

# **Smithco** 50 1967 ★ 2017 YEARS



## **ATHLETIC FIELD EQUIPMENT**

[smithco.com](http://smithco.com)



## Our 50th Anniversary. Dedicated to Ted Smith.

Ted Smith, Founder  
1915-2013

“ He founded Smithco in 1967 in Wayne, Pa., and that same year launched the well-known Red Rider utility truck, a nifty vehicle to transport people and walking greens mowers.

‘He started Smithco at the age of 52 when most men were thinking about retirement,’ his son, Don Smith, tells GCM. ‘He always respected the golf course superintendent and only produced products using their input.’

Riding bunker rakes were another product that Ted Smith developed. Smithco has grown through the years, adding factories in Kansas and Wisconsin, where they manufacture sprayers, sweepers and greens rollers. The Red Rider, though, always seemed to be first and foremost in his heart.

‘The Red Rider definitely was his baby,’ Don Smith says. ‘In fact, in one of our last conversations while he was in the hospital I asked him if he had any new ideas for the company.’ His response was ‘Bring back the Red Rider.’

Smithco continues to keep running strong with Don Smith as president, Bill Kenney as vice president and 65 dedicated sales, engineering and administrative staff. ”

*Howard Richman, GCM associate editor*

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# SMITHCO Writes the Book on Infield Grooming

Over the last 20 years, the need to provide players with safer and more attractive fields at every level has taken on new meaning for grounds managers, coaches and park managers. This desire is being driven by a number of important factors; among the most common are rising player expectations, peer pressure, aesthetics and liability.

Smithco manufactures 7 different models of athletic infield groomers to fit almost any need or budget and to handle the day to day maintenance of your fields. And no one else offers the range and quality of implements. But no purchasing decision should be made without fully understanding the needs and objectives of your program.

First, it's important to understand that this is a "Grooming System" not a renovation tool. Ideally it should be used on a daily (or regular) basis to keep fields in safe, playable condition. Often, an athletic complex has received less than satisfactory attention for a considerable period of time. Fields don't become "bad" overnight, and it can be difficult to create a "perfect" surface after a few days of grooming. Although

dramatic changes and improvements can be brought about with Smithco infield groomers, it's usually better to accomplish small improvements every day over a period of several weeks. It's easier on the equipment, as well as giving the operators and supervisors time to gauge the results and implement additional efforts that may be required. At the end of that time, your fields should be in great shape.

Smithco products are designed to make infields, base paths and warning tracks consistently smooth, level and attractive while providing the surface with enough give to help prevent injuries from falls, slides or even bad hops.

As stated above, this need for safer and more playable fields is being driven at every level by players' expectations, peer pressure, aesthetics and liability from injuries.

Working with end users, consulting industry professionals and constant experimentation and research have helped us develop the finest field maintenance system in the business. Take a look for yourself as you browse through our catalog.

Download your copy of "The Illustrated Guide to Field Conditioning" at [Smithco.com](http://Smithco.com)

## Our Ball Field Maintenance System consists of 4 elements:

### 1. The PRIME MOVER

The powerful 2- or 3-wheel drive traction unit that hydraulically operates all rear-, center- and front-mounted implements.

### 2. The CENTER-MOUNTED IMPLEMENT

The ground-engaging attachments that can help dry a wet infield, level an uneven infield or relieve compaction of the infield surface.

### 3. The REAR-MOUNTED IMPLEMENT

The attachments that level, smooth and condition the skinned areas on the infield, base paths and warning track.

### 4. The FRONT-MOUNTED IMPLEMENT

A manual or hydraulically operated plow blade to level wear areas, move material away from fence lines, infield lip maintenance and assist in the application of infield amendments.





- Perfectly balanced for superior traction and stability.
- 5 models in both 2- or 3-wheel drive, 16 or 18 hp gasoline engines, 18 hp diesel engine, hydraulic or mechanical steering systems.
- “Star Trak” drive system on 3-wheel drive models for improved traction and increased transport speed.
- Hydraulic control of implements with unmatched ground clearance.
- Widest range of implements for grooming, rolling, aeration, renovation, construction, debris and core removal, topdressing and fertilizer applications and standing water management.
- ROPS with seat belt and work lights optional.

