

polytan




POLYTAN SMARTRACKS

Whether for ambitious amateur athletes or professionals, SmarTracks lets you document and analyse training performance easily.



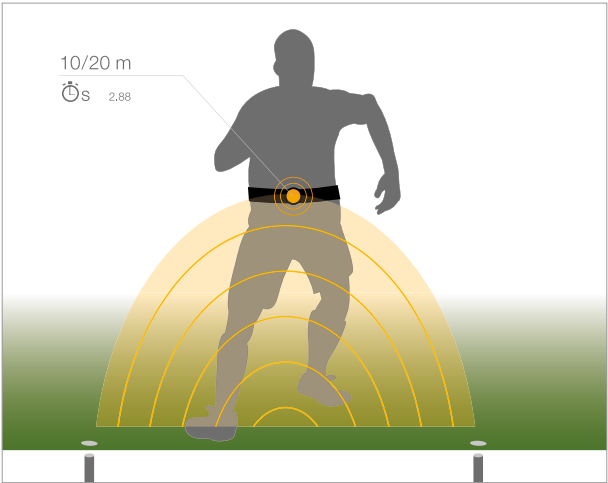
SMARTTRACKS – UNDER SYNTHETIC



Whether it's the classic running disciplines of athletics or team sports like football, rugby or hockey, increasing numbers of athletes are relying on the possibilities afforded by digital performance diagnostics to optimise overall sports performance.

INSTALLATION TIC TURF





SMARTRACKS BY POLYTAN – THE INNOVATIVE IN-GROUND SYSTEM FOR PROFESSIONAL PERFORMANCE DIAGNOSTICS

With SmarTracks, Polytan offers an innovative, highly precise and easy to use system that is installed directly into the sports surface. In combination with the latest sensor technology, training activities in a variety of disciplines can be individually documented and analysed down to the millisecond.

SMARTRACKS SYSTEM- COMPONENTS

The Polytan SmarTracks system consists of the SmarTracks timing gate, which is seamlessly integrated into the playing field. A wearable sensor which weighs just 12g is a tried and tested analytical software from our partner Humotion. An unlimited number of people can use this system!

A WIDE RANGE OF APPLICATION

Performance analysis:
SmarTracks enables regular, efficient performance analysis with minimal effort.

Talent Scouting:
The system allows several measurements and evaluates them automatically.



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SMARTRACKS TIMING GATES

The SmarTracks timing gates are entirely maintenance-free. These timing gates are made of magnets that are permanently and securely installed in the ground. Unlike other systems, no expensive preparations, developments or conversions are needed for the performance diagnostics.

WEARABLE SENSOR AND SMARTRACKS DIAGNOSTICS SOFTWARE

The SmarTracks sensor, which weighs in at just 12 g, is available for all players who want to train with as small a burden on them as possible at the highest possible level of precision. It can simply be worn on the body with a belt. In conjunction with the timing gates, it records all significant parameters which it clearly displays and evaluates on the laptop using the diagnostics software.

ONE SYSTEM – ENDLESS POSSIBILITIES

SMARTRACKS SYSTEM COMPARISON

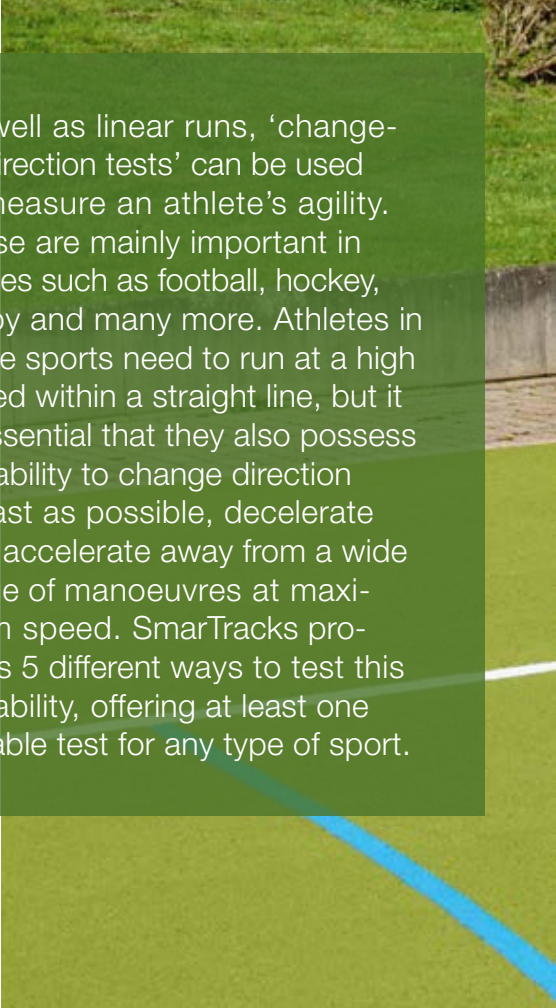
REQUIREMENT	SMAR- TRACKS	LIGHT BARRIERS
Lower cost for development and removal	■	
Weather-resistant and vandalism-proof	■	
Simultaneous measurements	■	
Low measuring tolerances	■	■
Fully automated performance diagnostics	■	■
Measurement of step length and frequency	■	
Documentation of speed	■	■

