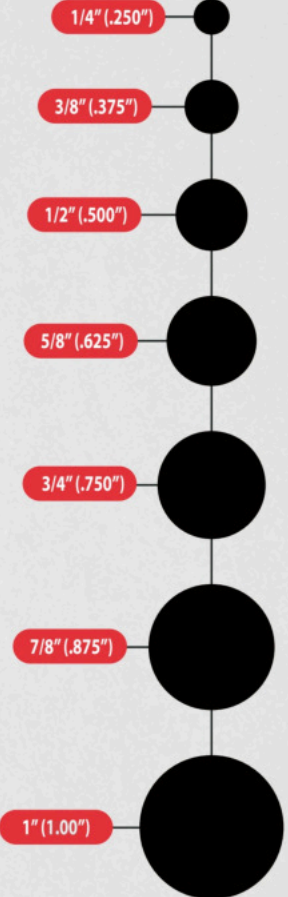
We determine our OD based on the initial entry of the tine into the soil. Although the OD of the tine is larger toward the mount, and that width may make the hole larger initially, the hole will always shrink back down to the size of initial entry. We measure our OD at the tip right after we cut the 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.



Tine Measurement

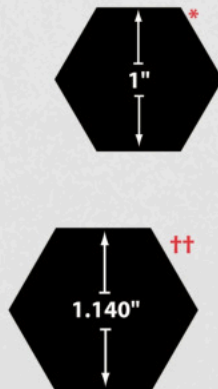


U.S. Standard Sizes

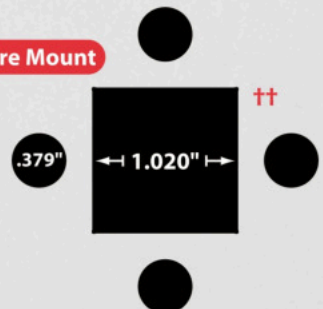


Graden® & Ryan® Mataway blades*
DILLENNIUM® Vortex VERTI® blades††

Hex Mounts



Square Mount



MOUNTING DIAMETER OPTIONS FOR POPULAR MACHINES

** Please consult your machine manual before choosing a 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.

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.

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.

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	x				
John Deere® 1000	7"				x	x				
John Deere® 1500	7"				x	x				
John Deere® 2000	7"				x	x				
Ryan® GA-24	4.5"	x	x	x	x					
Ryan® GA-30/60	5.5"	x	x	x	x	x				
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 GX/ XF/ XD/ XP	10"						(Dimple)	(Dimple)	(Conical screw)	
Wiedenmann® Greens Terra Spike	10"						(Dimple)	(Dimple)	(Conical screw)	

THE TINE LINE UP

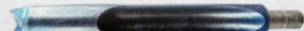
IMPERIAL TIP® INFINITY TINE® Carbide Tips + Hardened



1S202580



1QT256583



1QT506583

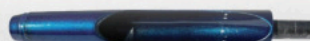
DILLENNIUM® INFINITY TINE® Carbide Tips + Hardened



1DS625581



1QT375581



1DS625585

Premium INFINITY TINE® Hardened



1DS625181



1QT375181



1QT625185

DILLENNIUM® Carbide Tips



1DS625501



1QT375511



1QT625505

Premium High Quality - High Alloy Steel



1DS625101



1QT375111



1DS625105



INNOVATIVE TURF TECHNOLOGY

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sales@jrmonline.com

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LEARN ABOUT OUR TINE LINEUP

GET TO KNOW YOUR TINES

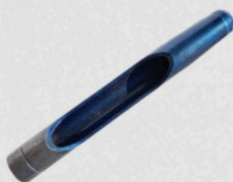
When deciding whether to purchase a DILLENNIUM® tine or a Premium tine one should consider the soil quality and makeup. Since a DILLENNIUM® tine will outlast a Premium tine by a factor of three or four, the choice should be clear. However, if you are likely to encounter excessive rocks or other foreign 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.

IMPERIAL TIP® INFINITY TINES®



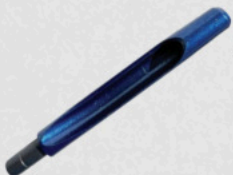
- JRM offers 9 aerification tines with the trademarked IMPERIAL TIP®.
- The IMPERIAL TIP® is designed to cut a cleaner hole and pull more material during aerification.
- JRM's best selling Emperor Tines™ feature the IMPERIAL TIP®.

DILLENNIUM® INFINITY TINES®



- DILLENNIUM® INFINITY TINES® features the highest alloy, highest-carbon steel on the market.
- INFINITY TINES® steel can be heat treated up to 40% harder compared to standard coring tine steel for increased longevity.
- INFINITY TINES® steel protects the body underneath the tip and the inside taper of the tine to pull cores longer.
- DILLENNIUM® is JRM's extra-strength composition of carbide on its tips.
- Longevity: up to 36 holes and more on USGA spec greens
- Consistent hole depth and length from holes 1 to 18.

Premium INFINITY TINES®



- Same design as the DILLENNIUM® without the carbide tip.
- INFINITY TINE® steel can be heat treated up to 40% harder compared to standard coring tine steel for increased longevity.
- INFINITY TINES® steel protects the body underneath the tip and the inside taper of the tine to pull cores longer.
- Longevity: up to 18 holes and more on USGA spec greens

DILLENNIUM® INFINITY TINES®



- DILLENNIUM® is JRM's extra-strength composition of carbide on its tips.
- DILLENNIUM® tip combined with standard 4140 steel.
- Tine will continue to pull cores until the body underneath the tip wears out.
- Longevity: up to 18 holes and more on USGA spec greens.
- Consistent hole depth and length from holes 1 to 18.

Premium INFINITY TINES®



- Made from standard 4140 steel with no tip.
- Longevity: 9-12 holes on USGA spec greens.
- Will lose length and diameter throughout aerification.

SEE WWW.JRMONLINE.COM FOR PRICING

8491 North NC Highway 150 Clemmons, NC 27012
Toll free (888) 576-7007 International 336-354-1243

JRM UNIVERSITY
INNOVATIVE TURF TECHNOLOGY

MATERIAL DISPLACEMENT CHART



JRM Tines pull a better core, more material and last longer!

Material Displacement chart			
Tine Diameter	Spacing (inches)	# Holes per Sq Ft	% Surface Area
Emperor Tine™ (1S157586)			
.173"	1x1	144	2.35%
.173"	1x2	72	1.17%
.173"	2x2	36	0.60%
Emperor Tine™ (1S202580)			
.202"	1x1	144	3.20%
.202"	1x2	72	1.60%
.202"	2x2	36	0.80%
Conventional coring and Quad Tines			
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%
5/8"	2x2	36	7.67%

JRM INFINITY TINES®

The INFINITY TINE® blue line is engineered for durability and reduced replacement costs.

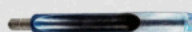
- Ultimate Hardness:** Uses a hardened, high-carbon steel that's heat treated 40% stronger than standard steel without becoming brittle.
- Solid Tines:** Lasts 2 to 3 times longer and maintains a consistent Outside Diameter and length from the first hole to the last.
- Coring Tines:** Extended protection on the body ensures the tine continues to pull a quality core longer than any competitor.



1QT250583



1QT375581

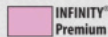


1QT506583



1QT625584

3/8" Mount INFINITY® Quad Tines



Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1S157180	Micro INFINITY® Emperor side-eject tine	4.45"	3/8"	.173"	.287"	.040"
1S157586	Micro INFINITY® IMPERIAL TIP® Emperor side-eject tine	4.45"	3/8"	.173"	.287"	.040"
1S202180	INFINITY® Emperor Tine™ side-eject tine	4.45"	3/8"	.202"	.315"	.040"
1S202580	INFINITY® IMPERIAL TIP® Emperor side-eject tine	4.45"	3/8"	.202"	.315"	.040"
1QT250183	1/4" INFINITY® Premium Standard Quad tine (with Toro® Shank)	5"	3/8"	.250"	.385"	.065"
1QT250583	1/4" INFINITY® DILLENNIUM® Standard Quad tine (with Toro® Shank)	5.125"	3/8"	.250"	.385"	.065"
1QT256583	1/4" INFINITY® IMPERIAL TIP® Standard Quad side-eject tine	5.125"	3/8"	.250"	.440"	.065"
1Q375585	3/8" INFINITY® DILLENNIUM® Super Quad tine	4.625"	3/8"	.325"	.500"	.072"
1QT375181	3/8" INFINITY® Premium Super Quad tine	5"	3/8"	.335"	.485"	.072"
1QT375581	3/8" DILLENNIUM® Super Quad INFINITY TINE® (with Toro® Shank)	5.125"	3/8"	.325"	.500"	.065"
1QT500183	3/8" INFINITY® Premium Magnum Quad tine	5.5"	3/8"	.400"	.550"	.072"
1QT500583	1/2" INFINITY® DILLENNIUM® Magnum Quad tine (with Toro® Shank)	5.625"	3/8"	.400"	.580"	.072"
1QT506583	1/2" INFINITY® IMPERIAL TIP® Magnum Quad tine (with Toro® Shank)	5.5"	3/8"	.400"	.580"	.072"
1QT625184	5/8" INFINITY® Premium Magnum Quad Plus tine (with Toro® Shank)	5.625"	3/8"	.500"	.630"	.063"
1QT625584	5/8" INFINITY® DILLENNIUM® Magnum Quad Plus tine (with Toro® Shank)	5.5"	3/8"	.510"	.665"	.063"
1QT625185	5/8" INFINITY® Premium Magnum Quad Plus tine (with Toro® Shank)	6"	3/8"	.500"	.630"	.063"
1QT625585	5/8" INFINITY® DILLENNIUM® Magnum Quad Plus tine (with Toro® Shank)	6.125"	3/8"	.510"	.665"	.063"

