

It's **All About** *the* **Greens!**



Patent Pending

Brush Greens
Incorporate Top Dressing
Pulverize Aeration Cores

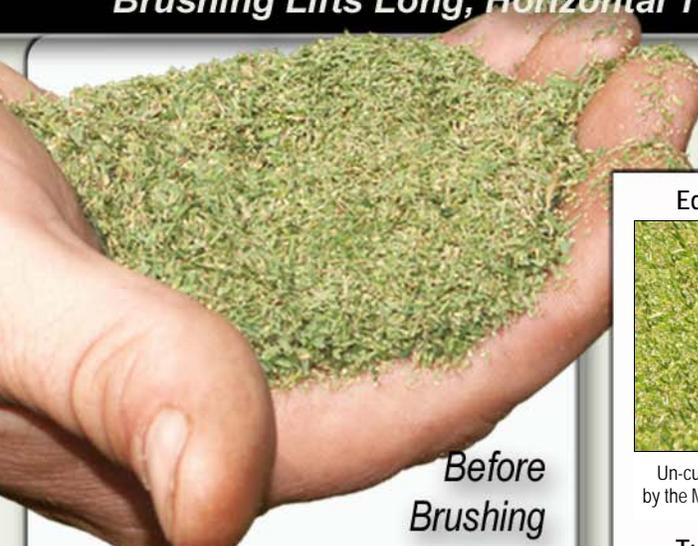
MG72 Multi Groomer

Improve Ball Roll
Encourage Vertical Growth
Improve Cutting Height
Reduce Turf Grain or "memory" that develops from constant mowing and rolling.
Helps Reduce Verti-Cut Frequency
Promote Green Health
Reduce Stress

"There's Simply No Other Machine Like It"

Benefits of Brushing Greens Before Mowing

Brushing Lifts Long, Horizontal Turf Blades for More Accurate Cutting Height!



Before Brushing

Normal Clippings. Bentgrass green was cut at .138 before brushing with the MG72. These clippings are of a finer texture than clippings that are removed after brushing. Even though the long horizontal blades of grass are always present the mower simply can't cut them. Brushing lifts long blades and allows the mower to trim them at the correct height.



Un-cut turf lifted This side has been cut after lifting turf.

Turf Blades are Lifted. Long blades were present but unable to be cut. The right side has been cut after brushing.



After Brushing

Long, Coarse Clippings. Green mowed at the same height as first mowing. Brushing lifted the long blades that were growing horizontally so they could be cut at the intended height. Old, dead turf and other debris also loosened and removed by the mower. A consistent brushing program with the MG72 Multi Groomer will continue to improve density and trueness of ball roll.

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Demonstrating the Benefits of Brushing with the MG72



For Demonstrating the results of brushing greens and the effectiveness of the MG72 Multi Groomer a green is mowed three times and brushed twice to compare clippings removal. Mow at normal height, and keep clippings from each cutting. After each brushing/mowing sequence compare the amount and composition of the clippings that are removed.

It's possible (as in this example) that the volume of clippings from the 2nd and 3rd cuttings will be equal, or even greater volume, than the 1st mowing. This is because the MG72 lifts the long, horizontal turf blades so they can be cut. It also loosens old, dead turf fibers and other imbedded debris which are removed when mowing.

Brushing greens one to three times a week on a consistent basis before mowing will improve consistency of ball roll, encourage vertical growth of the turf, increase density, improve green health, reduce grain, reduce stress, and remove dead turf fibers and other debris, etc.

Mow 1st Time, normal height, and keep clippings.

Brush the Green (see diagram)

Mow 2nd Time - normal height and keep clippings. (Mow at 90 degrees to brushing angle)

Brush the Green (see diagram)

Mow 3rd Time - normal height and keep clippings. (Mow at 90 degrees to brushing angle)

Common Results of Demonstration:

The 1st Cutting will look normal and will be a fine texture. Then, notice the large volume of clippings from the 2nd and 3rd cuttings. The brush lifted the long, coarser, horizontal blades making them easier to cut. The clippings also include old, dead, turf and other imbedded material loosened by the brush. This process opens area for new turf to grow and encourages an increase in density.



