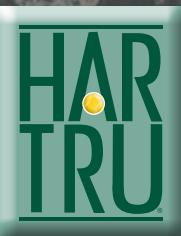
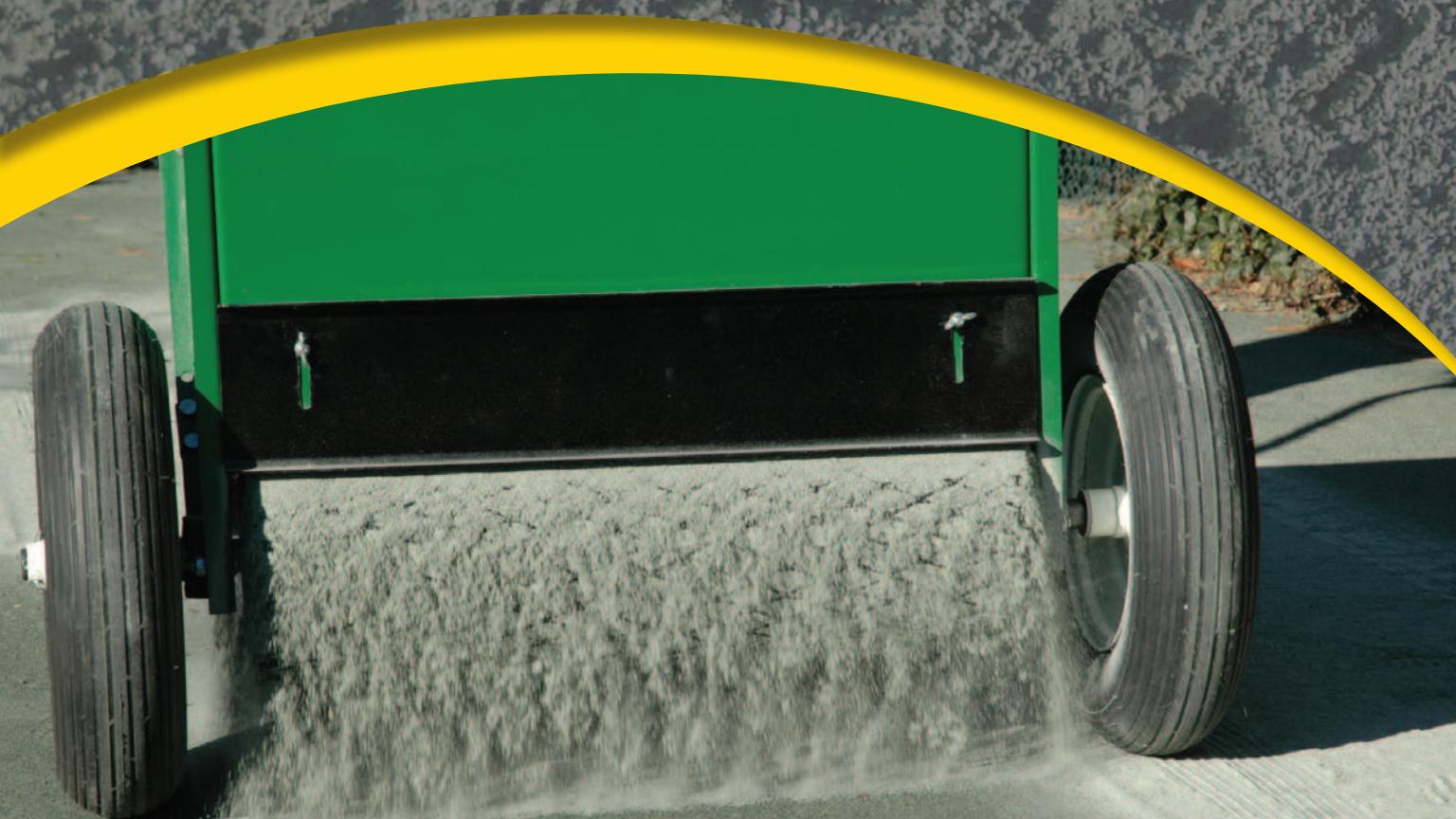


2011 Reconditioning Catalog



Topics Inside:

- The Benefits of Annual Reconditioning
- Using a Spreader vs. Spreading by Hand
- Strategies for Laying Tapes
- The Power of Scarification



1.877.4.HAR-TRU



Welcome to our 1st annual reconditioning newsletter and catalog. The objective of this issue is to share the latest information on methods for reconditioning courts and products that can make the process easier and more effective.