BILITIES

VIDEO	GPS
	■
	■
■	
	■
■	
■	■



SMARTRACKS – CHANGE OF DIRECTION

The background of the page is a photograph of a green sports field, likely a soccer or football pitch. A prominent blue line is visible on the grass, running diagonally from the bottom right towards the center. The top of the image shows a grassy area and a concrete curb. A semi-transparent green rectangular box is overlaid on the left side of the image, containing the text.

As well as linear runs, ‘change-of-direction tests’ can be used to measure an athlete’s agility. These are mainly important in games such as football, hockey, rugby and many more. Athletes in these sports need to run at a high speed within a straight line, but it is essential that they also possess the ability to change direction as fast as possible, decelerate and accelerate away from a wide range of manoeuvres at maximum speed. SmarTracks provides 5 different ways to test this capability, offering at least one suitable test for any type of sport.

RECESSION TESTS



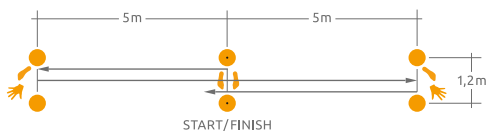
WHICH TESTS ARE USED?

- Three Cone Drill
- Arrowhead Agility Test
- Illinois Agility Test
- 5-10-5 Shuttle
- Custom Agility Test
- Countermovement Jump
- Drop Jump
- Squat Jump
- Tappings
- Linear Sprints

In the following we would like to shortly present a small selection of tests:

5-10-5 SHUTTLE

The 5-10-5 Shuttle consists of quick changes of direction in a straight line and is generally used in American football, basketball, football and most other types of sport.

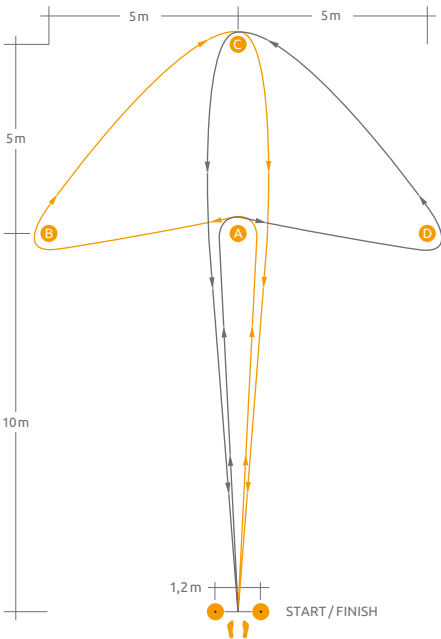


CUSTOM AGILITY TEST

The Custom Agility Test lets trainers and athletes create their own tests so they can tailor them as specifically as possible to a particular sport or game situation. The only general requirement is a start point and an end point. There is no set distance or course.

ARROWHEAD AGILITY TEST

The Arrowhead Agility Test is a simple but effective test for assessing an athlete's agility. While it can be used for many types of team sport, it is most commonly used in football.



VARIOUS APPLICATIONS FOR ATHLETICS AND TEAM SPORTS

For team sports like football, rugby or hockey, SmarTracks allows you to carry out fully automated performance tests to measure sprinting ability, dynamics during changes of direction, jumping ability and much more. We would be happy to advise you on the selection of the most suitable setup for you in person.

PRECISE PERFORMANCE DIAGNOSTICS FROM RECREATIONAL ATHLETES TO PROFESSIONALS

SmarTracks by Polytan offers optimal training facilities for all performance classes, from school sports right through to elite sport training facilities. Compared to other time recording systems like photoelectric barriers, GPS and video assessment, Polytan SmarTracks stands out thanks to its high degree of precision, ability to be used by several athletes at once, ease and versatility of use and automatic evaluation.

VISIT US ON



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