

hyBlade



DYNAMIC MODE

CHANGE SHAPE

RAIN MODE



A TIRE WITH  
**OPTIMAL DRAINAGE  
THAT CAN BE DRIVEN WHILE  
SUBMERGED IN WATER**

Heavy snowfall and freezing due to global warming



## UNEXPECTED, HEAVY RAINFALL DUE TO GLOBAL WARMING IS ON THE RISE.

HyBlade, futuristic and prepared to take on such an environment, provides optimal dry grip, cornering and down-force performances in general and heavy rain driving conditions: Complete drainage performance in heavy rain driving conditions is achieved by wide holes that extend to the hub. In addition, when the vehicle is submerged in water, its waterwheel configuration enables the vehicle to be steered out of the water.

HyBlade // DYNAMIC & RAIN TIER

\*CONCEPT

With a conventional inflation tire with blocked grooves, only a minimal improvement can be made in drainage performance. In order to overcome this, the unique structural advantage of an airless tire with an open sidewall is actively utilized. In addition, a waterwheel configuration that is not feasible with an inflation tire due to drainage problems is utilized to give a perfect solution for drainage and enable the tire to be steered when submerged in water.



## OPTIMIZED HIGH-SPEED DRIVING



### DYNAMIC MODE

The outside stiffness is enhanced through an extreme and asymmetric pattern to achieve ultimate cornering performance.

## ENHANCED DRAINAGE PERFORMANCE



### RAIN MODE

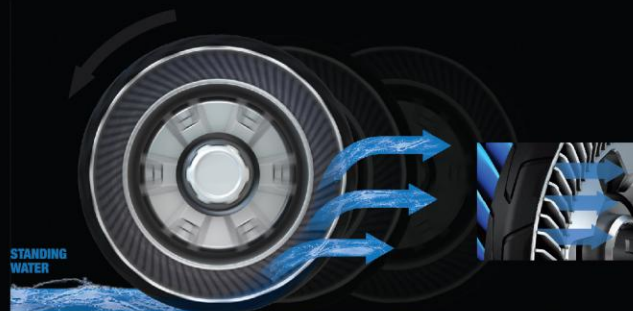
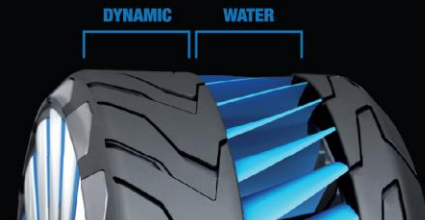
During heavy rain, a complete drainage performance is achieved by wide holes extending to the hub and the operating side spokes to provide safe wet weather driving.



## DRAINAGE PERFORMANCE IS MAXIMIZED VIA THE UNIQUE STRUCTURAL ADVANTAGE OF AN AIRLESS TIRE WITH AN OPEN SIDEWALL

### HYBRID TREAD DESIGN

The outside of the tread is designed using an asymmetric pattern that offers high stiffness over a wide area to provide optimal cornering performance, and the inside incorporates a waterwheel structure that provides favorable drainage performance.



### ANTI-HYDROPLANING

It is designed so that water can flow via the airless structure through the wide inside drainage spaces. As the structure can explosively drain water in all directions, hydroplaning phenomenon is prevented.





## **SOLUTION TO HEAVY RAINFALL AND FLOODS**

A conventional tire cannot fully satisfy drivers who want both ultimate driving and drainage performances. But HyBlade, through its innovative design, provides ultimate driving and drainage performances. Also, HyBlade utilizes a recyclable airless type and contributes towards saving the environment.

*hy*Blade