

# WINGS CHAMBER

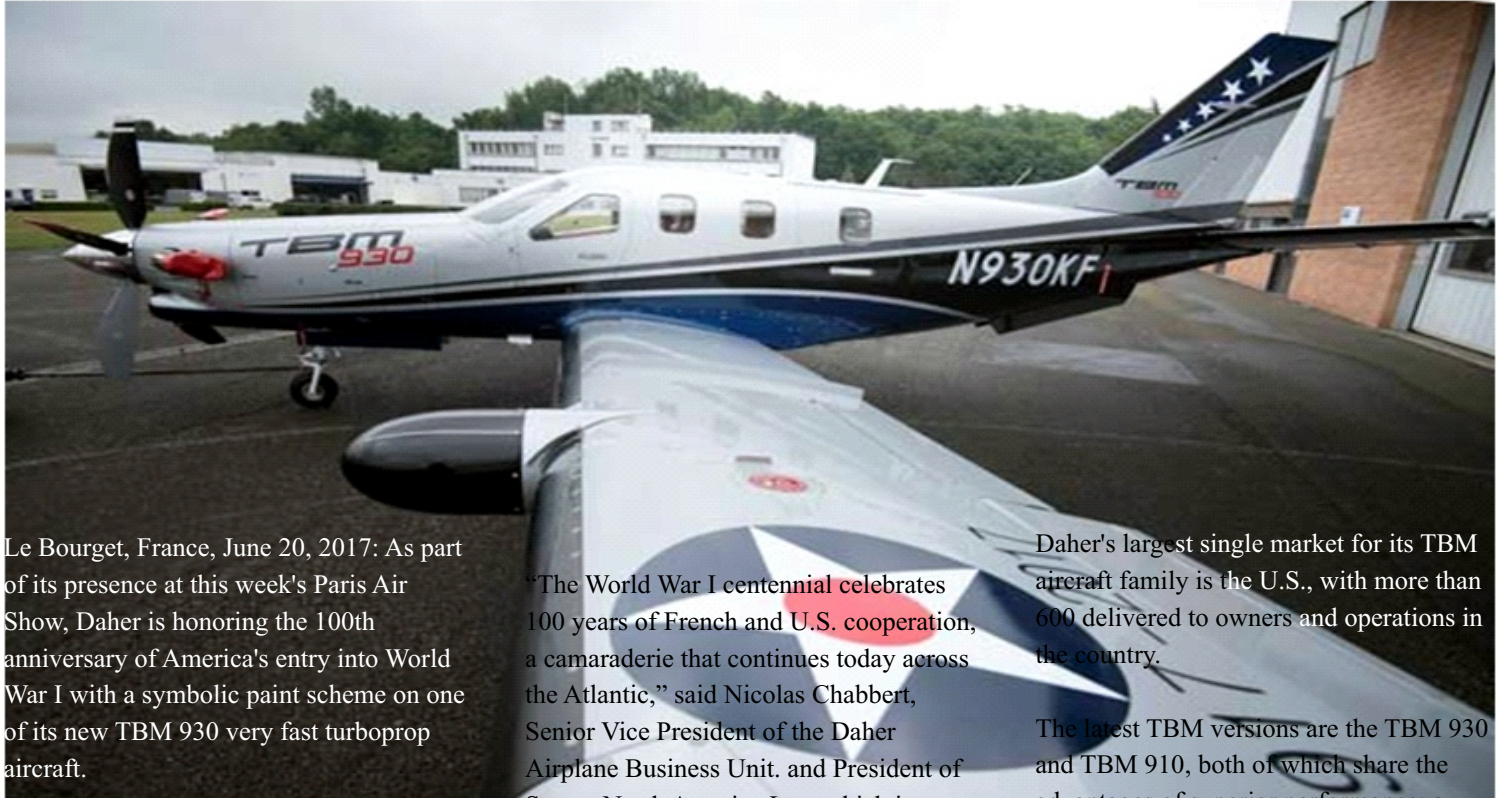
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## A symbolic Daher TBM 930 to honor the centennial of America's entry into World War I



