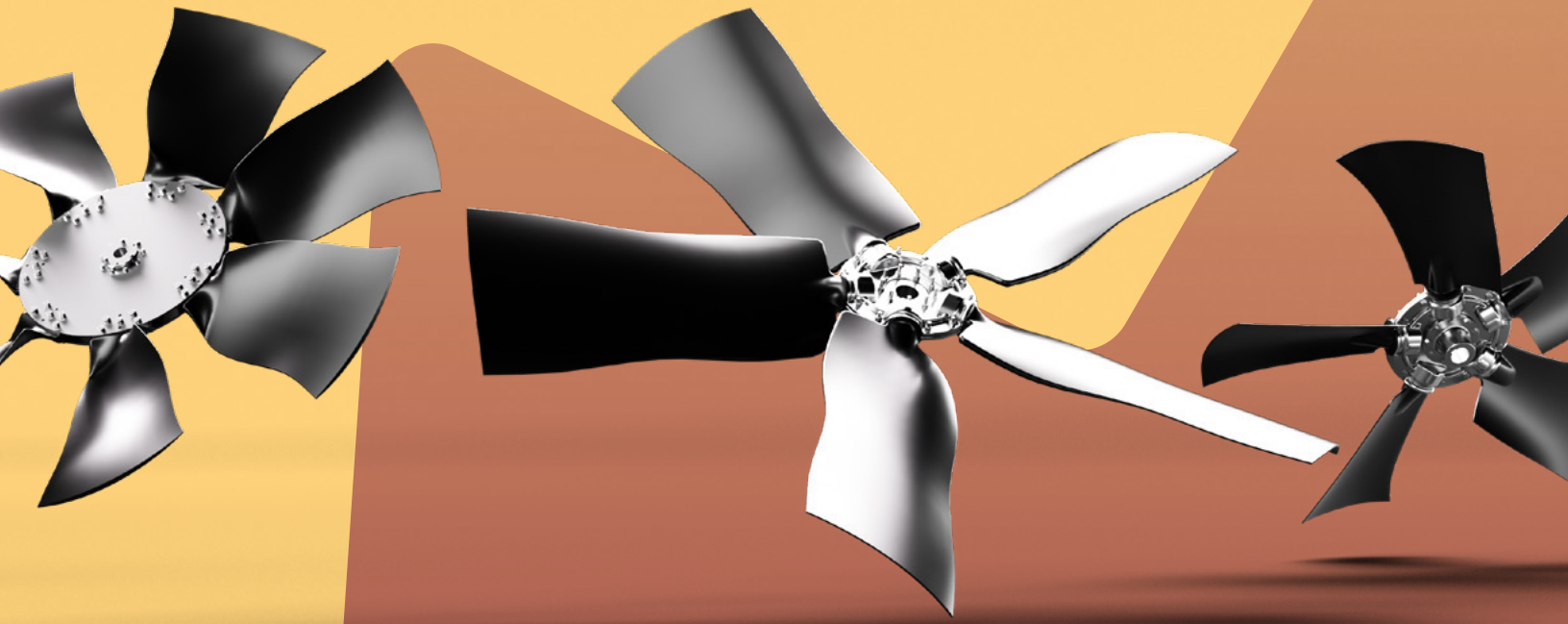


MULTI*WING



MODULAR
IMPELLER RANGE

THE WORLD'S WIDEST RANGE OF AXIAL IMPELLERS

We configure and manufacture customized axial impellers configured to suit your application from 40 different blade profiles and 37 hubs. We have over 60 years of experience solving **the most challenging targets** of fan noise reduction and efficiency improvement.

