

CFD FLOW SIMULATION

DOWNFORCE NAKED SPOILERS

REF.20832

AERODYNAMIC TEST

KAWASAKI Z H2

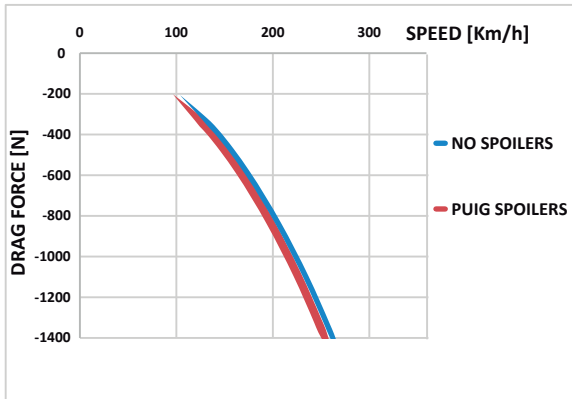
2020 -



**DRAG FORCE
COMPARISON**

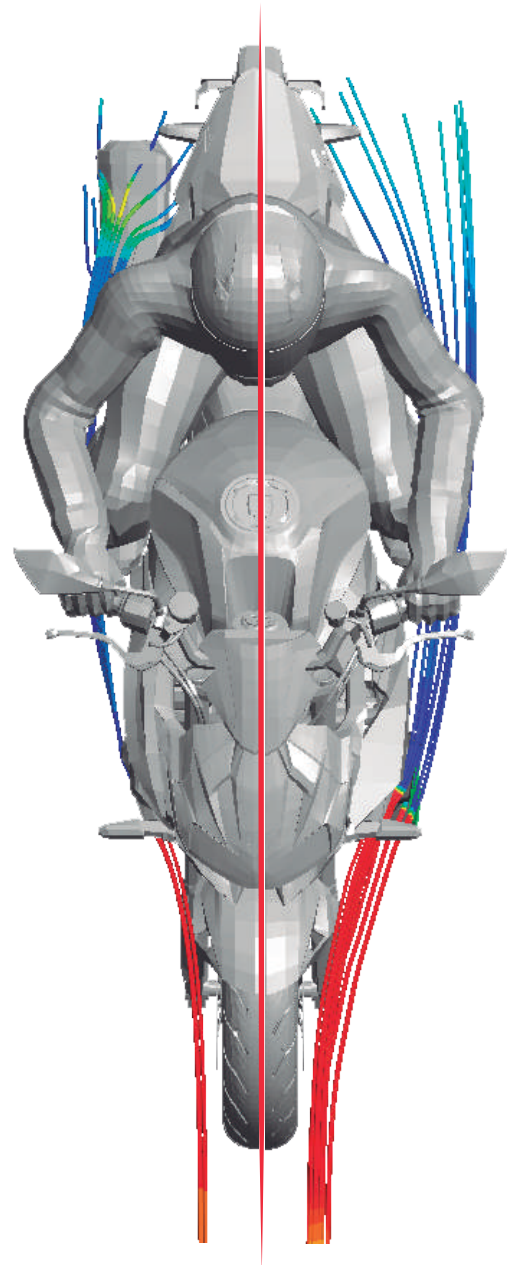
**WITHOUT
SPOILERS**

**PUIG
SPOILERS**

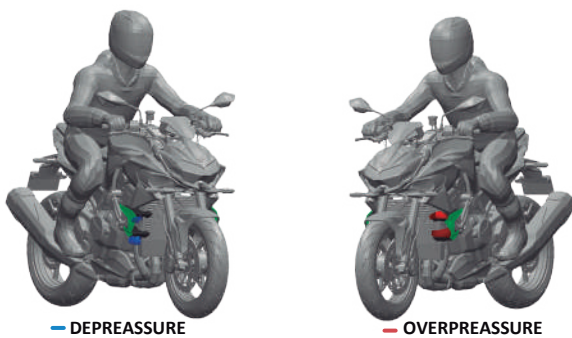


Drag force - Speed Chart:

On this chart we can see the force that our bike has to overcome to advance depending on the speed we are travelling at. As we can observe this force is practically the same with the *Puig* Downforce Race Spoilers. So we will gain downforce without affecting bike speed.

