

PRODUCT CONCEPT

Multi-Wing designs industrial axial fans for the worldwide Ventilation, Cooling and Industrial Heat Exchanger markets.

Our innovative system of standard, interchangeable components uses a broad range of blade profiles and materials. The result: axial fans tailored to your specific requirements with superior low-noise performance, outstanding engineering support and short lead times.



LOW NOISE OPERATION



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Airfoil Series

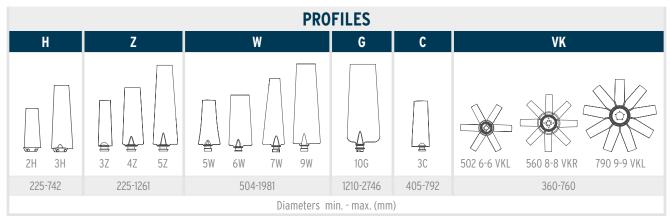
THE ANSWER IN AIR-MOVING APPLICATIONS

Saves Power. Reduces Noise. High Efficiency. Low-noise Signature and Low-power Consumption. Available in live blade materials. Customized to your specification.

Multi-Wing's airfoil profiles provide uniform, high-volume airflow with low power consumption for optimum efficiency. The airfoil's twisted design reduces turbulence across the blade's surface, resulting in low-noise impellers. Our airfoil series is widely used in the ventilation and cooling industries along with engine cooling applications where requirements are more demanding.

Multi-Wing's airfoil fans are the answer for virtually any air-moving application.

Our airfoil profile's twisted blade creates a broad operating range, making it suitable for everything from the most demanding engine-cooling applications to simple ventilation.





Sickle Series

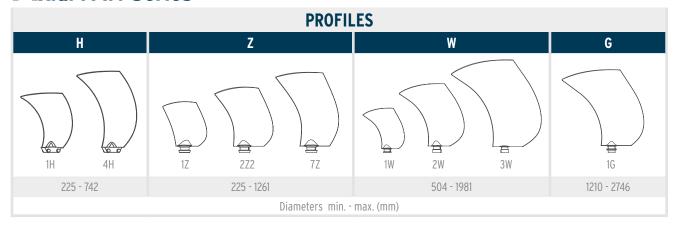
THE ANSWER IN AIR-MOVING APPLICATIONS

Saves Power. Reduces Noise. High Efficiency. Low-noise Signature and Low-power Consumption. Available in five blade materials. Customized to your specification.

The blades' large chord length and thin trailing edge combine to generate greater pressure at lower speed while significantly reducing noise levels. Imagine cutting your noise levels in half while generating more pressure at lower speed. And with companies at all levels working to comply with the European Union's directive on noise emission, our sickle-blade impellers can help you compete here and around the world.

Multi-Wing's sickle series blades are the answer for virtually any airmoving application.

The sickle profile is a natural selection for applications requiring low noise such as radiator packages for stationary and mobile construction, agriculture, compressors, generators and refrigeration applications.





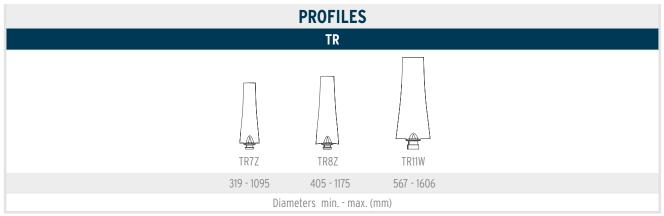
True Reversible Series

HOMOGENOUS AIRFLOW AND LONG THROW-LENGTH

High Efficiency Airfoil Profile with high efficiency and equal airflow in both rotation directions. Cost effective and customised to your exact specifications.

The use of counter-rotating side-by-side fans increases its throw distance and the velocity at greater distance and by enabling more uniform airspeed at drying processes. TR7L provide up to 74 % total efficiency and low noise levels. Also available in aluminum.









