

A composite image of three baseball players in a field, overlaid with a warm orange tint. One player in the foreground points towards the viewer, another in the background is in a batting stance, and a third in the foreground is shouting with a baseball glove. The background shows a stadium with lights.

MAXIMUM PLAYABILITY FOR
THE ULTIMATE BASEBALL EXPERIENCE

B1K
BATTING A THOUSAND

truhop

shaw
SPORTS TURF

AN AMERICAN TRADITION THAT HAS STOOD THE TEST OF TIME

IT'S TIME FOR TURF

Thanks to Shaw Sports Turf's revolutionary synthetic turf system designed to the specific needs of baseball, the game surface is evolving. Artificial isn't a forgotten option anymore. B1K: Batting A Thousand ushers in a new generation of turf and along with it the next level of playability. Now really, let's play ball.

For this purist game, the approach is different than other sports. Each area of the field is meant to have different playability characteristics. At Shaw Sports Turf we have dedicated ourselves to researching high-end fields and how athletes perform on them to develop artificial turf systems that play true in all areas of the field.

LEADING THE LINEUP

Shaw Sports Turf is the ONLY company in the synthetic turf industry with over 7 years of research and collecting data specific to our baseball systems. Focusing on athlete, surface, and game science, we design fields that not only play like natural, but play like the surface the game should be played on.



COMMITMENT TO RESEARCH
THE NUMBERS DON'T LIE

SHAW

14,700 HOURS > **367.5** WEEKS

OTHERS

300 HOURS > **7.5** WEEKS

Shaw Sports Turf's competitors in the industry tout 300 hours of research. That amounts to only 7.5 dedicated weeks of baseball research which pales in comparison to Shaw Sports Turf's years of testing and analysis. The over 4,200 hours dedicated to BIK development and over 10,500 hours dedicated to baseball specific research illustrates Shaw Sports Turf's commitment to excellence.



ATHLETE PERFORMANCE

Playability isn't just about the surface alone; it's also about an athlete's interactions with it while performing the movements required by sport. Working with our university research partners, we were able to study those very movements in detail. For the benefit of the player, the surface should provide less energy rebound and less leg stiffness.

OTHER ARTIFICIAL SYSTEMS

**MORE REACTIVE STATE GUESSING
THE BOUNCE OF THE BALL**

LESS SURFACE CONFIDENCE

**MORE TENSION/ADJUSTMENTS REQUIRED
IN POSTURE (FEET/LEGS)**

B1K

**MORE PROACTIVE STATE APPROACHING
THE BALL**

MORE SURFACE CONFIDENCE

**MORE NATURAL POSTURE & LESS
TENSION IN LEGS**

Playing on a surface tailored for baseball promotes more natural play. A more consistent ball bounce allows players to field hits more naturally while a firmer surface minimizes fatigue and soreness.



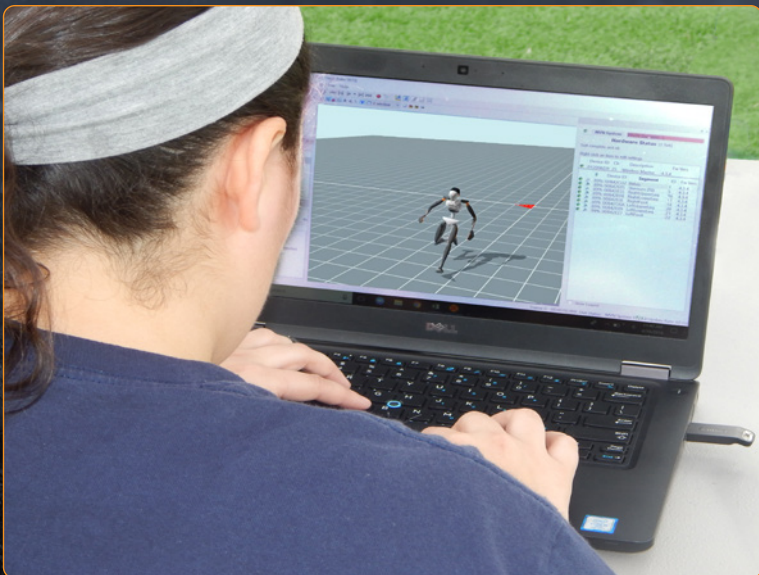
PLAYABILITY ENVIRONMENT ATHLETE KINETICS P.E.A.K. PERFORMANCE LAB



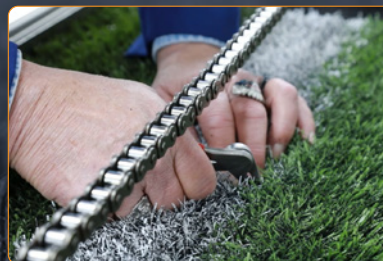
SHAW SPORTS TURF LEADS THE SYNTHETIC TURF INDUSTRY

in research and development and bringing innovation to the market. With testing protocols and procedures that exceed those of even the most stringent independent labs, the Research and Development Center at Shaw Sports Turf is at the forefront of advancement.

