

AstroTurf®

QUALITY FIELD HOCKEY SYSTEMS

A full range of Hockey and Multi-Purpose Systems
for every need and budget.

astroturf.com

A LONG HISTORY OF INNOVATION

**THERE'S A LOT MORE TO
QUALITY
HOCKEY SYSTEMS
...THAN JUST WHAT'S ON
THE SURFACE**

AstroTurf® has a long history of innovation and leadership in the hockey world. It's the brand that changed the sport. And it's the sport that has shaped AstroTurf's history. Our specialized knitting equipment and manufacturing history has kept AstroTurf at the very top of the hockey world's elite surfacing.

Today our leading fiber technologies and modern plant have enabled us to deliver high quality hockey fields through a full range of affordable systems.

- The inventor of synthetic turf and the leader in hockey!
- A vertically integrated manufacturer – we can take a raw polymer through all phases of manufacturing, installation and service.
- A supporter of and ally to international hockey organizations around the globe, including FIH, USA FH, NFHCA, EHF, Pan AM and more.
- A Preferred Producer of several FIH-Certified systems to meet every need.
- The surface used at every NCAA DI Final Four tournament since the game left natural grass.
- A fount of institutional knowledge – our manufacturing facilities have been in continuous operation since 1968. A supporter of hockey at all levels of the game.



A dynamic, slightly blurred photograph of two female field hockey players in mid-game. One player is in the foreground, wearing a dark blue tank top with a white logo and a white glove. The other player is in the background, wearing a white tank top with a red and blue logo. They are both leaning forward, focused on the play.

It's all about performance

AstroTurf.

sportgroup **AstroTurf.**

SportGroup is today's true global sports surfacing giant, with manufacturing facilities around the world. Active in over 70 countries. SportGroup has installed more than 13,000 artificial turf fields and 16,000 running tracks. Sport Group was created by selective acquisitions of the leading turf, track, indoor and outdoor sports surface manufacturers.

As a member of the SportGroup family, AstroTurf is in the enviable position of enjoying a completely vertical and fully integrated environment, where all of its ideas can be brought to life in a market hungry for innovation.



FIELD TECHNOLOGY

FOR TODAY'S HOCKEY WORLD

KNITTING AND TUFTING OUR WAY INTO THE FUTURE.

FABRIC CONSTRUCTION

Knitting: Fibers knotted together. Very durable, non-directional, with superior seam strength.

Tufting: Fibers punched through backing.

FIBER COMPOSITION

Nylon: Superior fiber resilience (memory) and strength. Enhanced ball roll characteristics.

Polyethylene (PE): Less abrasive and less expensive than nylon. Repels water.

ELASTIC LAYER

An AstroTurf E-layer base system, or the side profile, in a field hockey field is of utmost importance in ensuring the overall performance and safety of the playing surface. This layer, designed for shock absorption and evenness, plays a pivotal role in cushioning the impact of intense gameplay, reducing the risk of player injuries. Furthermore, the E-layer base system contributes significantly to the field's structural integrity, preventing unevenness, and maintaining a consistent surface for ball roll and player movement. The E-layer base system is the hidden foundation that underpins the quality, safety, and fairness of field hockey gameplay, making it an indispensable component of any top-tier field.



ENTANGLEMENT

To prevent splitting of PE fibers, we entangle the side chains to reinforce any weak spots that would form between the main molecular chains.



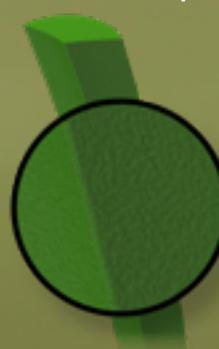
WITH ENTANGLEMENT

Cross chains reinforce the main molecular chains



WITHOUT ENTANGLEMENT

The main molecular chains are vulnerable to splitting



SHARKSKIN

Sharkskin technology engineers the molecular structure of PE, creating a rougher surface that resembles the scales of a shark's skin. With less contact points, the fiber is less abrasive. Think about sliding your hand across glass. The surface is so smooth that it creates significant friction!