Increasing Arc Series

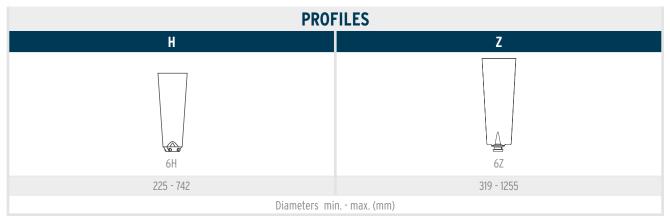
THE PERFECT FIT IN THE TIGHTEST CONDITIONS

High Performance in Challenging Environment. Lower moment of inertia means reduced wear of fan drives. Hydraulic and Clutch mounts available. Customized to your exact specification.

Multi-Wing's increasing arc series blade are the answer for virtually any air-moving application

The increasing arc series is the perfect solution for applications requiring high airflow and high static pressure, operating with inefficient inlet geometry - a sharp-edge inlet or large tip clearance. Common in engine cooling applications and radiator packages. The increasing arc profile blades' broad tip area improves impeller performance in less-than-ideal conditions

Axial FAN Series





APPLICATIONS

Construction equipment
Crane
Agriculture Equipment
Emergency vehicle,
bus and motor coach
Engine Power unit
Generator
Turf maintenance
equipment

Broad Paddle Series

THE ANSWER FOR LOW-SPEED PERFORMANCE

The Answer for Low-Speed Performance. Low-noise Signature and Low-power Consumption. High airflow. Maintain performance at lower speeds. High solidity due to a large chord length. Customized to your exact specification.

The broad paddle profile produces higher pressure at low speeds due to its broad chord width. Lower operating speeds result in lower tip-speedgenerated noise.

The broad paddle profile is ideal for coil applications such as oil coolers, aircooled condensers and dry coolers.



PROFILES		
D	М	W
8D	8M	8W
360 - 660	285 - 508	504 - 1656
Diameters min max. (mm)		





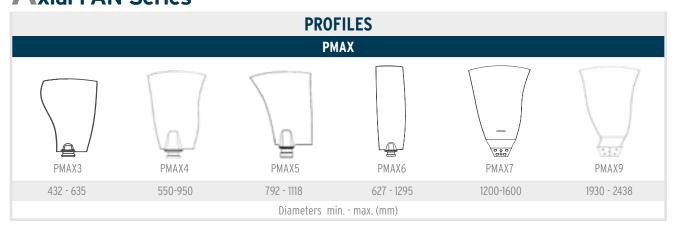
PressureMAX

THE HIGH-PRESSURE SOLUTION FOR TIER 4F, TIER 5 AND STAGE V ENGINE COOLING

High static pressure and narrow depth for restricted spaces. Minimal blade deflection. Decreased operation noise.

Multi-Wing's PMAX range is the latest generation of axial impellers designed specifically for high pressure demands and challenging inlet conditions. In particular in sharp edge orifice, PMAX delivers up to 20 percent more static pressure and is up to 7 percent more efficient than legacy profiles.

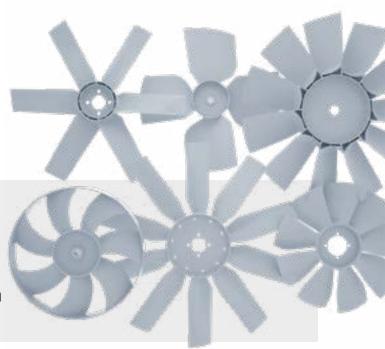






ONE-PIECE Moulded Fans

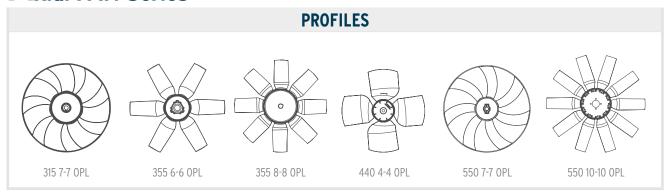
Optimized Performance for High-Volume Projects.
Ultimate tailor-made air-moving solutions.
Designed using the most advanced technology in the market. Extensively tested determine the ideal configuration. High Airflow and Static Pressure with improved Efficiency.