3/4" Mount INFINITY® Coring Tines

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1TS375581	3/8" INFINITY® DILLENNIUM® side-eject tine	5.25"	3/4"	.270"	.425"	.072"
1DS500185	1/2" INFINITY® Premium side-eject tine	6"	3/4"	.400"	.570"	.072"
1DS500585	1/2" INFINITY® DILLENNIUM® side-eject tine	6.25"	3/4"	.400"	.580"	.072"
1DS625181	5/8" INFINITY® Premium side-eject tine	5.5"	3/4"	.490"	.645"	.072"
1DS625581	5/8" INFINITY® DILLENNIUM® side-eject tine	5.75"	3/4"	.480"	.640"	.072"
1DS625185	5/8" INFINITY® Premium side-eject tine	6"	3/4"	.490"	.645"	.072"
1DS625585	5/8" INFINITY® DILLENNIUM® side-eject tine	6.25"	3/4"	.480"	.640"	.072"



1TS375581



1DS625181

INFINITY® Solid Tines

Part #	JRM Description	Length	Mount Dia.	O.D.
2T125183	1/8" INFINITY® Solid tine	4.5"	3/8"	.200"
2T125184	1/8" INFINITY® Solid tine	6"	3/8"	.200"
2T250186	1/4" INFINITY® Solid tine	5"	3/8"	.250"
2T250187	1/4" INFINITY® Solid tine	6.125"	3/8"	.250"
2T250189	1/4" INFINITY® Solid tine	6.5"	3/8"	.250"
2D375184	3/8" INFINITY® Solid tine	5"	3/8"	.375"
2D375186	3/8" INFINITY® Solid tine	6"	3/8"	.375"
2T500183	1/2" INFINITY® Solid tine	6"	3/8"	.500"
2T625184	5/8" INFINITY® Solid tine	6"	3/8"	.625"
2R250186	1/4" INFINITY® Solid tine	5"	3/4"	.250"
2T250188	1/4" INFINITY® Solid tine	6.5"	3/4"	.250"
2T375183	3/8" INFINITY® Solid tine	6"	3/4"	.375"
2T500182	1/2" INFINITY® Solid tine	5"	3/4"	.500"
2T500184	1/2" INFINITY® Solid tine	7"	3/4"	.500"
2D625182	5/8" INFINITY® Solid tine	7"	3/4"	.625"
2D750182	3/4" INFINITY® Solid tine	7"	3/4"	.750"

INFINITY® Bayonet™ Tines

Part #	JRM Description	Length	Mount Dia.	Blade Width	Thickness
2BT750837	3/4" rib INFINITY® Bayonet™ tine (with Toro® Shank)	6"	3/8"	.750"	.190"
2B750827	3/4" rib INFINITY® Bayonet™ tine	7"	3/8"	.750"	.190"
2B750813	3/4" rib INFINITY® Bayonet™ tine	4.75"	3/4"	.750"	.190"
2B750823	3/4" rib INFINITY® Bayonet™ tine	7"	3/4"	.750"	.190"

2D375184



2T500182



2BT750837

2B750823

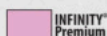


JRM INFINITY® Emperor Tines™

Emperor Tine™ use specifications:

- Designed to remove the top layer of thatch and improve water filtration.
- Maximum depth is 1 to 1 1/2". If using a Toro® ProCore 648, typically setting C or D.
- Set Machine speed on the Toro® Procore 648 at 2.5 or 3.0. When set at 3.0, the tines enter the turf every 3 inches.
- The small plugs can be easily blown off with a backpack blower, then a quick roll, and the greens are back in playable condition.

JRM INFINITY® Emperor Tines™



Part #	JRM Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall
1S157180	Micro INFINITY® Emperor Tine™ Side-Eject	4.45"	3/8"	.173"	.287"	.040"
1S157586	Micro INFINITY® IMPERIAL TIP® Emperor Tine™ Side-Eject	4.45"	3/8"	.173"	.287"	.040"
1S202180	INFINITY® Emperor Tine™ Side-Eject	4.45"	3/8"	.202"	.315"	.040"
1S202580	INFINITY® IMPERIAL TIP® Emperor Tine™ Side-Eject	4.45"	3/8"	.202"	.315"	.040"

1S157586



1S202580



JRM INFINITY® Imperial Tip® Quad tine

Part #	Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall
1QT256583	INFINITY® IMPERIAL TIP® Standard Quad Side-Eject	5.125"	3/8"	.250"	.385"	.065"

1QT256583



1QT506583



1QT506501



JRM 1/2" INFINITY® Imperial Tip® 1/2" Quad & Coring tines

Part #	Description	Length	Mount Diameter	I.D.	Tapered O.D.	Wall
1TS506501	IMPERIAL TIP® Conventional Coring Tine Side-Eject	5"	3/4"	.400"	.580"	.072"
1DS506501	IMPERIAL TIP® Conventional Coring Tine Side-Eject	5.75"	3/4"	.400"	.580"	.072"
1QT506501	IMPERIAL TIP® Magnum Quad Tine Side-Eject	4.625"	3/8"	.400"	.580"	.072"
1QT506503	IMPERIAL TIP® Magnum Quad Tine Side-Eject	5.625"	3/8"	.400"	.580"	.072"
1QT506583	INFINITY® IMPERIAL TIP® Magnum Quad Tine Side-Eject	5.625"	3/8"	.400"	.580"	.072"

*There are no depth and speed restrictions with JRM's 1/4" and 1/2" INFINITY® IMPERIAL TIP® Quad and Coring tines.

3/8" MOUNT QUAD TINES | STANDARD QUAD | SUPER QUAD

Standard Quad Tines

Premium

DILLENNIUM®

INFINITY® Premium

INFINITY® DILLENNIUM®

IMPERIAL TIP®

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1QT250101	1/4" Premium Standard Quad Tine (with Toro® Shank)	3.5"	3/8"	.250"	.385"	.065"
1QT250501	1/4" DILLENNIUM® Standard Quad Tine (with Toro® Shank)	3.625"	3/8"	.250"	.370"	.065"
1QT250105	1/4" Premium Standard Quad Tine (with Toro® Shank)	4.5"	3/8"	.250"	.385"	.065"
1QT250505	1/4" DILLENNIUM® Standard Quad Tine (with Toro® Shank)	4.625"	3/8"	.250"	.370"	.065"
1Q250105	1/4" Premium Standard Quad Tine	4.5"	3/8"	.250"	.385"	.065"
1Q250505	1/4" DILLENNIUM® Standard Quad Tine	4.625"	3/8"	.250"	.370"	.065"
1QT250103	1/4" Premium Standard Quad Tine (with Toro® Shank)	5"	3/8"	.250"	.385"	.065"
1QT250503	1/4" DILLENNIUM® Standard Quad Tine (with Toro® Shank)	5.125"	3/8"	.250"	.370"	.065"
1QT250183	1/4" INFINITY® Premium Standard Quad tine (with Toro® Shank)	5"	3/8"	.250"	.385"	.065"
1QT250583	1/4" INFINITY® DILLENNIUM® Standard Quad tine (with Toro® Shank)	5.125"	3/8"	.250"	.370"	.065"
1QT256583	1/4" INFINITY® IMPERIAL TIP® Standard Quad tine (with Toro® Shank)	5.125"	3/8"	.250"	.370"	.065"
1Q250103	1/4" Premium Standard Quad Tine	5"	3/8"	.250"	.385"	.065"
1Q250503	1/4" DILLENNIUM® Standard Quad Tine	5.125"	3/8"	.250"	.370"	.065"
1QT250109	1/4" Premium Standard Quad Tine (with Toro® Shank)	6"	3/8"	.250"	.385"	.065"
1QT250509	1/4" DILLENNIUM® Standard Quad Tine (with Toro® Shank)	6.125"	3/8"	.250"	.370"	.065"



1QT250105



1QT250583

Super Quad Tines

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1QT375100	3/8" Premium Super Quad Tine (with Toro® Shank)	3.5"	3/8"	.335"	.485"	.072"
1QT375500	3/8" DILLENNIUM® Super Quad Tine (with Toro® Shank)	3.625"	3/8"	.325"	.500"	.072"
1QT375105	3/8" Premium Super Quad Tine (with Toro® Shank)	4.5"	3/8"	.335"	.485"	.072"
1QT375505	3/8" DILLENNIUM® Super Quad Tine (with Toro® Shank)	4.625"	3/8"	.325"	.500"	.072"
1Q375105	3/8" Premium Super Quad Tine	4.5"	3/8"	.335"	.485"	.072"
1Q375505	3/8" DILLENNIUM® Super Quad Tine	4.625"	3/8"	.325"	.500"	.072"
1Q375585	3/8" INFINITY® DILLENNIUM® Super Quad tine	4.625"	3/8"	.325"	.500"	.072"
1QT375111	3/8" Premium Super Quad Tine (with Toro® Shank)	5"	3/8"	.335"	.485"	.072"
1QT375511	3/8" DILLENNIUM® Super Quad Tine (with Toro® Shank)	5.125"	3/8"	.325"	.500"	.072"
1QT375181	3/8" INFINITY® Premium Super Quad tine (with Toro® Shank)	5"	3/8"	.335"	.485"	.072"
1QT375581	3/8" INFINITY® DILLENNIUM® Super Quad tine (with Toro® Shank)	5.125"	3/8"	.325"	.500"	.072"
1Q375111	3/8" Premium Super Quad Tine	5"	3/8"	.335"	.485"	.072"
1Q375511	3/8" DILLENNIUM® Super Quad Tine	5.125"	3/8"	.325"	.500"	.072"
1QT375113	3/8" Premium Super Quad Tine (with Toro® Shank)	6"	3/8"	.335"	.485"	.072"
1QT375513	3/8" DILLENNIUM® Super Quad Tine (with Toro® Shank)	6.125"	3/8"	.325"	.500"	.072"

Tines were designed for use on Greens. Warranty void for use on Tee Boxes and Fairways.
All "QT" parts have a shortened shank designed for the Toro® Procore® 648 aerifier.