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WHICH SYSTEM RIGHT FOR YOU?

ASTROTURF SYSTEMS

We've got a full range of Hockey and Multi-Purpose systems designed to meet all of our customers' needs and budgets.

| System | Fiber/Construction | Life Expectancy | Shockpad | Infill | FIH Certification | Ideal for | Cost |
|------------------------|------------------------------------|-----------------|----------|-------------------------------|-------------------|--------------------------|------|
| AstroTurf®12 | Knitted Nylon | 8-10 Years | Required | None | Global | Elite Play | \$ |
| Paris GT | Tufted, Sugar Cane PE, Carbon Zero | 8-10 Years | Required | None | Global | Elite Play | \$ |
| Poligras® | Tufted PE | 8 Years | Required | None | Global | Elite Play | \$ |
| PGPN | Tufted Nylon & PE | 8 Years | Required | Sand Dressed | Pending | Club/Multi-Sport | \$ |
| RootZone 3D3 HD | Tufted PE | 8-10 Years | Required | Heavy sand & alternate infill | Multi-sport | College/High School/etc. | \$ |
| RootZone 3D3 | Tufted PE | 8-10 Years | Optional | Moderate | Multi-Sport | College/High School/etc. | \$ |

AVAILABLE OPTIONS:

ASTROTURF 12

"The Original" AstroTurf carpet for Field Hockey-exclusive fields. Knitted fields are the most durable and most uniform. Nylon is durable and hydrophilic (absorbs water) – exceptional for wet play. Most uniform and consistent surface. Used by the most elite programs.

PARIS GT - USED FOR WET AND DRY HOCKEY.

Carbon Zero bio based tufted polyethylene turf system. Engineered with Turf Glide additive to enhance ball performance on a dry hockey system. Developed for Olympic level fields.

POLIGRAS PLATINUM COOLPLUS

Tufted polyethylene, engineered with cool plus to lower the turf temperature. This fast system was created for the Rio Olympics and has quickly grown in popularity in the US.

ROOTZONE 3D3 HD SYSTEM

Rootzone 3D3 HD system, for a multiuse field with a field hockey focus to enhance hockey performance, ball speed and ball roll. The low pile height of this product at 1.5" helps keep ball speed high on a multipurpose field. This system is ideal for a shared field hockey and soccer system.

SAND FILLED SYSTEM

For multipurpose fields, especially shared with lacrosse and/or soccer. The low pile height of this product at .75" helps keep ball speed high on a multipurpose field. This system is ideal for a shared field hockey and soccer system.

ROOTZONE 3D3 BLEND

For multipurpose fields, especially shared with lacrosse, soccer, and even football (must have a pad or more rubber for football use).



Liberty University



Duke University



Boston University



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SUSTAINABILITY

A SUSTAINABLE REVOLUTION IN HOCKEY



TAKING RESPONSIBILITY FOR PEOPLE AND THE ENVIRONMENT

AstroTurf has always attributed great importance to sustainability and environmental compatibility. As a system manufacturer with our own research and development, production, sales and in-house installation technology, we can stay true to this claim in our own special way.



QUICK, PRECISE, COOL AND COLOR-STABLE

With a turf structure that is specifically adapted to the BioBased PE formula, Poligras Paris GT enables incomparably dynamic and precise play. Patented ENTANGLEMENT technology in the filaments means that the even, multidirectional surface remains stable in the long term, and is protected against premature wear. Polytan's CoolPlus technology ensures that the turf stays pleasantly cool even on hot days.

QUICKER THAN EVER

Poligras Platinum has already impressively proven its speed at the 2016 Olympic Games in Rio. The Poligras GT will redefine speed in hockey: The ball roll distance on the new hockey turf could be improved by around 25% compared with Poligras Platinum.

DEVELOPMENT AND DESIGN

Sustainability starts with the design and development of our products.

RAW MATERIALS

We set uncompromising quality standards when selecting the raw materials used for our products.