The truest ball roll is produced on turf that is **Dense, Healthy and has Turf Blades Growing Vertically.**



Improve Ball Roll.
Improve Mowing Quality & Consistency of Cutting Height.

Reduce Stress and Promote Green Health.
Reduce Turf Grain that develops from constant mowing, rolling, etc.

Reduce the Frequency of Vertic-cutting.
Disperse Dew Quickly & Easily.

Did You Know: When the PGA commits to a course for an event they inspect the course months in advance and almost always insist they start a brushing program to obtain optimal Ball Roll. The USGA understands the advantages of brushing greens, and they know that the benefits take time to develop.



Brushing Direction

Stay on the green at all times when brushing so you don't drag debris onto the green when re-entering.

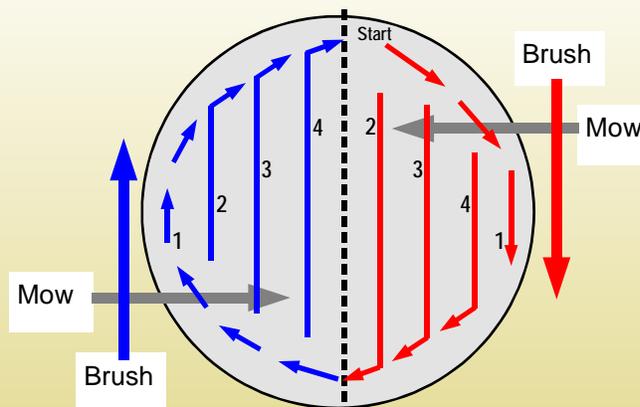
Split the green in two halves, and groom half in one direction and the other half in the opposite direction. In future brushing and mowing sessions you should alternate directions just like you do when mowing.

Mowing at a 90 Degree Angle to the Brush/Groom angle will achieve the most consistent Direction of Cut with the mower.

Mowing Against the Grain of the Brush is the Most Aggressive Direction of Cut (removes more clippings).

Mowing With the Grain of the Brush is the Least Aggressive Direction of Cut (removes less clippings).

Brushing - Mowing Direction Example of Mowing at 90 Degree Angle to Brushing Direction



Why Greens Need to be Brushed. Characteristics of Greens Turf Varieties.

- A) **Horizontal Growth.** Greens Turf Varieties naturally want to grow horizontally (or lay flat).
- B) **Grass Blades Grow Longer than Desired.** Left to grow horizontally, blades that lay flat grow much longer.
- C) **Inhibit Density of Turf.** Horizontal blades inhibit growth of new, younger, more vibrant blades. Even though a greens mower might be set to .125" cutting height, these long blades lay too flat to be cut.
- D) **Older blades of turf are more susceptible to disease than their younger counterparts.**
- E) **Inconsistent Turf Lengths = Inconsistent Ball Roll.** Turf consists of short vertical blades (desired), longer flat blades (undesirable), old dead turf and imbedded debris. The ball isn't rolling over consistent turf blades. This inconsistent mixture is less healthy, creates a false ball speed and an inconsistent putting surface. Optimal ball roll is not achieved.
- F) **Horizontal blades artificially raise green speed.** A ball rolling down long flat blades has little resistance which creates a false green speed and inconsistent ball roll.
- G) **Rolling of greens can add to the natural sideways growth of the turf.** Rolling greens has it's advantages, but it can also encourage horizontal growth.
- H) **Greens Develop "Grain", or memory from constant mowing, rolling, etc.**

True Ball Roll & Healthy Turf

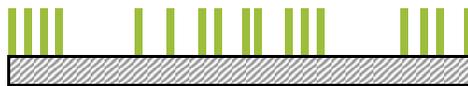
Un-brushed Greens.

Turf blades are allowed to grow horizontally. Blade length is inconsistent. Optimal density is inhibited, and the canopy has old dead turf and other debris. Ball roll is inconsistent, possibly bumpy or rough, and speed is artificial because the ball rolls over this variety of turf lengths and debris.



