

Solutions for

Agri- cul- ture

Focus
**Combine
Harvester**

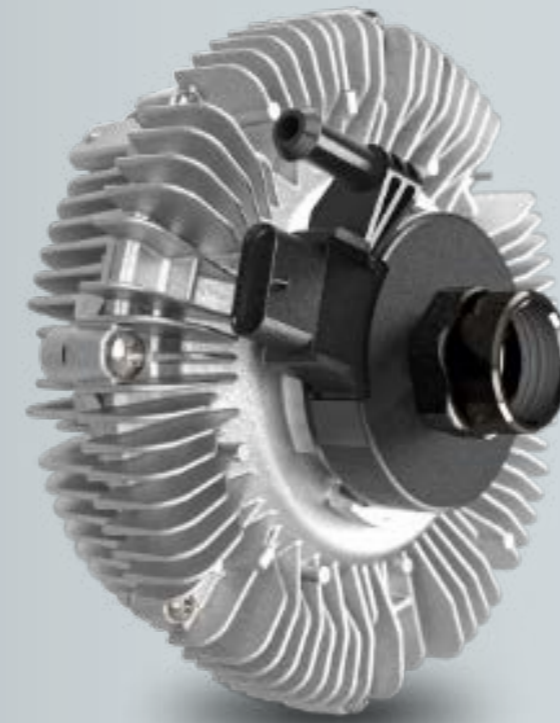
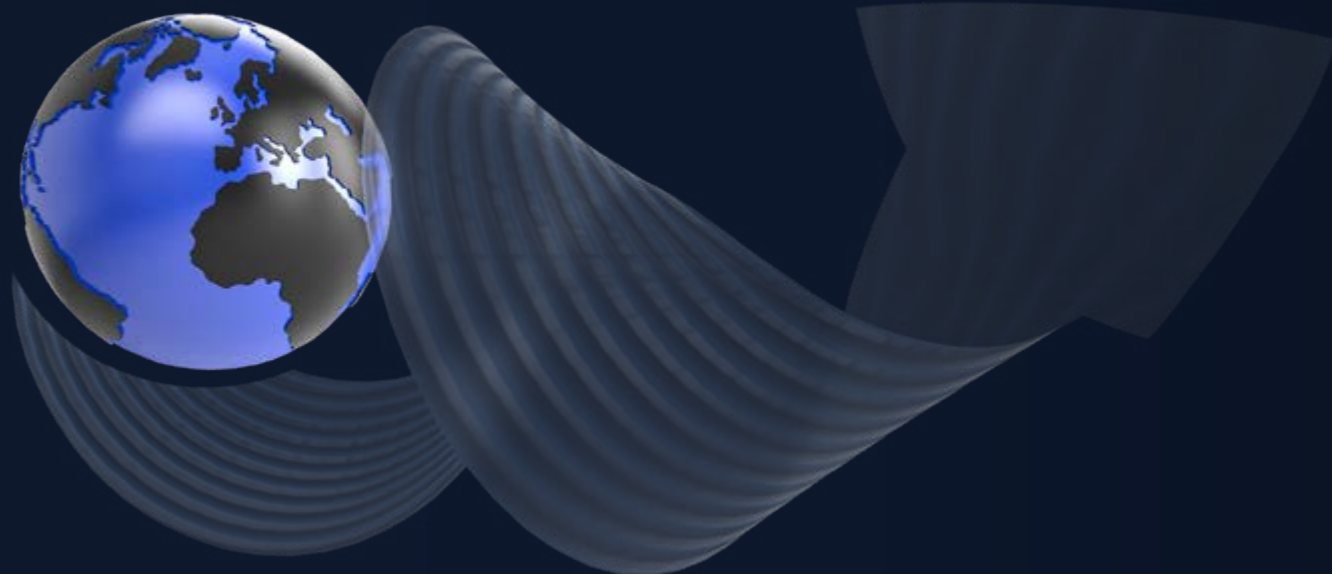
Axial Fans and Clutches

Smart Fan Technology

WingFan's core competence in aerodynamic engineering provides you with the most advanced technology to comply with noise and emissions legislations.

Every agricultural application has its unique requirements that have to be addressed individually. Our axial fan solutions for agricultural machinery and related applications are custom configured to minimize fuel consumption and provide optimal cooling with minimal fan noise.

Specialized agricultural machines require fans with enough performance reserves to deal with severe radiator fouling issues and the fan must be robust enough to withstand severe dust and debris ingress. WingFan has developed innovative fan blade geometries for the most challenging cooling applications for the world's largest OEM agricultural machinery manufacturers.



FanClutch solutions

Clutches control the fan speed in direct proportion to the engine cooling needs resulting in **improved fuel economy, lower cyclic fan noise** and **increased operator comfort**.

Choose from our highly advanced maintenance free electronic viscous clutches that can be precisely controlled by the ECU, or fully modulating bi-metal clutches that sense the temperature of the air passing through the heat exchanger for accurate fan engagement.