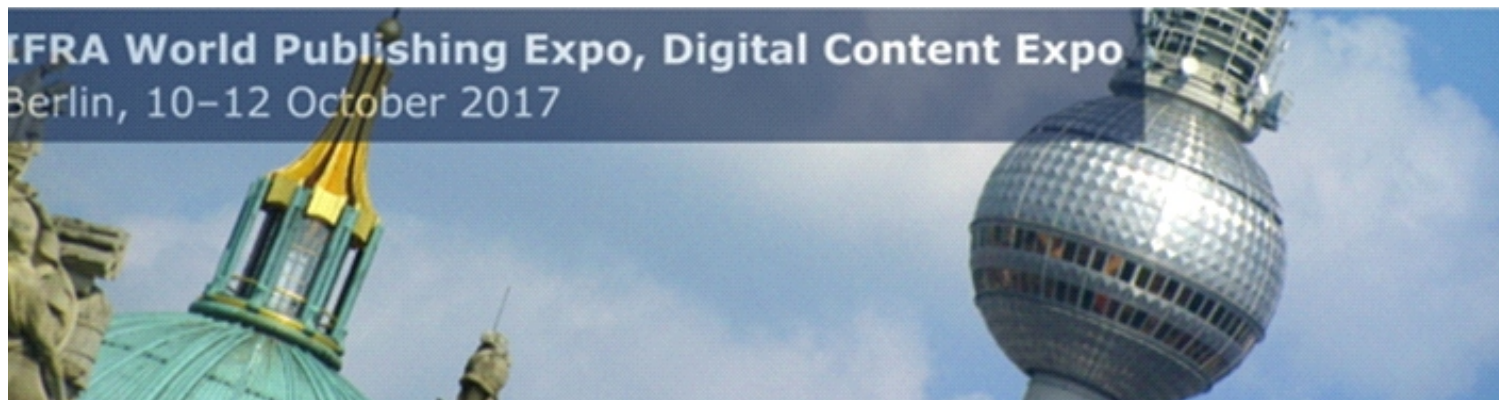
Le Bourget, France, June 20, 2017: As part of its presence at this week's Paris Air Show, Daher is honoring the 100th anniversary of America's entry into World War I with a symbolic paint scheme on one of its new TBM 930 very fast turboprop aircraft.

The stars and stripes featured on this TBM 930 are a reminder of the role of France's Morane-Saulnier the predecessor aircraft manufacturer to Daher in developing America's nascent air power during the early 1900s. Morane-Saulnier's "Parasol" high-wing aircraft served as trainers for the American Expeditionary Forces at Issoudun, France, which was the world's largest air base at the time.

"The World War I centennial celebrates 100 years of French and U.S. cooperation, a camaraderie that continues today across the Atlantic," said Nicolas Chabbert, Senior Vice President of the Daher Airplane Business Unit, and President of Socata North America Inc., which is Daher's subsidiary in the USA. "We are proud of Daher's continued American presence, with nearly 1,000 airplanes in operation composed of our TBM very fast turboprop, as well as the Rallye and TB general aviation aircraft. Backed by a network of 15 service centers, our company continues to give wings to U.S. aviators."

Daher's largest single market for its TBM aircraft family is the U.S., with more than 600 delivered to owners and operations in the country.

The latest TBM versions are the TBM 930 and TBM 910, both of which share the advantages of superior performance: a maximum cruise speed of 330 kts., a highly efficient 1,730-naut. mi. maximum range and a fuel consumption at economy cruise of 37 U.S. gallons per hour. The two models are differentiated by their primary avionics: Garmin's G1000NXi avionics system with physical keypad for the TBM 910; Garmin's G3000 with touchscreen controller for the TBM 930.



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# Oriens Aviation confirms aircraft sale at Goodwood Festival of Speed - Pilatus PC-12NG wins over first-time aircraft owner with its versatility.

Oriens Aviation, the British Isles sales distributor of the Pilatus PC-12 is delighted to confirm the sale of a new PC-12NG, newly registered G-NBCA, to a private customer.