We study playability and environmental influences to create the ultimate sports and landscape turf applications. While also studying Athlete-to-Surface interaction through human kinetics to provide elite turf systems designed with the athlete in mind.



Reviewing Athlete Testing



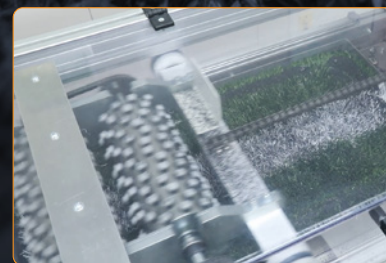
Tuft Bind



Athlete Testing Sensors



Grab Tear



Lisport

RESEARCH SURFACE PERFORMANCE

Comparing both natural grass and synthetic turf field characteristics, Shaw Sports Turf set out to develop a method with baseball organizations and academic partners to evaluate a baseball fields' playability. Using a specially designed cannon to replicate ball speeds and angles off the bat and off the surface, different types of data such as ball roll, pace and bounce were collected using high speed cameras along with other surface testing equipment.

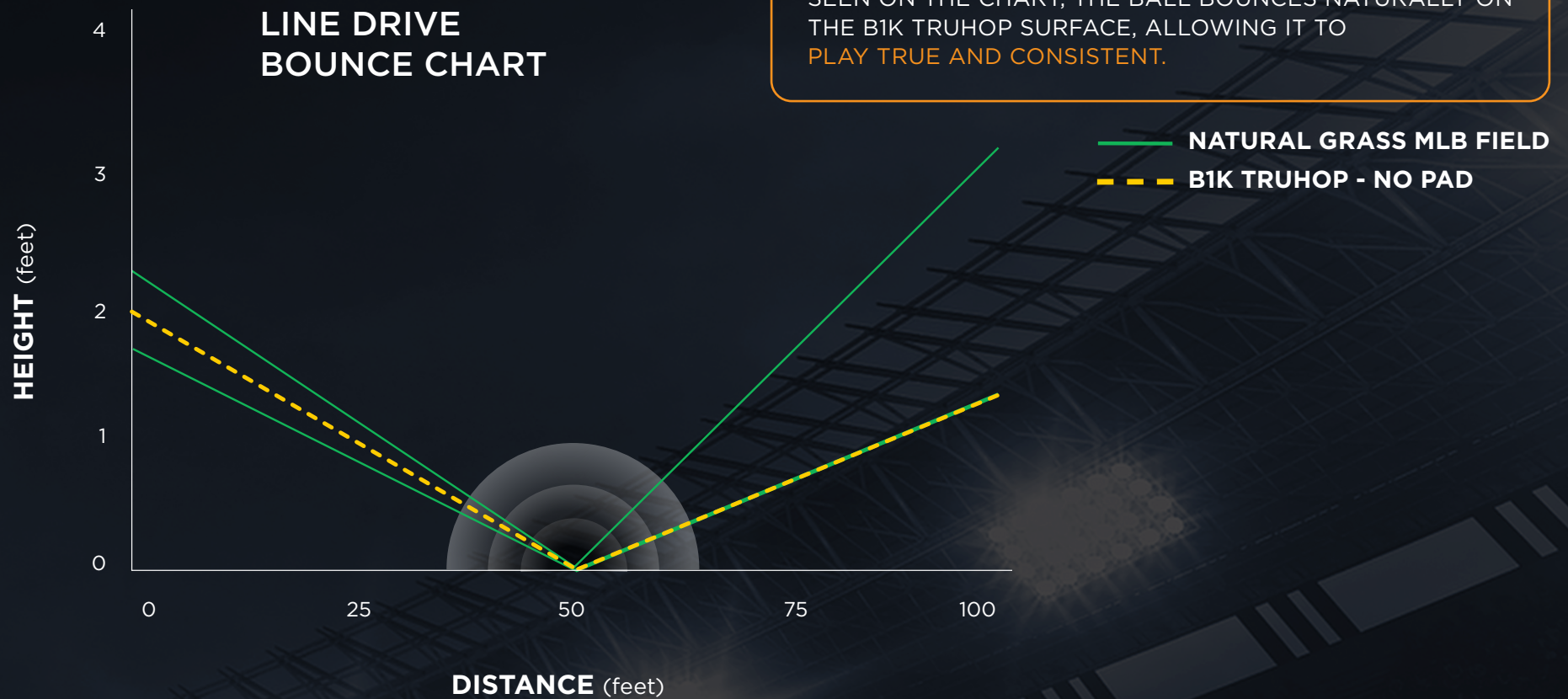
Compiling this data on a multitude of different fields, both collegiate and professional, set up an ideal playing surface benchmark for designing our systems.



