

# LISPORT™ XL

The new generation of wearing technology for synthetic turf



The LISPORT™ XL, by Labosport, is the new generation for synthetic turf wearing test, a proud successor of the LISPORT™ test, used as a reference worldwide for more than 10 years.

Designed to replicate the wear patterns caused by the compressive stress of football studs (cleats) and the abrasive wear caused by flat-soled sports shoes.

Developed over five years, extensive trials have shown the LISPORT™ XL replicates the wear patterns observed on real fields. A major step forward, it is already adopted by the industry as the most state of the art means of producing realistic simulated patterns.

## Principles

The LISPORT™ XL is a unique wear simulation machine which has been specifically designed by LABOSPORT teams to allow the most realistic wear simulation of sport fields.

A guided trolley moves over the sport surface; it has four elements: two free rotating rollers fitted with specific studs and two vibrating plates fitted with a rubber sole selected to replicate sport shoes.

All parameters (trolley speed, reciprocating amplitude, etc.) have been adjusted to replicate typical real life wear patterns.

## Method advantages

- Wear pattern is ultra realistic and capable of simulating years of intensive use\* within days.
- Testing duration is reduced by a factor 10 compared to traditional LISPORT™ (for identical sample length).
- Several systems can be tested under exact same conditions for comparative test and product development.
- Samples are more than 4 m long allowing multiply tests to be performed according to existing standards (EN/ASTM/DIN/NF...) and those under development.

## Why choose LABOSPORT ?

- For over 20 years Labosport has been pioneering the sport test industry introducing breakthrough innovations and equipment.
- Equipment fully proven thanks to comparative studies performed in cooperation with leading synthetic surface manufacturers.
- Equipment is CE marked with a high end safety system.

### **LABOSPORT, this is:**

- 20 years of experience
- The strength of a team with diversified background
- The certainty of full independence
- The largest accreditation scope
- An international presence
- A strong R&D policy

\* Note: Labosport analysis on the basis of 10 years of usage at 70 hours a week.

## Technical specifications

Dimensions	✓ 6,1 m x 2,5 m
Weight	✓ Total : 1400 kg
Installation requirement	✓ 7 m x 3 m space min. ✓ Flat concrete floor (evenness <2 mm under 3 m straightedge) ✓ Installation on ground floor highly recommended, needs to be fixed to the floor.
Material	✓ Frame / Rail : black carbon steel, welded and painted ✓ Trolley: Aluminium / black carbon steel, welded and painted
Powering	✓ 220 - 240 V / 50 Hz ✓ 9A
Motors	✓ Travelling motor : 0.75 kW ✓ Reciprocating motor : 1.1 kW

