



Prolonged delivery time

Our delivery time is 5-6 weeks at the time being due to increased sales in Germany and the holiday season approaching.

Read on...



TR7Z impeller now available

Our truly reversible impeller, suitable for wood drying, tunnel ventilation and radiator applications, is now available.

Read on...



There is no business like show business

Multi-Wing's booth at Bauma, the largest construction and mining equipment trade show in the world, attracted a lot of current and potential customers.

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Low-cost solution for high volume projects

When production volume is high, a one-piece moulded impeller is an attractive low-cost alternative to the modular Multi-Wing system.

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Prolonged delivery time

Over the last couple of years, sales in Germany have increased significantly. To support this growth, we are establishing a production facility in the Czech Republic where impellers to the Central European market will be produced in the future.

However, until the new factory is ready for production, impellers to the Central European market will be produced in Denmark. At the moment, this means that our production in Denmark is booked to its maximum weeks in advance despite the fact that we have increased our production capacity to its maximum by hiring new staff and working in shifts. With increasing sales in Germany and the holiday season approaching, our delivery time is therefore 5-6 weeks at the time being.

For this reason we ask you to send your orders in advance so you can be sure to receive your impellers at the requested delivery time. All necessary steps are taken to ensure that your impellers will arrive on time, and if there is a problem, our disciplined problem solving approach enables us to provide you with a solution. We hope to have your full understanding.



TR7Z impeller now available

Developed in collaboration with external experts in aerodynamics, using state-of-the-art technology, we are launching a new high-efficient, truly reversible impeller - the TR7Z impeller - suitable for wood drying, tunnel ventilation and radiator applications.

The TR7Z impeller can be used in many different wood drying applications. Typical applications are lumber kilns drying hardwoods and softwoods and vacuum dryers for construction timber and wood for furniture.

The reversible impeller is also advantageous in radiator applications. In off-highway equipment such as construction, forestry, agriculture, and waste and recycling machines operating in environments with a great deal of dust, dirt or airborne debris, there is a risk of the engine overheating due to the radiator being plugged with debris. The truly reversible impeller can prevent this by cleaning the cooler efficiently.

The TR7Z impeller is also a good solution for tunnel ventilation such as road and rail tunnels, underground construction tunnels, wind tunnels etc. where removal of heat, pollution, dust, and general ventilation is required.

The TR7Z impeller yields notable benefits when compared with our ZREV impeller or standard impellers such as the 4Z or the 5Z mounted in a reversible configuration. The TR7Z impeller is as the name says truly reversible, which means that it can reverse airflow with equal air volume. When a standard impeller operating in a reversible configuration is reversed, airflow is reduced by two-thirds as the back of the blades cannot generate as much air as the front. In contrast, the airflow of the truly reversible blades is not reduced when reverse, due to the symmetrical design of the S-profiled blade - developed to produce equal air volume in either direction.

Another important benefit is that the TR7Z increases efficiency hereby providing optimal performance. To examine the efficiency of the truly reversible series, we initiated a series of tests in our in-house wind tunnel, comparing the TR7Z impeller with the ZREV impeller, and the 4Z impeller operating in a revers-

