



Multi-Wing EPS

Multi-Wing is known around the globe as a leading supplier of tailored axial fan solutions. Innovation is a key part of maintaining this enviable reputation.

New to the Multi-Wing stable of products are EPS fan bristles, adhesive 'eyebrows' that attach to the end of each blade in a fan. They are an ingenious yet highly effective addition to today's best impeller technology, simply reducing the gap between the blade and its encasement, and minimising turbulence in the blade itself.

The result? Tangible improvements in key impeller performance targets: blades that move more smoothly, and impellers that operate with less noise and more efficiency.

Good for you, good for your operators, and good for the environment.



INSTALLATION

A two-fold adhesive seam attaches zero tip-clearance Multi-Wing EPS to the outer edge of each fan blade, effectively closing the gap between the blade and the fan housing or cowling.

- Suitable for all Multi-Wing fan models
- Easy to use
- Readily maintained onsite

OPERATING EFFECTIVENESS

- Testing by the Danish Technological Institute has challenged Multi-Wing EPS' strength and performance over time:
- Static strength tests – withstand loads of more than 40N/mm allowing the usual max operating speed for PAG fans
- Fatigue tests to beyond 400,000 impacts
- Performance up to 120C (the same operating range as Multi-Wing PAG fans)
- Simulated UV exposure equal to 7 months natural outdoor weathering in northern Europe without deterioration

PROVEN RESULTS

Tests have also demonstrated the performance improvement delivered by a fan with the simple addition of Multi-Wing EPS. To illustrate, testing conducted on a 5ZL impeller indicated up to **8 percentage points** improvement in efficiency and a **decrease of up to 5-10 dBA** in noise emissions. Extrapolated data will be released for other impeller models on Optimiser in future.

APPLICATIONS

High mechanical and chemical resistance make Multi-Wing EPS suitable for use in most HVAC and engine cooling applications.

Testing has shown Multi-Wing EPS are able to perform without deterioration when exposed to:

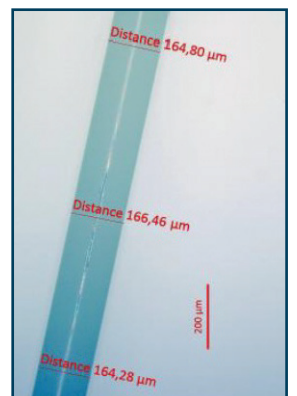
- Hydraulic oil
- Diesel fuel
- Coolant
- Refrigerant R134a
- Lubricant

TO LEARN MORE

Contact your local sales engineer.

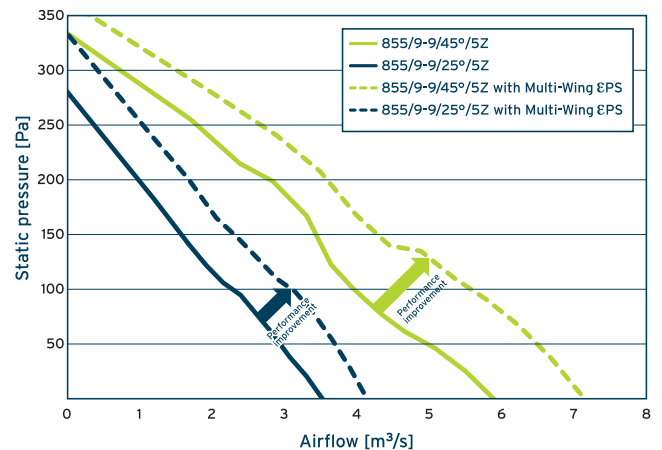


Fatigue test set-up



Microscopic photo of one hair

In short duct with 2% TC at 900rpm



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