1QT375105



1QT375513



1QT375100



1Q375585

3/8" MOUNT QUAD TINES | MAGNUM QUAD | MAGNUM QUAD PLUS

Magnum Quad Tines

Premium
 DILLENNIUM®
 INFINITY® Premium
 INFINITY® DILLENNIUM®
 IMPERIAL TIP®

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1QT500101	1/2" Premium Magnum Quad Tine (with Toro® Shank)	4.5"	3/8"	.400"	.550"	.072"
1QT500501	1/2" DILLENNIUM® Magnum QuadTine (with Toro® Shank)	4.625"	3/8"	.400"	.580"	.072"
1QT506501	1/2" IMPERIAL TIP® Magnum Quad Tine (with Toro® Shank)	4.625"	3/8"	.400"	.580"	.072"
1Q500101	1/2" Premium Magnum Quad Tine	4.5"	3/8"	.400"	.550"	.072"
1Q500501	1/2" DILLENNIUM® Magnum Quad Tine	4.625"	3/8"	.400"	.580"	.072"
1QT500103	1/2" Premium Magnum Quad Tine (with Toro® Shank)	5.5"	3/8"	.400"	.550"	.072"
1QT500503	1/2" DILLENNIUM® Magnum Quad Tine (with Toro® Shank)	5.625"	3/8"	.400"	.580"	.072"
1QT506503	1/2" IMPERIAL TIP® Magnum Quad Tine (with Toro® Shank)	5.625"	3/8"	.400"	.580"	.072"
1QT500183	1/2" INFINITY® Premium Magnum Quad tine (with Toro® Shank)	5.5"	3/8"	.400"	.550"	.072"
1QT500583	1/2" INFINITY® DILLENNIUM® Magnum Quad tine (with Toro® Shank)	5.625"	3/8"	.400"	.580"	.072"
1QT506583	1/2" INFINITY® IMPERIAL TIP® Magnum Quad tine(with Toro® Shank)	5.625"	3/8"	.400"	.580"	.072"
1Q500103	1/2" Premium Magnum Quad Tine	5.5"	3/8"	.400"	.550"	.072"
1Q500503	1/2" DILLENNIUM® Magnum Quad Tine	5.625"	3/8"	.400"	.580"	.072"
1QT500112	1/2" Premium Magnum Quad Tine (with Toro® Shank)	6.5"	3/8"	.400"	.550"	.072"
1QT500512	1/2" DILLENNIUM® Magnum Quad Tine (with Toro® Shank)	6.625"	3/8"	.400"	.580"	.072"



1QT500101



1Q500503

Magnum Quad Plus Tines

Premium
 DILLENNIUM®
 INFINITY® Premium
 INFINITY® DILLENNIUM®
 IMPERIAL TIP®

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1QT575103	Premium Magnum Quad Plus Tine (with Toro® Shank)	4.5"	3/8"	.470"	.605"	.063"
1QT575503	DILLENNIUM® Magnum Quad Plus Tine (with Toro® Shank)	4.625"	3/8"	.465"	.600"	.063"
1QT575108	Premium Magnum Quad Plus Tine (with Toro® Shank)	5.30"	3/8"	.470"	.605"	.063"
1QT575508	DILLENNIUM® Magnum Quad Plus Tine (with Toro® Shank)	5.45"	3/8"	.465"	.600"	.063"
1QT575104	Premium Magnum Quad Plus Tine (with Toro® Shank)	6"	3/8"	.470"	.605"	.063"
1QT575504	DILLENNIUM® Magnum Quad Plus Tine (with Toro® Shank)	6.125"	3/8"	.465"	.600"	.063"
1QT625103	5/8" Premium Magnum Quad Plus Tine (with Toro® Shank)	4.5"	3/8"	.500"	.630"	.063"
1QT625503	5/8" DILLENNIUM® Magnum Quad Plus Tine (with Toro® Shank)	4.625"	3/8"	.510"	.665"	.063"
1QT625104	5/8" Premium Magnum Quad Plus Tine (with Toro® Shank)	5.5"	3/8"	.500"	.630"	.063"
1QT625504	5/8" DILLENNIUM® Magnum Quad Plus Tine (with Toro® Shank)	5.625"	3/8"	.510"	.665"	.063"
1QT625184	5/8" INFINITY® Premium Magnum Quad Plus tine (with Toro® Shank)	5.5"	3/8"	.500"	.630"	.063"
1QT625584	5/8" INFINITY® DILLENNIUM® Magnum Quad Plus tine (with Toro® Shank)	5.625"	3/8"	.510"	.665"	.063"
1QT625105	5/8" Premium Magnum Quad Plus Tine (with Toro® Shank)	6"	3/8"	.500"	.630"	.063"
1QT625505	5/8" DILLENNIUM® Magnum Quad Plus Tine (with Toro® Shank)	6.125"	3/8"	.510"	.665"	.063"
1QT625185	5/8" INFINITY® Premium Magnum Quad Plus tine (with Toro® Shank)	6"	3/8"	.500"	.630"	.063"
1QT625585	5/8" INFINITY® DILLENNIUM® Magnum Quad Plus tine (with Toro® Shank)	6.125"	3/8"	.510"	.665"	.063"

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



1QT575508



1QT625505

1/2" & 7/8" MOUNT QUAD TINES | CORING TINES | ECONOMY TINES

1/2" Mount Quad Tines

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1Q250106	1/4" Premium Standard Quad Tine	4.5"	1/2"	.250"	.385"	.065"
1Q375102	3/8" Premium Super Quad Tine	4.5"	1/2"	.335"	.485"	.072"
1Q500102	1/2" Premium Magnum Quad Tine	4.5"	1/2"	.400"	.550"	.072"
1Q500502	1/2" DILLENNIUM® Magnum Quad Tine	4.625"	1/2"	.400"	.580"	.072"
1Q575107	Premium Magnum Quad Plus Tine	5"	1/2"	.470"	.605"	.063"
1Q575507	DILLENNIUM® Magnum Quad Plus Tine	5"	1/2"	.465"	.610"	.063"



1Q500102



1Q500502

7/8" Mount Conventional & Economy Tines

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1T750501	3/4" DILLENNIUM® top-eject	5.25"	7/8"	.535"	.760"	.095"
1TS750501	3/4" DILLENNIUM® side-eject	5.25"	7/8"	.535"	.760"	.095"
1D750101	3/4" Premium top-eject	6"	7/8"	.570"	.765"	.095"
1DS750101	3/4" Premium side-eject	6"	7/8"	.570"	.765"	.095"
1DS750501	3/4" DILLENNIUM® side-eject	6.25"	7/8"	.535"	.760"	.095"
1ES875102	7/8" JRM Economy Rolled Tine side-eject	5.5"	7/8"	.620"	.900"	.134"



1TS750501



1ES875102

JRM Economy Tines

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1E375101	3/8" JRM Economy Top-eject Tine	4.5"	3/4"	.350"	.465"	.055"
1E500104	1/2" JRM Economy Top-eject Tine	6"	3/4"	.445"	.560"	.055"
1E625104	5/8" JRM Economy Top-eject Tine	6"	3/4"	.545"	.665"	.055"
1ES750101	3/4" JRM Economy Side-eject Rolled Tine	5.5"	3/4"	.620"	.900"	.134"
1ES875102	7/8" JRM Economy Side-eject Rolled Tine	5.5"	7/8"	.620"	.900"	.134"



