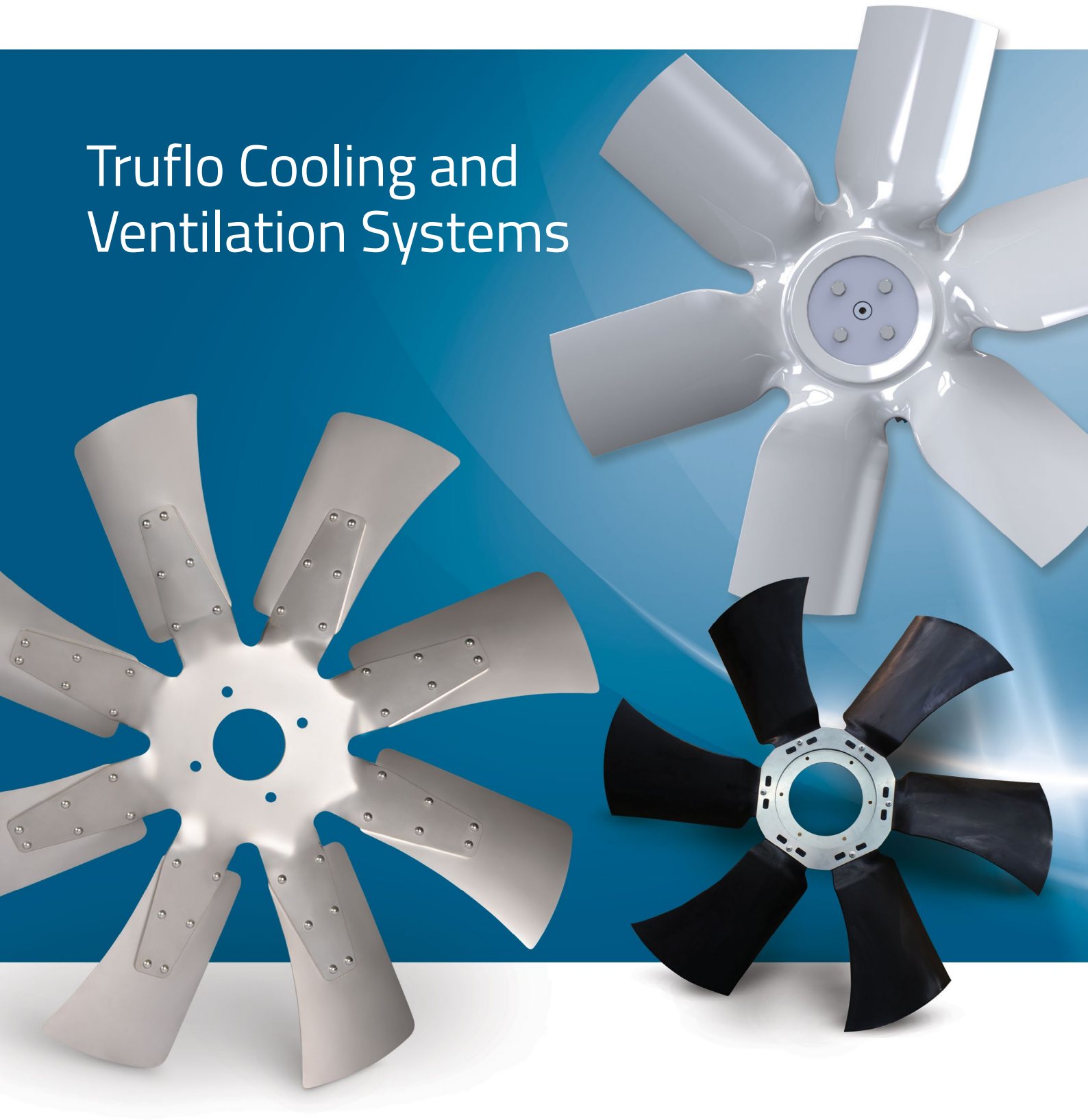




# Truflo Cooling and Ventilation Systems



# Truflo's unique engineering support and manufacturing capabilities

Truflo, who has been designing and manufacturing fans since 1962, provides their customers with distinctive design and engineering expertise as well as exceptional manufacturing capabilities. Manufacturing in the USA, UK and China to IATF 16949, ISO9001 and ISO 14001.