## SAND STAR HYDRAULIC DRIVE SERIES (Prime Movers)

2- or 3-wheel parallel hydraulic drive systems, “Speed Boss” adjustable speed grooming system, “Pro Pedal” engine throttle system, timed wheel motors and dual-drum parking brake. Engine options, hydraulic operation of implements, “Star Trak” 2- or 3- wheel drive system, mechanical or hydraulic steering, remote air intake and ROPS with seat belts as detailed below:

### 45-001 SAND-STAR I

2-wheel drive, 16 hp (12 kW) OHV Vanguard gasoline engine, hydraulic operation of rear-mounted implements and mechanical steering standard. Center Hydraulic Control and Remote Air Cleaner standard on all machines. NOTE: ROPS with seat belts are optional.

### 45-002 SAND-STAR II

3-wheel drive Smithco 2WD-3WD Traction Assist, 2-wheel drive selector for traction & increased transport speed, 18 hp (13 kW) OHV Vanguard gasoline engine. INCLUDES 45-017 Remote Cyclo-Pac Air Cleaner & 45-018 & Hydraulic Center Implement lift/lower, Factory Installed

### 45-003 SAND-STAR III

3-wheel drive Smithco 2WD-3WD Traction Assist, 2-wheel drive selector for traction & increased transport speed, Hydraulic Power Steering, 18 hp (13 kW) OHV Vanguard gasoline engine. INCLUDES 45-017 Remote Cyclo-Pac Air Cleaner & 45-018 & Hydraulic Center Implement lift/lower, Factory Installed

### NEW! 45-204 SAND-STAR IV

3-wheel drive Smithco SERIES-PARALLEL Traction Assist DRIVE, Hydraulic Power Steering, 18 hp (13 kW) OHV Vanguard gasoline engine. INCLUDES 45-017 Remote Cyclo-Pac Air Cleaner & 45-018 & Hydraulic Center Implement lift/lower, Factory Installed

### NEW! 45-205 SAND-STAR Diesel

3-wheel drive Smithco SERIES PARALLEL Traction Assist DRIVE, Hydraulic Power Steering, 18 hp (13 kW) Liquid-Cooled 3-cylinder Diesel Engine Tier 4 Compliant. INCLUDES 45-017 Remote Cyclo-Pac Air Cleaner & 45-018 & Hydraulic Center Implement lift/lower, Factory Installed

**Sand Star Hydraulic Series.**  
*Unmatched comfort, traction and stability.*



## SUPER STAR ELECTRIC DRIVE SERIES (Prime Movers)

### 8440 SUPER STAR 48-VOLT (Electric Power)

5 hp (3.75 kW) continuous-duty electric motor, 2-wheel drive, regenerative braking system, electric operation of rear and center implements, (4) 12-volt deep-cycle batteries (Trojan J185HC or equal) are required to be sourced locally. BATTERIES NOT INCLUDED. Requires charger selection. CHARGER NOT INCLUDED.

### 8450 SUPER STAR 48-VOLT (Electric Power)

Same as model 8440 above except AGM (Gel)-type BATTERIES ARE INCLUDED. Requires charger selection. CHARGER NOT INCLUDED. TIRE OPTION: Knobbed sand tires are standard equipment on Super Star. Turf Trac R/S tires available at no additional cost. Specify 3 each TURF TIRES on order.

## A New Concept in Sports Field Maintenance. The Affordable ZEE.

### Does what the competition can't do... at a very attractive price.

- Only the ZEE offers the power and torque of a 22 hp (16 kW) twin-cylinder gas engine.
- Only the ZEE offers a front-mounted plow and the widest range of implements of any manufacturer.
- Only the ZEE offers mid-mounted infield scarifiers with multiple blade options with either manual or electric/hydraulic operation.
- 3-wheel configuration. With CERTIFIED ROPS/seat belt.
- (2) 25 x 10 x 12 rear tires.
- Electric/hydraulic lift/lower for rear implement.



45-511 serrated rubber rake with optional finish brush

## The Smithco ELECTRIC Super Star 48-Volt AFC

- An "ECO-STAR" product, the 48-volt drive system utilizes industrial-grade 5 hp continuous duty, electric motor and self-diagnostic control system.
- Rear- and center-mounted implements are controlled from the operator's station using electric actuators.
- Battery pack incorporates (6) 8-volt lead acid or AGM deep-cycle batteries which provide extended run time to the prime mover on a single-charge cycle. Batteries are recharged overnight for the next day's work cycle.
- Noiseless, clean and efficient with reduced maintenance as engines and hydraulic systems are eliminated!

