



Who we are and what we do

The story of the world's leading manufacturer of axial impellers

OUR COMPANY

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We know that to you, the impeller is probably just one of many components. But then again, you know that the final result can never be any better than the quality of every single component. Which is why you don't want to compromise.

For 55 years Multi-Wing has been focused on just one thing: Axial impellers. As leaders in our field, we're well aware of the difference between being a trusted partner and a subcontractor. It's all about delivering the right product at the right time - and at the right price. Not to mention the level of support you can expect from an ISO 9001 : 2000 company.

Read on and you'll see why no one in the market is capable of matching our ability to optimize an impeller for your specific application. And guarantee you consistent quality and delivery performance you can rely on.

> [More at multi-wing.com/company](https://www.multi-wing.com/company)

In order to meet your specific needs, we've divided our know-how into three different markets: Ventilation, including industrial ventilation and agricultural ventilation. Cooling, including air-cooled condensers, cooling towers and evaporators. And industrial heat exchangers, including engine cooling in off-road equipment.


Being a truly global brand means that we can support your business no matter where you are. Even better, we can provide you with the shortest possible delivery time and the best possible local support. Our global presence even has a positive effect on our prices.

> [More at multi-wing.com/markets](https://www.multi-wing.com/markets)

OUR MARKETS

04 / 05





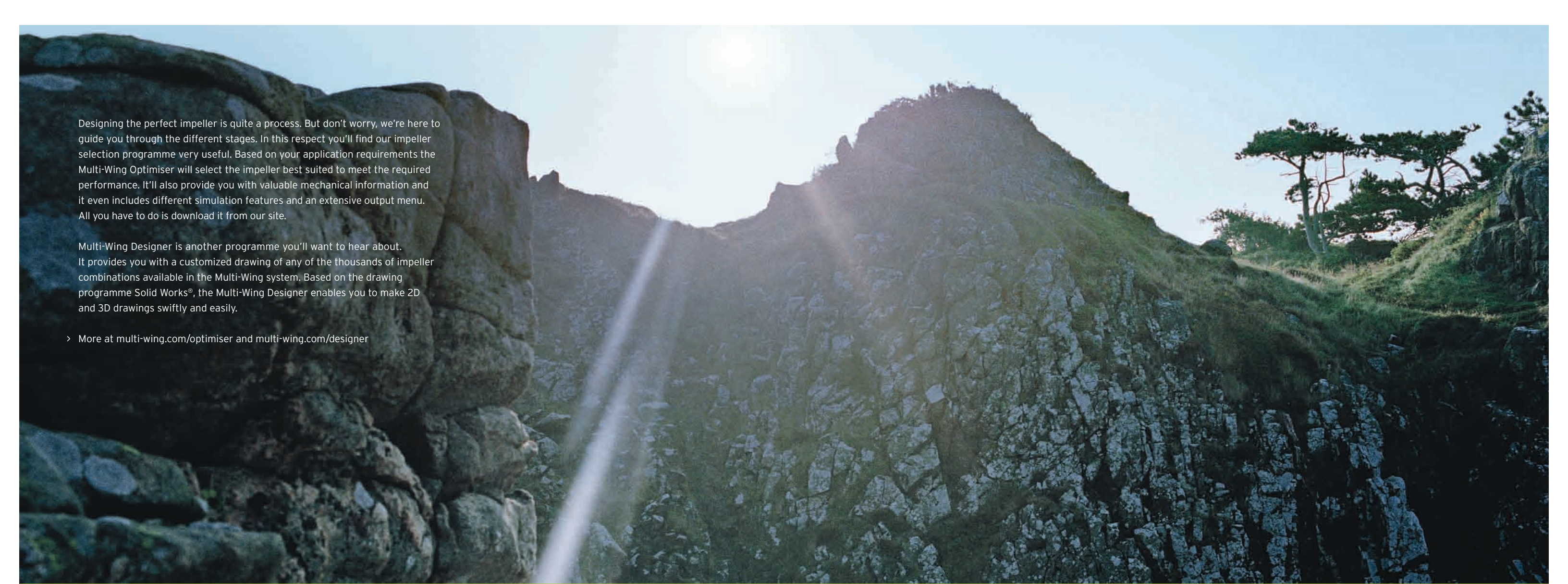
You're not just looking for an impeller, you're looking for an impeller for a specific application. There's a world of difference. With Multi-Wing at your side you can be sure to get a solution that's optimized for your exact needs. How come?