1E500104



1ES750101

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

3/4" MOUNT CONVENTIONAL CORING TINES

Replacement parts for Toro® & John Deere®



Premium



DILLENNIUM®



INFINITY® Premium



INFINITY® DILLENNIUM®



IMPERIAL TIP®

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1E375101	3/8" Economy top-eject	4.5"	3/4"	.350"	.465"	.055"
1Q375104	3/8" Premium Quad Tine	4.5"	3/4"	.335"	.485"	.072"
1TS375501	3/8" DILLENNIUM® side-eject	5.25"	3/4"	.270"	.425"	.072"
1TS375581	3/8" INFINITY® DILLENNIUM® side-eject tine	5.25"	3/4"	.270"	.425"	.072"
1DS375101	3/8" Premium side-eject	5.5"	3/4"	.285"	.450"	.072"
1DS375501	3/8" DILLENNIUM® side-eject	5.75"	3/4"	.270"	.425"	.072"
1TS500501	1/2" DILLENNIUM® side-eject	5.25"	3/4"	.400"	.580"	.072"
1TS506501	1/2" IMPERIAL TIP® side-eject	5.25"	3/4"	.400"	.580"	.072"
1DS00101	1/2" Premium top-eject	5.5"	3/4"	.400"	.570"	.072"
1DS00501	1/2" DILLENNIUM® top-eject	5.75"	3/4"	.400"	.580"	.072"
1DS500101	1/2" Premium side-eject	5.5"	3/4"	.400"	.570"	.072"
1DS500501	1/2" DILLENNIUM® side-eject	5.75"	3/4"	.400"	.580"	.072"
1DS506501	1/2" IMPERIAL TIP® side-eject	5.75"	3/4"	.400"	.580"	.072"
1Q500111	1/2" Premium Magnum Quad Tine	5.5"	3/4"	.400"	.550"	.072"
1Q500511	1/2" DILLENNIUM® Magnum Quad Tine	5.625"	3/4"	.400"	.580"	.072"
1DS500552	1/2" Heavy-Duty DILLENNIUM® side-eject	5.75"	3/4"	.350"	.545"	.072"
1E500104	1/2" JRM Economy top-eject	6"	3/4"	.445"	.560"	.055"
1DS00105	1/2" Premium top-eject	6"	3/4"	.400"	.570"	.072"
1DS500105	1/2" Premium side-eject	6"	3/4"	.400"	.570"	.072"
1DS500505	1/2" DILLENNIUM® side-eject	6.25"	3/4"	.400"	.580"	.072"
1DS500185	1/2" INFINITY® Premium side-eject tine	6"	3/4"	.400"	.570"	.072"
1DS500585	1/2" INFINITY® DILLENNIUM® side-eject tines	6.25"	3/4"	.400"	.580"	.072"
1DS500556	1/2" Heavy-Duty DILLENNIUM® side-eject	6.25"	3/4"	.350"	.545"	.072"
1DS625503	5/8" DILLENNIUM® side-eject	4.5"	3/4"	.480"	.640"	.072"
1T625101	5/8" Premium top-eject	4.75"	3/4"	.490"	.645"	.072"
1T625501	5/8" DILLENNIUM® top-eject	5.25"	3/4"	.480"	.640"	.072"
1TS625501	5/8" DILLENNIUM® side-eject	5.25"	3/4"	.480"	.640"	.072"
1D625101	5/8" Premium top-eject	5.5"	3/4"	.490"	.645"	.072"
1D625501	5/8" DILLENNIUM® top-eject	5.75"	3/4"	.480"	.640"	.072"
1DS625101	5/8" Premium side-eject	5.5"	3/4"	.490"	.645"	.072"
1DS625501	5/8" DILLENNIUM® side-eject	5.75"	3/4"	.480"	.640"	.072"
1DS625181	5/8" INFINITY® Premium side-eject tine	5.5"	3/4"	.490"	.645"	.072"
1DS625581	5/8" INFINITY® DILLENNIUM® side-eject tine	5.75"	3/4"	.480"	.640"	.072"
1Q625101	5/8" Premium Magnum Quad Plus Tine	5.5"	3/4"	.500"	.630"	.063"
1Q625501	5/8" DILLENNIUM® Magnum Quad Plus Tine	5.625"	3/4"	.510"	.665"	.063"
1E625104	5/8" JRM Economy top-eject	6"	3/4"	.545"	.665"	.055"
1D625105	5/8" Premium top-eject	6"	3/4"	.490"	.645"	.072"
1D625505	5/8" DILLENNIUM® top-eject	6.25"	3/4"	.480"	.640"	.072"
1DS625105	5/8" Premium side-eject	6"	3/4"	.490"	.645"	.072"
1DS625505	5/8" DILLENNIUM® side-eject	6.25"	3/4"	.480"	.640"	.072"
1DS625185	5/8" INFINITY® Premium side-eject tine	6"	3/4"	.490"	.645"	.072"
1DS625585	5/8" INFINITY® DILLENNIUM® side-eject tine	6.25"	3/4"	.480"	.640"	.072"
1TS625106	5/8" Premium side-eject	6.25"	3/4"	.490"	.645"	.072"
1TS625506	5/8" DILLENNIUM® side-eject	6.50"	3/4"	.480"	.640"	.072"
1Q625102	5/8" Premium Magnum Quad Plus Tine	6.5"	3/4"	.500"	.630"	.063"
1Q625502	5/8" DILLENNIUM® Magnum Quad Plus™ Tine	6.625"	3/4"	.510"	.665"	.063"
1ES750101	3/4" JRM Economy Rolled Tine side-eject	5.5"	3/4"	.620"	.900"	.134"

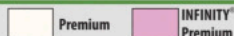
TORO® is a registered trademark of The Toro Company, Bloomington, MN 55420

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

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

CONVENTIONAL SOLID TINES

Conventional Solid Tines



Part #	JRM Description	Length	Mount Dia.	O.D.
2A625101	5/8" Solid Aerivator tine	4.625"	Threaded	.640"
2DT200104	.200" Needle Tine for Toro® ProCore 648	6.125"	.200"	.200"
2DT250104	.250" Needle Tine for Toro® ProCore 648	6.125"	.250"	.250"
2T200101	3/16" Solid Hook tine	6.5"	5mm hook	.200"
2T312101	5/16" Solid Hook tine	7.5"	8mm hook	.312"
2R125103	1/8" Solid tine	4.5"	1/2"	.200"
2R250105	1/4" Solid tine	5"	1/2"	.250"
2D375105	3/8" Solid tine	5"	1/2"	.375"
2T125103	1/8" Solid tine	4.5"	3/8"	.200"
2T125183	1/8" Solid INFINITY TINE®	4.5"	3/8"	.200"
2T125105	1/8" Solid tine	5.25"	3/8"	.200"
2T125104	1/8" Solid tine	6"	3/8"	.200"
2T125184	1/8" Solid INFINITY TINE®	6"	3/8"	.200"
2T250105	1/4" Solid tine	4.25"	3/8"	.250"
2T250106	1/4" Solid tine	5"	3/8"	.250"
2T250186	1/4" Solid INFINITY TINE®	5"	3/8"	.250"
2T250107	1/4" Solid tine	6.125"	3/8"	.250"
2T250187	1/4" Solid INFINITY TINE®	6.125"	3/8"	.250"
2T250109	1/4" Solid tine	6.5"	3/8"	.250"
2T250189	1/4" Solid INFINITY TINE®	6.5"	3/8"	.250"
2D375104	3/8" Solid tine	5"	3/8"	.375"
2D375184	3/8" Solid INFINITY TINE®	5"	3/8"	.375"
2D375106	3/8" Solid tine	6"	3/8"	.375"
2D375186	3/8" Solid INFINITY TINE®	6"	3/8"	.375"
2D375107	3/8" Solid tine	7"	3/8"	.375"
2T500103	1/2" Solid tine	6"	3/8"	.500"
2T500183	1/2" Solid INFINITY TINE®	6"	3/8"	.500"
2T625104	5/8" Solid tine	6"	3/8"	.625"
2T625184	5/8" Solid INFINITY TINE®	6"	3/8"	.625"
2T250104	1/4" Solid tine	4.25"	3/4"	.250"
2R250106	1/4" Solid tine	5"	3/4"	.250"
2R250186	1/4" Solid INFINITY TINE®	5"	3/4"	.250"
2T250108	1/4" Solid tine	6.5"	3/4"	.250"
2T250188	1/4" Solid INFINITY TINE®	6.5"	3/4"	.250"
2T375102	3/8" Solid tine	5"	3/4"	.375"
2T375103	3/8" Solid tine	6"	3/4"	.375"
2T375183	3/8" Solid INFINITY TINE®	6"	3/4"	.375"
2T375107	3/8" Solid tine	7"	3/4"	.375"
2T500102	1/2" Solid tine	5"	3/4"	.500"
2T500182	1/2" Solid INFINITY TINE®	5"	3/4"	.500"
2T500104	1/2" Solid tine	7"	3/4"	.500"
2T500184	1/2" Solid INFINITY TINE®	7"	3/4"	.500"
2T625102	5/8" Solid tine	5"	3/4"	.625"
2D625102	5/8" Solid tine	7"	3/4"	.625"
2D625182	5/8" INFINITY® Solid tine	7"	3/4"	.625"
2T750102	3/4" Solid tine	5"	3/4"	.750"
2D750102	3/4" Solid tine	7"	3/4"	.750"
2D750182	3/4" Solid INFINITY TINE®	7"	3/4"	.750"
2T750104	3/4" Solid tine	5"	7/8"	.750"
2T750103	3/4" Solid tine	7"	7/8"	.750"
2T875102	7/8" Solid tine	5"	7/8"	.875"
2T875103	7/8" Solid tine	7"	7/8"	.875"

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

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



Part #	JRM Description	Length	Mount Dia.	Blade Width	Thickness
2BT625101	5/8" rib Premium Bayonet™ (with Toro® shank)	5.50"	3/8"	.625"	.190"
2B750137	3/4" rib Premium Bayonet™	6"	3/8"	.750"	.190"
2BT750137	3/4" rib Premium Bayonet™ (with Toro® shank)	6"	3/8"	.750"	.190"
2BT750837	3/4" rib INFINITY® Bayonet™ tine (with Toro® shank)	6"	3/8"	.750"	.190"
2B750127	3/4" rib Premium Bayonet™	7"	3/8"	.750"	.190"
2B750827	3/4" rib INFINITY® Bayonet™ tine	7"	3/8"	.750"	.190"
2B750113	3/4" rib Premium Bayonet™	4.75"	3/4"	.750"	.190"
2B750813	3/4" rib INFINITY® Bayonet™ tine	4.75"	3/4"	.750"	.190"
2B750138	3/4" rib Premium Bayonet™	6"	3/4"	.750"	.190"
2B750123	3/4" rib Premium Bayonet™	7"	3/4"	.750"	.190"
2B750823	3/4" rib INFINITY® Bayonet™ tine	7"	3/4"	.750"	.190"
2B750145	3/4" rib Premium Bayonet™	9.5"	12mm	.750"	.190"
2WB750146	3/4" rib Premium Bayonet™ for Wiedenmann®	9.5"	12mm dimple	.750"	.190"
2B750157	3/4" rib Premium Bayonet™	11"	18mm	.750"	.190"