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RECONDITIONING: It's a lot of Work but Offers Significant Short and Long Term Benefits

It's difficult to go through the process of reconditioning your court without wondering if it's worth it, particularly if you are the one doing the reconditioning. Why scrape off all that material when it looks just fine? What's the point of adding less than 1/8th of an inch of new Har-Tru? Just how much impact could that have? Why replace playing lines that are just as effective at marking out the boundaries of play as they were at the end of last year? While these are very valid questions there are extremely good reasons that the process of reconditioning Har-Tru courts has been followed for more than 50 years with little variation. Let's take a look at why.

When you work in this industry you manage an extremely precious commodity - you manage people's leisure time. More than ever leisure time is scarce

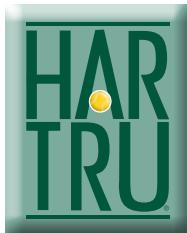
and people want the experience to be exceptional. If you own a Harley Davidson and can only ride it every other Saturday you want it purring like a kitten when you turn the key. The same is true of the tennis experience. When a player shows up for that 1-2 hours they have available in a week, they want the court to be clean and dry, they want the bounce and footing to be true and they want to walk away feeling like a champion. The time and energy spent reconditioning your court goes a long way to making this happen, so it's very important to be consistent and thorough.

Reconditioning can be divided into 4 segments - ***cleaning, leveling, top dressing and laying lines.*** Let's take a closer look at what happens in each segment and the benefit conferred to court owners, court managers and tennis players.



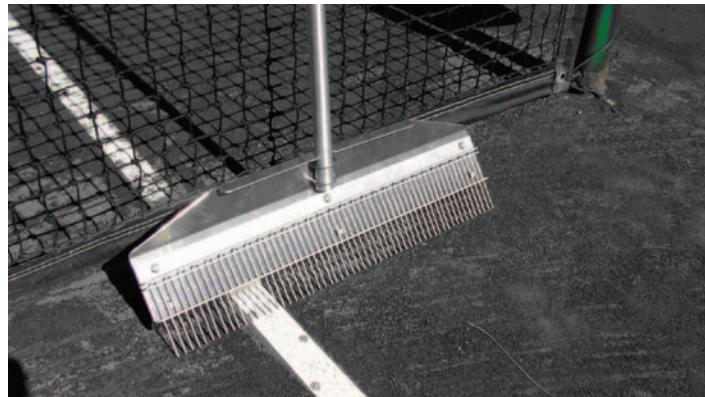
CLEANING

Cleaning the court surface is essential for maintaining safe traction and consistent ball bounce. It starts with a light scraping of the loose granular surface material. The objective is to remove the larger granules of Har-Tru as these build up over time under normal match and weather conditions. Scraping should be done with the line tapes removed using the flat side of a Lute Scarifier. Cleaning the edges of the court is particularly important as this low traffic area is highly susceptible to the growth of weeds, moss and algae. Aggressive scraping with the serrated edge of the Lute Scarifier or a 24" Gator Rake will pull the growth out so it can be scraped into piles and removed. This is the absolute best time to eliminate all growth and will reduce labor and hassle during the playing season.



HAND GATOR RAKE

SCR1324 – 24"



The 24" wide hand rake is designed for agitating the court surface along the fence line to remove and prevent moss and other growth. It is also very effective when used on small hard-pan areas. It is very aggressive and chews up the court surface with very little effort.



MOSS BUSTER

SOLMOS100 - 1 gallon

SOLMOS250 - 2.5 gallon

SOLMOS320 - 32 ounces

Har-Tru is excited about the latest and best solution for moss. Moss Buster desiccates all types of moss. Moss Buster is an all natural product that was researched at Iowa State University and solves moss problems fast. Available in 32-oz., 1-gallon and 2.5-gallon containers.