It's a matter of using the most advanced tools to be found in the business. Read on and you'll learn about Multi-Wing Designer, Multi-Wing Optimiser, the Wind Tunnel and our other R&D Facilities. Combined, they'll provide you with a solution that is bound to enhance the performance of your application.

> [More at multi-wing.com/technicalsupport](http://multi-wing.com/technicalsupport)

OUR TECHNICAL SUPPORT

06//07



Designing the perfect impeller is quite a process. But don't worry, we're here to guide you through the different stages. In this respect you'll find our impeller selection programme very useful. Based on your application requirements the Multi-Wing Optimiser will select the impeller best suited to meet the required performance. It'll also provide you with valuable mechanical information and it even includes different simulation features and an extensive output menu. All you have to do is download it from our site.

Multi-Wing Designer is another programme you'll want to hear about. It provides you with a customized drawing of any of the thousands of impeller combinations available in the Multi-Wing system. Based on the drawing programme Solid Works®, the Multi-Wing Designer enables you to make 2D and 3D drawings swiftly and easily.

> More at multi-wing.com/optimiser and multi-wing.com/designer

OUR WAY OF GUIDING YOU

08//09



Ask any of our clients, and they'll tell you that our wind tunnel is one of the reasons for Multi-Wing being the first choice of engineers all over the world. Why? Because not only has the tunnel enabled us to stay at the forefront of impeller design and to develop the most comprehensive range of impellers in the market. It also produces vital empirical data of extreme accuracy and reliability.

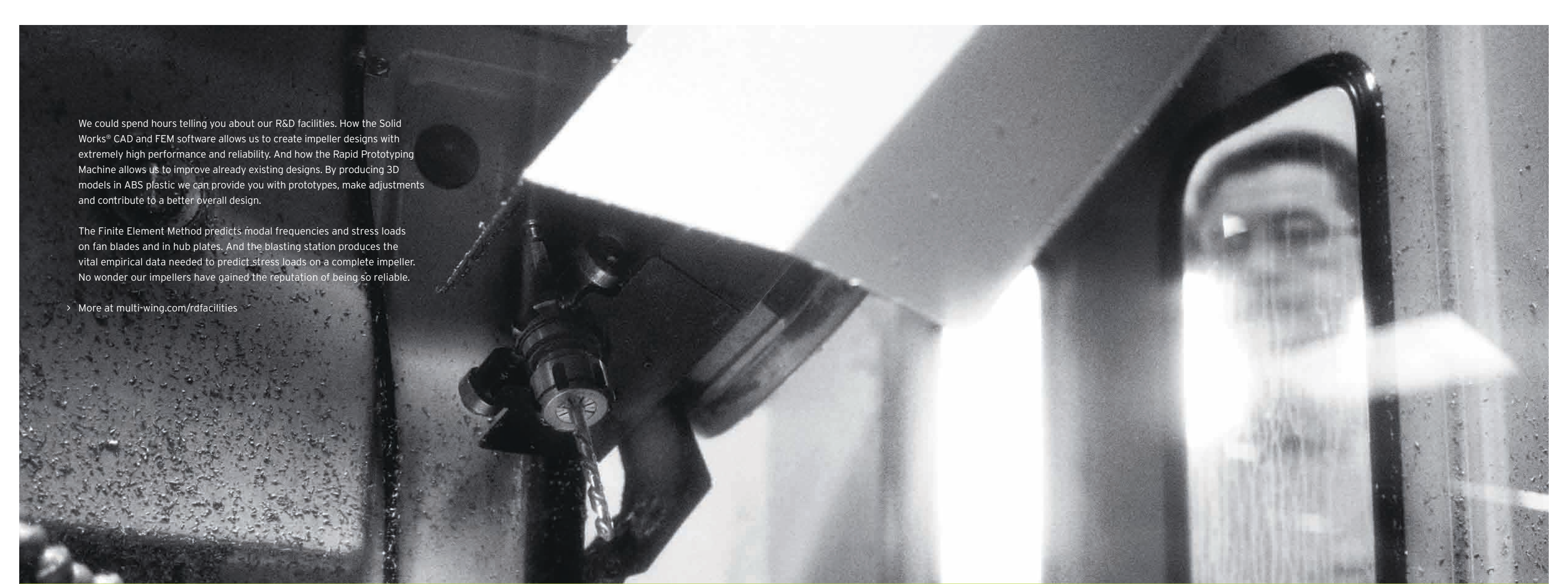
Thanks to the tunnel, we can even offer to suggest improvements on your own application. Not only can we qualify the precise airflow, we can also test the impact on performance of construction changes to the impeller housing. All you have to do is let us know.