Handing over the keys coinciding with the annual *Festival of Speed* at Goodwood, West Sussex on 30<sup>th</sup> June, CEO Edwin Brenninkmeyer commented: “The Oriens team are especially proud to be making this formal acceptance at this terrific aerodrome in Goodwood, because it completely fits with the customer's wish to fly into the smaller, more convenient airfields, closer to one's point of departure and destination than the larger, paved, jet airfields.”

He thanked Guernsey, Channel Islands based Ocean Skies for arranging the paperwork and customs clearance and the UK Civil Aviation Authority for their swift support regarding the G-registration work. Happily accepting the aircraft, Neil Armstrong, entrepreneur owner of Armstrong Group Holdings, acknowledged he had conducted a lot of due diligence on other aircraft types and took several demo flights before determining the PC-12 as best for his business and leisure needs.

“It was the only one that ticked all the boxes. It is versatile, robust and can land on grass, gravel and even snow. It is impressively economic, with £150 per hour fuel costs and has excellent avionics. The low depreciation rate was a major factor too.”

The aircraft will be based at Leeds Bradford, near to the family's home in North Yorkshire. Neil Armstrong anticipates he will fly up to 200 hours a

year for his business interests in housing, oil and gas and utilities, and for leisure. He has interests in Jersey, the west of Ireland and Mallorca, which all suit the PC-12's flying range.

“Time is of the essence in my business. If you are marching, you're not fighting,” so this great aircraft is going to be a productive tool for the business, and it will provide us with some great family occasions too,” he said.

Neil's two sons (10 and 12) and his wife Brid, who helped influence the very stylish interior, featuring white, grey and blue hues, are all looking forward to flying in the aircraft. They were all at Goodwood to enjoy the motor racing displays and participate at the delivery and flew the aircraft home on Sunday. As well as ratifying the sale on behalf of Pilatus, Oriens helped in the recruitment of pilots for the aircraft. “We expect to use two pilots on the longer flights,” Neil confirmed.

Thanking the Oriens PC-12 team for all their hard work, he added: “I'd like to say a special thanks to Graham Ball, Oriens' chief pilot, who has been terrific throughout this process and been the ultimate professional.”

Goodwood Aerodrome, part of the Goodwood Estate, is a firm proponent of the PC-12 and is investing in a dedicated service facility for line support. Both of the Aerodrome's prominent runways have been completely regraded with an extensive drainage system to support year-round utilisation. The new Aerodrome building represents a significant investment and will be used as a base for club members, visiting pilots,

the public and the Goodwood Flying School.

### About the Pilatus PC-12

The Pilatus PC-12 can fly up to eight passengers in a luxury pressurized cabin, for up to 1,800 miles, at 320 mph and at 30,000 feet. The PC-12 features a generous cargo door and can operate from small airfields of 800 m, from gravel strips and grass, combining to make it one of the most versatile and practical aircraft. It can carry more payload than most for half the money.



Neil Armstrong with Oriens Aviation CEO Edwin Brenninkmeyer



The Armstrong family with their newly accepted Pilatus PC-12NG. Neil's two sons (10 and 12) and his wife Brid.



Pilatus PC-12





## Flying Colours Corp. completes its first Honeywell JetWave™ Ka-Band installation

The Flying Colours Corp. avionics team has completed its first installation of the Honeywell JetWave™ Ka-Band satellite communications system. Work on attaching the LRU's, radome and tail mounted antenna has just finished at the company's Peterborough, Ontario facility, making it one of the first Bombardier Aerospace Authorized Service Facilities, ASF, to fit the system. The connectivity upgrade is part of a wider Bombardier Global Express aircraft cabin refurbishment project which is expected to be completed by the end of July.

The installation of the high-speed data delivery system will ensure that the undisclosed Global customer can enjoy the same level of avionics and connectivity, as purchasers of brand new Bombardier Global aircraft who can select the system as a line fit option. "Our customer travels extensively for business and needs uninterrupted connectivity globally. We advised him to install the Honeywell system as it gives him flexible, high-speed, and modern technology, that will fulfill his need to be continuously connected," says Eric Gillespie, Executive VP, Flying Colours Corp.