ROUND-UP PRO HERBICIDE

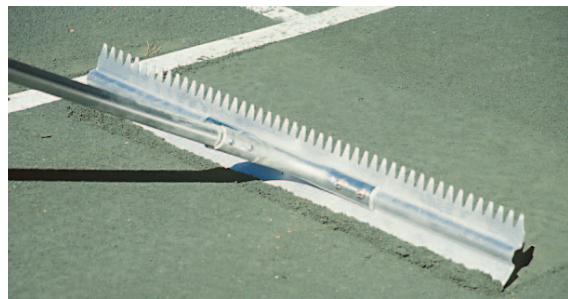
SOLPRO

Round-up ProDry herbicide is sold for the control of grassy and broadleaf weeds growing on the tennis court. The recommendation is to use one 1.5 oz. packet with 1 gallon of water in our Lawn Wheelie motorless sprayer.

LUTE/SCARIFIER

SCR04 - 30"

SCR05 - 48"



The lute/scarifier is two tools in one – made of all-aluminum for scarifying, leveling and removing loose granules. It is strong and sturdy, yet light enough to use all day and excellent for spreading new material during top-dressing. The concave shape of the 30"-wide blade allows the tool to “float” along the surface, without grabbing or digging in. Also available in 48" width.

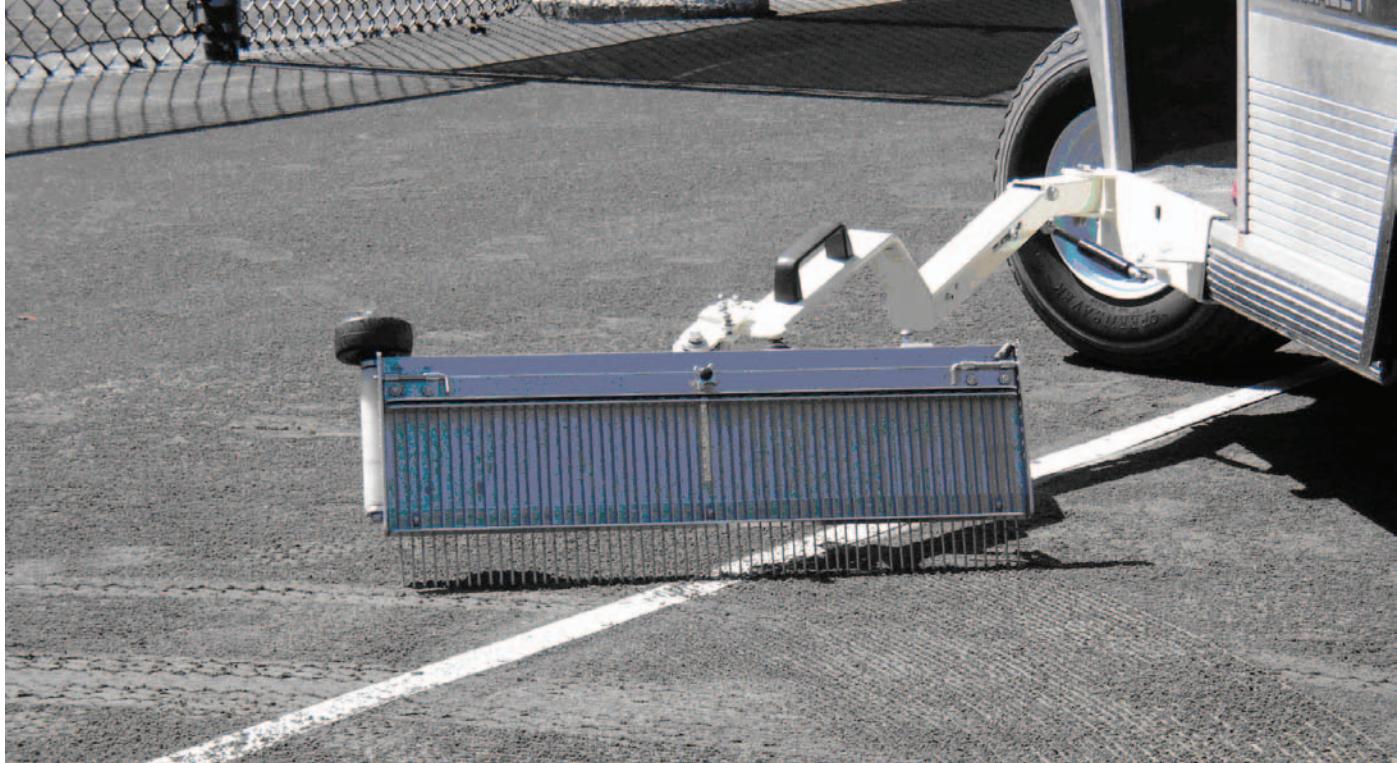
LAWN WHEELIE



SOLLWH250 - 2.5 gallon

SOLLWH600 - 6 gallon

The Lawn Wheelie is a motorless weed sprayer that delivers a 36" fan of solution at a rate of approximately 1000 sq. ft. per gallon. It features a 2.5-gallon tank, spray nozzle, shut-off valve and a ground-driven pumping system that adjusts to the speed the unit is pushed. It is a must for spring top-dressing.