> [More at multi-wing.com/windtunnel](http://multi-wing.com/windtunnel)

OUR WIND TUNNEL

10//11





We could spend hours telling you about our R&D facilities. How the Solid Works® CAD and FEM software allows us to create impeller designs with extremely high performance and reliability. And how the Rapid Prototyping Machine allows us to improve already existing designs. By producing 3D models in ABS plastic we can provide you with prototypes, make adjustments and contribute to a better overall design.

The Finite Element Method predicts modal frequencies and stress loads on fan blades and in hub plates. And the blasting station produces the vital empirical data needed to predict stress loads on a complete impeller. No wonder our impellers have gained the reputation of being so reliable.

> More at multi-wing.com/rdfacilities

OUR R&D FACILITIES

12//13



Multi-Wing is a true online company. From start to finish, from identifying the right impeller to the final order, you'll be surprised how fast and easy our online services make the process. Not to mention that day-to-day ordering is made more effective and cost efficient.


You'll enjoy our new user-friendly identification service. It takes you through a series of questions that enables you to identify any given impeller or set of blades. At the end of the session, you'll receive a full description of the impeller or the blades you have chosen.

> [More at multi-wing.com/onlineservice](http://multi-wing.com/onlineservice)

OUR ONLINE SERVICE

14//15



A person wearing a winter hat and jacket is operating a snowblower in a snowy forest. The snowblower has a tall, silver metal ladder-like structure attached to its top. A large, bright plume of snow is being blown out from the front of the machine. The background shows a dense forest of bare trees under a bright sky.

The secret behind a Multi-Wing impeller is that it's customized from standardized components. That's why we can offer you an individual solution at off-the-shelf prices. You'll find six overall product series differing in terms of diameter ranges, pitch setting systems and blade profiles. They are all comprised of hub parts, usually in aluminium, and a number of blades made of either thermo-plastic or aluminium.

This modular system makes our product range extremely flexible in terms of selecting the right impeller for the right job. It also allows us to offer you the most cost-efficient solution.

> [More at multi-wing.com/products](https://www.multi-wing.com/products)

