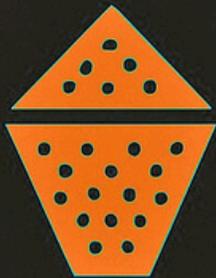


CENTRIFUGAL BLOWERS & FANS

YOUR TRUSTED PARTNER FOR AIR SOLUTIONS

Centrifugal Blowers • Dust Control
Air Handling Systems



INNOVATING AIRFLOW
SOLUTIONS FOR INDUSTRIES
EXCELLENCE

Reliable | Efficient | Customized Fans & Blowers

ABOUT US

Welcome to **TMKK AIR SOLUTION**, a leading manufacturer of high-quality blowers and industrial fans. With a strong commitment to innovation, quality, and customer satisfaction, we have established ourselves as a trusted partner for industries seeking reliable and efficient airflow solutions.

TMKK AIR SOLUTION has Industrialized a series of fans for almost all the necessities. Centrifugal Blowers Designed and supplied by TMKK AIR SOLUTION are highly efficient, Proven, reliable and sturdy. TMKK AIR SOLUTION is master in Designing and Manufacturing Customized fans like Multi Vapor Recompression Fan, water jacketed Fan, Special Bearing Cooling Arrangements for High Temperature Fans. These are categorized by their pressure generation capacities and Drive types.

Our organization believes in delivering the best quality products to our clients and we understand that the products are well acclaimed the market only when the consumer get a highly reliable product. We have set a separate quality check unit for our products so that our engineers can easily use all the modern equipments provided to check the durability and quality standards of the product. We abide all the norms and quality standards laid down by the industry. We want our clients to enjoy doing business with us and to serve this purpose we know that we need to provide maximum client satisfaction and hence we strive to provide high quality products within the stipulated time frame.

We have separate sections for the different production processes like Laser Cutting and Bending, Fabrication, Painting, Assembling, Machine Shop, Testing Department. Engineering Design well equipped with ultra-modern CAD/CAM services, we are a one stop solution provider for different industry's needs. With a team of qualified design engineers, we can design and develop superior quality centrifugal air blowers and Fans. Our team of designers are manufacturing products according to the specifications of the clients.

ABOUT US

Our Mission

At TMKK AIR SOLUTION, our mission is to design, manufacture, and deliver exceptional blowers and industrial fans that meet the evolving needs of our customers. We strive to provide innovative solutions, exceptional quality, and unparalleled customer service.

Our Expertise

Our team of experienced engineers and technicians have extensive expertise in designing and manufacturing blowers and industrial fans for various applications, including:

Industrial processes

Cement

HVAC systems

Boiler Manufacturing

Dust collection

Iron/Steel Manufacturing

Pneumatic conveying

Pharma Industries

Foundry

Our Values

Quality First: We are committed to delivering high-quality products that meet or exceed industry standards.

Innovation: We continuously invest in research and development to stay ahead of the curve and provide innovative solutions.

Customer satisfaction: We prioritize customer satisfaction and strive to build long-term relationships with our clients.

Why Choose Us?

Experienced team: Our team has extensive expertise in blower manufacturing and

State-of-the-art design. We have modern manufacturing facilities equipped with the

facilities:

Customized solutions: We offer tailored solutions to meet specific customer requirements.

latest technology.

OUR PRODUCTS

CENTRIFUGAL FANS & BLOWERS

Low Pressure Centrifugal Blowers: *Operating Range:*

Air Flow (Capacity): 100 CMH to 200000 CMH

Motor Power: Up to 295 kW

Static Pressure Range: 20 mm to 150 mm

Max RPM Range: 300 RPM to 1450 RPM

Noise Level: Low noise operation

Construction Material of Casing: Mild Steel
and Stainless Steel

Impeller: Mild Steel and Stainless Steel



APPLICATIONS:

Low pressure centrifugal blowers are used when high air flow and very low pressure are required. They are ideal for industrial applications that require air movement with pressures up to 150 mmWC (millimeters of water column).