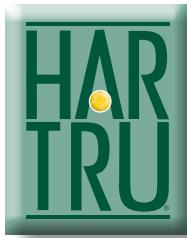


LEVELING

A brand new court is incredibly level, varying less than 1/8th of an inch 10 feet in any direction. As tennis players move about on the court the high play areas get worn down faster than the rest of the surface and this creates depressions that hold water and are slow to dry. Where a depression meets up with a line tape – such as at the baseline – it can also cause bad bounces and pose a trip hazard. Sprinklers also contribute to low areas. The pattern of a sprinkler head crossing the same territory every day and night throughout the season will gradually wash away material in these locations. Meanwhile, the playing lines move the other direction. Sweeping the court each day pushes material under the tapes and heavy rain causes washouts behind the tapes. By the end of the season the lines are noticeably higher than the playing surface and this causes bad bounces and can make players trip. The reconditioning process is the optimal time to scrape down high areas and patch

depressions, thereby bringing the surface back to level. A level court drains better, plays better and is easier to maintain.

The key to leveling the court lies in scarification and patching. Scarification can be done with a variety of tools but generally speaking, a court surface that is harder and/or more uneven will benefit from the use of more aggressive tools, which cut further into the surface and move more material around. Scarification also helps blend any new material you add while patching or top dressing with the existing court material so it's a critical part of the process. Patching depressions is performed by pulling material in front of a long straight edge such as an extension ladder. Once an even layer is applied it gets watered and rolled until firm.



TIP

The Power of Scarification

The concept of adding new Har-Tru to an existing court seems pretty straight forward but it's not. The existing court has a layer of compacted Har-Tru of a subtly different gradation than what is found in a new

bag. This can cause the two layers to resist coming together and create significant surface issues during the playing season. As it says on the Har-Tru bag, scarify thoroughly prior to top dressing. This way the two layers will blend together quickly and seamlessly.

COURT DEVIL

SCR01

Designed to agitate the court surface without removing or damaging existing line tapes. It helps prevent and break up mineral deposits, mold, algae and fungus that may tighten the court surface. The court is scarified with circular steel blades mounted on free-turning axles. Weight 105 lbs., width 48".



TOW MODEL GATOR RAKE

SCR12TO



The Har-Tru Gator Rake is one of the finest grooming and leveling tools we have ever offered. The product is all aluminum and stainless steel. The tine system is composed of stainless steel rods less than 1/8th inch in diameter that puts just the right bite into your court surface, leaving a finely groomed, highly manicured appearance. The Har-Tru Gator Rake can be towed behind a cart or pulled by hand depending on your needs. Weight can be added to the top of the rake on special weight towers (must be purchased separately) to increase the aggressiveness of the tool and help it dig into hard packed courts, regenerating loose sliding material. It's also ideal for leveling and scarifying Har-Tru courts during reconditioning.

TOW SCARIFIER

SCR03

SCR03NAI - Replacement nails



This 48"-wide heavy-duty tow model scarifier is truly a workhorse for loosening the top surface on Har-Tru courts. It is especially good for indoor courts and sun-baked southern courts with excess calcium build up. The unit is heavy enough to allow its two rows of case-hardened nails to really penetrate the surface.

- Staggered nails on each row prevent clumps.
- Sized to fit between the alley tape.
- Levered wheels lift unit over tapes so tapes can be left in place.
- Adjustable tow hitch fits most utility vehicles.
- Adjustable steel rails lower nails as they wear down.
- Removable steel plate allows for easy nail replacement.
- 40D nails – 3/16" diameter by 5" long



TOP DRESSING

Top dressing is the process of adding new material to an existing court. A court is built with 40 tons of Har-Tru, which amounts to a 1" surface. Studying surface loss over time has shown that over the course of a playing season a court loses 1-4 tons of Har-Tru, depending on the environment, the amount of play and the irrigation system. While losing 1/10th of an inch seems fairly innocuous, in just two seasons it is possible to lose ¼" of your original court. Reducing the depth of your court will cause it to dry out faster and will allow stone from the base layers to start working its way onto the surface, creating bad bounces. And it is vastly simpler to add 1-4 tons a year than it is to add greater amounts as heavy top dressings are difficult to do while maintaining the grade of the court. So top dress annually to lengthen the life of your court.



