

Acorn Welding Granted FAA STC for New Generation Exhaust for DHC-6 Twin Otter Aircraft

New Generation exhaust replaces C6SC1107-1 and C6SC1107-3 exhaust stacks, reduces exhaust related damage, cracking and offer weight, cost, & durability benefits

EDMONTON, ALBERTA, CANADA, November 1, 2021 /EINPresswire.com/ -- [Acorn Welding](#) Ltd has been granted STC approval from the FAA on new, Next Generation [exhaust](#) stacks for the DHC-6 Series Twin Otter Aircraft. This FAA STC allows Acorn Welding to extend the approval granted by Transport Canada STC# SA20-28 to those jurisdictions which rely on FAA STC approval. The FAA STC# is SA04587NY.



DHC-6 Next Generation Exhaust Installed on DHC-6-400 Launch Customer Aircraft

Equipping the DHC-6 Series Twin Otter with a modern Next Generation Exhaust stack allows the aircraft to better utilize of jet thrust generated by the PT6A-34 Engine. The PT6A-34 engine generates the 82lb while the -27 generates 90lb of jet thrust. This jet thrust more than offsets any additional drag created by the exhaust while directing hot exhaust and combustion bi-products away from the leading edge of the wing. This re-direction of the exhaust is expected to keep the aircraft cleaner during operations. A major benefit to operators will be a reduction in maintenance resulting from less sooting and corrosion of the exhaust gasses to the wing.

“ We flew the aircraft for the first time today! The crew was very happy, since they also noticed a noise reduction as a nice side effect.”

Erich Kunz

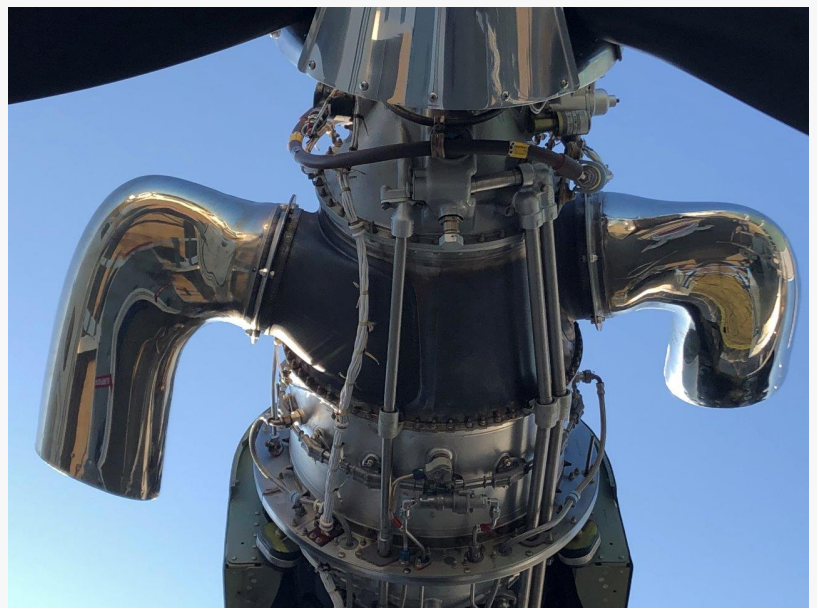
The new Next Generation exhaust installation is lighter than the existing DHC-6-400 series

exhaust in service today. It is also constructed without the use of turning veins to redirect the exhaust rearwards. The complete Inconel 625 construction will solve the engine flange corrosion problem that exists for those operators operating in highly corrosive salt-water environment. With over 1050 classic DHC-6 exhaust stacks delivered since 2006, and countless repairs, Acorn Welding is looking to the future by modernizing the DHC-6 Fleet.

The Next Generation DHC-6 exhaust is the latest addition to Acorn Welding's portfolio of turboprop exhaust products. In addition to the DHC-6, Acorn Welding Manufactures aftermarket exhaust for the Beechcraft King Air 200, 250, 300, and 350 series of aircraft as well as the 1900 and 1900D airliner. Other turboprop products include process repairs for Beechcraft Anti-Ice intake lips, engine trusses and Cessna 208 Caravan exhaust secondary exhaust assemblies. As of November 1, 2021, Acorn Welding has 799 Field Replaceable Parts approved via TCCA PDA and STC(Excluding the Seaplanes West Product line). Acorn Welding turboprop product is also equipped as original equipment on several in production and up and coming aircraft.

Acorn Welding is a world leader in welded and riveted components for all sectors of aviation with the ability to design and manufacture of Turbine Engine Exhaust, Exhaust Systems for Piston Aircraft, Engine Mounts and Support Trusses. Acorn Welding is also a manufacturer of Fuel, Hydraulic, and Pneumatic lines, reservoirs and manifolds. Capabilities include the ability to combine several processes that Riveted and Welded assemblies such as Induction Boxes, Seat Frame Elements, Engine and Flight Control Linkages, and many other products that customers require.

On July 22, 2021; Acorn Welding received certification of it's Business Management System Certified to AS9100D and ISO 9001:2015.



DHC-6 Next Generation Exhaust Installed on DHC-6-400 Launch Customer Aircraft-Cowling Removed



Acorn Welding- Your Aviation Welding Specialists

For additional information about this STC or any other Acorn Welding product visit www.acornwelding.com or contact Acorn Welding by telephone at 780-447-5955 or 1-888-388-8803 or via email at sales@acornwelding.com. Installation photos proudly supplied by Zimex Aviation Ltd of Altenrhein Switzerland(www.zimex.ch)

Paul Gryko
ACORN WELDING LTD
+1 780-447-5955
sales@acornwelding.com
Visit us on social media:
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