

# HYDRODYNAMIC MEASUREMENT SYSTEM

*HMS measures the contact patch of a tire in dynamic and wet conditions for a better analysis*

## > Product purpose

### Hydrodynamic contact patch picture

Usable with C1, C2 or C3 tires.

Delivery of very high accuracy picture of the contact area.

### Contact patch measurement

Contact area characterization: surface, length, width etc.

### Footprint analysis

Analysis of the footprint: overall, zones or blocks.

Optimization of tread pattern functioning (block, groove, channels).

Service - Dufournier analysis and report on demand.

## > Strengths

### High accuracy

Improve accuracy with the use of a prism (option) deliverable by Dufournier.

### Water flow calculation

Flow of water is calculated based on the speed and water depth.

### Dynamic measurement

Works in constant speed, acceleration or braking.

Delivery of warning if tire is out of the measurement area.

### Several tire propulsion ways

Operates in a very wide range of speeds.

Tire could be propelled by a car or by a self-propelled carriage (supply possible by Dufournier).

### Turnkey system

HMS can be integrated in existing configuration, but also available turnkey with: watering system, synchronization system, analysis software, self-propelled carriage (more information on request).

### Basics

Tire knowledge improvement.

## > Our customers

Tire manufacturers, car makers, automotive suppliers

Testing centers, vehicle dynamics engineering companies

**Better understand tire to develop and improve it.**

**dufournier**



High tech experts on tire-suspension

distributes **dufournier**  
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