TIP

Use a Spreader or Spread by Hand

Many wonder whether using a spreader makes the top dressing process easier than spreading the Har-Tru by hand using a Lute Scarifier. It is not abundantly clear that one method is faster than the other, and opinions are divided on which is easier. Here are a few thoughts that might help you decide what is best for your situation.

- Top dressing by hand goes extremely quickly when there are many hands to help. Use of a spreader in this situation may in fact keep many standing around while one person pushes a spreader. A team of just two or three on the other hand can develop a nice rhythm with a hand or tow spreader.
- On a large battery of courts a spreader will be faster and less effort, particularly if you use a tow model. For one or two court batteries the hand method is probably just as fast and just as easy.
- A spreader is nice to use when the court is wet as you don't have to worry about the Har-Tru clumping before you get it spread.
- A spreader provides more even distribution and consequently requires less brushing upon completion.

TRU-FLOW TOP-DRESSERS

SPRTF24 - 24" Hand Spreader

SPRTF36 - 36" Tow Spreader

SPRTF54 - 54" Tow Spreader



These three top-dressing units offer unmatched performance in distributing Har-Tru, as well as, rubber and other materials for synthetic grass, natural turf and running tracks.

Tru-Flow spreaders handle the toughest of conditions. For top-dressing to be effective, it needs to be applied as uniformly as possible. Tru-Flow's unique 8" dispersal drum is encased in expanded metal. Conventional drop spreaders rely on gravity to help release the Har-Tru from its hopper, but the Tru-Flow pulls the surface out of the hopper and on to the court with unmatched consistency.

A 24" hand model will hold up to four 80-lb. bags of Har-Tru and the 36" tow model will hold eight 80-lb. bags, while the 54" tow model handles a whopping twelve 80-lb. bags of Har-Tru!

In addition, Tru-Flow's ground-driven systems mean that there are no hydraulics, pumps or engines to malfunction, leaving no possibility of oil leaks to leave tracks on your court, green or synthetic turf. Simply bolt on the handle and you are ready to start your pre-season renovation.

MAGNESIUM/CALCIUM CHLORIDE

For dust control and moisture retention.

The safest option for the environment. Magnesium Chloride is available in 50-lb. bags.

SOLMAGTCM



Calcium Chloride is available in 50-lb. bags.

SOLCALTMC

SOLCALWOT



TIP

Experience has shown that adding 100 LBS of Magnesium or Calcium Chloride to a court during reconditioning helps it set up faster and firmer.



LAYING NEW LINES

Putting down new lines is undoubtedly the most time consuming part of the reconditioning process. There are 2000 nails in one set of tapes! We discussed previously how the tapes rise during the season and this cannot be addressed effectively without removal. Additionally, the texture/pattern on the surface of the tapes gets worn off during play. It happens slowly and subtly but a worn tape is extremely slippery, especially when it is slightly wet. It also creates variability in the bounce of the ball. Replacing the playing lines annually definitely improves the playing experience and is worth the investment.



TIP

Strategies for Laying Tapes

- Using Tape Layout Cables can significantly decrease the time it takes to find the corners and mark where all the lines go.
- Snapping a string line for the singles and doubles sidelines will go a long way toward keeping those lines straight as you nail them.

- If you are doing courts side by side be sure to run a string line from baseline to baseline to be sure that all the courts line up evenly.
- When nailing by hand, avoid nailing the nails all the way into the court surface. Nail them within $\frac{1}{4}$ " and then use a roller to compress them the rest of the way. This will help avoid making indentations in the surface.

HAR-TRU DESIGNER TAPE

TAPDEP (punched)

TAPDEU (unpunched)



This Designer tape is the best line tape you can buy for your court, with its sure-spin feature and unique raised pattern specifically designed to allow consistent ball spin and speed at any angle the ball strikes the tape. It offers easy cleaning, long life, and stability, and will not yellow with age. The webbing is made from the finest synthetics available with a pure PVC coating. It is available with or without pre-formed nail holes.

