

The future is on the wing

Over the past 13 years Blended Winglet™ Technology has evolved from revolutionary to mainstream. Today, more than 1000 business and commercial aircraft are equipped with patented Performance Enhancing Blended Winglet Systems, says Aviation Partners Boeing.

Aviation Partners Boeing a joint venture between Aviation Partners, Inc and The Boeing Company has had a banner year including a landmark sale, with options, for up to 543 Blended Winglet shipsets to Southwest Airlines. Over the next 10 years Aviation Partners Boeing anticipates providing more than 3000 Blended Winglet shipsets to commercial aircraft operators worldwide.

The future of Blended Winglet Technology is compelling because virtually any business or commercial aircraft can benefit dramatically from this revolutionary Performance Enhancing Technology*. The advanced technology and production processes for Blended Winglets, as well as continued research and development into patented closed-loop Spiroid systems, are on the Aviation Partners Inc drawing boards in Seattle WA.

“The higher fuel prices go, the more attractive the business case

shipsets currently on order with Continental Airlines.

An active Blended Winglet development program is underway for the Boeing 767 and promises even more dramatic productivity and fuel conservation benefits. These will be customer-driven programs with product launches dependent upon market demand. Southwest Airlines’ 2003 mega order for Boeing 737-700 series Blended Winglet Systems recently validated the enormous benefits of the technology.

After completing an exhaustive analysis of Blended Winglet Technology, Ryanair determined that it would save close to 100,000 gallons of jet fuel per year for every one of its Blended Winglet Equipped aircraft.

“The savings potential in fuel consumption for a plane equipped with winglets is up to 5%. In addition, the range is extended by about 300 km,” says Marino, “Equipping 737s with advanced Blended Winglets has contributed significantly to

Blended Winglet Equipped Boeing 757s and 767s will save operators between 200,000 and 300,000 gallons per year per aircraft.

looks for Blended Winglet Technology,” says Aviation Partners Boeing CEO Mike Marino. “With crude oil prices currently over \$55 a barrel, Performance Enhancing Technology is good news for airlines trying to cope with today’s spiking fuel prices.

“The average operator saves over 100,000 gallons of fuel per year for every Blended Winglet Equipped 737. Blended Winglet Equipped Boeing 757s and 767s will save operators between 200,000 and 300,000 gallons per year per aircraft.”


Blended Winglets are more than twice as effective as conventional angular winglet systems because they’re sized for maximum performance and, with a smooth transition from wing to winglet, they disperse wing vortex drag more effectively than traditional winglets.

What started out as revolutionary technology quickly became an evolutionary process as more and more aircraft operators became aware of this Performance Enhancing technology. “Blended Winglets give aircraft owners a performance and value boost and they’re the environment’s best friend. This really is a big deal,” says founder and Chairman Joe Clark. “We believe that anything you can do to improve the productivity of an aircraft is a wise investment.”

Over 670 Next Generation Boeing 737-800/700s are currently flying with Blended Winglet Systems together with 86 Boeing Business Jets and close to 80% of the eligible worldwide fleet of Gulfstream II business jets.

Aviation Partners Inc’s new Blended Winglet Program for Raytheon Hawker 800XP/800 series business aircraft has generated more than 30 orders with 14 aircraft currently flying with Blended Winglet Technology. Blended Winglets for the Boeing 757-200 achieved FAA certification in May with 18

higher performance and lower fuel costs for Southwest Airlines. European leading low-fare carrier Ryanair is also poised to measurably gain from productivity advantages of Blended Winglet Technology later this year.”

The company envisions 2005/2006 as growth years for Aviation Partners Inc and Aviation Partners Boeing. Having made remarkable advances in the science of aerodynamically enhancing wing performance over the past dozen years, the future is indeed exciting with a potential universe of some 30,000–40,000 aircraft capable of benefiting from Blended Winglet Technology.  *Patent# 5348253



Virtually any business or commercial aircraft can benefit dramatically from Performance Enhancing Technology. Inset, close up view of a winglet