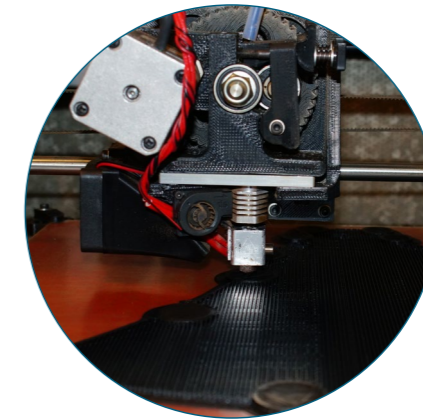


## Design & Verification



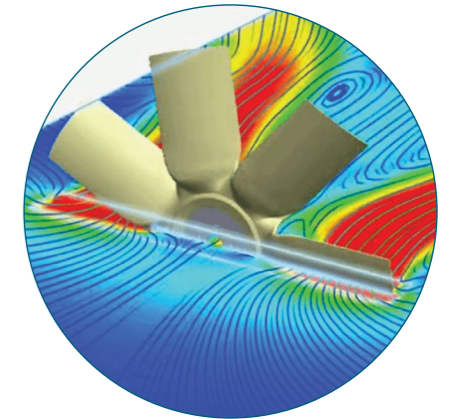
### FAN DESIGN

- Solid Works CAD
- CFD (Computational Fluid Dynamics)
- FEA (Finite Element Analysis)



### PROTOTYPING

- In house tooling
- 3D printing capabilities



### PRODUCT VERIFICATION

- Durability and environmental testing
- Thermal cyclic loading
- Modal analysis
- Fatigue testing
- Strain testing
- Performance validation
- Real world testing
- Noise recording

Truflo is an experienced global supplier of high performance fans for the most challenging applications



## Wind Tunnel

Truflo's wind tunnel is built to ISO 5801 (AMCA 210) standards and is one of the largest of its type, accommodating up to 2133 mm fan diameter.

"Real world" simulation is carried out by introducing customer engines and cooling packages such as radiators and guard covers within the chambers.

# Truflo's Fan Product Line

Truflo offers a comprehensive line of fan products ranging from 300 mm to 3000 mm in diameter. Also, our fans are offered in a variety of materials and blade profiles to meet virtually any cooling or ventilation need. All fans can be supplied with a variety of mounting configurations.



## ONE PIECE MOLDED FAN

Single-piece, glass-reinforced polyamide fan with blade geometry derived from our long experience as a market leader in radiator cooling for off-road applications. Ranges from 300 mm to 1000 mm in diameter.



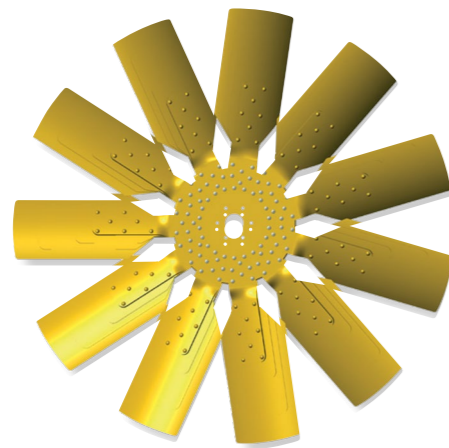
## HYBRID FANS

Plastic bladed fan incorporating a galvanized center plate to which reinforced sickle or tapered blades are fastened. Provides high efficiency and low noise. Diameter ranges from 310 mm to 1650 mm.



## SPIDER METAL FAN

Robust riveted steel construction fans providing a cost effective solution for a wide range of cooling applications. Diameter ranges from 250 mm to 1850 mm. Aluminum blades can be supplied on request where there is a requirement for lower weight or high speeds.



## SEGMENTED METAL FANS

Steel fans from 1500 mm to 3000 mm in diameter with higher pressure capability and durability. Discreet blade assemblies are attached to

the central hub providing wide ranging performance options. Can be supplied in lightweight or super lightweight versions.