PRODUCTION

The reduction of negative environmental influences also plays an important role for AstroTurf production.

USAGE AND MAINTENANCE

The service life is one of the most important prerequisites for ensuring a positive eco-balance of synthetic turf.

RECYCLING AND REUSE

Even after their active career, our products are far from over.



PRODUCT SPECIFICATIONS

- Monofilament turf fibre with a fibre thickness of approx. 110 µm
- Green Technology inside – filaments made from 60% regrowable raw materials
- Exclusive Polytan CoolPlus function
- Exclusive Polytan PreciTex texturing technology
- Exclusive Polytan 100 % PE composition with ENTANGLEMENT technology
- MultiBack backing construction

PROPERTIES

- Filaments made from over 60% regrowable raw materials
- Turf Glide additive for dry turf performance
- An even, multidirectional surface for dynamic, precise play
- Optimum climate regulation
- Protection against abrasion and wear

AREAS OF USE

- Professional hockey facilities and stadiums
- Club spaces
- Multi-sport facilities



A silhouette of the Eiffel Tower is positioned in the center of the image, set against a vibrant sunset sky with orange and pink clouds. The tower is partially obscured by the horizon line, creating a sense of depth.

CHOSEN FOR PARIS 2024 OLYMPICS

POLIGRAS®
PARIS GT ZERO

CARBON ZERO
FIELD HOCKEY TURF

It's all about performance

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PRIDE IN OUR PEOPLE INNOVATION MANUFACTURING & HISTORY

1964
Synthetic Turf invented and called "ChemGrass"

1965
Ribbon extrusion started for Astrodome

1966
AstroTurf® installed at Astrodome

1968
Original synthetic turf patent awarded to AstroTurf

1968
AstroTurf's Dalton, GA manufacturing facility opened

1975
1st International Field Hockey game played on AstroTurf (Montreal)

1976
AstroTurf Olympic Debut at Molson Stadium, Montreal

1979
Pan American Field Hockey Games played on Puerto Rico's first AstroTurf surface

1980
Sewn seams introduced to the US market

1981
1st textured nylon ribbon field installed at Texas Stadium

1982
1st AstroTurf System 90 field installed in Australia

1983
Women's World Cup Hockey played on AstroTurf

1987
Pan American Games played on AstroTurf

1989
1st E-layer® systems installed at William & Mary and UC Berkeley

1990
World Cup Hockey on AstroTurf in Lahore, Pakistan

1992
Polypropylene fibers introduced

1992
AstroTurf used for Barcelona Olympics

1996
Atlanta Olympics on AstroTurf

1999
Pan American Games, Winnipeg, Canada

2002
Women's World Cup on AstroTurf (Perth)

2002
10th Men's World Cup, Kuala Lumpur, Malaysia

2003
European Nations Cup, Barcelona, Spain

2005
Women's Rabobank Champions Challenge, Virginia Beach, Virginia, USA

2007
EuroHockey Nations Championship, Manchester, England

2008
AstroTurf used at the Beijing Olympics

2012
AstroTurf JG introduced at Princeton

2012
Poligras used at London Olympics

2013
EuroHockey Nations Championship, Boom, Belgium uses AstroTurf

2015
AstroTurf's 50th Anniversary

2015
Pan American Games played on AstroTurf, Toronto

2016
Poligras used at Rio Olympics

2016
AstroTurf bought by SportGroup

2017
New AstroTurf manufacturing facility opened

2018
Poligras used at Women's World Cup in London and Men's World Cup in India and Asian Games in Jakarta, Indonesia

2019
Big Stadium Hockey

2020
Tokyo GT at Tokyo Olympics

2022
Field Hockey 5's in Switzerland. Poligras Platinum GT at Women's World Cup in Spain and Netherlands

2023
Tokyo GT at Asian Games in Hangzhou, China

2023
Poligras Platinum GT at Men's World Cup in India and Poligras Tokyo GT at the European Championship in Monchengladbach, Germany

2024
Paris GT Zero at Hockey 5's

1st Paris GT field installed at the new home of USAFH

2024
Paris GT at Paris Olympics

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ASTROTURF IT'S ONE OF THE MOST ICONIC BRANDS IN SPORTS

While everyone recognizes the name,
not everyone knows the history!