NAILS

NALAL21208 - 8-lb. Box

NALAL21225 - 25-lb. Box

2-1/2" aluminum nails (large head), 8 lbs. per doubles court. For regular Har-Tru courts. Available in 8-lb. or 25-lb. boxes.

HAR-TRU CLASSIC TAPE

TAPCLP



The same top-quality webbing and vinyl coating used in our Designer line tape is also the basis for our Har-Tru Classic tape. It has an even-textured, rubberized coating that combines good ball bounce, long life and easy cleaning. Available with pre-formed nail holes. The Har-Tru Classic tape represents affordable quality in a line tape.



HAR-TRU HERRINGBONE TAPE

TAPHBP (punched)

TAPHBU (unpunched)



The Har-Tru Herringbone tape is designed to ensure consistent ball spin and speed at any angle the ball strikes the tape. It is easy to install, made of long-lasting vinyl, meets specifications, cleans easily, stays white longer and has pre-formed holes for nailing ease. It has the same long-life quality as the Har-Tru Classic tape, but with added texture. The balance of quality construction and player benefits make the Herringbone tape the best tape value.

NALAL30011 - 11-lb. Box

NALAL30025 - 25-lb. Box

3" aluminum nails (large head), 11 lbs. per doubles court.

Great

for sub-surface irrigated courts. Available in 11-lb. or 25-lb. boxes.

NALCO21225 - 25-lb. Box

2-1/2" copper nails (large head) for cinder base courts, 25 lbs. per doubles court. Available in 25-lb. boxes only.

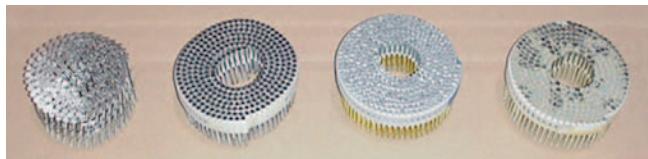
KNEE NAILER

TLAKN01



The Knee Nailer was designed to reduce the grind of hand nailing. It is constructed of highly durable 11 gauge steel, stable wheels and a removable, 1" heavy-density foam pad to kneel on. The top of the unit is 3-3/8" off the ground. By placing one knee on the cushioned surface, an individual can roll comfortably along the length of the line without having to constantly get up and down. With 2000 nails in one court, this little accessory provides big relief.

NAIL COILS



NALSS214M

Stainless steel nails for Duo-Fast nail gun 2-1/4"

NALGA214M

Galvanized nails for Duo-Fast nail gun 2-1/4"

NALAL214M

Aluminum nails for Duo-Fast nail gun 2-1/4"

NALSS238M

Stainless steel, ringshank nails for SENCO nail gun 2-3/8"

NALGA238M

Galvanized, ringshank nails for SENCO nail gun 2-3/8"

TAPE STRETCHER

TLATS

The tape stretcher ratchet has a 2"-wide slot to insert tape for quick and easy installation of straight line tapes by one person. The use of a leather pad and support strap give a stable low base, allowing the ratchet to pull the tape straight and taut just above the surface so it can be nailed securely. The tape stretcher will improve the straightness of your tape, as well as decrease your installation time. It is especially helpful with old tapes.



TAPE LAYING KIT

TLATK

Conveniently packaged in a Lawn Buddy, our handy tape-laying kit contains everything you will need for laying tapes: 100' tape measure, hammer, utility knife, kneepads and a ball of string. The Lawn Buddy is on wheels, easy to pull along and great to sit on while nailing tapes.



TAPE LAYOUT CABLES

TLALC



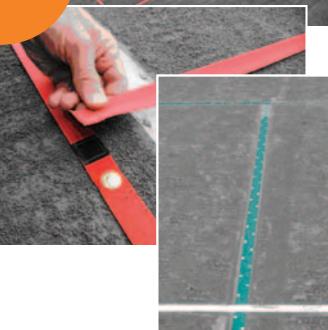
Line tape layout is a snap with the court cables from Har-Tru. One person can locate pivot points and corners quickly, saving time and effort. Instructions included.

10 & UNDER TENNIS LINES

Har-Tru has developed the first set of temporary and permanent lines specifically for Har-Tru courts. The temporary lines can be installed by one person in 5-7 minutes. The permanent lines are colored dark green to blend into the Har-Tru surface.