*Smithco began building electric-drive equipment in the early 1990s with the first electric-powered infield groomer. Today they are among the most productive, efficient, reliable products you can buy.*

*The ELECTRIC Super Star 48-Volt is the only electric infield groomer made. It uses heavy-duty industrial technology to bring you a conditioner that's rugged and reliable...yet whisper-quiet and easy to use.*



**Smithco's powerful and reliable Sand Stars and Super Stars prime movers provide years of service and many seasons of "perfectly playable" infields BUT it's the grooming tools and implements – front, center and rear mounted – that produce the results grounds managers and players are looking for!**

### REAR-MOUNTED

The rear-mounted implements put that final finish on the field. They all interchange quickly and effortlessly by means of the exclusive Smithco "Qwitch" instant attach system. All rear-mounted implements raise and lower hydraulically or electrically from the operator position.

**43-002 Flex Action Finisher with Finish Brush** smooths and levels the infield whether they are wet or dry.

**43-009 Smithco Cocoa Mat** puts the final finishing touch on fields that are already well groomed.

**43-010 Engine-Powered Blower** makes quick work of leaves and debris.

**26-008 Flex Finisher/Leveler with Drag Mat:** A variation on the Flex Action Finisher uses a small steel drag mat for the final finish.

**26-007 Infield Finisher:** (71"/180 cm) wide and the multi-section **Infield Rake:** (72"/183 cm) wide are used to put level and fine finishes on dry fields.

**43-170 Rahn Groomer:** A popular ball field tool in many areas is available with the exclusive "Qwitch".

**41-502 Earthway Rotary Spreader:** (78"/198 cm) wide; kit includes draw chain and rear-mounted carrying rack (80 lb. capacity).

**45-511 Serrated Rubber Rake** with optional finish brush.

**34-191 Box Scraper** (not shown)



Qwitch



Flex Action Finisher with Finish Brush



Smithco Cocoa Mat



Engine-Powered Blower



Flex Finisher/Leveler with Drag Mat



Infield Finisher



Infield Rake



Rahn Groomer



Earthway Rotary Spreader



Serrated Rubber Rake



Spring Tine Scarifier



Steel Knife Blade Scarifier



Nail Bar Scarifier



Front-Mounted Plow (60" width)



Front-Mounted Plow (40" width)

### MID-MOUNTED

These mount under the center of the machine and are designed to loosen just the top layer of the baseball/softball infield. Brings an increased level of safety to the players.

**42-341 Spring Tine Scarifier:** Chews into the field surface but provides increased operator safety by skimming over hidden items such as base spikes or pockets. It also protects your fine grass should the operator stray off of base paths.

**42-178/42-179 Steel Knife Blade Scarifier (with or without chisel points)** are the most aggressive scarifier tool. Proven on countless ball fields to provide the surface you need to protect your players.

**43-011 Nail Bar Scarifier:** The spikes are common nails available at any hardware store. Length adjusts as the spikes wear. Center mounting insures even pressure across its full width. Far superior to rear-mounted "nail drag" devices.

### FRONT-MOUNTED

**42-136/42-011, 43-013/43-490 and 43-003 (Hyd.)** The easiest to use plow blades ever. Level your field areas and fill in those low spots around home plate, bases and elsewhere. "Back blading" is a breeze. We offer two widths (40"/102 cm and 60"/152 cm) in both fixed position and adjustable angle blade models. 60" flat for surface work and 40" curved for aggressive digging.

**We offer over 25 different implements to meet every need when it comes to sports field care.**

# INFIELD GROOMER IMPLEMENTS



## TCV 5000 Ultra High-Capacity Vehicle

- 5,000-pound (2,275 kg) payload capacity.
- Hydrostatic drive with hydraulic dump system.
- 4-cylinder liquid -cooled 35.5 hp (26 kW) DIESEL engine. ROPS/seat belt system.
- Two seats. High flotation turf tires with low ground pressure/vehicle weight ratio.
- Hydraulic power steering.
- Cargo box options – gondola box, tailgate box or flatbed.



