

Talon, Vent, & Other Variable Architecture Solid Tines, Why?

The goal in solid tine aerification is to promote gas and water (nutrient) exchange; and promote microbial activity. To achieve this it is best to have maximum wall surface and minimum footprint (trauma). The worst possible option is a round hole since it results in the minimum 'wall' and the maximum area (footprint).



Talon, Vent, & Other Variable Architecture Solid Tines, Why?

- ◆ Why redesign the standard round, solid tine?
- ◆ 11 Talon – 4 = 4 ¾”
5 = 6”
- ◆ 7 Vent – 4 = 4 ¾”
3 = 7”



Talon

- ◆ The Talon tine has been redesigned from the industry standard. It has greater strength *and* flexibility than any competitor.
- ◆ The Talon is made from a solid rod 4140 high carbon alloy / not by investment casting as all other similar tines are made.
- ◆ No Carbide tip – none needed!
Carbide tips have many disadvantages – tufting



Talon

- ◆ Construction will outlast any investment cast part. This is the most important unique selling point (USP) Get a comparative test against *any* competitor and win!
- ◆ CTI offers both a 1/2" *and* a 3/8" rib size Talon (JRM *does not* have a 3/8" Cross tine). This is a wonderful tine for seed-prep.
- ◆ A much better option than a 1/4" or 3/8" solid, same foot print but many times the wall area



Talon

- ◆ A 1/2" Talon has the surface area of a 7/8" solid round tine, with the trauma to the green of a 3/8" round resulting in more gas and water exchange.
- ◆ The CTI Talon is 6" long, the JRM Cross tine's maximum length is 5.5" so we have a 1/2" depth advantage.
- ◆ The "cross" type rib provides the root severing, fast healing, and a stronger root mass. The Talon is so benign that play may be resumed immediately after aerification with no negative effect on putting.

Talon

- ◆ The Talon is an excellent companion tine for hot, drought ravaged greens to help promote gas & water exchange and getting the limited water available into the root zone.
- ◆ The Talon is also excellent to use for seed prep; in conjunction with herbicides that have to be absorbed by the roots.
- ◆ The Talon is an excellent companion product for a complete aerification/nutrition program.

Talon

3/8" Talon

- ◆ 2 lengths
 - **4.75"** for Ryan/Jake, GA24 & GA30 - 1/2" mount required and old Toro Greens machines - 3/8" mount required
 - **6"** for newer Toro 648 & Deere 800 - 3/8" mount required for Quad block

Talon

1/2" Talon

- ◆ 2 lengths
- ◆ **4.75"** for Ryan/Jake, GA24 & GA30 - 1/2" mount required for Quad Block and old Toro Greens machines - 3/8" mount for Quad block
 - 3/4" mount available for standard blocks on Toro, Deere, & some Ryan/Jake. 5/8" also available for Ryan/Jake
- ◆ **6"** for newer Toro 648 & Deere 800 - 3/8" mount for Quad blocks
 - 3/4" mount available for standard blocks
 - Also available in 12mm mount for VERTI-DRAIN deep tine machines.

Vent Tines



- ◆ The Vent tines have also been redesigned from the industry standard. It has greater strength *and* flexibility than any competitor.
- ◆ The Vent is also made from a solid rod 4140 high carbon alloy / not by investment casting as all other similar tines are made.

Vent Tines

- ◆ The Vent tine design is recommended by Dr. Milt C. Engelke from Texas A&M. His studies have shown that the holes punched with a Vent style tine will stay open up to three weeks – continuing to promote gas & water exchange. He also suggests frequent ‘venting’ (his term) as a way to promote healthy greens.

Vent Tines

- ◆ As with the Talon tine, the Vent tine is so benign that play may be resumed immediately after aerification with no negative effect on putting.
- ◆ Many customers have adopted the Vent tine as their “Swiss Army Knife” (all purpose) solid tine and keep it mounted on their aerifiers all the time. That way they can send them out to ‘punch’ any problem areas, such as at the end of a cart path.
- ◆ The Vent tine is an excellent choice under drought conditions or when there is too much water or ice in order to promote adsorption.

Vent Tines

3/4" Vent Tine

- ◆ 2 lengths
- ◆ **4.75"** for Ryan/Jake, GA24 & GA30 - 1/2" mount required for Quad Block and old Toro Greens machines - 3/8" mount for Quad blocks
 - 5/8" mount available for Ryan/Jacobsen (standard blocks)
 - 3/4" mount available for standard blocks (all 3)
- ◆ **7"** available in both 3/4" and 7/8" mounts
 - Also available in 12mm mount for VERTI-DRAIN deep tine machines

Plan of Action

- ◆ Either the Talon *or* Vent would be a far better choice than *any* solid round tine. Both provide more wall surface with less trauma to the green or fairway.
- ◆ **New Vent Tine:** 2V-757037 7" Vent Tine w/ 3/8" mount