PATENT PENDING



36' Temporary Lines – TAPQS36

Our 36' temporary lines come in red, to match the red ball used on 36' courts and to show up sharply against the Har-Tru green. The system comes in two pieces, an outside rectangle and an inside I. The pieces are attached together with Velcro and secured to the court surfaces with just 10 nails. Nails are included with the lines. Lines are 1" wide.

60' Temporary Lines – TAPQS60

These lines are identical to the 36' lines except they are colored orange to match the orange ball used in 60' tennis. 10 nails (included) secure these to the court. There are no Velcro connections with the 60' lines. All intersections are stitched together. Lines are 1 1/2" wide.

36' & 60' Permanent Lines – TAPQSGP60

The 60' lines are made from our Herringbone tape but are colored green. These are designed for courts that are regularly used for both full size and 60' play. The green color helps the 60' layout blend into the court when the regulation size court is in use. These lines are nailed into the court surface similar to standard court lines. Each box comes with 180' of tape, enough for one 60' court or one 36' court.

Har-Tru Maintenance Certification Seminars

The Har-Tru Maintenance Certification Seminars focus on indoor, outdoor and bubbled Har-Tru courts. Seminar attendees get 2 days of intense classroom and "hands-on" learning around clay court construction, the latest tools and the best maintenance practices.

March 13-14, 2011.	Dunwoody Country Club, Atlanta, GA.
March 28-29, 2011.	Bocage Racquet Club, Baton Rouge, LA.
April 11-12, 2011.	Raleigh Racquet Club, Raleigh, NC.
April 28-29, 2011.	Olympic Club, San Francisco, CA.
May 17-18, 2011.	Geneva National Golf Club, Lake Geneva, WI.
May 31-June 1.	Annisquam Yacht Club, Gloucester, MA.
August. Date TBD.	John McEnroe Tennis Academy, Randall's Island, NY, NY.
September. Date & Location TBD.	Palm Desert, CA.
October 11-12.	All England Lawn Tennis & Croquet Club, London, England.
October 17-19.	Farmington Country Club, Charlottesville, VA.

To summarize, while each segment of the reconditioning process requires some diligence, facilities that follow these procedures faithfully are more prepared for the rigors of the playing season and are more successful at satisfying and exceeding their players' expectations. Like most hard work, having the right tools can greatly simplify the process. This catalog is dedicated to showing and discussing tools and equipment that we have developed to make the job easier, safer and more effective. We hope this helps you be successful!

CHART 1 – The Benefits of Reconditioning

<u>Short Term</u>	<u>Long Term</u>
Reduced daily maintenance	Saves on operating costs
Reduced down time	Keeps court surface level
Safer playing conditions	Maintains proper drainage
More positive playing experiences	Lengthens court life

CHART 2 – Recommended Annual Top Dressing Amounts

	Conventional Irrigation	Sub-Surface Irrigation
High Rain / High Play	4 tons	2 tons
Low Rain / High Play	3 tons	2 tons
High Rain / Low Play	3 tons	1 ton
Low Rain / Low Play	2 tons	1 ton

CHART 3 – The Steps of Reconditioning

1. Pull up lines and clean court of debris
2. Roll until the court is firm (if necessary)
3. Scrape court and remove excess Har-Tru
4. Thoroughly scrape and clean the edges of the court
5. Scarify and level the court surface
6. Patch low areas
7. Top dress, water and roll
8. Lay playing lines and roll

New Product Special

Buy 3 of our Gator Rakes now – one Tow or Hand model rake, one 72" Hand Rake and one 24" Hand Rake – and get **5% off!**

Or

Buy one of our Tow or Hand model rakes or the Cart Side Rake and get a **Lute Scarifier for FREE!**

These two offers are good for March, April and May while supplies last.
Customer is responsible for shipping charges.

TOW MODEL GATOR RAKE

SCR12TO

Buy 3 Rakes



HAND GATOR RAKE

SCR1372 – 72"



HAND GATOR RAKE

SCR1324 – 24"



LUTE/SCARIFIER

SCR04 - 30" SCR05 - 48"

Get Lute
Scarifier for
FREE



HAR-TRU Sports

2200 Old Ivy Road, Suite 100
Charlottesville, VA 22903