SHAW SPORTS TURF'S SIGNATURE BASEBALL CANNON LEADS THE WAY AS AN INNOVATIVE BENCHMARKING TECHNIQUE. WE TEST FIELDS WITH OPTIMAL PLAYABILITY TO RAISE THE BAR FOR OUR NEW GENERATION OF BASEBALL TURF, BIK.

GRASS LINE DRIVE COMPARISON

SHAW SPORTS TURF B1K TRUHOP PLAYS COMPARABLE TO A NATURAL GRASS MAJOR LEAGUE BASEBALL FIELD. AS SEEN ON THE CHART, THE BALL BOUNCES NATURALLY ON THE B1K TRUHOP SURFACE, ALLOWING IT TO **PLAY TRUE AND CONSISTENT.**



B1K: A PRODUCT OF THE RESEARCH RESULTS

SKINS

TRUHOP

grass like surface with a natural, true bounce for consistent playability

INFIELD

TAG UP

a hybrid synthetic product with a natural, well-manicured aesthetic

WARNING TRACK

TRUTRACK

a solution that can be heard & felt when approaching the wall

OUTFIELD

TAG UP

a hybrid product with a natural, well-manicured aesthetic



B1K TRUHOP

B1K Truhop has been designed similar to our elite B1K systems that can be found in professional stadiums across the country. This system has been optimized to provide a practical investment for the organization as well as high-level playability for the athlete.

Everyday Baseball Specific

SYSTEM	B1K TRUHOP
CLAY	TRUHOP 1.5"
GRASS	TAG UP 1.75"
WARNING TRACK	TRUTRACK 1.625"
INFILL	SAND/RUBBER
PAD	NO

WHAT THEY ARE SAYING



"We've gotten rave reviews from our players on the turf," Derek Jeter, CEO Miami Marlins said. "This turf is a lot different than the artificial surfaces that I've played on. When I was playing, I didn't particularly like the artificial surfaces. But this is as close to grass as you can possibly get."

Derek Jeter, Former CEO, Miami Marlins



"We are thrilled to have a Shaw surface on this field. We were deciding whether to put a natural grass surface in or consider a synthetic surface. We went to all of the manufacturers on the synthetic side and said, 'We aren't even going to consider this unless you can deliver to us the best playing surface in Major League Baseball.' Shaw's commitment to research and development specific to baseball have been second-to-none."

Rob Matwick, EVP of Business Operations, Texas Rangers



"The challenges with growing natural grass in our climate and stadium have been well documented and we have considered alternate solutions for many years. We decided to make this change because the technology developed by Shaw is the best in existence and will provide a consistent playing surface and benefits to our players on the field while enhancing our fan experience throughout the ballpark."

Derrick Hall, CEO, Arizona Diamondbacks

HEAD-TO-TOE ATHLETE APPROACH

SHAW SPORTS TURF DESIGNS BALANCED SYSTEMS THAT SUPPORT THE ATHLETE FROM HEAD TO TOE.

ALL OF OUR SYSTEMS ARE DESIGNED AROUND SEVEN CRITICAL PERFORMANCE TESTS.



7%

OF INJURIES ARE
IMPACT RELATED
AND AFFECT
THE HEAD.*

OVER

50%

OF INJURIES ARE
STABILITY RELATED
AND AFFECT THE
LOWER EXTREMITIES.

INJURY DATA OBTAINED FROM: Biocore NFL study on Injury
Distribution published in the Wall Street Journal • NCAA
Football Injury study produced by Datalys Center for Sport Injury
Research and Prevention

*Head injury statistics include player-to-player and player-to-surface. It is commonly accepted that 1 in 4 of these injuries are player-to-surface.



IMPACT

HIC

Head Injury Criterion.
Measures the likelihood of
head injury arising from an
impact with the surface.

GMAX

Measures high impact
interaction between the
athlete and the surface.

STABILITY

ROTATIONAL TRACTION

Measures the torque required
to rotate a set of cleats
through a 90 degree turn
through the surface.

SHEAR VANE

Measures how stable the
field is to resist shearing
from movements by players.

REBOUND

FORCE REDUCTION

Measures the amount of the
impact force that is transferred
to the athlete compared to
running on concrete.

VERTICAL DEFORMATION

Measures how stable the
field is to resist shearing from
movements by players.

ENERGY REBOUND

Uses the artificial athlete and the
same peak loading that is used
for the vertical deformation and
force reduction tests.

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