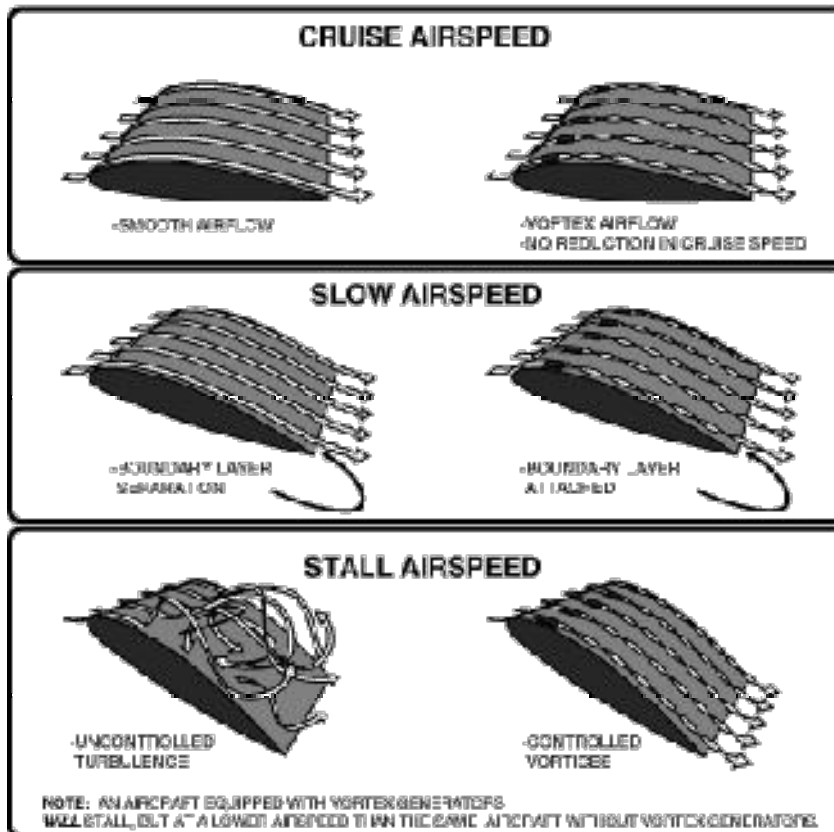


# BETTER MANEUVERABILITY INCREASE SAFETY

## With VORTEX GENERATORS

Without VGs

With VGs



### What is a Vortex Generator?

In simple terms a vortex generator is a device that creates a swirl or "vortex" of fluid due to its shape. A great deal of research has been done to develop guidelines to determine the size and shape of a proper vortex generator. Vortex generators come in many shapes and sizes depending on their intended use.

### How do vortex generators work?

Vortex generators work by mixing high-energy fluid (freestream air in this case) with the lower energy fluid found near the skin surface, called the boundary layer. This process is called re-energizing the boundary layer. The higher energy fluid is now more resistant to separation and allows for higher performance of the aircraft. Technically speaking, a vortex generator increases the mean streamwise momentum of the boundary layer by drawing in high momentum fluid from the freestream.

## VG Advantages

Lowers stall speed  
Improves stability  
Improves control

Decreases turning radius  
Decrease takeoff distance  
Increase takeoff weight

STC Approved for over 500 Aircraft  
- General Aviation, Commercial, Ag -  
Prices range from \$1095— \$1995 USD  
Two Supplier Models to Choose From

Distributed in Canada by:



SERVICE LTD.

**1.800.776.4656**

Hangar #2, Yorkton Airport  
Yorkton, Saskatchewan S3N 3L2

Phone: 306.786.7007

Fax: 306.786.7840

[www.yorktonaircraft.com](http://www.yorktonaircraft.com)

Email: [cheryl@yorktonaircraft.com](mailto:cheryl@yorktonaircraft.com)

**"We're There to Keep You In the Air"**