Rotation

**Right
Left**

Size it

**200-2,746 mm
7.8-108.1 inch**

Pitch angles

Adjustable pitch

Add-ons

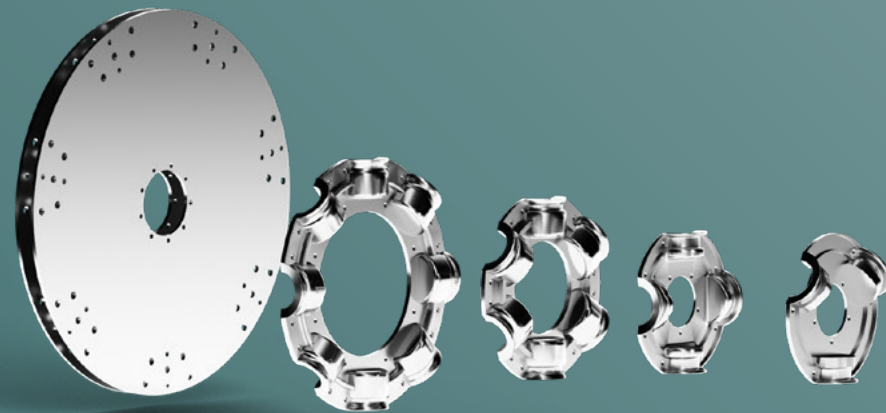
Winglets, EPS, Clutch

Shape it

40 shapes

Materials

7 types

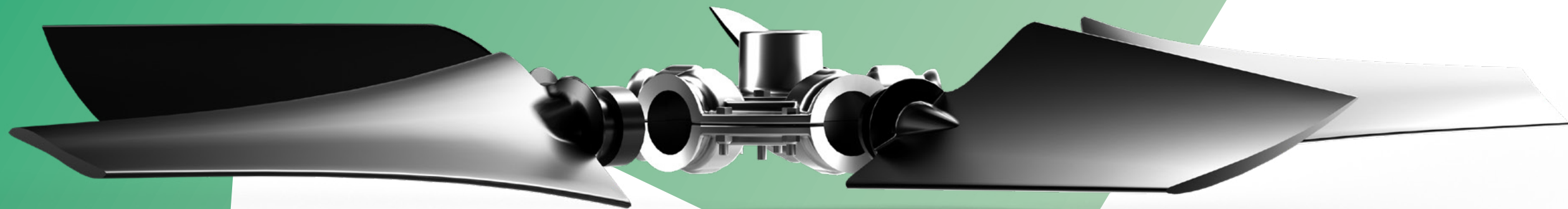


BLADE IT YOUR WAY

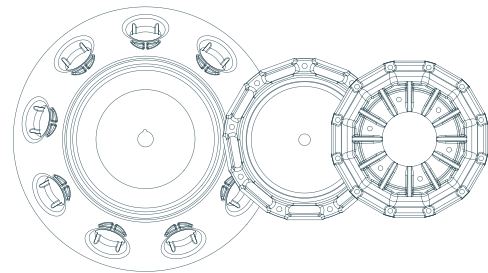
We offer 40 different blade geometries and 37 hub types to match the optimum shape with your airflow, pressure, rotation speed, temperature and other application specific parameters. Configuring a fan with the proper blade geometry optimizes airflow, lowers noise and improves efficiency.

40 Blade geometries

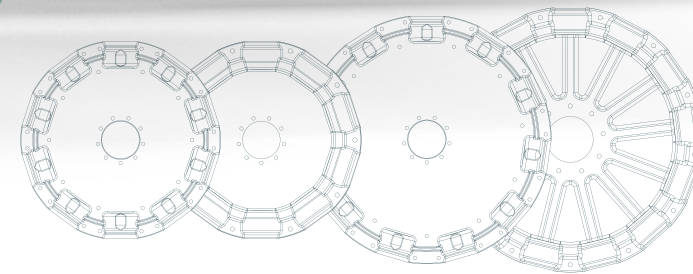
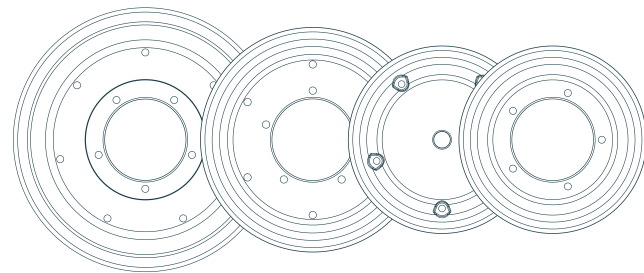
37 Hub types



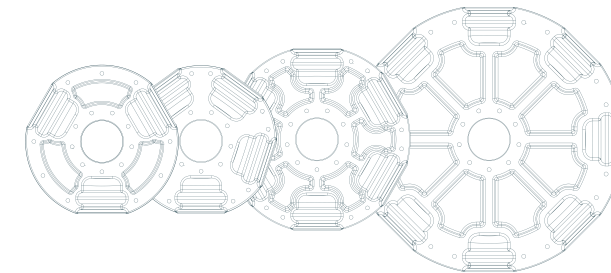
MxFlo & PMAX3 Plates



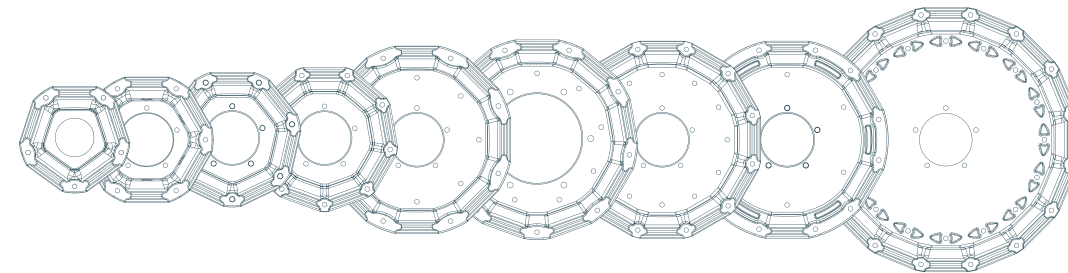
H Retaining Plates



W Retaining Plates



G Retaining Plates

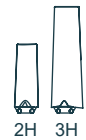


Z Retaining Plates

THE FLEXIBILITY TO KEEP YOU COOL

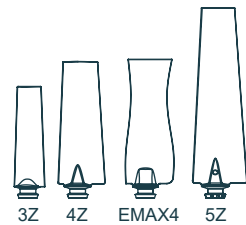
Airfoil

H



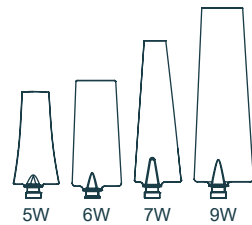
225-742 mm
(88.6-292.1in)

