

Why is the tail of the wing curved so oddly?

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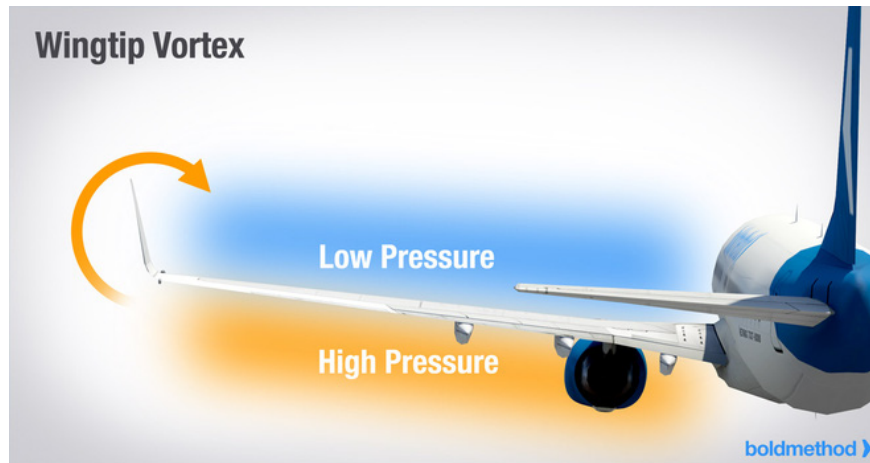
The glider at the end of the wing is not designed for decorative purposes, but is important for aircraft operation.

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2. Meaning of numbers on airport runways



This pointed part is called winglets - gliding wings, which help reduce swirling air and increase lift for the aircraft. Therefore, winglets are an indispensable part of modern aircraft.

Specifically, the aircraft wing creates lift with low pressure air cushion above and high pressure below. This lift works on the entire wing, except for the tail. At that location, the upper high pressure air overflowed like a whirlwind created by differential pressure zones, preventing the aircraft from operating. Therefore, the tail of the wing is designed to help prevent this phenomenon completely, helping the engine to save a significant amount of energy, reduce CO2 emissions and costs. aircraft operation.



Boeing's 757 and 767 aircraft were designed with winglets, contributing to the improvement of combustion fuel by up to 5%; while cutting CO2 emissions by 5%. The Boeing 767 uses this design to save about 1,892,700 liters of fuel per year.

In addition, the longer the wingspan is, the lower the drag on the aircraft. But if the wingspan is too long it will be more difficult to move, so the solution of the folding wing tail will be extremely optimal.

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