2B750123



2B750813

Crosstines®

Part #	JRM Description	Length	Mount Dia.	Width
2X375100	3/8" rib Premium CROSSTINE®	6"	3/8"	.375"
2X500109	1/2" rib Premium CROSSTINE®	5.5"	3/8"	.500"
2X500509	1/2" rib DILLENNIUM® CROSSTINE®	5.5"	3/8"	.500"
2X500108	1/2" rib Premium CROSSTINE®	5.5"	3/4"	.500"
2X500508	1/2" rib DILLENNIUM® CROSSTINE®	5.5"	3/4"	.500"



2X375100



2X500508

SuperCross™ Tines

Part #	JRM Description	Length	Mount Dia.	Width
2X750102	3/4" rib Premium SuperCross™	5.88"	3/4"	.750"
2X750101	3/4" rib Premium SuperCross™	5.88"	7/8"	.750"



2X750102

GREENBAY TINES | CLOSED SPOON TINES

Greenbay Tines

☐ Premium ☒ DILLENNIUM®

Part #	JRM Description	Length	Mount Dia.	I.D.	Tapered O.D.	Wall
1RG812102	13/16" Premium side-eject Greenbay Tine	6"	3/4"	.500"	.720"	.105"
1RG812502	13/16" DILLENNIUM® side-eject Greenbay Tine	6"	3/4"	.490"	.730"	.105"
1RG875102	7/8" Premium side-eject Greenbay Tine	6"	3/4"	.575"	.770"	.095"
1RG875502	7/8" DILLENNIUM® side-eject Greenbay Tine	6"	3/4"	.535"	.765"	.095"
1RS875105	7/8" Heavy-Duty Premium side-eject Greenbay Tine	6"	3/4"	.600"	.930"	.156"
1RS875505	7/8" Heavy-Duty DILLENNIUM® side-eject Greenbay Tine	6"	3/4"	.590"	.900"	.156"
1RS875102	7/8" Premium side-eject Greenbay Tine	5.55"	7/8"	.600"	.855"	.120"
1RS875502	7/8" DILLENNIUM® side-eject Greenbay Tine	5.55"	7/8"	.590"	.850"	.120"
1RS875104	7/8" Heavy-Duty Premium side-eject Greenbay Tine	6"	7/8"	.600"	.930"	.156"
1RS875504	7/8" Heavy-Duty DILLENNIUM® side-eject Greenbay Tine	6"	7/8"	.590"	.900"	.156"



1RS875102



1RG812502



1RS875105



1RS875504



Zack Stephens
@DesertTurfSuper

Green Bay tines from JRM for the win! After 45 acres of fairways, here is a comparison of the tines used for all 45 acres vs. new. Money is well spent when you have zero downtime due to tine changing. Thanks @vegaguy702 and @JRMturfProducts.



Closed Spoon Tines

Part #	JRM Description	Length	Replacement Description
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



1N100103



1N750102

FAIRWAY SIDE-EJECT TINES

Fairway Side-Eject Tines

* Roll pins are included with all replacement tubes.

Premium DILLENNIUM®

Part #	JRM Description	Length Full/Tube	Mount Dia.	I.D.	O.D.	Wall
1FS625101	5/8" Premium with Mustang® shank	7.19"/6"	12mm	.400"	.625"	.072"
1FS625501	5/8" DILLENNIUM® with Mustang® shank	7.44"/6"	12mm	.395"	.625"	.072"
1FS625102	5/8" Premium with fixed Mustang® shank	7.17"/6"	12mm	.390"	.625"	.072"
1FS625502	5/8" DILLENNIUM® with fixed Mustang® Shank	7.42"/6"	12mm	.390"	.625"	.072"
1FS625103	5/8" Premium with fixed VERTI-DRAIN® Shank	8.15"/7"	12mm	.390"	.625"	.072"
1FS625503	5/8" DILLENNIUM® with fixed VERTI-DRAIN® Shank	8.40"/7.20"	12mm	.395"	.625"	.072"
1FS750502	3/4" DILLENNIUM® with Fixed Mustang® shank	6.92"/5.75"	12mm	.480"	.750"	.072"
1FS812103	13/16" Premium with VERTI-DRAIN® shank	7.33"/6"	12mm	.500"	.812"	.105"
1FS812503	13/16" DILLENNIUM® with VERTI-DRAIN® shank	7.33"/6"	12mm	.490"	.812"	.105"
1FS812105	13/16" Premium with Mustang® shank	7.17"/6"	12mm	.500"	.812"	.105"
1FS812504	13/16" DILLENNIUM® with Soil Reliever® Shank	8.25"/6"	12mm	.490"	.812"	.105"
1FS100103	1" Premium with VERTI-DRAIN® shank	7.33"/6"	12mm	.595"	1"	.120"
1FS100503	1" DILLENNIUM® with VERTI-DRAIN® shank	7.33"/6"	12mm	.590"	1"	.120"
1FS100104	1" Premium with Soil Reliever® shank	8.25"/6"	12mm	.595"	1"	.120"
1FS100504	1" DILLENNIUM® with Soil Reliever® shank	8.25"/6"	12mm	.590"	1"	.120"
1FS100105	1" Premium with Mustang® shank	7.17"/6"	12mm	.595"	1"	.120"
1FS812106	13/16" Premium with VERTI-DRAIN® Shank	7.77"/6"	18mm	.500"	.812"	.105"
1FS812107	13/16" Premium with Soil Reliever® Shank	8.25"/6"	18mm	.500"	.812"	.105"
1FS812507	13/16" DILLENNIUM® with Soil Reliever® Shank	8.25"/6"	18mm	.490"	.812"	.105"
1FS125107	1 1/4" Premium with Soil Reliever® shank	8.25"/6"	18mm	.800"	1.25"	.135"
1FS125507	1 1/4" DILLENNIUM® with Soil Reliever® Shank	8.25"/6"	18mm	.800"	1.25"	.135"
1FS812101	13/16" Premium for Conventional Aerifiers	6.75"/6"	3/4"	.500"	.812"	.105"
1FS812501	13/16" DILLENNIUM® for Conventional Aerifiers	6.75"/6"	3/4"	.490"	.812"	.105"
1FS100101	1" Premium for Conventional Aerifiers	6.75"/6"	3/4"	.595"	1"	.120"
1FS100501	1" DILLENNIUM® for Conventional Aerifiers	6.75"/6"	3/4"	.590"	1"	.120"
1FS112101	1 1/8" Premium for Conventional Aerifiers	6.75"/6"	3/4"	.735"	1.125"	.135"
1FS125101	1 1/4" Premium for Conventional Aerifiers	6.75"/6"	3/4"	.800"	1.25"	.135"
1FS125501	1 1/4" DILLENNIUM® for Conventional Aerifiers	6.75"/6"	3/4"	.800"	1.25"	.135"
1FS812102	13/16" Premium for Conventional Aerifiers	6.75"/6"	7/8"	.500"	.812"	.105"
1FS812502	13/16" DILLENNIUM® for Conventional Aerifiers	6.75"/6"	7/8"	.490"	.812"	.105"
1FS100102	1" Premium for Conventional Aerifiers	6.75"/6"	7/8"	.595"	1"	.120"
1FS100502	1" DILLENNIUM® for Conventional Aerifiers	6.75"/6"	7/8"	.590"	1"	.120"
1FS112102	1 1/8" Premium for Conventional Aerifiers	6.75"/6"	7/8"	.735"	1.125"	.135"
1FS125102	1 1/4" Premium for Conventional Aerifiers	6.75"/6"	7/8"	.800"	1.25"	.135"
3FS625101	5/8" Premium Replacement Tube	6"	12mm	.400"	.625"	.072"
3FS625501	5/8" DILLENNIUM® Replacement Tube	6"	12mm	.395"	.625"	.072"
3FS812100	13/16" Premium Replacement Tube	6"	12mm, 18mm	.500"	.812"	.105"
3FS812500	13/16" DILLENNIUM® Replacement Tube	6"	12mm, 18mm	.490"	.812"	.105"
3FS100100	1" Premium Replacement Tube	6"	12mm, 18mm, 3/4", 7/8"	.595"	1"	.120"
3FS100500	1" DILLENNIUM® Replacement Tube	6"	12mm, 18mm, 3/4", 7/8"	.590"	1"	.120"
3FS112100	1 1/8" Premium Replacement Tube	6"	18mm, 3/4", 7/8"	.735"	1.125"	.135"
3FS125100	1 1/4" Premium Replacement Tube	6"	18mm, 3/4", 7/8"	.800"	1.25"	.135"
3FS125500	1 1/4" DILLENNIUM® Replacement Tube	6"	18mm, 3/4", 7/8"	.800"	1.25"	.135"



1FS100503



3FS812500

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.

DEEP TINES INFO



JRM DEEP TINES

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 have many uses — Deep tine aeration is not restricted to the golf course. Many landscapers, service and/or sportsfields 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 VERTIDRAIN®, Soil Reliever®, and Wiedenmann®. The different lines are broken down separately in the catalog. 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. Roll pins come with every replacement tube.