Z



225-1,261 mm
(88.6-496.5in)

W



504-1,981 mm
(198.4-779.9in)

G



1,210-2,746 mm
(476.4-1,081.1in)

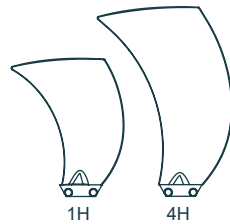
C



405-792 mm
(159.4-311.8in)

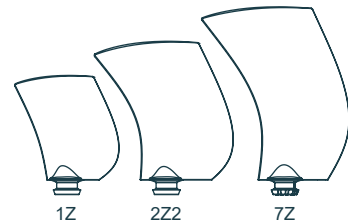
Sickle

H



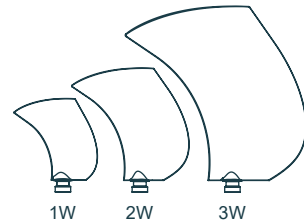
225-742 mm
(88.6-292.1in)

Z



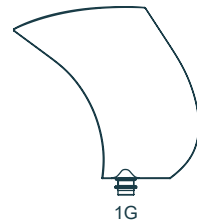
225-1,261 mm
(88.6-496.5in)

W



504-1,981 mm
(198.4-779.9in)

G



1,210-2,746 mm
(476.4-1,081.1in)

Increasing arc

H



225-742 mm
(88.6-292.1in)

Z



319-1,255 mm
(125.6-494.1in)

PMAX

Profiles



432-635 mm
(170-250in)



PMAX4

550-950 mm
(216.5-374in)



PMAX5

792-1,118 mm
(311.8-440.1in)



PMAX6

627-1,295 mm
(246.8-509.8in)



PMAX7

1,200-1,600 mm
(472.4-629.9in)



PMAX8

1,386-2,020 mm
(545.7-795.3in)

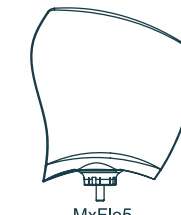


PMAX9

1,930-2,438 mm
(759.8-959.8in)

MxFlo5

Profile

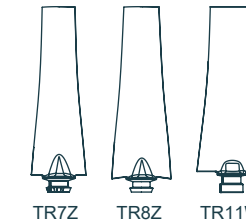


MxFlo5

624-920 mm
(245.7-362.2in)

Reversible

Profiles

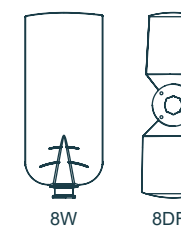


TR7Z TR8Z TR11W

316-1,606 mm
(124.4-632.3in)