**TURF-CARE VEHICLE**

Move massive loads with no damage to turf. Carries 2.5 times the payload of other turf utility vehicles.



pictured with optional wide sideline boom and rear chemical application boom

## Super Liner

***The new Smithco Super Liner offers you precision lining, ease of operation and superior agitation for less. Compare the Super Liner to other liners in its class!***

- 16 hp (12kW) Briggs Vanguard twin-cylinder gasoline engine, electric start.
- Hydrostatic-drive prime mover using independent wheel motors to both rear traction tires. Forward and reverse speed controlled by hand lever to eliminate speed variances of foot-controlled drive systems on uneven, bumpy terrain.
- 50-gallon poly tank paint reservoir provides multi-field lining capacity without having to refill.
- Hypro piston diaphragm 6 gpm (22.7 lpm) spray pump provides adjustable pressure to 290 psi (20 bar) and agitation to the spray tank to keep paint/water mixture in suspension.
- Front- and side-mounted spray boxes are standard to accommodate both straight and circular paint lining.
- Oversize turf tires on both front steering wheels and rear traction wheels to smooth uneven terrain and provide suspension for the operator.
- Easy to use – easy to own!

Dollar for dollar, the best liner you can put on your field.

**LINER/MARKER**

## NEW! Sweep Star 60 Quad (gas)

- 31 HP (23 kW) Vanguard twin-cylinder OHV gasoline engine with double-action remote air intake system
- Hydrostatic-drive 4-wheel design with front leaf spring suspension, 3 cubic yard (2.3 cu M) high-lift dump debris hopper lifts to 74" (1.8 m).

- 60" (152 cm) wide sweeper head fitted with either a rubber finger reel or a nylon bristle brush reel for debris removal. Adjustable sweeping height, terrain-following sweeper head fitted with dual caster wheels.
- Hydraulic power steering.
- Rollover protective structure (ROPS) with operator seat belt.



## Sweep Star 60

***The Sweep Star 60 is a self-propelled, 3-wheel sweeper for quick-and-easy cleanup of playing fields, parks, school campuses, cemeteries or any large turf area. It is hydraulically driven and its tricycle design makes it extremely maneuverable around trees, fences, buildings or any other obstacle. The debris hopper raises to over 6" (1.8 m) for the easy deposit of debris in vehicles or refuse containers.***

- 31 hp air-cooled Vanguard twin-cylinder gasoline or 19.9 hp (15 kW) 3-cylinder diesel power.
- 3 cubic yard (2.3 cu M) debris hopper capacity.
- 60" (152 cm) wide, terrain-following sweeper head with a choice of rubber finger sweeping reel or nylon bristle brush sweeping reel.
- Safety equipment includes ROPS, seat belt, hillside angle gauge and fire extinguisher.
- High-back seat and tilt steering wheel provide operator comfort.
- Easy-to-reach hydraulic controls make operating all systems easy.



## Sweep Star 48

- Powerful 18 hp Briggs Vanguard twin-cylinder gasoline engine.
- 1.6 cubic yard (1.2 cu M) hydraulic high-lift dump debris hopper.
- 48" (122 cm) wide, terrain-following sweeper head with a choice of rubber finger sweeping reel or nylon bristle brush sweeping reel.
- Safety equipment includes ROPS, seat belts, hillside angle gauge and fire extinguisher.
- High-back seat and tilt steering provide extra operator comfort.
- Hydraulic controls conveniently located to operate lift/lower of sweeper head and debris hopper.

## Sweep Star V62

- Adjustable control console allows operator to control every function of the sweeper from the seat of the tow vehicle.
- Debris gets shredded by the steel impeller prior to entering the hopper for better compaction.
- 4 cubic yard (3 cu M) debris hopper capacity.
- 62" (158 cm) terrain-following sweeper head.
- 31 hp (23 kW) Vanguard twin-cylinder, gasoline engine.
- Mechanical-drive vacuum impeller, hydraulic-drive sweeper head.



## Sweep Star V72-PTO and V72-E Engine-Drive Big-Vac

- 7 cubic yard (6 cu M) debris hopper capacity.
- 72" (183 cm) terrain-following sweeper head.
- Tractor PTO drive (40 hp minimum).
- Mechanical-drive vacuum impeller.
- Hydraulic drive to rubber finger and verticut reels.
- Option of rubber finger reel or combination rubber finger/verticut reel sweeper heads.