Ka-Band connectivity delivers ultra-high

speed connectivity to the business jet market, and ensures a seamless connectivity experience via Inmarsat's Global Xpress (GX) Aviation service, which delivers high speed broadband via its global satellite network. The increased data speed enables business jet users greater access to live TV and video streaming across multiple on-board devices. It also supports uninterrupted WiFi enabled email, web-browsing, video conferencing, data file transfers, and voice and text capabilities.

"We are pleased to be able to maximize our status as an ASF to offer, and fit these state-of-the-art avionics system. As an increasing number of owners of mid- to long-range aircraft want to upgrade their connectivity, we are well positioned to provide the service through our in-house avionics experience and knowledge," adds Gillespie.

The avionics upgrade forms just one part of a major overhaul for the Global Express aircraft which included a pre-buy review, maintenance inspections, full interior and exterior refurbishment, IFE upgrades, and a floorplan modification.

## Business Aviation Traffic Growth Continues Positive Trend in June

**Brussels, 6 July 2017:** Traffic figures for European business aviation in June were up by 5.3% compared to a year earlier, continuing a positive trend that began in late 2016.

"Business aviation movements in Europe once again showed a healthy year-on-year increase this past month, marking eight consecutive months of sustained growth," says Brandon Mitchener, EBAA CEO, citing data provided by Eurocontrol. "What is more, with +6.2% year-on-year growth for the January-June 2017 period, this is the strongest showing for this period in a decade."

The Eurocontrol traffic figures cover departures, arrivals, internals and overflights (DAIO) in the Single European Sky area.

About EBAA:

The European Business Aviation Association (EBAA) was founded in 1977 to defend the interests of business aviation. Today, more than 800 business aviation companies (direct members or members of associate organisations) rely on the EBAA to protect their business interests. It is the only voice to represent business aviation among the European institutions. For more information, visit [www.ebaa.org](http://www.ebaa.org)



## BAHRAIN'S PREMIER INTERNATIONAL TRI-SERVICE DEFENCE SHOW

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# CANADA

## The Government of Canada and the Government of Ontario Concludes the First Early Learning and Child Care Bilateral Agreement

The Governments of Canada and Ontario are making significant investments in early learning and child care systems so that each and every child has the opportunity to succeed and reach their full potential. With confidence and a sense of optimism, federal investments will create more high-quality, affordable child care across the country and improve the lives of Canadian children and their families.

Today, the Honourable Jean-Yves Duclos, Minister of Families, Children and Social Development, and the Honourable Indira Naidoo-Harris, Minister of the Status of Women and Minister Responsible for Early Years and Child Care, [reached a bilateral agreement that reaffirms their commitment to children's development and future wellbeing and supports the unique early learning and child care needs of Ontario](#). The three-year bilateral agreement will allocate \$435 million for Ontario investments towards increasing the accessibility and affordability of high-quality licensed child care and quality early learning opportunities. This includes investments in Ontario Early Years Child and Family Centres and the creation of Regional Centres of Excellence for professional development opportunities for the early years and child care workforce. The agreement will also build on Ontario's commitment to help 100,000 more children, aged 0-4, access quality licensed child care over the next five years, and other work to support affordability for families through increased subsidies and community based funding. Annual public reporting will allow Canadians to track

progress.

This announcement closely follows a historic agreement, made on June 12, by Federal-Provincial/Territorial Ministers Responsible for Early Learning and Child Care on a Multilateral Early Learning and Child Care Framework. The Framework sets the foundation for governments to work towards a shared long-term vision where all children across Canada can experience the enriching environment of quality early learning and child care. The Framework principles include increasing the quality, accessibility, affordability, flexibility, and inclusivity of early learning and child care, with consideration for families that need child care the most. The bilateral agreement is another step to help ensure that Ontario's children get the best start in life and is supported by long-term Government of Canada investments announced in Budgets 2016 and 2017, totalling \$7.5 billion over 11 years.

### QUICK FACTS

Federal Budgets 2016 and 2017 proposed to invest \$7.5 billion over 11 years, starting in 2017-2018, to support and create more high-quality, affordable child care across the country, particularly for families more in need.

\$95 million will go towards closing data gaps, to better understand what child care looks like in Canada and track progress.

100 million will go towards early learning and child care innovation.

A portion of this investment will be dedicated to improving access to culturally appropriate early learning and child care programs for all Indigenous children.