## ELECTRIC FAN

Hybrid plastic or one-piece molded fan options. Lowers energy usage and CO2 emissions.

## DIAMETER SPECIFICATIONS

Fan Type	Min. Diameter	Max. Diameter
One Piece Molded Fan	300 mm	1000 mm
Hybrid Fan	310 mm	1650 mm
Metal Spider Fan	250 mm	1850 mm
Metal Segmented Fan	1500 mm	3000 mm
Electric Fan	250 mm	1650 mm



## BLADE PROFILES

Fan Type	Min. Diameter	Max. Diameter	Blade Type
One Piece Molded Fan	300 mm	1000 mm	Parallel, Sickle, Tapered
Hybrid Fan	310 mm	1650 mm	Sickle, Tapered
Metal Spider Fan	250 mm	1850 mm	Parallel, Sickle, Ejector, Tapered Twist, Bellmouth
Metal Segmented Fan	1500 mm	3000 mm	Parallel, Tapered Twist, Sickle
Electric Fan	250 mm	1650 mm	

Parallel



Sickle



Ejector



Tapered Twist



Bellmouth



## FAN MATERIAL

Fan Type	Fan Material
One Piece Molded Fan	Steel center disc, glass filled nylon blade. Other materials available on request
Hybrid Fan	Steel center disc, glass filled nylon blade
Metal Spider Fan	Steel, stainless steel, aluminum
Metal Segmented Fan	Steel, stainless steel, aluminum
Electric Fan	Plastic

# Market Applications

Truflo's cooling and ventilation systems serve a wide range of market applications including:

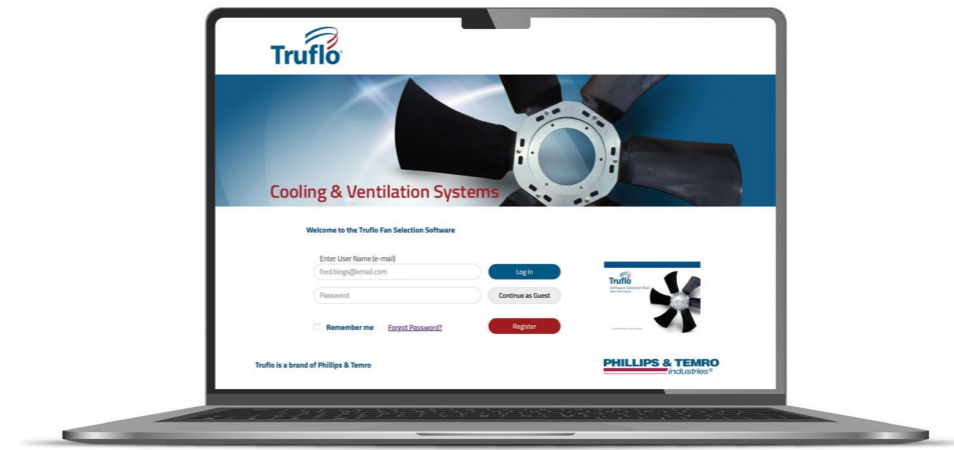
## Engine and Radiator Cooling

- Agriculture
- Compact Construction
- Construction
- Forestry Machinery
- Material Handling
- Mining
- Portable Equipment
- Power Generation