BLEX® the gap

With WingFan's BLEX® technology, the **static pressure is dramatically improved** and the noise may be reduced by 2 to 3 dB(A). The **noise at the fan blade tips** caused by air slippage and turbulence **is significantly reduced** due to minimized tip clearances.

The same air flow can be achieved while reducing pitch angle and fan speed, thus lowering power consumption. The overall **system efficiency is increased** by up to 20% resulting in significant **fuel/energy savings**.

The flexible nylon fabric is designed to adapt the fan diameter to the contour of the shroud thereby reducing the clearance close to ZeroTip®.

All regular blade profiles in the WingFan product range made of PA and PAG material are available with state-of-the-art BLEX® technology.



Combine Harvester

Master extreme conditions with trusted performance



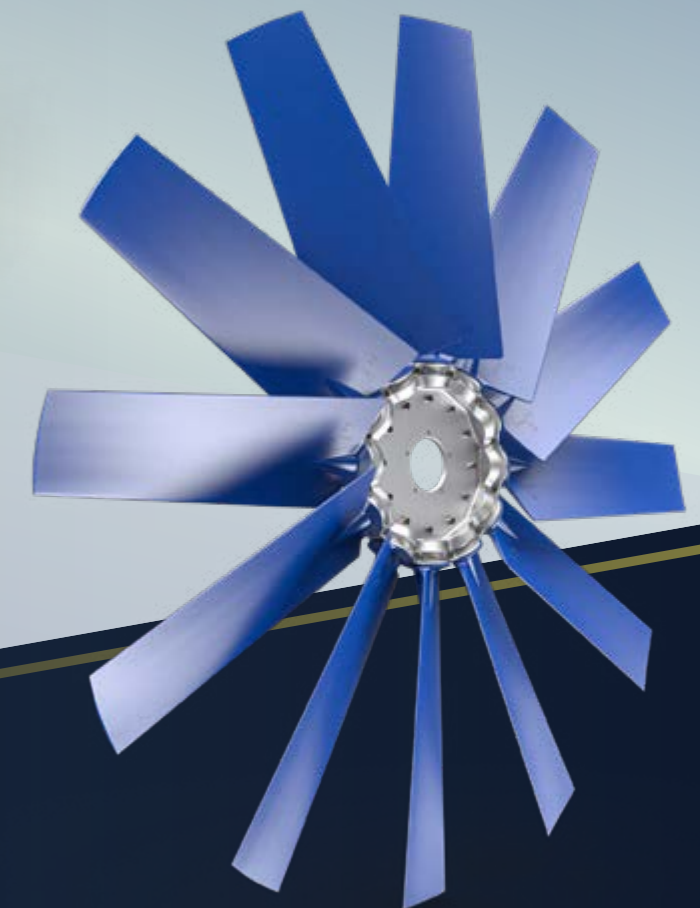
World leading combine harvester OEMs have trusted the performance and durability of WingFan's combine harvester cooling fans for more than 3 decades. Extremely dusty conditions, unfavorable airflow and high resistance caused by

rotating radiator screens or planar dust extraction systems are commonly found in modern combine harvesters. These conditions can all be efficiently mastered with our range of heavy duty robust fuel saving fans.



Unmatched rigidity

Extremely stiff reinforced nylon **S45Y** blades ensure maximum cooling performance and durability in cooling packages fitted with multiple dust filtering systems, even in the hottest and dustiest climates.



Minimum power drain, maximum airflow

The highly efficient **P6Z** blades minimize the power draw from the engine while delivering the maximum airflow to create a dust inhibiting air curtain in the most advanced downdraught combine harvester cooling system currently available.

Smart Fan Selection Software

We make things easier for you!

WingFan SELECT 3D, the leading fan selection software in the industry, is the best tool to **support your fan sizing**. Learn about the unique features like 3D visualization, resonance data, project management or 3D file export.

Free download at
wingfan.com



3D Visualization

The feature create highly accurate 3D visualizations to show what the fan configuration will look like once completed.



Resonance Check

This particular feature identify and/or confirm a high vibration level caused by a resonance frequency caused by the chosen fan speed.



Performance Data

The feature is intended to provide an overview of the performance of the selected fan and its parameters.



3D Animation

Automated 3D Animation provides a faster way to easily visualize the function and behavior of your fan configuration.



Drawing Export

Each individual fan selection can be exported as a technical drawing to the Portable Document Format (PDF).



3D File Export

An important function in the data exchange relationship between the SELECT and CAD worlds is the ability to port the Fan assembly into mechanical design software for the purposes of physical clearance checking.






WE DELIVER TO ALL FIVE CONTINENTS



We think global and act local!

WingFan with its headquarters in Hamburg, Germany is operating a global network of manufacturing on 5 continents and distribution in over 36 countries.

WingFan also offers phone support for your product and technical questions. To discuss a specific application, specification question or request a prototype, contact the WingFan location closest to you.


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