Broad Paddle

Profiles

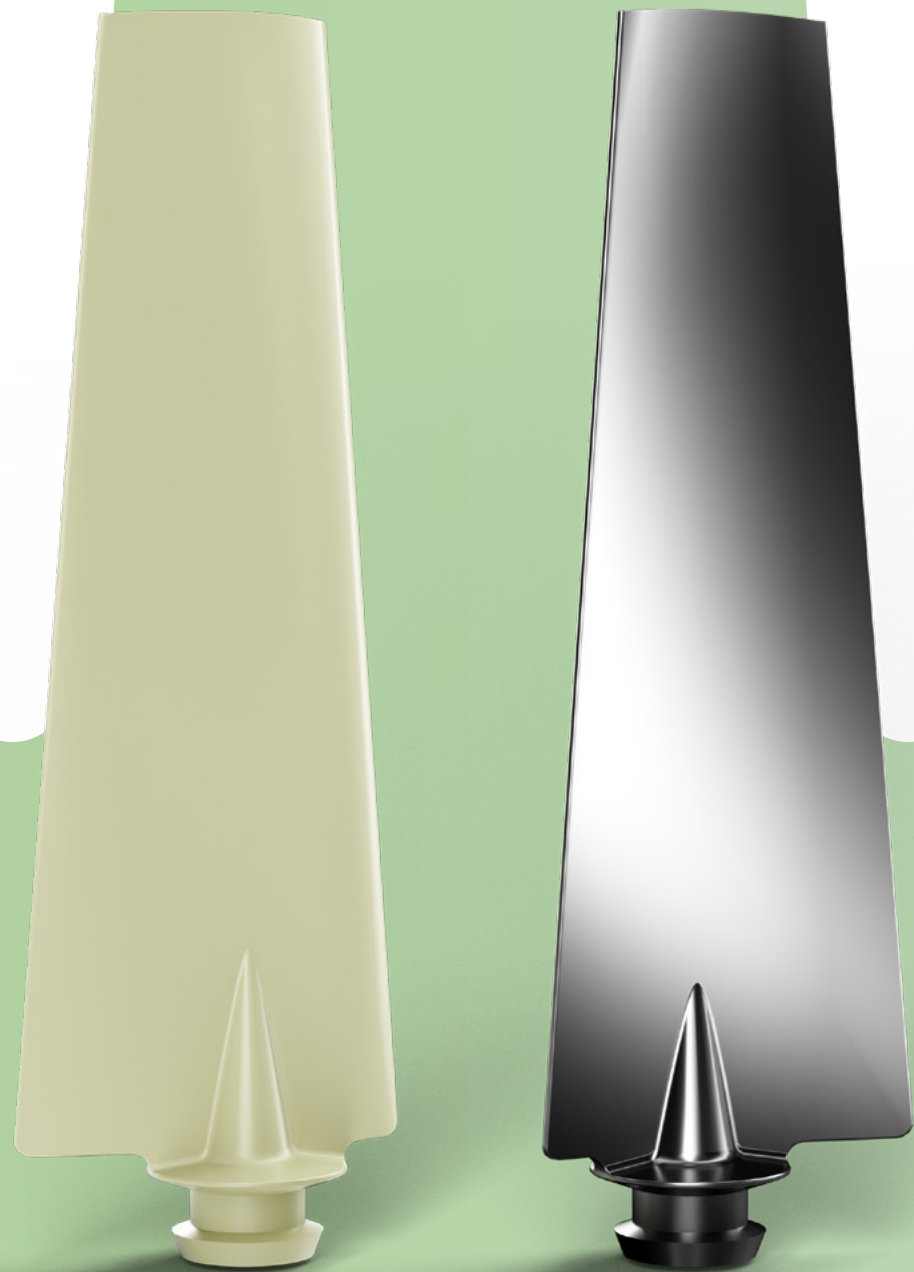


8W 8DR

283-1,656 mm
(111.4-651.9in)

MATERIALLY SIGNIFICANT

Each application calls for different combinations of materials. **Our five thermoplastic materials and two aluminium alloys cover** applications from low-pressure livestock ventilation to smoke extraction fans covering a temperature range from -60 to 400°C (-76 to 752 °F).



Thermoplastic materials

PAG

Glass Reinforced Polyamide

High strength and vibration resistance

Temperature range:
-60 to +120°C (-76 to 248°F)

PPG

Glass Reinforced Polypropylene

Lightweight and durable

Temperature range:
-30 to +90°C (-22 to 194°F)

PAGV1

Glass Reinforced Polyamide

For Rail and other applications requiring low flammability

Temperature range:
-60 to +120°C (-76 to 248°F)

PAGAS

Anti-static Glass Reinforced Polyamide

For operation in potentially explosive atmospheres

Temperature range:
-60 to +120°C (-76 to 248°F)

PAG6-C

Carbon fibre reinforced Polyamide

For extreme operating conditions Anti-static properties

Temperature range:
-60 to +120°C (-76 to 248°F)

Aluminium alloys cover

AL

Aluminium

For high temperature drying applications

Temperature range:
-60 to +245°C (-76 to 473°F)

High temperature tested
at 250°C (482°F) for maximum 2 hours
at 300°C (572°F) for maximum 1 hour

AL 400C

Aluminium

For tunnel ventilation and smoke extraction

Temperature range:
-60 to +400°C (-76 to 752°F)

