



IN THE AIR,
BY YOUR SIDE
WE ALWAYS
INNOVATE

**SUPER LOW
SOUND FAN**
SLSF



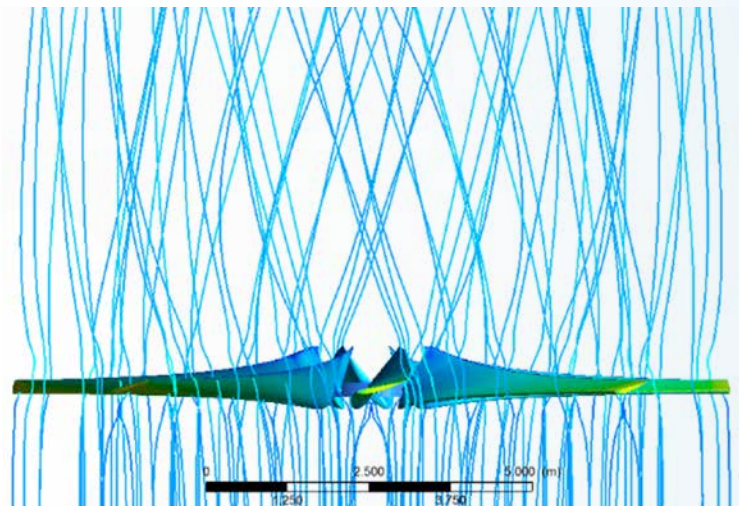
Aerodynamics

With utmost flexibility, the composite material allows us to create blades with higher aerodynamic profiles. This makes it possible to create fans that are:

**LOW SOUND
HIGHLY EFFICIENT**

Our designs incorporate CFD:
Computational Fluid Dynamics

The same technology used by **major aeronautical centers** powers our super low sound fans.

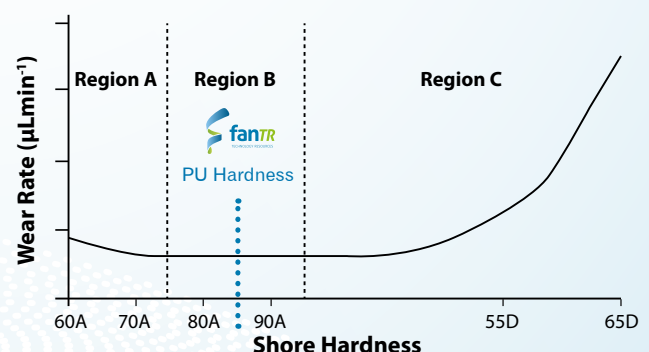


PU EDGE STRENGTH AND PERFORMANCE

Our engineering team developed a technique for **applying PU** (polyurethane) to **the leading edge** using the latest concepts in material technology. This process allows us to preserve the high performance features of our blade's geometry.

Additionally, it provides protection while representing the ideal compromise between hardness, elongation, strength, traction, and resilience. All while meeting the latest specifications and recommendations defined by ASTM.

The wear rate is a physical coefficient used to measure, characterize, and correlate the wear of materials. The lower the coefficient, the lower the wear and the higher the durability of the material.

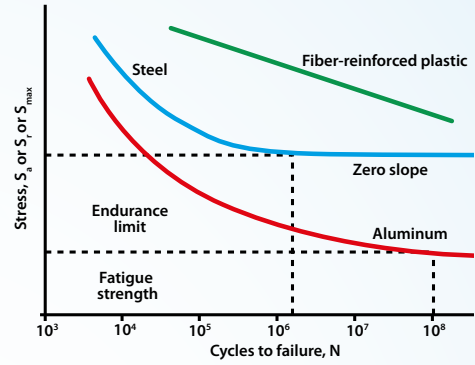
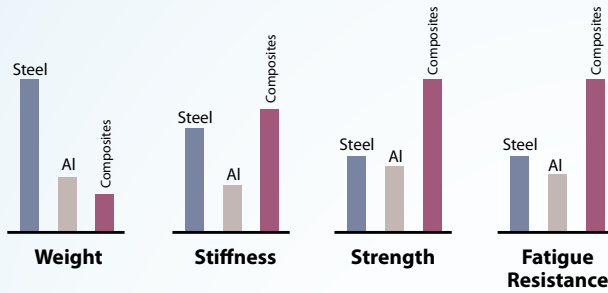


Composite Material

PROVEN TO BE MORE RESISTANT THAN ALUMINUM

Super Low Sound Fan blades from FanTR are designed to last more than 30 years.