VERTI-DRAIN® DEEP TINES

Verti-Drain® Deep Tines

Premium DILLENNIUM®

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

Part #	JRM Description	Length Full/Tube	Mount Dia.	I.D.	O.D.	Wall
1DT375101	3/8" Premium fixed shank	6"/5"	8mm	.250"	.440"	.060"
1DT375501	3/8" DILLENNIUM® fixed shank	6.20"/5.20"	8mm	.250"	.440"	.060"
1DT375102	3/8" Premium	6"/5"	12mm	.250"	.440"	.060"
1DT500102	1/2" Premium	5.625"/4.625"	12mm	.335"	.550"	.072"
1DT625103	5/8" Premium	8.17"/7"	12mm	.400"	.625"	.072"
1DT625503	5/8" DILLENNIUM®	8.40"/7.25"	12mm	.350"	.625"	.072"
1DT625105	5/8" Premium fixed shank	8.17"/7"	12mm	.400"	.625"	.072"
1DT625505	5/8" DILLENNIUM® fixed shank	8.40"/7.25"	12mm	.350"	.625"	.072"
1DT750101	3/4" Premium	9.30"/8"	12mm	.450"	.750"	.095"
1DT750106	3/4" Premium	11.375"/10"	12mm	.450"	.750"	.095"
1DT750506	3/4" DILLENNIUM®	11.5"/10.25"	12mm	.440"	.750"	.095"
1DT812111	13/16" Premium	9.3"/8"	12mm	.510"	.812"	.105"
1DT812511	13/16" DILLENNIUM®	9.55"/8.25"	12mm	.490"	.812"	.105"
1DT812103	13/16" Premium	11.375"/10"	12mm	.510"	.812"	.105"
1DT812503	13/16" DILLENNIUM®	11.5"/10.25"	12mm	.490"	.812"	.105"
1DT812105	13/16" Premium	13.375"/12"	12mm	.510"	.812"	.105"
1DT812505	13/16" DILLENNIUM®	13.5"/12.25"	12mm	.490"	.812"	.105"
1DT750102	3/4" Premium	9.77"/8"	18mm	.450"	.750"	.095"
1DT750105	3/4" Premium	11.75"/10"	18mm	.450"	.750"	.095"
1DT750505	3/4" DILLENNIUM®	12"/10.25"	18mm	.440"	.750"	.095"
1DT812110	13/16" Premium	9.77"/8"	18mm	.510"	.812"	.105"
1DT812510	13/16" DILLENNIUM®	10"/8.25"	18mm	.490"	.812"	.105"
1DT812102	13/16" Premium	11.75"/10"	18mm	.510"	.812"	.105"
1DT100101	1" Premium	9.75"/8"	18mm	.625"	1"	.120"
1DT100501	1" DILLENNIUM®	9.75"/8"	18mm	.625"	1"	.120"
1DT100104	1" Premium	10.75"/9"	18mm	.625"	1"	.120"
1DT100105	1" Premium	11.75"/10"	18mm	.625"	1"	.120"
1DT100505	1" DILLENNIUM®	12"/10.25"	18mm	.590"	1"	.120"
1DT112104	1 1/8" Premium	11.75"/10"	18mm	.750"	1.125"	.120"
1DT125104	1 1/4" Premium	14.40"/12"	18mm	.812"	1.25"	.135"
1DT125504	1 1/4" DILLENNIUM®	14.72"/12.25"	18mm	.800"	1.25"	.135"



1DT812503



1DT100105

Shanks and tubes are available for all non-fixed shank Deep Tines.
Contact our Customer Service Department for the correct shank and tube part number.

SOIL RELIEVER® DEEP TINES | REPLACEMENT TUBES

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

☐ Premium ☒ DILLENNIUM®

Part #	JRM Description	Length Full/Tube	Mount Dia.	I.D.	O.D.	Wall
1DT625104	5/8" Premium	9"/7"	12mm	.400"	.625"	.072"
1DT625504	5/8" DILLENNIUM®	9.25"/7.25"	12mm	.350"	.625"	.072"
1DT625106	5/8" Premium fixed shank	9"/7"	12mm	.400"	.625"	.072"
1DT625506	5/8" DILLENNIUM® fixed shank	9.25"/7.25"	12mm	.350"	.625"	.072"
1DT750107	3/4" Premium	12"/10"	12mm	.450"	.750"	.095"
1DT750507	3/4" DILLENNIUM®	12.25"/10.25"	12mm	.440"	.750"	.095"
1DT812112	13/16" Premium	10"/8"	12mm	.510"	.812"	.105"
1DT812512	13/16" DILLENNIUM®	10.25"/8.25"	12mm	.490"	.812"	.120"
1DT812104	13/16" Premium	12"/10"	12mm	.510"	.812"	.105"
1DT812504	13/16" DILLENNIUM®	12.25"/10.25"	12mm	.490"	.812"	.105"
1DT750108	3/4" Premium	12"/10"	18mm	.450"	.750"	.095"
1DT812106	13/16" Premium	12"/10"	18mm	.510"	.812"	.105"
1DT812506	13/16" DILLENNIUM®	12.25"/10.25"	18mm	.490"	.812"	.105"
1DT100109	1" Heavy-duty	12"/10"	18mm	.550"	1"	.188"
1DT100107	1" Premium	12"/10"	18mm	.625"	1"	.120"
1DT100507	1" DILLENNIUM®	12.25"/10.25"	18mm	.590"	1"	.120"
1DT112185	1 1/8" Heavy-duty	12"/10"	18mm	.715"	1.125"	.188"
1DT112105	1 1/8" Premium	12"/10"	18mm	.750"	1.125"	.135"
1DT125102	1 1/4" Premium	12"/10"	18mm	.812"	1.25"	.135"
1DT125502	1 1/4" DILLENNIUM®	12.25"/10.25"	18mm	.800"	1.25"	.135"
1DT125104	1 1/4" Premium	14"/12"	18mm	.812"	1.25"	.135"
1DT125504	1 1/4" DILLENNIUM®	14.25"/12.25"	18mm	.800"	1.25"	.135"

Replacement Tubes for Deep Tines

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

☐ Premium ☒ DILLENNIUM®

Part #	JRM Description	Tube Length	Mount Dia.	Replacement
3DT625103	5/8" Premium replacement tube	7"	12mm	SR, VD, W
3DT625503	5/8" DILLENNIUM® replacement tube	7.25"	12mm	SR, VD, W
3DT750101	3/4" Premium replacement tube	8"	12mm, 18mm	SR, VD, W
3DT750104	3/4" Premium replacement tube	9"	12mm, 18mm	SR, VD, W
3DT750105	3/4" Premium replacement tube	10"	12mm, 18mm	SR, VD
3DT750505	3/4" DILLENNIUM® replacement tube	10.25"	12mm, 18mm	SR, VD
3DT812101	13/16" Premium replacement tube	8"	12mm, 18mm	SR, VD, W
3DT812501	13/16" DILLENNIUM® replacement tube	8.25"	12mm, 18mm	SR, VD, W
3DT812100	13/16" Premium replacement tube	10"	12mm, 18mm	SR, VD, W
3DT812500	13/16" DILLENNIUM® replacement tube	10.25"	12mm, 18mm	SR, VD, W
3DT812110	13/16" Premium replacement tube	12"	12mm, 18mm	SR, VD, W
3DT812510	13/16" DILLENNIUM® replacement tube	12.25"	12mm, 18mm	SR, VD, W
3DT100104	1" Premium replacement tube	9"	18mm	VD, SR
3DT100109	1" Heavy-duty Deep Tine replacement tube	10"	18mm	SR, VD, W
3DT100105	1" Premium replacement tube	10"	18mm	SR, VD, W
3DT100505	1" DILLENNIUM® replacement tube	10.25"	18mm	SR, VD, W
3DT100101	1" Premium replacement tube	8"	18mm	SR, VD, W
3DT100501	1" DILLENNIUM® replacement tube	8.25"	18mm	SR, VD, W
3DT112104	1 1/8" Premium replacement tube	10"	18mm	SR, VD
3DT112188	1" Heavy-duty Deep Tine replacement tube	10"	18mm	SR, VD, W
3DT125100	1 1/4" Premium replacement tube	10"	18mm	SR, VD
3DT125500	1 1/4" DILLENNIUM® replacement tube	10.25"	18mm	SR, VD
3DT125106	1 1/4" Premium replacement tube	12"	18mm	SR, VD
3DT125506	1 1/4" DILLENNIUM® replacement tube	12.25"	18mm	SR, VD