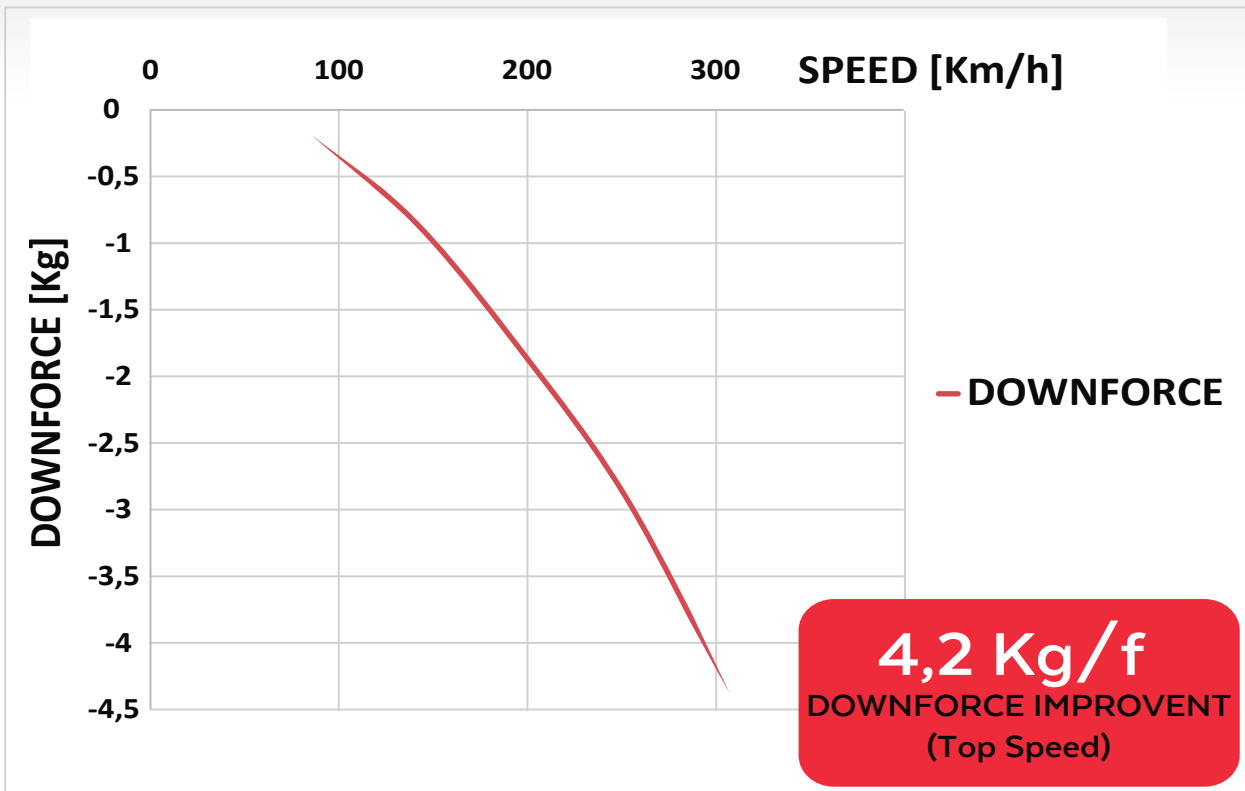


Pressure on spoiler surface:



Due to its angles and frontal surface, it creates an overpressure on the top of the spoiler. The turbulence create below, generates a difference of pressure between the upper and lower part of the spoiler. Which ultimately generates the aerodynamic downforce.

SPOILER'S DOWNFORCE



Downforce-Speed Chart:

The force that the spoilers generate can be calculated by the difference of the results obtained in the previous chart.