Metal-Matrix Composites
M. Paghshenas, University of Waterloo,
Waterloo, ON, Canada / 2016



Materials Characterization
& Nondestructive Testing,
Richard Gedney, november 8, 2018

Durability

DEVELOPED AND TESTED TO LAST LONGER

Thorough FATIGUE TESTS ensure that our products have:



Greater weather resistance



Less load on components, making it lighter



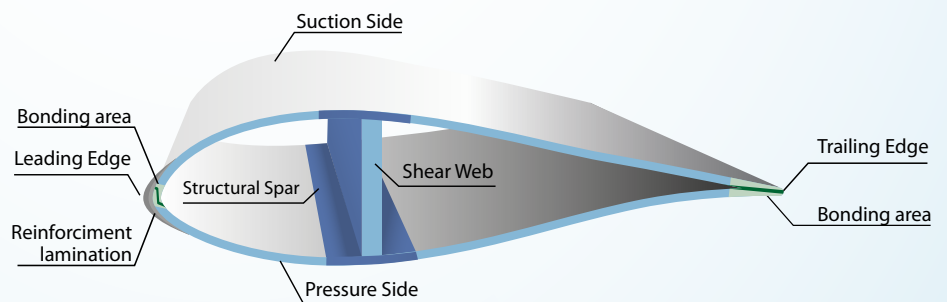
Accurate structural calculations

Safety

REDUCED MAINTENANCE

This reinforced structural design uses aeronautical concepts to provide greater safety and avoid catastrophic blade failures.

It incorporates chemically resistant material, ideal for saline or high-corrosion environments.



Flexibility

ADJUSTABLE ANGLES

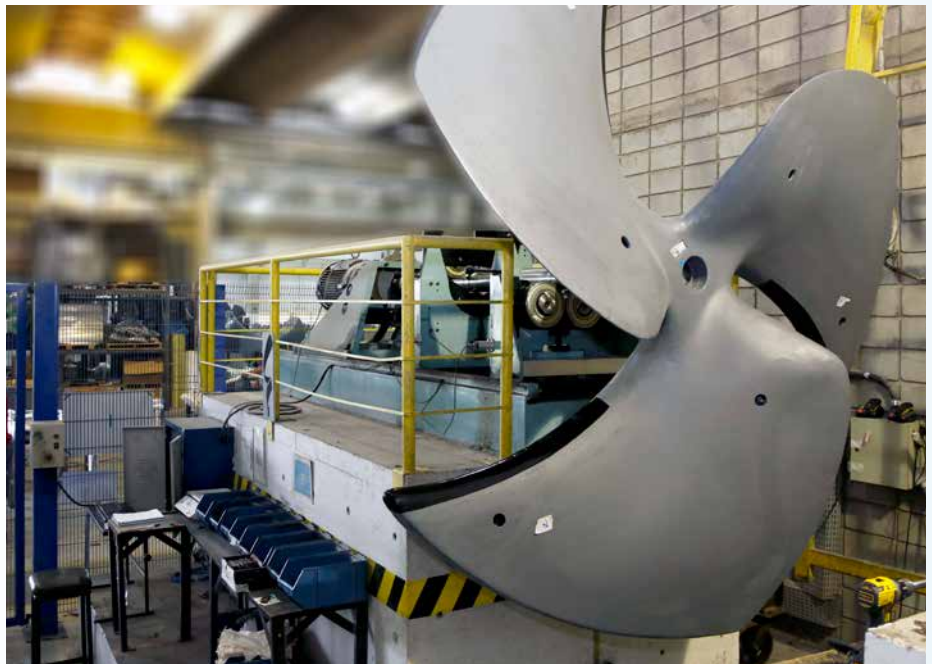
We provide solutions with independent blades and adjustable angles allow for greater flexibility.



Vibration

DYNAMIC BALANCING

Our fans are dynamically balanced at the end of their manufacturing process, ensuring **LESS VIBRATION AND LESS NOISE.**



Flammability control

When requested by the customer, it is possible to include additives during blade manufacturing for greater flammability control and resistance.



Processes

Our blade manufacturing procedure includes the **VIP Vacuum Infusion Process**, which enables us to produce defect-free blades, with process replicability and assuring compaction and an ideal resin-fabric ratio



Experience

THOUSANDS OF SLSFS
INSTALLED WORLDWIDE

Our products have been installed in countries across the globe.

Customers



We are positioned as one of the leading companies in the world when it comes to technological innovation and reliability, according to the top OEMs in the cooling market.



Quality and Competence

With more than 30 years of experience, our professionals are experts in their respective fields.

ISO9001-2015 CERTIFICATE



Daniel Strauss
Degree in Aeronautical Engineering, with a Master of Science in Aerodynamics.



Luigi Martini
Degree in Aerospace Engineering, with a Ph.D. in Mechanical Engineering



Ricardo Andrade
Engineer with a degree in Mechanics from the University of São Paulo (USP). Professional career focused on rotating machines



Ricardo Costa.
Bachelor's degree in Aeronautical Sciences with academic experience in Aerospace Engineering



Lairton Bittencourt
Mechanical Engineer with a Master's degree in Aeronautical Structures



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