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

WIEDENMANN® DEEP TINES

Premium DILLENNIUM®

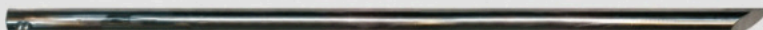
Part #	JRM Description	Length Full/Tube	Mount Dia.	I.D.	O.D.	Wall
1WT375101	3/8" Premium fixed shank	6"/4.82"	8mm dimple	.250"	.440"	.064"
1WT375102	3/8" Premium fixed shank	6.125"/4.82"	12mm dimple	.250"	.440"	.064"
1WT500102	1/2" Premium fixed shank	5.625"/4.315"	12mm dimple	.335"	.550"	.072"
1WT625102	5/8" Premium fixed shank	8.15"/7"	12mm dimple	.390"	.625"	.072"
1WT625502	5/8" DILLENNIUM® fixed shank	8.4"/7.25"	12mm dimple	.395"	.625"	.072"
1WT625103	5/8" Premium	8.3"/7"	12mm dimple	.400"	.625"	.072"
1WT625503	5/8" DILLENNIUM®	8.55"/7.25"	12mm dimple	.350"	.625"	.072"
1WT625107	5/8" Premium	11.3"/10"	12mm dimple	.400"	.625"	.072"
1WT812103	13/16" Premium	7.3"/6"	12mm dimple	.500"	.812"	.105"
1WT812503	13/16" DILLENNIUM®	7.3"/6"	12mm dimple	.490"	.812"	.105"
1WT812105	13/16" Premium	9.33"/8"	12mm dimple	.500"	.812"	.105"
1WT812505	13/16" DILLENNIUM®	9.58"/8.25"	12mm dimple	.490"	.812"	.105"
1WT812101	13/16" Premium	11.3"/10"	12mm dimple	.500"	.812"	.105"
1WT812501	13/16" DILLENNIUM®	11.58"/10.25"	12mm dimple	.490"	.812"	.105"
1WT100101	1" Premium	9.33"/8"	12mm dimple	.625"	1"	.120"
1WT812104	13/16" Premium	10.6"/8"	1:10 cone mount	.500"	.812"	.105"
1WT812504	13/16" DILLENNIUM®	10.85"/8.25"	1:10 cone mount	.490"	.812"	.105"
1WT812102	13/16" Premium	12.6"/10"	1:10 cone mount	.500"	.812"	.105"
1WT812502	13/16" DILLENNIUM®	12.85"/10.25"	1:10 cone mount	.490"	.812"	.105"
1WT100104	1" Premium	10.6"/8"	1:10 cone mount	.625"	1"	.120"
1WT100504	1" DILLENNIUM®	10.85"/8.25"	1:10 cone mount	.590"	1"	.120"
1WT100102	1" Premium	12.6"/10"	1:10 cone mount	.625"	1"	.120"
1WT100502	1" DILLENNIUM®	12.85"/10.25"	1:10 cone mount	.590"	1"	.120"
1WT112105	1 1/8" Premium Heavy-duty	12.6"/10"	1:10 cone mount	.660"	1.125"	.188"
1WT100103	1" Premium	12.3"/10"	1:4 cone mount	.625"	1"	.120"
1WT100503	1" DILLENNIUM®	12.55"/10.25"	1:4 cone mount	.590"	1"	.120"
2WT312102	5/16" Solid deep tine	7.88"/6"	8mm dimple	Solid	.312"	Solid
2WT312104	5/16" Solid deep tine	8.97"/7.87"	8mm dimple	Solid	.312"	Solid
2WT312105	5/16" Solid deep tine	11.35"/10.25"	8mm dimple	Solid	.312"	Solid
2WT500101	1/2" Solid deep tine	9.61"/8"	12mm dimple	Solid	.472"	Solid
2WT500112	1/2" Solid deep tine	11.18"/9.5"	12mm dimple	Solid	.472"	Solid
2WT500102	1/2" Solid deep tine	12.16"/10.5"	12mm dimple	Solid	.472"	Solid
2WT500103	1/2" Solid deep tine	14.12"/12.5"	12mm dimple	Solid	.472"	Solid
2WT750107	3/4" Solid deep tine	12"/9.5"	1:4 cone mount	Solid	.750"	Solid
2WT750103	3/4" Solid deep tine	8.66"/6.5"	1:10 cone mount	Solid	.750"	Solid
2WT750102	3/4" Solid deep tine	10.85"/8.75"	1:10 cone mount	Solid	.750"	Solid
2WT750101	3/4" Solid deep tine	13.25"/11"	1:10 cone mount	Solid	.750"	Solid
2WT750108	3/4" Solid deep tine	15.05"/12.97"	1:10 cone mount	Solid	.750"	Solid
2WT100101	1" Solid deep tine	13.25"/11"	1:10 cone mount	Solid	1"	Solid
2WB750146	3/4" Premium Bayonet™ Tine	9.5"	12mm dimple	Solid	.750"	Solid

Cone/Conical Screw Mt.



1WT100102

Dimple Mt.



2WT500103

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

SOLID DEEP TINES

JRM's Newest Innovation in Turf Maintenance

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.

Solid DILLENNIUM® Fairway Tines

 Premium  DILLENNIUM®

Part #	Description	Length	Mount	OD
2D875501	7/8" DILLENNIUM® Solid Fairway Tine	6 3/4"	7/8"	.875"
2D875502	7/8" DILLENNIUM® Solid Fairway Tine	6 3/4"	3/4"	.875"

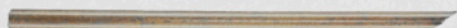


2D875502

Solid Deep Tines

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

Part #	Description	Length	Mount	OD
2DT312102	5/16" Premium	7.934"/6"	8mm	.3125"
2DT312103	5/16" Premium	9.25"/8"	8mm	.3125"
2DT312105	5/16" Premium	11.75"/10"	8mm	.3125"
2DT312106	5/16" Premium	13.75"/12"	8mm	.3125"
2DT375101	3/8" Premium	11"/9"	8mm	.375"
2DT500102	1/2" Premium	8.16"/6"	12mm	.472"
2DT500104	1/2" Premium	10.25"/8"	12mm	.472"
2DT500105	1/2" Premium	12.6"/10"	12mm	.472"
2DT500106	1/2" Premium	14.6"/12"	12mm	.472"
2DT500107	1/2" Premium	16.6"/14"	12mm	.472"
2DT750104	3/4" Premium	10"/8"	18mm	.708"
2DT750105	3/4" Premium	12.875"/10"	18mm	.708"
2DT750106	3/4" Premium	14.875"/12"	18mm	.708"
2DT750107	3/4" Premium	16.6"/14"	18mm	.708"
2DT100103	1" Premium	18.7"/16"	24mm dimple	.945"



2DT500104



2DT312103

Solid Bayonet™ Deep Tines

Part #	JRM Description	Length	Mount Diameter	Blade Width	Thickness
2B750145	3/4" rib Premium Bayonet™	9.5"	12mm	.750"	.190"
2B750157	3/4" rib Premium Bayonet™	11"	18mm	.750"	.190"



2B750145

MOUNTING BLOCKS | RAKE PRONGS

Mounting Blocks

* All JRM Tine Holders are made of high-grade steel and machined. Most OEM blocks are cast.

Part #	JRM Description	Blocks Per Set
1B375102	.375" 10-Hole Quad Tine Block for Toro® Procore 648 (Gold Rust-Proof Coating)	6 blocks
1B750101	.750" 4-hole conventional coring tine block for Toro® Procore 648 (Gold Rust-Proof Coating)	6 blocks



1B375102



1B750101

JRM Core Profiler Keychain

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

Part Number	JRM Description
1CP250102	JRM Core Profiler Key Chain to test soil profile



1CP250102

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.



9T375500

Part #	JRM Description	O.D.	I.D.	Machines
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 #	JRM Description	Hole Diameter	Mount diameter	Machines
9T375500	JRM Circular Rake Prong 4" long (27 per set)	1"	3/8" threaded	For Toro® Sand Pro



9T375175

VERTICAL-CUTTING BLADES INFO PAGE



Verti-cutting is part of a comprehensive approach that uses a specially designed machine to thin, dethatch, and aerate for improved health and appearance. Equipped with vertically oriented blades, verti-cutters create shallow openings for optimum aeration with adjustable blade height and spacing to accommodate grass type.

Removing Thatch

Thatch can prevent water, oxygen, and nutrients from reaching the grass, and can create an environment for pests and diseases. Verti-cutting removes thatch, allowing the grass to absorb more nutrients and water.

Improving Soil Conditions

Verti-cutting breaks up compacted soil, which can improve aeration and water infiltration.

Strengthening Root Systems

Verti-cutting promotes root growth, which helps the grass handle drought and foot traffic.

Encouraging New Growth

Verti-cutting cuts into the soil and promotes lateral spreading of grass runners, which can thicken your lawn.

Preparing for Overseeding

Verti-cutting creates shallow grooves that can help prepare your lawn for overseeding.

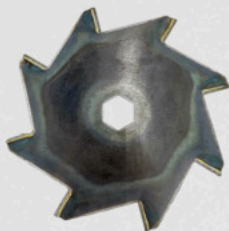
Giving Your Turf a Fresh Start

Verti-cutting can give your turf a fresh start before the growing season.