OUR MODULAR PRODUCT SYSTEM

16//17

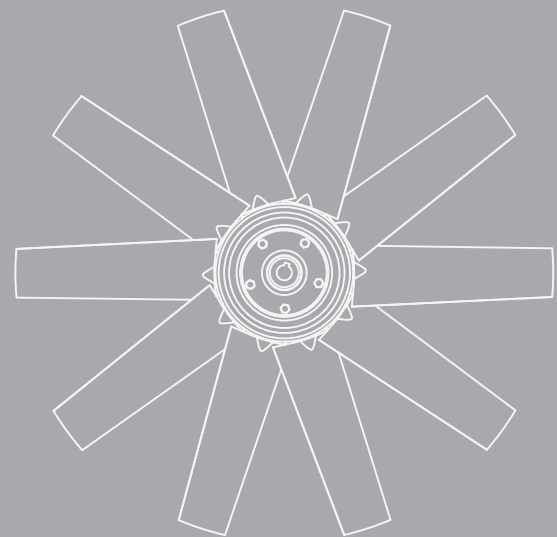




OUR PRODUCT RANGE

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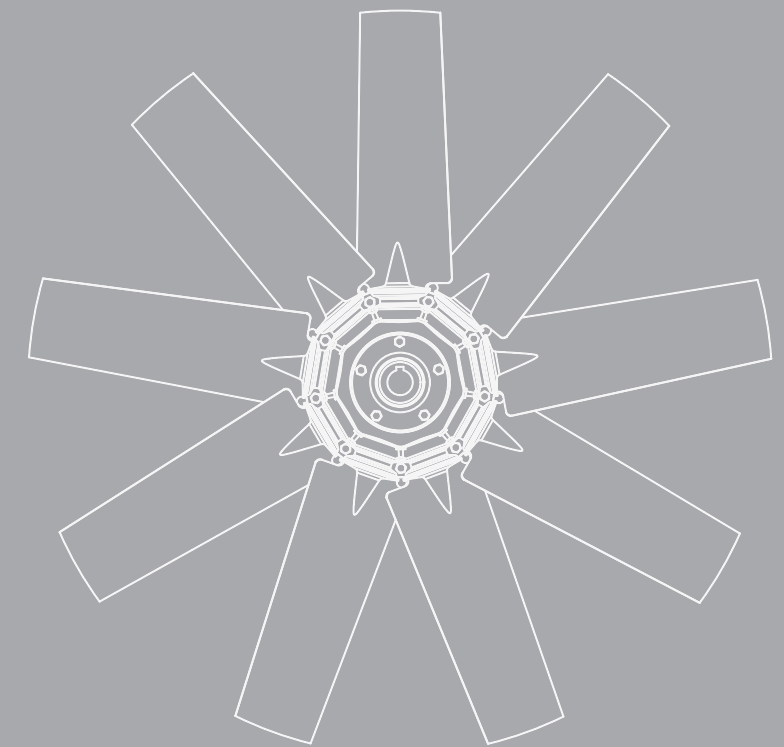




OUR H SERIES

The H series covers the smallest diameters in our range. Its compact but solid design is well suited for a variety of applications. For engine and compressor cooling this impeller type offers a flexible solution that will meet all dimensioning criteria - especially when noise levels are critical. The H series is also applicable to agricultural ventilation which calls for high performance at low static pressure. For cooling applications, this type is often used in evaporators and in smaller condensers.

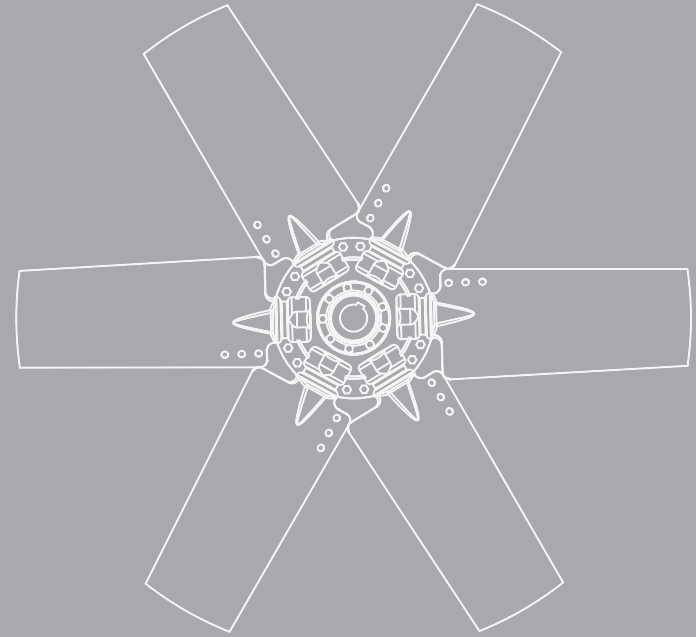
> [More at multi-wing.com/hseries](https://multi-wing.com/hseries)