In the coming months, the federal government will work with each province and territory to enter into three-year bilateral agreements that will address the early learning and child care needs unique to its jurisdiction and funding allocation. Through the bilateral agreements, the Government of Canada will provide provinces and territories with \$1.2 billion over the next three years for early learning and child care programs. Governments will report annually on progress made in relation to the Framework and bilateral agreements.

Following the Multilateral Early Learning and Child Care Framework signing ceremony, the Canada-Ontario Early Learning and Child Care Agreement is the first bilateral agreement to be signed with the Government of Canada.

Ontario will help 100,000 more children aged 0-4 access affordable, quality, and responsive licensed child care in schools, homes, and communities over the next five years.

On June 6, 2017, Ontario released its Renewed Early Years and Child Care Policy Framework and Expansion Plan, which outlines a vision for a high-quality, inclusive and affordable early years and child care system.

Since 2010-11, child care funding in Ontario has increased by 60 per cent to more than \$1.37 billion annually.

Since 2012-13, the number of licensed child care spaces in Ontario has grown to 389,286 an increase of 32 per cent. Research shows that there are positive relationships between quality early



# CANADA

learning and child care, parental labour market participation and child development outcomes. This is particularly true for vulnerable children

## ADDITIONAL RESOURCES

[Multilateral Early Learning and Child Care Framework](#)

## QUOTES

"Development of our early learning and child care systems is one of the best investments that governments can make to strengthen the social and economic fabric of our country. Every child deserves an equal chance to succeed in life."

*The Honourable Jean-Yves Duclos,  
Minister of Families, Children and Social Development*

"Our partnership with the Government of Canada helps us build a strong, affordable, quality early years and child care system for all Ontario families. When our children have the best possible start in life, we all benefit. This is an investment in our future."

*The Honourable Indira Naidoo-Harris,  
Minister of the Status of Women and  
Minister Responsible for Early Years and  
Child Care*

## Ontario Equipping More Adults with Essential Job Skills for Free

### Province Doubling Investment in Literacy, Math and Digital Skills Training to Prepare People for Changing Economy

Ontario is providing more free skills training for adults to help equip people with essential literacy, math, and digital skills and prepare them for the changing economy.

Deb Matthews, Minister of Advanced Education and Skills Development, was at the Laubach Literacy Ontario and Ontario Native Literacy Coalition conference in London to announce this historic new investment.

Ontario is providing free reading, writing, math and digital skills training to an additional 80,000 adult learners across Ontario over four years. In 2015-16, the province helped more than 42,000 learners develop these essential skills through its investments in adult education.

As the economy and labour market become more technology- and knowledge-based, new skills are

required. Fifteen per cent of working-age adults in Ontario have difficulty understanding calculations, reading instructions or working with a computer. This new investment will help more people get the training and skills they need to pursue employment and educational goals in a changing economy. Ensuring adult learners have the skills to succeed is part of our plan to create jobs, grow our economy and help people in their everyday lives.

### QUICK FACTS

This \$185 million investment means that Ontario will double its support for essential skills training by 2020-21, helping an additional 80,000 learners improve and upgrade literacy and skills.

This initiative is part of the government's Lifelong Learning and Skills Plan, which will ensure that Ontario's adult learners and workers have the support they need to adapt and thrive at every stage of their career.

The [Premier's Highly Skilled Workforce Expert Panel](#) advised that improving literacy was important to developing a workforce prepared for the demands of the modern economy, and made several

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## AsBAA's new Board of Directors hosts inaugural strategy meeting



First strategic meeting under the leadership of AsBAA's new Board of Directors

AsBAA, the Asian region's non-for-profit representative trade body for business and general aviation, today held its inaugural strategy meeting under the leadership of the new Board of Directors. The meeting was hosted at Sino Jet, Hong Kong, the office of AsBAA's new Chairperson Ms. Jenny Lau. It was well attended by members of the Board, representing Greater China and Southeast Asia and those members dialling in from multiple locations across the region to hear AsBAA's strategy outlined by the newly elected leader.