High temperature tested
at 400°C (752°F) for maximum 2 hours

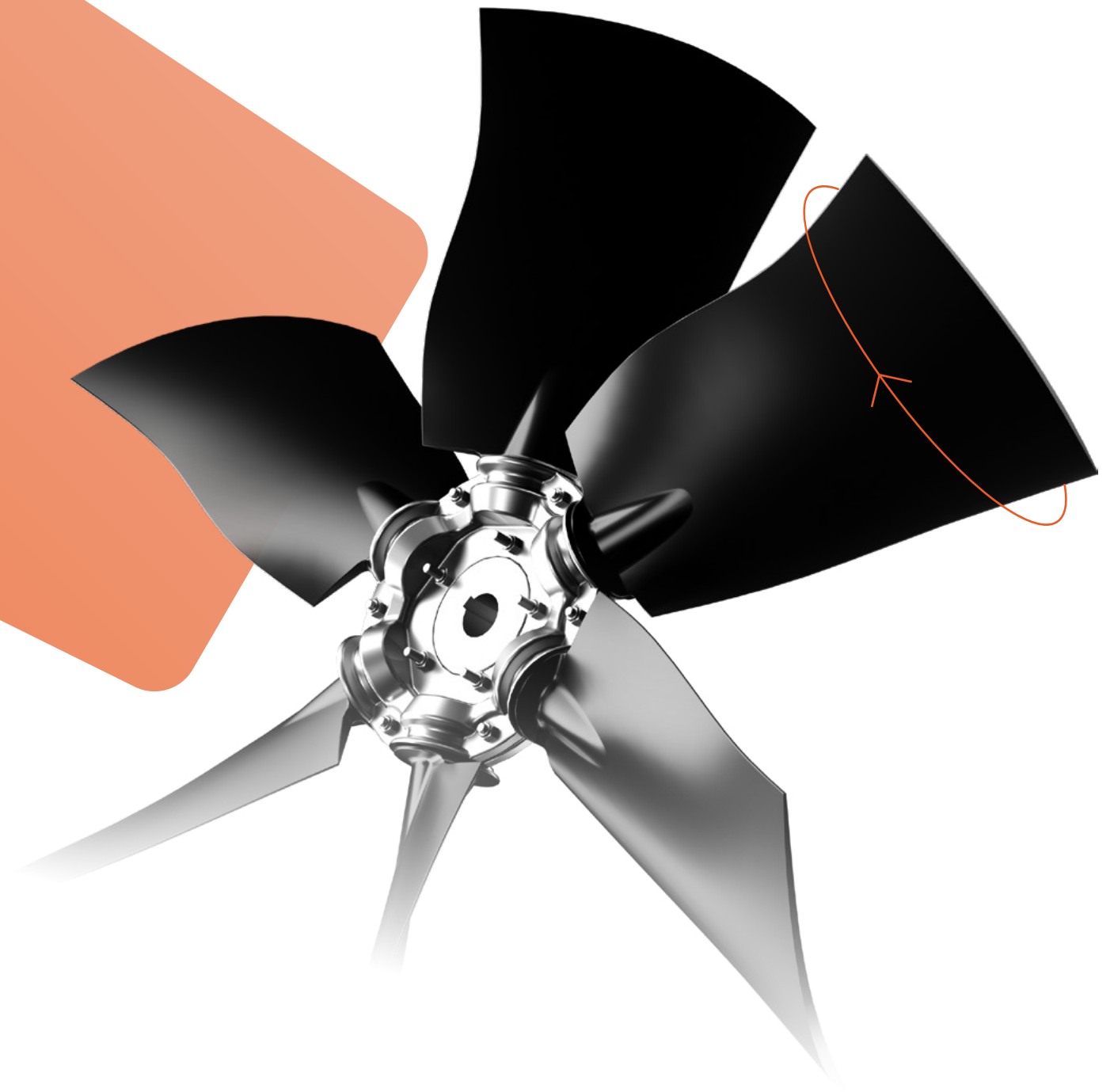
WHAT EVER WAY YOU SPIN

Most of our blade profiles are **available in both left- and right-hand turning versions** for maximum flexibility in pusher (blowing) or puller (suction) applications.



LEFT-HAND TURNING

RIGHT-HAND TURNING



Our modular axial fans can be configured and assembled with a **wide range of blade pitch angles** ensuring the optimum efficiency is achieved at your required duty point. The width of the fan can be tailored to fit into your available installation envelope by adjusting the pitch.

PITCH: PERFECT

HOW TO MAKE A GREAT IMPELLER EVEN BETTER

FOR MAXIMUM FUNCTIONALITY,
WE OFFER THESE ADD-ONS
FOR PERSONALIZED USE JUST FOR YOU.

CLUTCH

Adding a viscous clutch to an impeller brings speed modulation, reduced fuel consumption and lower noise.

EPS

Flexible fan blade extensions reduce noise and improve efficiency by minimizing the tip clearance.

WINGLETS

Winglets reduce blade tip vortices and minimize fan noise.