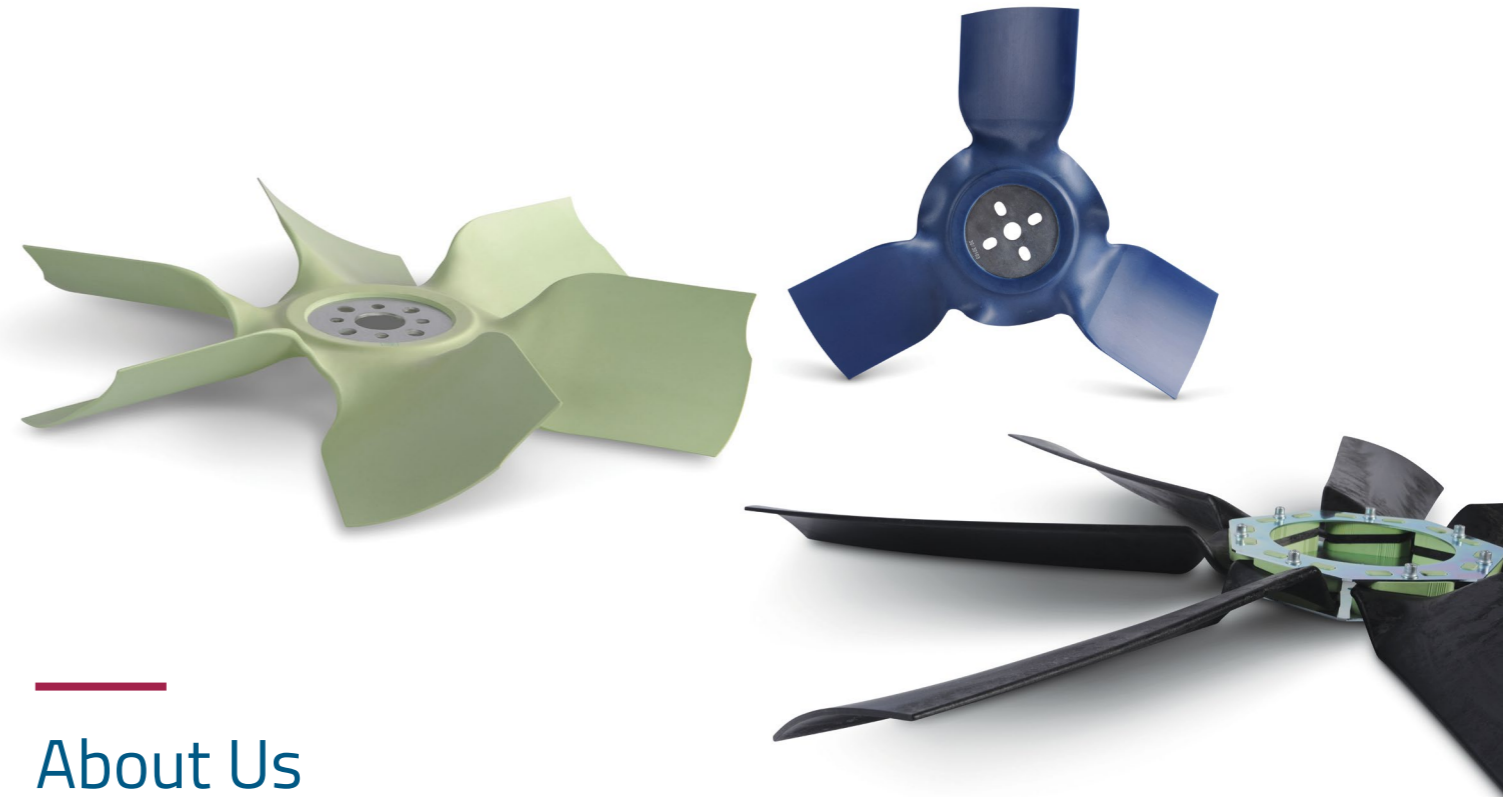
## HVAC Cooling

- Combustion Gas
- Extreme Temperature
- Food Processing
- Grain Drying
- Livestock Housing
- Marine and Offshore
- Smoke Extraction



## Fan Selection Software

Truflo provides a user friendly tool for engineers to ensure they are selecting the correct fan for their specific application.



## About Us

Phillips & Temro Industries (PTI) is a global OEM and aftermarket provider of custom engineered thermal systems and solutions. Trucking, automotive, oil and gas and off-road vehicles and power generation are just a few of the diverse markets that benefit from PTI's heating, cooling and electrification solutions. PTI manages the entire process from concept design, prototyping, and testing to delivery with a focus on quality. PTI's portfolio of industry leading brands, include Zerostart®, Arctic Fox®, Idle Free® Systems, Truflo™, and EVOCHARGE®.





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