Smithco offers a lineup of debris management products that lead the field in efficiency, quiet operation and versatility.



## Spray Star 1000

- 110-gal. (415 l) Smithco "Perfect Solution" elliptical polyethylene tank.
- Simple and reliable hydrostatic drive provides infinitely variable speed.
- 25 hp (19 kW) twin-cylinder gasoline engine.
- Hydraulic power steering and short wheel base offer extreme maneuverability.
- Positive ground speed control system assures even spray application.
- Extremely high-volume solid stainless steel centrifugal pump running at constant speed, provides the highest application rates plus consistently high agitation volume through the Smithco Quad Jet agitation system. Pump equipped with low-volume warning horn and automatic air bleed.
- Perfect application rates through a choice of 3 spray control systems (Raven SCS440 computerized spray control; standard electrical boom and pressure control; simple manual boom and pressure control).
- Safety for the operator, the environment and the players. Certified ROPS w/seat belt and (optional) Smithco Safe-Fill System.

DEDICATED SPRAY VEHICLES

## Spray Star 1750

### Now with 175-gal. (662 l) capacity tank

- Lightweight (10 psi) on turf.
- Highly maneuverable.
- Hydrostatic drive for infinitely variable ground speed.
- 31 hp (23 kW) twin-cylinder, air-cooled gasoline engine.
- 175-gal. (662 l) elliptical polyethylene tank.
- Extremely high-volume solid stainless steel centrifugal pump running at constant speed, provides the highest application rates plus consistently high agitation volume through the Smithco Quad-Jet Agitation System.
- Most economically dedicated spray vehicle built anywhere.
- Hydraulic power steering offers extreme maneuverability around the tightest greens, tees, bunkers and other areas requiring spray application.
- Positive ground speed-control system assures even spray application.
- Leak proof o-ring and clamp-style plumbing system construction with low-maintenance self-cleaning filter.



## Spray Star 2000

### The ONLY hydrostatic-drive midsize spray vehicle in the world.



- 175-gal. (662 l) Smithco fiberglass tank.
- Simple and reliable hydrostatic drive provides infinitely variable speed.
- Choice of engine power: 31 hp (23 kW) twin-cylinder gasoline, or 25 hp (19 kW) 3-cylinder liquid-cooled diesel engine.
- Hydraulic power steering and short wheel base offers extreme maneuverability.
- Positive ground speed control system assures even spray application.
- Extremely high-volume solid stainless steel centrifugal pump running at constant speed, provides the highest application rates plus consistently high agitation volume through the Smithco Quad Jet agitation system. Pump equipped with low-volume warning horn and automatic air bleed.
- Perfect application rates through a choice of 3 spray control systems (Raven SCS440 computerized spray control; standard electrical boom and pressure control).
- Safety for the operator, the environment and the players. Certified ROPS w/seat belts and (optional) Smithco Safe-Fill System.

## Spray Star 3180

### Power and extreme maneuverability in one package!

- 318-gal. (1,203 l) Smithco fiberglass tank.
- Simple and reliable hydrostatic drive provides infinitely variable speed.
- 35.5 hp (26 kW) 4-cylinder liquid-cooled diesel engine.
- Hydraulic power steering and short wheel base offer extreme maneuverability.
- Positive ground speed control system assures even spray application.
- Extremely high-volume solid stainless steel centrifugal pump running at constant speed, provides the highest application rates plus consistently high agitation volume through the Smithco Quad Jet agitation system. Pump equipped with low-volume warning horn and automatic air bleed.



- Perfect application rates through a choice of 3 spray control systems (Raven SCS440 computerized spray control; standard electrical boom and pressure control).
- Safety for the operator, the environment and the players. Certified ROPS w/seat belts and (optional) Smithco Safe-Fill System.

Designed for one thing: to deliver the precise application of liquid chemicals to fine turf.

Highly precise controls assure accurate application rates. Your first choice for safety and ecology.