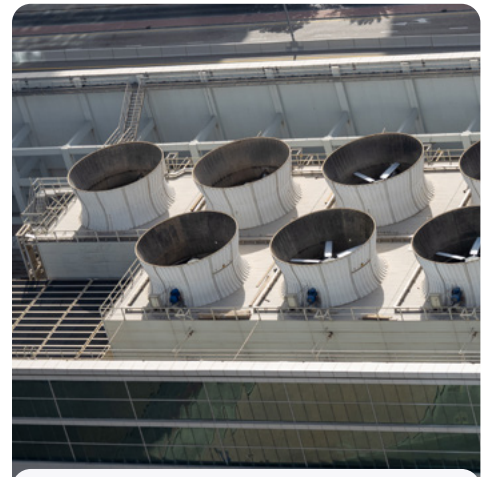
APPLICATION EXAMPLES: FROM TOUGH TO EVEN TOUGHER



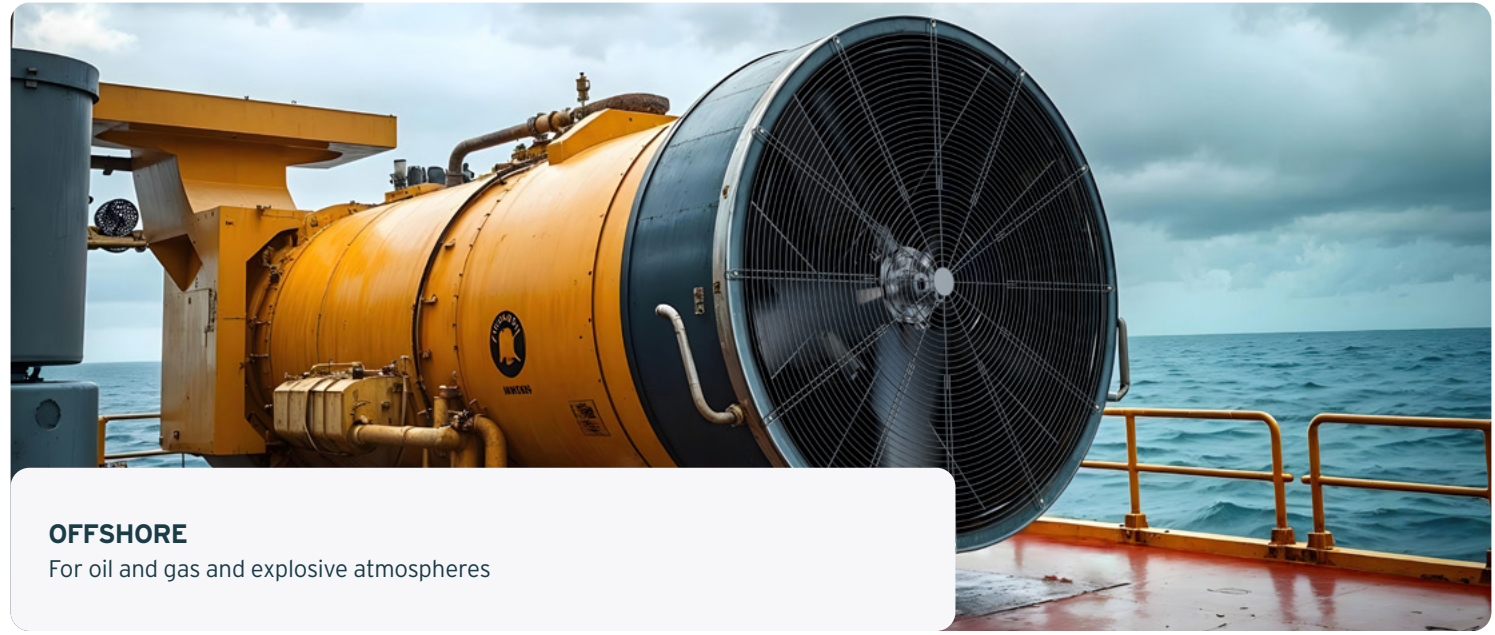
ENERGY
Efficient and low-noise cooling for
Gensets and wind turbines



WOOD DRYING
Homogenous drying with
reversible airflow



COOLING TOWERS
For high relative humidity
and low noise



OFFSHORE
For oil and gas and explosive atmospheres



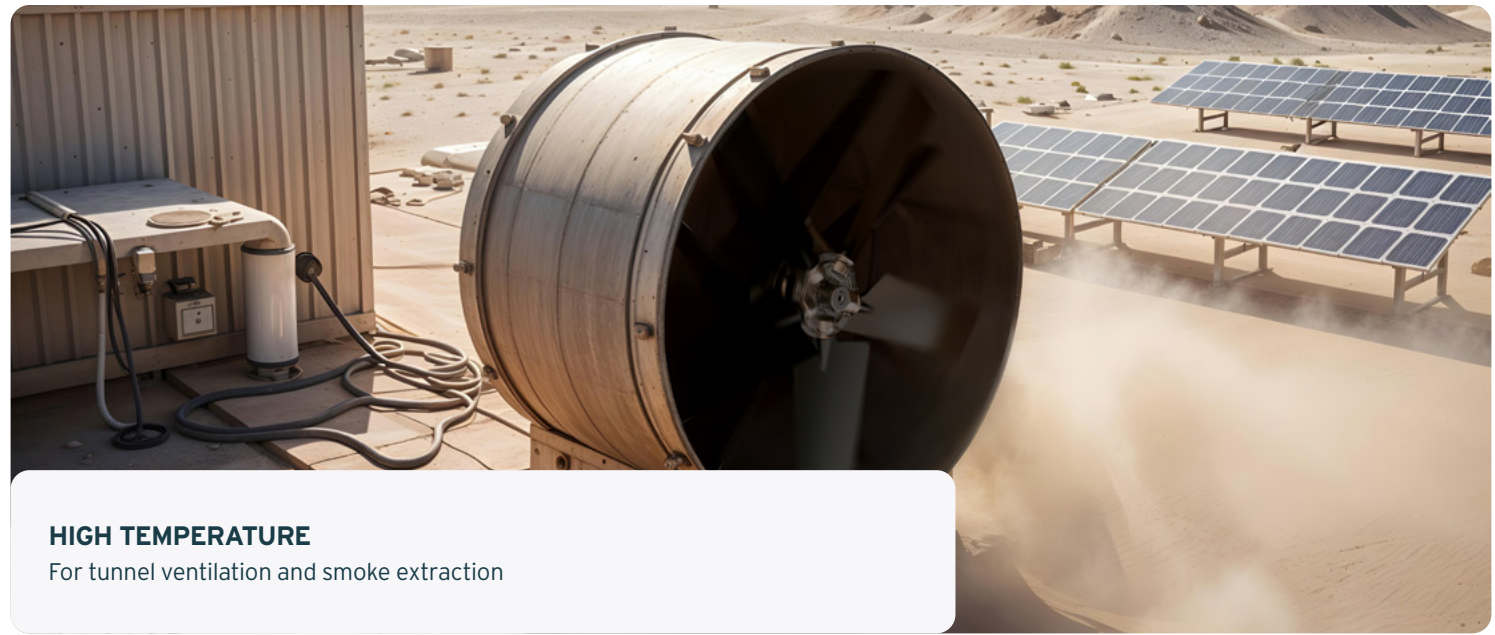
LOW TEMPERATURE
For blast freezers and cold storage



