

ADS Toulouse, member directory entry

CAV Systems

CAV Systems is a leading provider of ice protection and drag reduction technology to general aviation, commercial aerospace, and defence markets worldwide. Our history can be traced back to 1942, when one of our proprietary technologies – TKS® was first formed to tackle the issue of icing on newly formed aircraft.

A critical technology and manufacturing partner to major commercial OEMs, CAV provides design, manufacturing and consultancy services involving more than 7,000 aircraft, as well as bespoke solutions for new individual aircraft.

Core Activities

The only supplier of fluid-based ice protection systems globally and the leading supplier of laser perforated surfaces, CAV has systems installed in over 100 different aircraft variants.

Working alongside aircraft engineers, CAV assists in the design, testing, analysis, manufacture, integration, and approval of unique technology solutions to overcome critical safety challenges and increase the efficiency of flight.

Employee Number

114

Annual sales

£13m

Areas of expertise:

- Lowest power, ambient temperature anti-ice protection system available on the market.
- Ability to provide in metallics and/or composites.
- TKS is installed in over 100 different aircraft variants and is the market's highest performing in-flight ice protection system.
- Over the past 28 years, CAV has been the primary partner in 15 FAA/EASA FIKI certification programs. On all programs CAV provided airframe, propeller, and windshield ice protection. This is equivalent to more than one every other year!
- Between 1994 and 2022, the CAV team completed more clean sheet FIKI certification programs than any other single company /corporation in the world.

Certifications

- AS/EN/JISQ 9100
- Cyber Essentials / Cyber Essentials PLUS
- FAA 14CFR Pt145

Contact:

Mike Eggleston, CEO

m.eggleston@cav-systems.com

+44 (0) 1207 599 140

cav-systems.com

CAV Systems

Number One Industrial Estate

Consett
County Durham
United Kingdom
DH8 6SR

Please see images and logo attached. Please use purple logo with white background.

Additional Information – contacts to include in circulation list

Mike Eggleston, CEO
m.eggleston@cav-systems.com

Ken Weaver, VP Business Development
k.weaver@cav-systems.com

Alex Baty, VP Engineering
a.baty@cav-systems.com

Martin Wood, VP Technology and Business Development
m.wood@cav-systems.com

Paul Carter, Chairman
p.carter@cav-systems.com

Victoria Thompson, Marketing Manager
v.thompson@cav-systems.com

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Between 1994 and 2022, the CAV team completed more clean sheet FIKI certification programs than any other single company /corporation in the world.

More FIKI aircraft are fitted with CAV equipment each year than any other single brand of ice protection equipment.

There has never been an icing accident or incident resulting from flight in icing conditions with a CAV System certificated for FIKI conditions.

New 'Bio' fluid in development – manufactured from sustainable sources, biodegradable. Fluid ice protection proven as an alternative to bleed air on large commercial platforms – structure and engine inlet

Can provide full protection for Appendix O Supercooled large Droplets – the only ice protection system able to do so.

High manufacturing volume with extremely low scrap rates

Ability to laser drill over 800 0.0025in diameter holes per square inch

CAV's expertise is globally recognised by Airworthiness Authorities

UK CAA Design Organisation Approval (DOA) status pending – demonstrates clear and recognised capability and authorisation for self-certification of product design changes, new Supplemental Type Certificates

Only provider of porous surfaces for use in drag reduction system in use on any current Commercial platform.

Successfully expanded unique know-how in laser drilling into commercial aircraft markets

Supporting Primes with development of new manufacturing techniques for composite parts to enable their broader application