OUR Z SERIES

The Z series can be used in just about any air moving application. The blades have adjustable pitches, while hub parts as well as fan blades come in different designs and materials. The Z series is widely used in the ventilation and cooling industry as well as in automotive applications where environmental requirements are more demanding. It's also a suitable solution in applications that demand high performance in difficult flow conditions, where there is less focus on power consumption. The Z series also features reversible impellers designed specifically for drying applications.

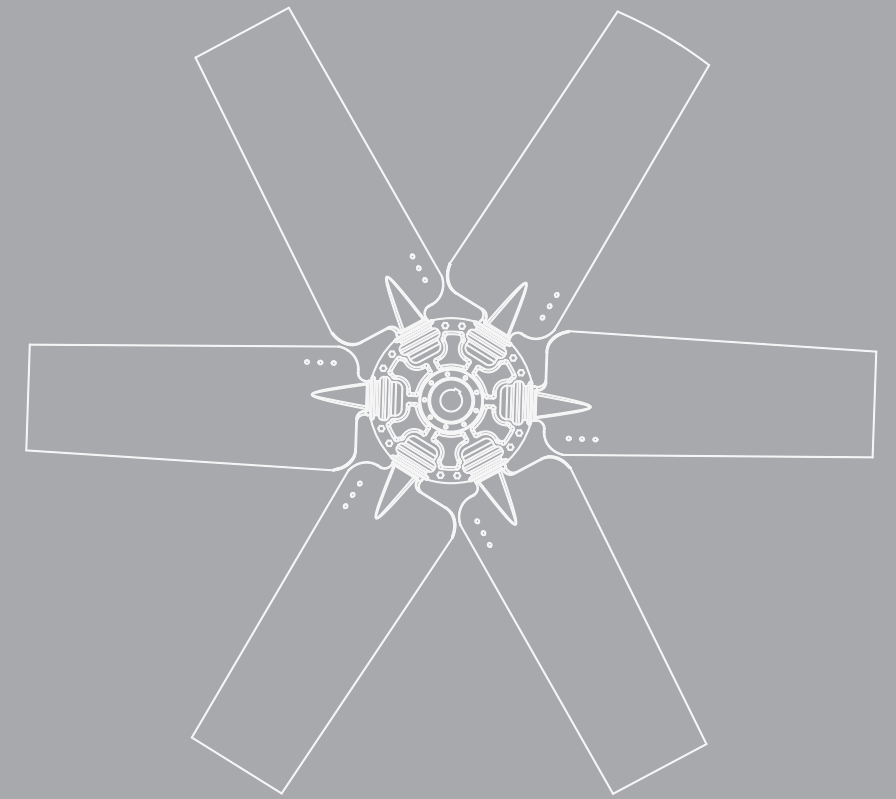
> [More at multi-wing.com/zseries](https://multi-wing.com/zseries)



OUR W SERIES

The W series has fan blades with adjustable pitches and is available with various types of profiles. Therefore it's possible to select the right impeller for almost any air moving application. The W series offers light but broad blades designed for coil applications with low speed motors and moderate power consumptions. And the W series is also well suited for high performance air moving units such as mobile radiators and wood dryers.