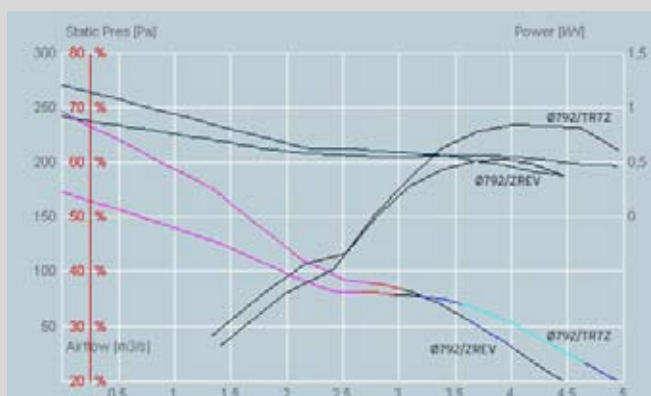


Figure 1

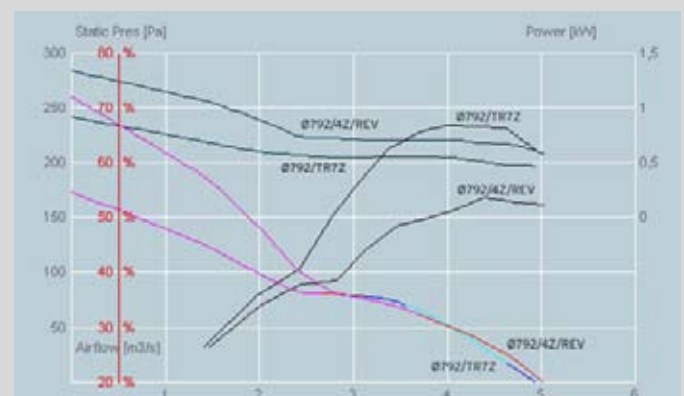


Figure 2

ible configuration running at 900rpm. These tests showed that the TR7Z impeller has a 7 percentage points higher efficiency than the ZREV impeller (Figure 1). Comparing the TR7Z impeller with the 4Z impeller operating in a reversible configuration, the difference in efficiency is even greater, with the TR7Z performing 13 percentage points better than the 4Z impeller (Figure 2).

Available in diameters up to 1095mm in a 16 bladed hub, in glass reinforced polypropylene, glass reinforced polyamide and aluminium, mounted with different hub sizes, with flange, conical shaft or straight bore, the TR7Z impeller can be customized to meet your specific performance requirements.

Contact our experts to learn how the TR7Z impeller can optimize your product.



There is no business like show business

Bauma, the world's number one exhibition within the construction and mining industries, set new records in 2007 with 48 countries represented and more than 3000 exhibits on display covering everything from construction machinery, earth-moving machinery, building material machinery and building site plant, construction equipment and tools, to road and railway machinery.

Multi-Wing showed up at Bauma with the biggest and most professional display ever. The Multi-Wing booth included a new trade show presentation, an exciting video presentation featuring animations, graphics and logo headers, and of course a display of different impellers suitable for construction and mining applications, such as the 3W sickle impeller, the 1H sickle impeller, the one-piece moulded impeller, the TR7Z reversible impeller and the 5W/AL impeller. As Germany represents one of our most important growth markets, a strong presence at Bauma was of utmost importance.

Gathering point for customers, distributors & subsidiaries

The trade show attracted not only engineers and purchasers, but also other decision-makers within the construction and mining industry. The Multi-Wing sales team met with a lot of current and potential customers during the show, discussing the latest developments in the industry and new business in a friendly context. For Multi-Wing it was a successful week; maintaining strong bonds with our current customers and getting into contact with future business partners.

Bauma was also a good opportunity to gather relevant people from Multi-Wing distributors and subsidiaries. It allowed us to exchange experience regarding new products and to coordinate and improve action on different areas, especially regarding customers who do business worldwide. Numerous customers exhibiting at Bauma have moved their production to China where their products are being used within the fast-growing Chinese construction industry.



Low-cost solution for high volume projects

Over the last ten years Multi-Wing has gained experience in designing and manufacturing one-piece moulded impellers. A one-piece moulded impeller is an attractive economical alternative to the standard, modular Multi-Wing system when production volume is high. A one-piece solution is, however, not only cost beneficial, but also advantageous when it comes to performance and noise level as it enables us to design the impeller specifically for the desirable duty point as well as reaching the low noise criteria for the specific application.

The latest knowledge of impeller profiling to minimize noise levels is used when developing a one-piece moulded impeller as well as it is with our standard, modular system. Thus sickle shaped impeller blade profiles are used today in order to minimize noise contribution at blade frequency by having a curved leading and trailing edge.

When it comes to one-piece moulded impellers, there is an additional way of reducing the noise level. The vortex generated between the tip of the impeller and the shroud is a significant noise source; however, as the diameter of the one-piece moulded impeller is given, it is possible to make a ring around the impeller, eliminating the problem of tip clearance, and enabling us to make a moulded aerodynamic inlet to the impeller.



The R&D process when making a one-piece moulded impeller starts by using our in-house facilities for rapid moulding of prototypes. Our rapid prototyping machine makes it possible to design an exact scale model of the project overnight from a 3D file based on customer performance data and geometric requirements. The next step is to test the model in our wind tunnel so that it matches the desirable duty point. When the right

performance is achieved, and the mounting details are configured, the model is ready for the further tooling process.

Over the last five years Multi-Wing has achieved reliable sub-suppliers of moulding tools in India. Here we have found a high level of engineering skills and fast process times at a far lower price level when compared to Europe. Looking at "critical volumes", the development within tool manufacturing has meant that the amounts are lower. When we earlier looked at a break-even volume of maybe 8-10000 units per year, a one-piece moulded impeller is now attractive from any volume around 4000 units.

The moulding tool is finally placed at the most rational place depending on the geographical location of the OEM manufacturer and the Multi-Wing outlets.