Jenny Lau said, "To ensure a stable transitional period for AsBAA, I called a leadership meeting for the new and existing board within one week of the

election results which were announced on the 13<sup>th</sup> June in Singapore. We have successfully come together as a team today, prioritising urgent matters and delegating tasks effectively to secure AsBAA's continued growth and stability in the years ahead. The mission remains, to represent our members and advocate on behalf of the business and general aviation industry across Asia whilst growing our community engagement. I am confident that AsBAA's new board can continue this great work of the previous Board of Directors. I am excited to be leading the association in this period of great opportunity and expansion". Ms. Lau went on to share that AsBAA's core pillars of Advocacy, Representation and Community would remain in place,

and that the association also plans some additional initiatives in 2017 and 2018. These include: an expansion of the AsBAA Student Discovery program across the APAC region, enhanced events calendar including monthly membership meetings in Singapore, producing clear government communication packs, general marketing and connectivity for members, and the development of data tool kits to further promote the economic benefits of the industry. Out-going Chairman, Charlie Mularski, who will also remain active as a member of the Board of Governors said, "The new Board of Directors has the full support of the out-going board; we will work together to implement the clear tasks and objectives on behalf of the members and the wider industry".

## Business Aviation Traffic Growth Continues Positive Trend in June



# Hartzell Propeller Expands Global Footprint

**Piqua, Ohio, July 10, 2017** - In the past year, Hartzell Propeller has expanded its global reach across the spectrum of general aviation's propeller equipped aircraft. Through a multiyear, multimillion dollar investment in advanced aerodynamics and manufacturing techniques using state-of-the-art composite and aerospace grade materials, the company today reigns as the industry leader as it begins its second century of propeller making.

"By focusing our attention on large fleets of turboprops and piston-driven aircraft, Hartzell continues to develop the highest performing and most up to date propellers that can be found anywhere on the planet," said Hartzell Propeller President Joe Brown. "These investments are paying off in real-world performance increases for OEMs, and owners and operators that choose to fly Hartzell props," he added.

## On Display at EAA AirVenture in Oshkosh

Many of these developments will be on display at Hartzell Propeller's Booth 296-297 at the 2017 Experimental Aircraft Association's AirVenture Oshkosh 2017, July 24-30.

At EAA, Hartzell Propeller will be celebrating a significant milestone - 100 years of building propellers, beginning with the wood propellers for the Wright Brothers, and culminating with the most modern and reliable high performance propellers available in 2017. That experience, built over the years in manufacturing and supporting more than 500,000 props for many aircraft types, is reflected in the company's underlying foundation of Built on Honor.

On exhibit at AirVenture will be Hartzell's 2-blade composite Trailblazer, 3-blade Bantam and Raptor applications, 4-blade aluminum and composite options, and 5-blade carbon fiber propellers for various aircraft models. Hartzell Propeller has been active since the 2016 EAA AirVenture with a number of developments, including:

### Pilatus PC-12

Hartzell Propeller has delivered more than 50 new Top Prop 5-blade composite swept tip props for the Pilatus PC-12 fleet since introduction less than two years ago. In addition, Hartzell has delivered more than 160 of these propellers to Pilatus for new

PC-12NG aircraft over that time period, bringing to more than 200 the total PC-12s flying with Hartzell's carbon fiber 5-blade propellers.

New Pilatus PC-12 NG aircraft feature the specially designed 5-blade, 105-inch diameter composite propeller as standard equipment. The propellers are available under Hartzell Top Prop program for the Pilatus PC-12 fleet, which totals more than 1,500 business aircraft.

### Supervan 900

Airplane modifier Texas Turbine Conversions has received a Supplemental Type Certificate (STC) for Hartzell Propeller's 4-blade composite swept prop designed for single-engine Supervan 900™ aircraft.

This Hartzell and Texas Turbine collaboration links engine upgrades for converted Cessna Caravans with Hartzell's structural composite propellers especially engineered for the Supervan 900. The 110-inch diameter propeller, which is 60 pounds lighter than the prop it replaces, blends advanced aerodynamics and sophisticated manufacturing processes to increase performance and deliver extraordinary reliability.