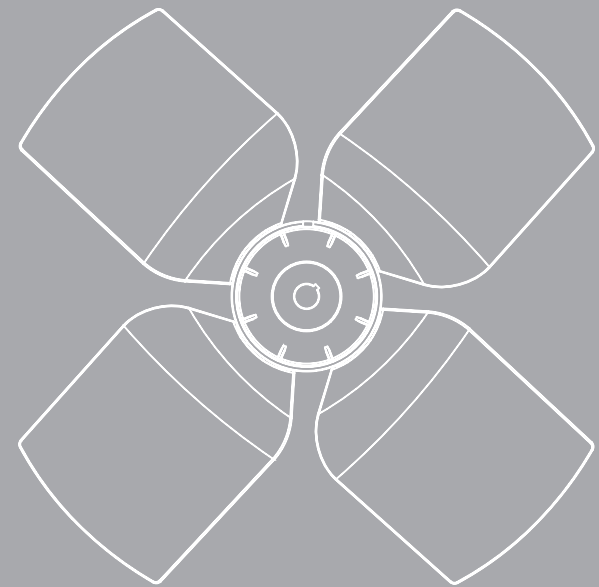
> [More at multi-wing.com/wseries](https://multi-wing.com/wseries)



OUR G SERIES

The G series is the largest thermo plastic impeller in the world. The impeller is specifically aimed at large-size cooling applications such as cooling towers and condensers but can also be used for industrial heat exchangers.

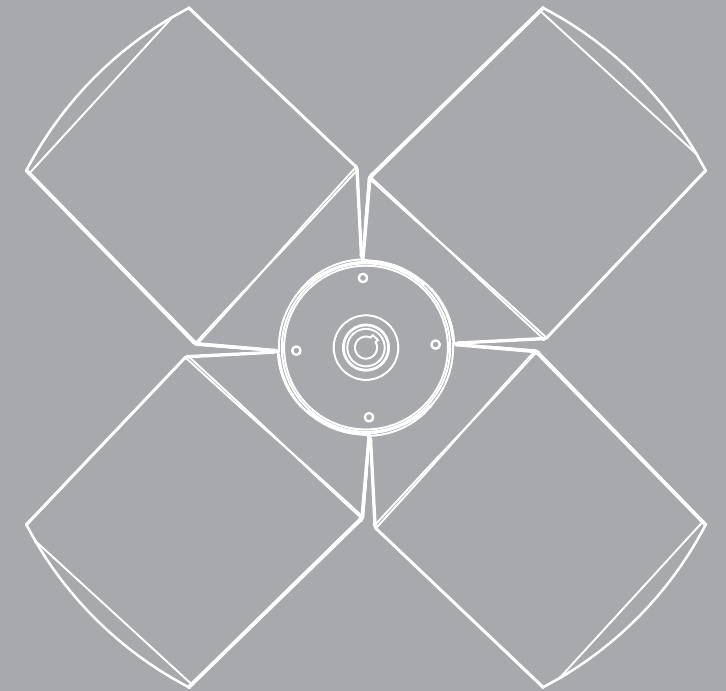
> [More at multi-wing.com/gseries](https://multi-wing.com/gseries)



OUR M SERIES

The M series is engineered to meet the demands of smaller heat exchangers such as oil coolers, air-cooled condensers and dry coolers. With fan blades of glass reinforced polyamide this impeller can also be used in low temperature evaporator applications. It provides high-pressure capability at low speeds resulting in low noise levels in most compact heat exchangers. The one-piece moulded design makes it highly price-competitive.

> [More at multi-wing.com/mseries](https://multi-wing.com/mseries)



OUR D SERIES

The relatively small diameter and the broad, paddle-shaped profile of the fan blades makes the D series ideal for smaller heat exchanger applications such as oil coolers, air-cooled condensers and dry coolers. With fan blades of glass reinforced polyamide it can be used in low temperature evaporator applications as well. The D series provides a successful combination of high airflow and high-pressure rates at low speeds and produces low noise levels. The fact that it's made up of a modest number of components makes it highly cost-efficient.

> [More at multi-wing.com/dseries](https://multi-wing.com/dseries)

OUR PHILOSOPHY

DON'T COMPROMISE