We design one-piece moulded axial fans for all types of applications, ranging from ventilation and cooling to industrial heat exchanger units. The one-piece moulded fans are 100% customised using our state-of-the-art technology and our research and development expertise.

The moulded fan provides outstanding performance while reducing power consumption and noise. We develop the impellers to match exact duty points and application geometries. The result is high-tech impellers at low cost.

Our one piece moulded fans are available in diameter ranging from 147 - 720 mm

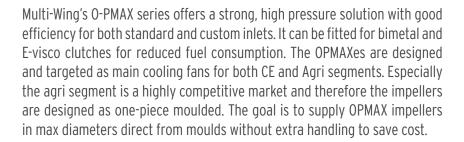




O-PMAX Series

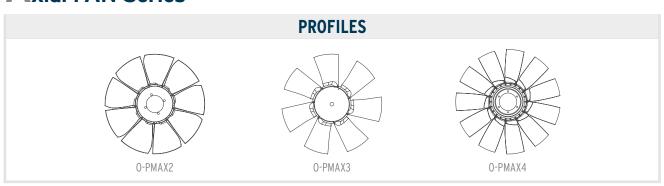
THE HIGH-PRESSURE SOLUTION FOR TIER 4F, TIER 5 AND STAGE V ENGINE COOLING

One-Piece fan. Noise reduced up to 10 dB. 5% Increased efficiency. Fixed Pitch Angle. Diameter and pilot hole customizable.



O-PMAX will help to save energy, increase fuel efficiency of machines, work towards better energy-efficiency ratings, reduce emissions and ultimately contribute to making the world a better place.

Our one piece moulded fans are available in diameter ranging from **360 - 762 mm**





O-P1 Fan

THE COST-EFFECTIVE HIGH-PRESSURE SOLUTION FOR ENGINE COOLING

One-piece molded fan. Noise reduced up to 2 dB(A) with winglet technology. Fixed pitch angle and number of blades. Bi-metal clutch compatible. Space-saving stackable design.

Multi-Wing's O-P1 fan is designed to be a very cost-effective puller fan solution tailored for engine cooling in the highly competitive high volume agricultural, construction and material handling segments. The state-of-the-art winglet technology helps to reduce noise emissions by up to 2 dB(A) in orifice plate cooler shrouds. The unique blade geometry optimizes material usage for stiffness and strength. Freight, packaging, and storage costs are minimized with a clever space-saving stackable design.

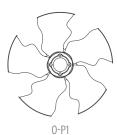
Optimal material usage for stiffness and strength

> Winglet brings up to 2 dB(A) noise reduction

Diameter range: 360-508 mm

Axial FAN Series

PROFILES





EMAX Fan

MULTI-WING'S HIGHEST EFFICIENCY BLADE PROFILE

Leading the Efficiency Revolution. Up to 77 percent total efficiency. Computer-optimized blade design. Decreases noise by 2 to 3 dB. Reduces energy consumption. Customized for your specifications. ErP Directive Compliant.

Multi-Wing's EMAX Blade Profile contributes to power consumption reduction while reducing noise by 2-3dB. Flexible EMAX design is highly adjustable to fit 5 different existing hub sizes and enables 23 different pitch angles. The EMAX blade is perfect in ventilation applications that require high efficiency rates and meets the ErP 2020 Directive. It helps minimize power consumption of the final product.

Axial FAN Series

EMAX EMAX EMAX4 624 - 920 Diameters min. - max. (mm)



MxFlo Fans

THE MIXED FLOW FAN FOR HIGH PRESSURE AND EFFICIENCY

Very High Static Pressure. Peak Efficiency at Higher Pressure. Narrow Blade Profile. Clutches Fit. Tier 4F, Tier 5 and Stage V Compliant. Optimises Performance. Less Fuel Consumption.