## Smithco Ultra 10 and Ultra 15 Turf Rollers with Money-Saving Tow-Behind Design

The 5 gang Ultra 15 Turf Roller has a balanced hydraulic system to keep ground pressure even over its 15' swath. At 10 mph, the Ultra 15 will roll 18 acres an hour – three times as fast as mowing! Our 3 gang Ultra 10 Fairway Roller has a 10' swath to provide 12 acres an hour of productivity at 10 mph – twice as fast as mowing! Ultra 10 offers either tow vehicle remote hydraulics for wing roller fold/unfold and transport lift/lower or self-contained integrated electric/hydraulic system for use with a wider variety of towing options. And to provide even more versatility, optional spiker unit (Ultra 10 only) can be fitted in as little as 15 minutes, giving a 3" X 3" pattern that can go as deep as 1 1/8". The Ultra 15 has a 150-gallon water ballast tank while the Ultra 10 uses a 100-gallon tank.



### TURF ROLLERS

#### 12-500 ULTRA-10-SC

10' (3 m) wide, self-contained turf roller with integrated electric/hydraulic power system to fold wing rollers and lift/lower for transport, 100 gal. (379 l) ballast tank, battery charge cable, roller scrapers.

#### 12-501 ULTRA-10-TV

10' (3 m) wide turf roller, electric/hydraulic power system to fold wing rollers. 100 gal. (379 l) ballast tank. Hydraulic power for transport lift/lower supplied by tow vehicle. roller scrapers.

#### 12-750 ULTRA-15-SC

15' swath. Remote hydraulics for wing roller fold/unfold and transport lift/lower or self-contained integrated electric/hydraulic system for use with a wider variety of towing options. 150-gallon water ballast tank.

#### 12-502 SPIKER REELS for 12-500, 12-501

Optional spiker heads can be fitted in as little as 15 minutes. Makes aerating quick and easy.



Ultra 15 Turf Roller

**TESTS OVER A TWO-YEAR PERIOD INDICATE INCREASED ROLLING CAN REDUCE FUNGICIDE APPLICATIONS AN AVERAGE OF 50%.**

*–University of Massachusetts, Stockbridge School of Agriculture*



Jay Popko and Geunhwa Jung, Stockbridge School of Agriculture

#### TEST SUMMARY

- Plots were unrolled.
- Rolled 3 times/week.
- Rolled 4 times/week (Double roll 2 days).
- Rolled 6 times/week (Double roll 3 days).

Different fungicide spray schedules were tested at the Stockbridge School of Agriculture (Threshold vs Calendar at 21-day intervals) and initial results indicate rolling can reduce fungicide applications if threshold-based spray programs are used by an average of 50%. This should be a major cost reduction if further test plots confirm this. Testing will continue next year on fungicide application as well as the effectiveness of rolling at reducing dollar spot, thatch and clipping yields.



## Aer-8 Aerifier

### *Rolling Aeration Taken to a New Level*

- Available in 60" (152 cm) and 78" (198 cm) widths, either pull-type or 3-point hitch mounted frame styles. The pull-type kit can be outfitted with hydraulic lines directly to the tow vehicle or with an electric/hydraulic power pack. The power pack includes a remote control to the driver's seat and a battery-charging cable to maintain charge in the battery through repeated use.
- The Smithco Aer-8 Aerifier includes electrically welded high-strength agricultural steel frame and horizontal water ballast tank.
- Four-tine reel options to quickly change your aeration patterns as weather and turf conditions dictate.



## **Smithco Will Help Stretch Your Budget.**

Everybody wants to get more for their money. And Smithco has products and financial plans to help you do just that.

For starters the products we make offer you more. The new Sand Star ZEE, our most affordable bunker rake, is a good example with many important features you'll need which the competition doesn't have.

Our new Fairway Ultra 10 Roller with its tow-behind design costs only a fraction of self-contained models. Plus rolling your fairways can reduce your frequency of mowing, costs of labor, fuel and wear and tear on machinery.

And our Star Command Spray System offers you an exceptional return on investment by eliminating over-spraying, spraying outside your target area and doing it all substantially faster. You can save up to 25% annually on chemicals and up to 33% on labor costs.

Add to all that our special financial programs. Our experts will compare the advantages of leasing and owning so you can determine what's right for you. Special financing is just another reason to invest in Smithco products. Come to our website at [Smithco.com](http://Smithco.com) and check us out.

***Smithco***

***Smithco.com***