Graden® GS04 Units

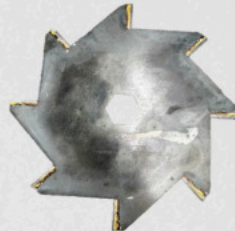
Part No.	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4G031501	JRM 1/32" Graden® DILLENNIUM®	7.5"	1" Hex	1mm	.045"
4G060501	JRM 1/16" Graden® DILLENNIUM®	7.5"	1" Hex	2mm	.075"
4G072501	JRM 1/10" Graden® DILLENNIUM®	7.5"	1" Hex	2.5mm	.1"
4G125501	JRM 1/8" Graden® DILLENNIUM®	7.5"	1" Hex	3mm	.125"



4G060501



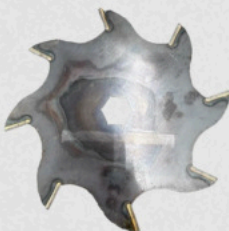
4G031501



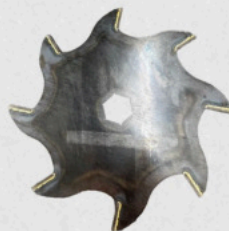
4G072501

Graden® SW04 Swing Wing, CSI Contour Sand Injector, GBS1200 Units

Part No.	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4G8046501	JRM 1/32" Graden® DILLENNIUM®	8.25"	1" Hex	1mm	.045"
4G8079501	JRM 1/16" Graden® DILLENNIUM®	8.25"	1" Hex	2mm	.075"
4G8118501	JRM 1/10" Graden® DILLENNIUM®	8.25"	1" Hex	2.5mm	.1"
4G8125501	JRM 1/8" Graden® DILLENNIUM®	8.25"	1" Hex	3mm	.125"



4G8118501



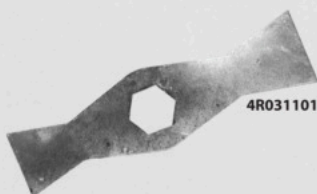
4G8046501



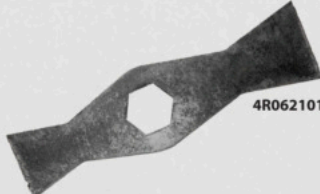
4G125501

Ryan® Mataway 516901, 201323, R201323

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4R031101	Mataway Blade - Straight 1" Hex Hole (1/32) .031" Standard Tip Replaces: R&R® R201323, Ryan® 516901	7.25"	1" Hex	None	.031"
4R062101	Mataway Blade - Straight 1" Hex Hole (1/16) .0625" Standard Tip Replaces: R&R® R201325, Ryan® 516900	7.25"	1" Hex	None	.0625"
4R105101	Mataway Blade - Straight 1" Hex Hole (1/8) .125" Standard Tip Replaces: R&R® R201326, Ryan® 516899	7.25"	1" Hex	None	.125"



4R031101



4R062101



4R105101

VERTICAL-CUTTING BLADES

Ryan® 8 Point Blade

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4G060501	Verti-Cut Blade 7.5" Diameter 1" Hex Hole (2 mm) .078" DILLENNIUM® Tip Replaces R&R® R523293, Ryan® 52329	7.5"	1" Hex	2mm	.078"

John Deere® 2243 & 2500 Triplex, 3215 & 3235 Fairway

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4D041401	Verti-Blade 5" Diameter .050" standard tip	5"	1.125" Hex	None	.05"

Toro® GR3320 TriFlex Mower Blade

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4T041132	Verti-Cut Blade 5" Diameter 1.325" Hex Hole .042" Standard Tip	5"	1.325" Hex	None	.042"

Toro® Greensmaster 3, 300, 3000, 3100, & 1000, & Reelmasters 223, 5100, 5300 & 5400

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4T041101	Verti-Cut Blade 5" Diameter 1.125" Hex Hole 1.2mm thickness	5"	1.125" Hex	None	.0472"



4D041401



4T041101



4T041132



4J041401

Jacobsen® Greensking & LF 100, 128, 135, 3400, 3810

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4J041401	Verti-Cut Blade 5" Diameter	5"	1" Sq	None	.032"

First Products® VC-40, VC-60 and VC-90 Verti-cutting Blades



4VPVC60

- Features JRM's unique formula of high-carbon, high-alloy steel for hardness and durability.
- Making JRM DILLENNIUM® tips the strongest composition of carbide on the market.

JRM part #	Description	Diameter	Arbor	DILLENNIUM TIP
4VPVC60	Verti-cutting blade for VC-40, VC-60, VC-90	12"	15/8" hex	3mm

JRM Vortex® Blades

Superior Durability

Equipped with premium carbide teeth for exceptional longevity and wear resistance.

Cleaner Finish

Features an extra fan blade design to maximize material displacement for a visibly cleaner, debris-free cut.

Precision Cut

Manufactured pressed flat to eliminate wobble and ensure a truer, more accurate cut every time.

John Deere® 2243 & 2500 Triplex, 3215 & 3235 Fairway

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4D041401	Verti-Blade 5" Diameter .050" standard tip	5"	1.125" Hex	NONE	.05"
4VD047501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1.14" Hex	1.2mm	.0472"
4VD079501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1.14" Hex	2mm	.078"

Toro® Greensmaster 3, 300, 3000, 3100, & 1000, & Reelmasters 223, 5100, 5300 & 5400

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4VT047501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1.14" Hex	1.2 mm	0.0472"
4VT079501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1.14" Hex	2 mm	.078"



4VT047501



4VT079501



4VD047501



4VD079501

Jacobsen® Greensking & LF 100, 128, 135, 3400, 3810

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4VJ047501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1" Sq	1.2 mm	.0472"
4VJ079501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1" Sq	2 mm	.078"



4VJ047501



4VJ079501



4VT047502

Toro® Greenmaster 3050, 3120, 3150-Q, 3250-D, & Toro® Triflex 3300, 3320, 3400, 3420, 3360

Part #	JRM Description	Blade Dia.	Arbor	TIP	Thickness
4VT047502	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1.312" Hex	1.2 mm	.0472"
4VT079501	Vortex Verti-Cut Blade 5" Diameter DILLENNIUM® tip	5"	1.140" Hex	2 mm	.078"

SHIPPING AND CONTACT INFO

Contacting JRM

At JRM, Inc., we take your opinions very seriously. Most of our new products and improvements to current products derive from customer opinions and feedback—good and bad. We encourage all customers, distributors and salesmen to keep providing valuable feedback.

<i>By Mail</i>	<i>By Telephone/Fax</i>	<i>By E-mail</i>
Customer Service JRM, Inc. PO Box 1689 Welcome, NC 27374-1689	888-576-7007 toll free 336-354-1243 toll 336-764-8311 fax	sales@jrmonline.com

Ordering JRM Products

Authorized Dealer

Most areas throughout the world have authorized JRM distributors. You can find your distributor on the inside back cover of the catalog, or on JRM's website (www.jrmonline.com). You should contact your JRM Distributor for orders, invoicing questions and updates on existing orders.

Direct

You can JRM call JRM directly to place orders and to ask technical questions about any of our products.

Direct orders can be placed by:

Website: www.jrmonline.com
Email: sales@jrmonline.com
Fax: 336-764-8311

Telephone during regular business hours 7:30 am-5:30 pm EST
Toll free within the United States: 888-576-7007
World-wide via our direct sales line: 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. JRM can help you look up past orders and answer any other questions to help you select the correct part.

Domestic Shipping

- All JRM shipments can ship Fed-EX, UPS or other providers based on preference.
- JRM is a book today, ship today. All in stock orders placed before 4 p.m. EST will ship same day.
- JRM can expedite shipments (Next Day, 2-day, 3-day) upon request.
- JRM has relationships with several LTL providers for orders that ship by pallet.

International Orders

- All International orders ship according to customer request with the necessary customer instructions to clear customs.
- JRM has relationships with several International freight providers to find the best possible rates for your area.
- International customers can schedule their own freight pick-up

Payments

We accept major credit cards, Visa, Mastercard and American Express. For lines of credit and terms, please contact your JRM Distributor, or call JRM directly.

WARRANTY INFORMATION

JRM products are made of the very finest materials available and are warranted against any defect in manufacturing or materials. JRM DILLENNIUM® top-eject and side-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. "Uniform wear" means that the wear pattern is uniform on all sides of the tine indicating proper machine timing.

VERY IMPORTANT: ALL RETURNS FOR JRM INFINITY® REELS MUST BE RETURNED WITHIN 3 MONTHS OF PURCHASE, AND MUST BE RETURNED IN ORIGINAL PACKAGING, OR IT WILL VOID THE WARRANTY. WARRANTY CANNOT BE DETERMINED WITHOUT PHYSICAL INSPECTION.

ALL PRODUCTS MUST BE RECEIVED BY JRM WITHIN 90 DAYS OF ORIGINAL INVOICE DATE TO BE CONSIDERED FOR POSSIBLE REFUND.

HOW TO REQUEST A RETURN AUTHORIZATION:

- Contact JRM directly or contact your authorized JRM distributor to request a return authorization (RMA).
- Once an RMA is requested, JRM will email a Return Authorization. An RMA number will be included. Please write this number on the box you are returning for expedient processing.
- Customers are responsible for getting product(s) back to JRM for credit at your own expense.
- Call Tags and labels can only be issued for defective parts or JRM-related issues.
- All returned parts will be inspected to determine whether a credit will be issued. Some products are not eligible for return.
- All returns accompanied by a replacement order of equal value will not be charged a re-stocking fee.

RETURN AUTHORIZATION REQUESTS

Return To:

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

A 15% RESTOCKING FEE WILL BE APPLIED TO ALL RETURN REQUESTS THAT ARE NOT ACCOMPANIED BY A REPLACEMENT ORDER OF EQUAL VALUE.

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.

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. 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 tines significantly faster and increase the 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.

Timing Problems

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

FIG. #1



JRM Normal Wear

A JRM Dilleonium® tine with normal wear after 18 greens



OEM Normal Wear

OEM conventional tine with normal wear in rocky turf



JRM Inc. Authorized International Distributors

Distributors Subject to change.
Additional Dealers needed worldwide.
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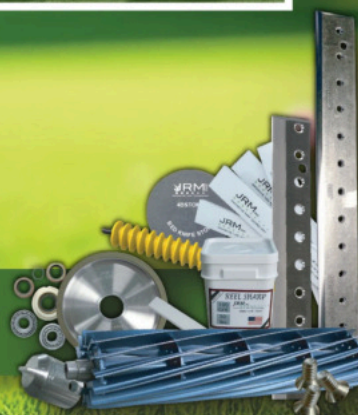
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