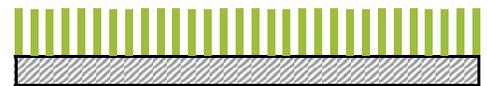
Early Stages of Brushing.

Long blades are lifted so the mower cuts them at the correct height. Old, dead turf and debris are loosened and removed by the mower. But, there are now voids left where the long flat blades inhibited density and where old dead turf and debris were removed. Ball roll and speed will still be inconsistent.



Optimal Ball Roll.

Consistent brushing helps keep turf blades growing vertically. Over time density increases. With a denser turf the ball can roll over the tips of the blades of grass, producing the optimal ball roll and healthier turf. Green speeds are more consistent and true.



More Uses:

MG72 - A Multi Purpose, Adjustable, Easy to Use Machine that Makes a Superintendent's Job Easier.

Saves Labor!

Course is "Ready to Play" Faster.



Pulverize Aeration Cores

"If you dread coring greens because of the hassle of breaking up the cores, then you'll be amazed by the MG72".

Breaks up cores. Mow right after pulverizing cores with a greens mower. No need to Verti-Cut or use Steel Drag Mats. Empty mower bins less often. Greatly reduces the total time needed for coring greens and incorporating top dressings. Adjustable Spring Tines de-thatch and let you obtain a verti-cutting effect, if desired. Course is Ready to Play faster. Use Less Top Dressing.



Incorporate Top Dressing

"Light, Medium, or Heavy Top Dressing - Nothing incorporates like the MG72".

It's 6 feet wide - so it's fast. It's adjustable. It's easy to use. And, It Won't Hop! Whether you completely or partially fill aeration holes after coring greens the MG72 is very efficient and easy to use when incorporating medium or heavy top dressing. It fills holes unlike any other tool or machine on the market.

It also incorporates light top dressing during the season quickly and easily.

Making a Superintendent's Job Easier.

Pulverize Aeration Cores & Incorporate Top Dressing

with the MG72 Multi Groomer and

Do the Math!

Save Labor!

Saves Labor!

"Takes the Dread out of Coring Greens"

When it's time to pull plugs on golf greens the MG72 Multi Groomer pulverizes aeration cores without needing to verti-cut or use any other tools like steel drag mats. It's guaranteed to cut labor costs. Pulverizes cores in 15 to 10 minutes per green. Mow right behind the MG72 to clean up the grass tufts and you're ready to Top Dress.

9 Hole Course + 1 Putting Green			
Old Way		MG72	
Function	Hrs.	Function	Hrs.
Core 10 Greens	7	Core 10 Greens	7
Mount Verticut Blades	2	Pulverize Cores with MG72	2
Verticut Cores	5		
Drag Cores <small>Drag Mat or Cocoa Mat</small>	4		
Mow	2	Mow	2
Top Dress	3	Top Dress	3
Incorporate <small>Drag Mat or Cocoa Mat</small>	4	MG72 Incorporate	2
Total Hrs. =	27	(10 Holes) Pulverize Cores & Incorporate with MG72 = 11 Less Hours of Labor	16

Hours of labor shown represent data compiled during actual coring and top dressing sessions. Results may vary due to type of coring equipment used, size of greens, weather conditions, etc.

18 Hole Course + 2 Putting Greens			
Old Way		MG72	
Function	Hrs.	Function	Hrs.
Core 20 Greens	14	Core 20 Greens	14
Mount Verticut Blades	2	Pulverize Cores with MG72	4
Verticut Cores	10		
Drag Cores <small>Drag Mat or Cocoa Mat</small>	8		
Mow	6	Mow	6
Top Dress	5	Top Dress	5
Incorporate <small>Drag Mat or Cocoa Mat</small>	8	MG72 Incorporate	4
Total Hrs. =	53	(20 Holes) Pulverize Cores & Incorporate with MG72 = 20 Less Hours of Labor	33

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