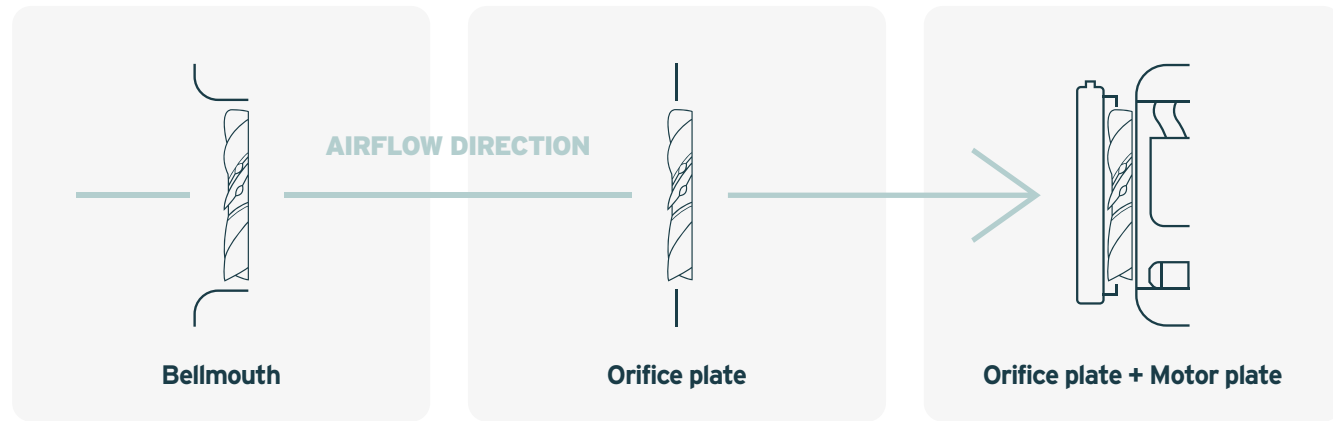
OFF-HIGHWAY POWERTRAIN COOLING
For highest pressures in harsh environments