### Piper M600

Hartzell Propeller's new 5-blade composite swept tip prop has received FAA approval for installation on the Piper M600 turboprop aircraft. Hartzell's propeller was designed specifically for the top-of-the-line Piper M600. It features thin, maximum efficiency airfoils providing increased performance and outstanding ramp appeal. This prop is also available on new Piper M500s, as well as the legacy Meridian and M500 fleets.

### Cessna C-177RG Cardinal

Hartzell Propeller's composite Trailblazer prop has received an STC for Cessna Cardinals through General Aviation Modifications Inc. (GAMI). The approval covers retractable gear normally aspirated and turbonormalized C-177RG Cardinals with IO-360s and IO-390s engines. Hartzell also received a Top Prop STC for the Cessna Cardinal RG fleet featuring a blended airfoil 2-blade metal scimitar propeller. This conversion is available directly through Hartzell and the Top Prop program.

### Super Cub

Hartzell Propeller's 83-inch composite

Trailblazer propeller has received an STC for Super Cub PA-12 and PA-18 aircraft. Hartzell Propeller worked closely with Professional Pilots Inc., which owns the STC, and is marketing the conversion program from its Lowell, Ind. facility.

### HTT-40

Hartzell's 4-blade lightweight aluminum propeller was selected by Hindustan Aeronautics Ltd. (HAL) for its HTT-40 two-place turbine basic trainer aircraft. The new indigenous HTT-40 is designed and built by HAL.

### Daher TBM

Hartzell Propeller has delivered over 230 advanced swept airfoil 5-blade props for Daher TBM 700/850/900/930 aircraft since FAA approval in 2014. Hartzell's high performance structural composite propellers are now flying on roughly 30 percent of the entire Daher TBM fleet after less than three years on the market.

### XCub

CubCrafters selected the Trailblazer as standard equipment on its newest Flagship the XCub. Trailblazer props are lighter, faster and stronger than any competitor. The unlimited life Hartzell Trailblazer features a field replaceable nickel-cobalt leading edge, ensuring it can withstand demanding backcountry and bush flying.

### Top Prop Warranty

In an aviation industry first, Hartzell Propeller extended the warranty on its Top Prop conversion propellers all the way through first overhaul. This is the longest warranty for propellers offered anywhere in the general aviation industry.

### Turbine Evolution

Evolution Aircraft completed extensive performance and noise testing confirming the performance improvements of the new Hartzell 5-blade composite swept tip constant speed prop for the Turbine Evolution. The new technology 82.5-inch diameter 5-blade propeller is available as an optional performance upgrade in place of the 4-blade Hartzell aluminum prop.

### Cessna Caravan

Hundreds of single-engine Cessna Caravan 208 aircraft are now eligible for conversion to 3-blade aluminum props from Hartzell Propeller through an amended STC. The propeller is available with a TKS ice protection system approved for Flight Into Known Icing (FIKI).





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recommendations to improve adult learning opportunities

**Studies have found that a one per cent increase in literacy can lead to a 2.5 per cent increase in labour productivity.**

"The economy is changing and our government is determined to see that no one is left behind. To do this, we need to ensure that people in Ontario of all ages and at all stages of their lives are able to easily access high-quality training that will prepare them for the jobs of today and tomorrow. That's why our government has made this investment in literacy and essential skills that will help more than 80,000 additional adult learners across the province."

*Deb Matthews, Deputy Premier and Minister of Advanced Education and Skills Development*

"Literacy matters and is a critical issue for our province. We are thrilled that the Government of Ontario is increasing its investment in adult students and literacy programs across our province. This important funding will help increase the capacity of Ontario's literacy agencies to support the varied goals and needs of adult students with literacy challenges. This commitment will help adult students to build a brighter future. It's a good day for literacy in Ontario! "

*Jette Cosburn and Joanne Kaattari, Co-Executive Directors, Community Literacy Ontario*

"If you don't have literacy, it puts you way behind in life. I love to help people and I want to be social worker but I didn't have the literacy skills to succeed at college. But thanks to the great teaching and encouragement from the Barrie Literacy Council, I'm well on my way to meeting my goals. In fact, my writing skills have improved so much that I'm enrolled in Georgian College's social work program in September!"

*Diane Marion, Literacy and Basic Skills student, Barrie Literacy Council*