EXPERIMENTS STUDY THE EFFECT OF ADDITION RAM IMPLOSION WING (RIW) TO DRAG ON THE VEHICLE BODY 
(WITH THE EFFECT OF GROUND CLEARANCE)

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Abstract
On the vehicle body, in trying to have a minimum drag coefficient, Ram implosion Wing (RIW) are designed to reduce drag that occurs. This has been proven by experiments in the field directly by some people to reduce fuel consumption.

To determine the effect of installing Ram implosion Wing of drag on the vehicle body are tested multiple variables on wind tunnel testing using a ground clearance. Variables tested include the influence of Reynolds number, wing position on the vehicle, and comparison of drag coefficient with and without ground clearance.

The test results indicate a reduction of drag coefficient with the addition of Ram implosion Wing. In the testing speed 13m / s with a Reynolds number $1.9 \times 10^4$ at the wing position $x=2, y=1; x=3, y=2; x=1, y=3$ has the best drag reduction with a ground clearance. The addition of Ram Implosion Wing (RIW) has a coefficient of drag (CD) which is lower than without a ground clearance (Unground) at the same position and Reynolds number.

**Keyword :** drag coefficient ($C_D$), Ram Implosion wing