GREENHOUSE & LIVESTOCK VENTILATION
High efficiency and maximum throw length



HIGH TEMPERATURE
For tunnel ventilation and smoke extraction

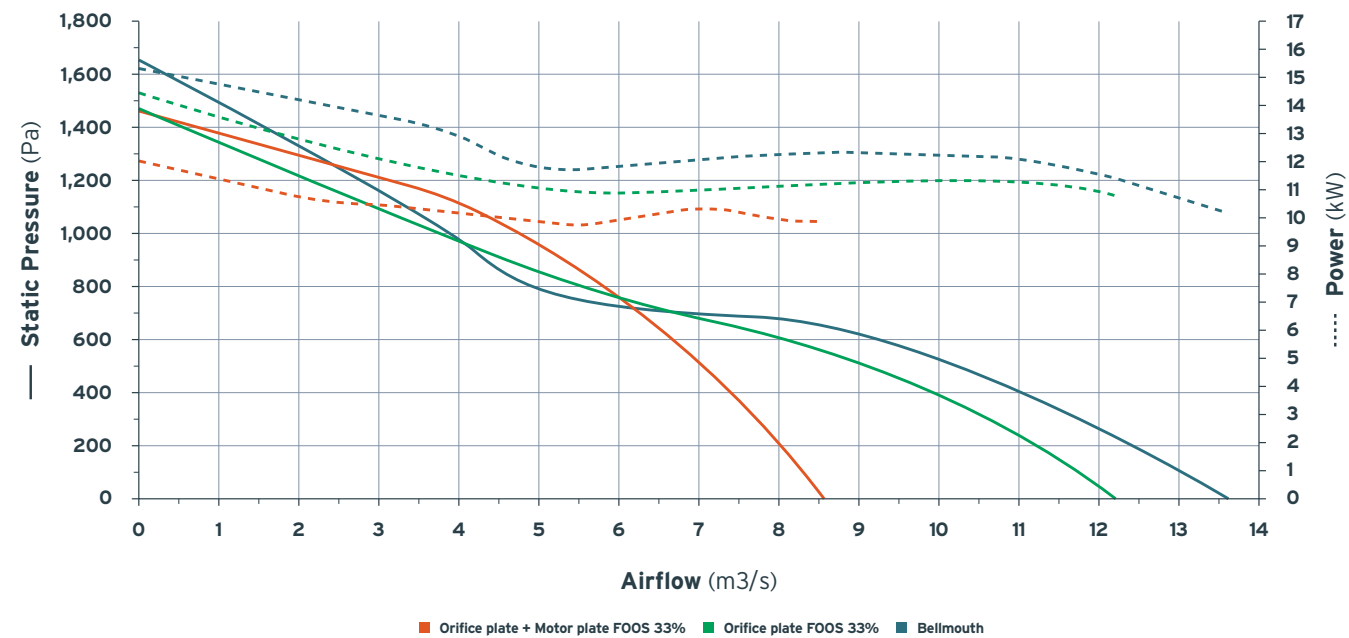


OPTIMISER FOR OPTIMAL AIRFLOW SOLUTION

Optimiser is Multi-Wing's product selection software which helps our customers to opt for the best axial fan solution matching their specific demands.



850/6-6L/PMAX4 @1800 rpm with 1% tip clearance



PMAX PERFORMANCE DATA



SHAPING AIRFLOW FOR FUTURE GENERATIONS



MULTI * WING

*** A GREENER TRANSITION**

Central to our mission and strategy is a concern for environmental impact - of our business, products, and their applications.

*** EFFICIENT & DURABLE FANS**

Designed to reduce energy consumption, lowering costs and CO₂ emissions.

*** LEGISLATION COMPLIANCE**

Exceeding ESPR and DOJ standards for peace of mind.

*** LIFETIME MAXIMATION**

Fans are repairable and serviceable, making them last longer, decreasing raw material use.

*** DRIVE REPLACEABILITY**

Design for proper recycling of electronics at end of life.

*** SCIENCE-BASED TARGETS**

Approved with a market leading net zero goals aligned with the Paris treaty.

*** UN GLOBAL COMPACT**

Active membership of the world's #1 corporate sustainability initiative.

*** RECYCLED MATERIALS**

>90% recycled aluminum from our main source.

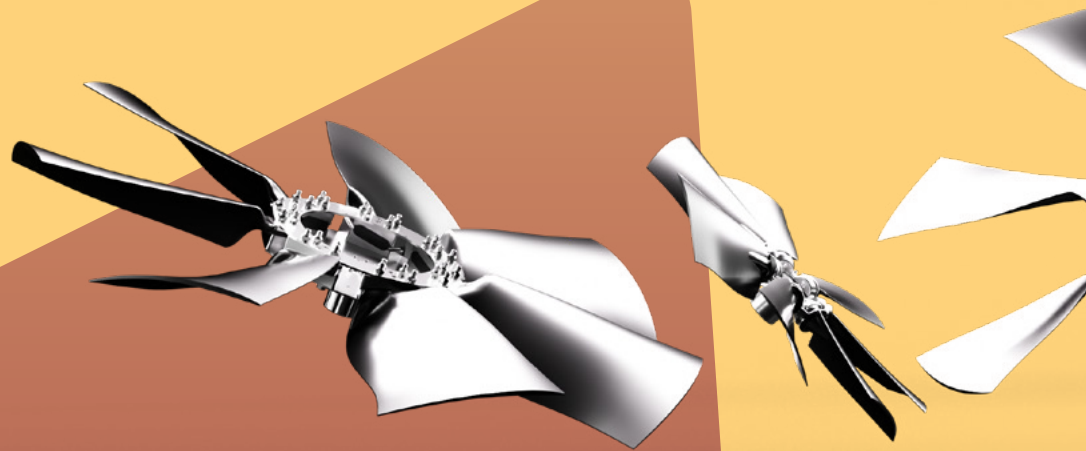
*** GLOBAL PROXIMITY**

Minimizing shipment of components and offering returnable packaging.

*** OUR DEDICATED ESG TEAM**

Ready to help you achieve your sustainability goals.

OUR COMMITMENT TO SUSTAINABILITY



GET IN TOUCH

multi-wing.com

info@multi-wing.com