The Multi-Wing MxFlo is designed to provide high pressure and high efficiency in the demanding conditions engine manufacturers face using orifice plates and large tip clearances, and it fits perfectly with a viscous clutch. Built to solve the stringent emission requirement for Nonroad Engine, the MxFlo delivers its peak performance under the most challenging conditions.

The MxFlo has a propriety design that combines strategic features from Multi-Wing's long line of blade design advances. all rooted in an innovative new hub. With a narrow axial depth the MxFlo was built for the limited installation space available in engine compartments filled with cooling packages and other obstructions. And its combined axial and radial downstream airflow around the engine body while reducing turbulences and increasing efficiency.

Axial FAN Series

MxFlo MxFlo 624 - 920 Diameters min. - max. (mm)





Aluminium Fan Blades

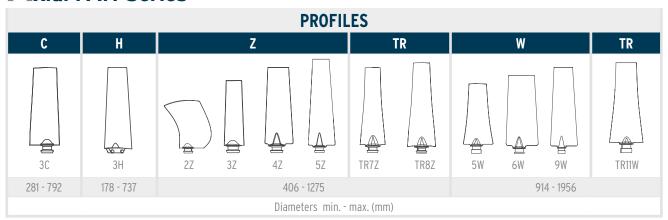
HIGH-STRENGTH COMPONENT SYSTEM

Engineered Product. High Efficiency. Adjustable and Fixed Pitch. Low Noise/Low Power Consumption. Corrosion Resistant. Custom-engineered impellers.

Multi-Wing's high-strength blades are tested and proven worldwide in the toughest conditions. Our diecast aluminum blades produce an aerodynamically superior profile. We offer thousands of options in building the perfect fan for you.

Multi-Wing's Aluminum Fans are the answer for virtually any airmoving application.

The success of our aluminum fan series starts with our high quality components. Precision die casting allows us to twist the blade along the length, creating a more uniform airflow across the blade surface. Our blades' thin leading and trailing edges reduce turbulence across the blade profile, creating our signature high-efficiency, low-noise aluminum fans.





EPS

Fan Blade Extension

CLOSING THE GAP FOR BETTER PERFORMANCE

Closing the Gap for Better Performance. Bristles on the end of each blade. Closes the gap between the shroud and the fan tip. Minimizes turbulence in the blade. Improves fan performance and reduces noise.

- · Improve pressure by up to 25 percent
- · Increase efficiency by up to eight percentage points
- Operating temperatures up to 280°F (120°C)
- · Third-party tested for chemical resistance
- Withstand loads of more than 1016 N/in. (40 N/mm)-performing at maximum operating speed for PAG fans
- Fatigue testing proves that performance and noise remain unchanged even after 400,000 impacts

With bristles on the end of each blade, Multi-Wing's EPS fan blade extensions close the gap between the shroud and the fan tip. These fan blade extensions minimize turbulence in the blade, improve fan performance and reduce noise. Static strength tested for maximum durability in tough off-road and HVAC applications, EPS fan blade extensions are compatible with Multi-Wing fans.





Fan & Clutch

COOLING SOLUTION

One Integrated Solution. Custom-made. Mixed Flow Fan. Speed Regulation. No Maintenance. E-viscous & Bimetal Clutches. Tier 4F, Tier 5 & Stage V compliant. Plug & Play

Multi-Wing designs high efficient customized fans for your engine cooling challenges such as stringent emission requirements for Tier 4 / Stage III B and beyond. For a fan speed modulation we offer a wide range of assemblies with bi-metal or electronically controlled viscous clutches to your benefit:



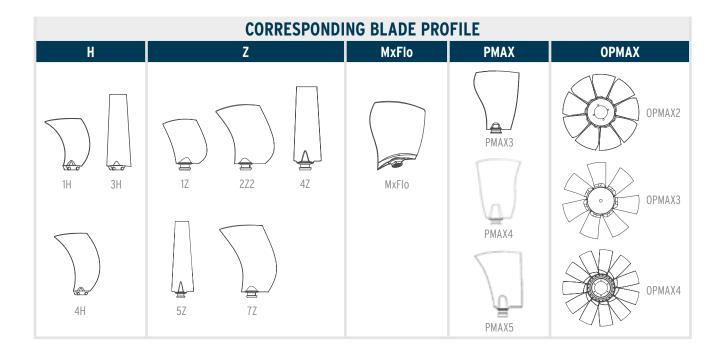
Bi-metal clutch features and advantages

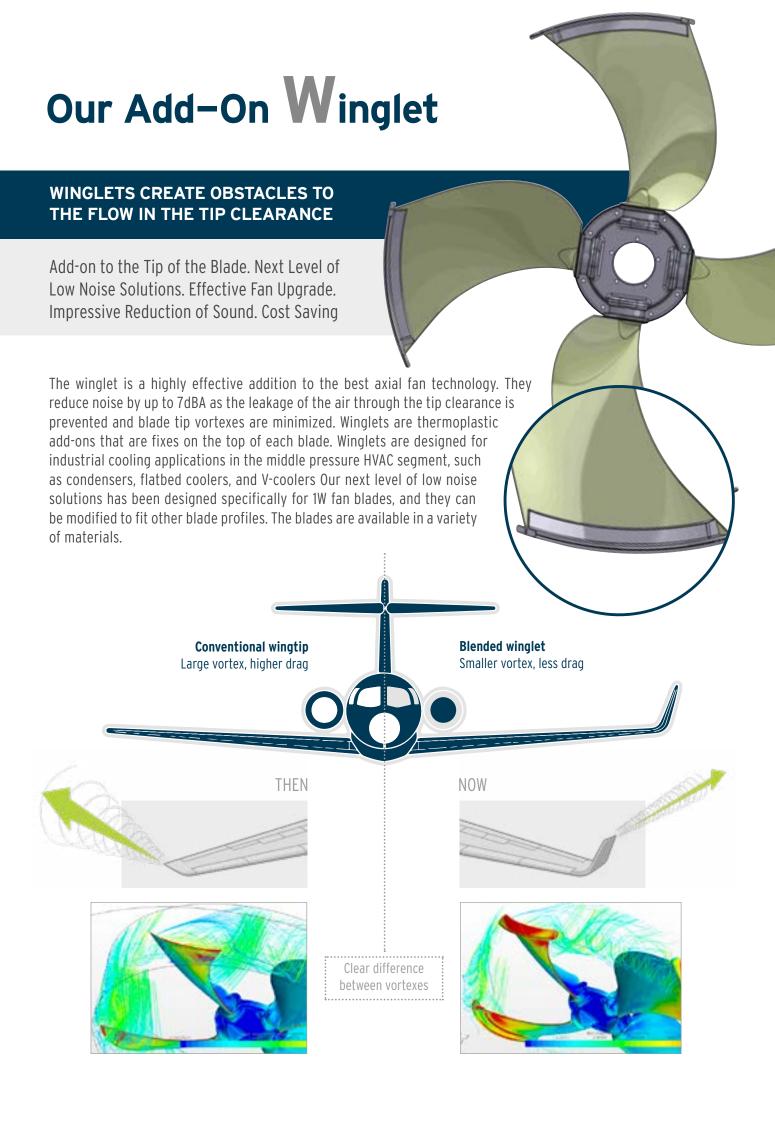
High temperature sensitivity and fast response time Light weight Flexible mounting interface



Electronically controlled clutch features and advantages:

Wide torque range and fast response times Precise modulation thanks to fan speed monitoring Very low disengaged speed Flexible mounting interface







CONTACT US FOR MORE INFORMATION

Multi-Wing Group

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Download the fan selection app.