AstroTurf borrows its name from the Houston Astrodome, where it was first used in a professional sports venue over Fifty-five years ago. The space race was in full swing. It was a time of palpable optimism. A certain belief that man could conquer the constraints of nature with ingenuity and forward-thinking progress pervaded. The Astrodome was built during this feverish pursuit of the impossible. It was the first domed stadium and it was a marvel of sports architecture.

There was a major problem, though. The clear Lucite panels that comprised the dome created a glare. Astros outfielders and their opponents were blinded as they attempted – and failed – to catch pop-ups. The initial solution was to paint the ceiling to cut the glare. It worked, but another problem arose. Deprived of adequate sunlight, the grass died!

Meanwhile, Monsanto had just invented a brand-new product they called "ChemGrass". During the Korean War, the U.S. Army had found urban recruits to be less physically fit than rural recruits. Attributing this to lack of green space in cities, the Ford Foundation funded research for Monsanto to create a synthetic grass replica. The Astrodome brought Monsanto in to install ChemGrass. It was a great success, and Monsanto capitalized on the popularity of its high-profile installation to rebrand their grass replica. Thus the "AstroTurf" brand was born.

Over the half century since AstroTurf was first installed in Houston, technology has rapidly improved. AstroTurf® has continued to drive innovation within the industry and these days, AstroTurf® products come ever closer to replicating the feel, performance, and safety of the gold standard – natural grass.



OUR TEAM



Amherst College



WC Eagles Field Hockey



Mount Holyoke College



University of Maryland



The Ohio State



Duke University

American University
Amherst College
Appalachian State University
Boston College
Boston University
Bowdoin College
Brown University
Bucknell University
Calgary Alberta - Hawking's Field
Central Michigan University
Colby College

College of the Holy Cross
Colgate University
College of William and Mary
Cornell University
Cowichan Sportsplex
Dartmouth College
Davidson College
Duke University
Field Hockey Ntl. Training Center
Greenwich Country Day School

Hamilton College
Hobart-William Smith College
Keene State College
Kent State University
Lafayette College
Liberty University
Lock Haven University
Longwood University
Mary Institute & St. Louis Country
Messiah College

Miami University of Ohio
Michigan State University
Middlebury College
Mount Holyoke College
Miss Porter's School
Norfolk Academy
Northeastern University
Northwestern University
Ohio University
Ohio State University
Old Dominion University

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Princeton University



Middlebury College



University of North Carolina



Tower Hill School - Wilmington, DE



University of Iowa



Dartmouth College

Penn State University
Princeton University
Rutgers University
Saint Joseph's University
Sportport International
Stanford University
Sweet Briar College
Stevenson University
Syracuse University
Rutgers University

Temple University
The College of New Jersey
Tower Hill School
Trinity College
Tufts University
University of California, Berkeley
University of California-Davis
University of Connecticut
University of Delaware
University of Iowa
University of Louisville

University of Maine
University of Maryland
University of Massachusetts-Amherst
University of Massachusetts, Lowell
University of Michigan
University of New England
University of New Hampshire
University of North Carolina
University of Ohio State
University of Richmond

University of Rochester
University of Vermont
University of Virginia
US Olympic Field Hockey Training Center
Vassar College
Villanova University - The Proving Grounds
Virginia Commonwealth University
Wake Forest University
WC Eagles Field Hockey
William Penn Charter High School
Yale University

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A full range of Hockey & Multi-Purpose Systems
for every need and budget.



AstroTurf Corporation

THE WORLD LEADER IN SPORTS & RECREATION SURFACES

AstroTurf
FIELDS

Rekortan
TRACKS

Laykold
COURTS

SYN LAWN
LANDSCAPE