Medium Pressure Centrifugal Blowers: *Operating Range:*

Air Flow (Capacity): 300 CMH to 180,000 CMH

Motor Power: Up to 200 kW

Static Pressure Range: 150 mm to 600 mm

Max RPM Range: 700 RPM to 3000 RPM

Construction Materials

Casing: Mild Steel and Stainless Steel

Impeller: Mild Steel and Stainless Steel



APPLICATIONS:

Industrial ventilation systems

Pneumatic conveying

Dust collection and fume extraction

Drying systems

Combustion air supply

OUR PRODUCTS

CENTRIFUGAL FANS & BLOWERS

High Pressure Centrifugal Blowers:

Operating Range:

Air Flow (Capacity): 100 CMH to 200,000 CMH

Static Pressure Range: 600 mm to 1500 mm

Max RPM Range: 700 RPM to 3000 RPM

Motor Power: Up to 250 kW

Material of Construction: Mild Steel and Stainless Steel

Impeller: Mild Steel and Stainless Steel

APPLICATIONS:

- Pneumatic conveying systems
- Combustion air supply
- Industrial furnace air injection
- Boiler operations
- Central vacuum cleaning systems
- Material handling and cooling



Plug Fans:

Plug fans are the centrifugal blower which normally do not have the housing and is majorly used for hot air circulation, autoclave vessels or in the dust collector where they are fitted directly on the body. This fan is generally designed in accordance to data like operating temperature, circulation required, air flow required, pressure inside the fan chamber and operation density of the media at inlet.

Operating Range:

Volumetric Flow Capacity: Up to 150,000 m³/hr

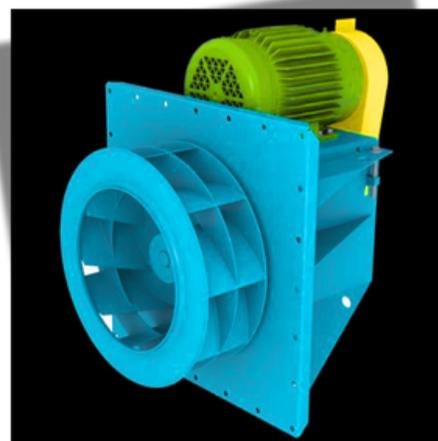
Maximum Pressure: 150 mmWC

Maximum Operating Temperature: 300°C

Drive Type: Belt or Direct Drive

APPLICATIONS:

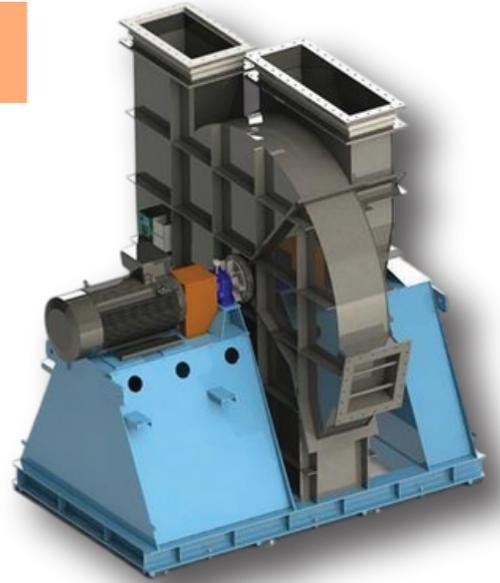
- HVAC Systems: Heating and air conditioning systems
- High-Temperature Operations: Ovens, dryers, and kilns
- Industrial Ventilation: Spray booth evaporators and textile dust collectors



OUR PRODUCTS

CUSTOMIZED / TAILORED MADE FANS

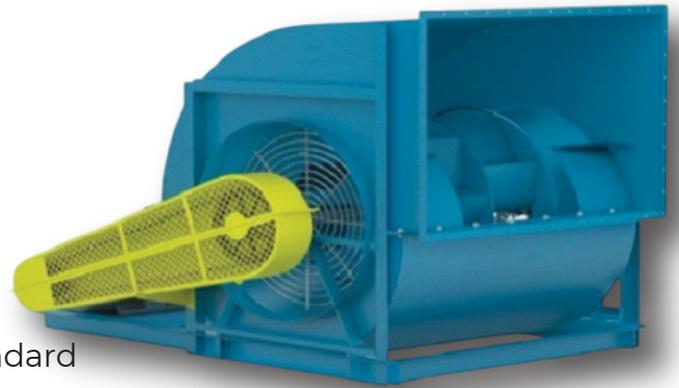
Customized or tailor-made centrifugal fans are engineered to meet specific industrial requirements such as airflow, pressure, temperature, or space constraints. These fans ensure optimal performance and energy efficiency by adapting design elements like impeller size, blade angle, and material. Ideal for unique applications across industries like power plants, cement, HVAC, and chemical processing.



DWDI – DOUBLE WIDTH, DOUBLE INLET

DWDI fans are generally supplied for V-belt drive and Coupling Drive. The wheel is mounted between the bearings and supported by the fan housing. Since both bearings are located in the airstream, standard DWDI fans should only be used for clean air applications with air temperatures limited to 130°F.

The motor can be mounted in any of the four standard motor positions: W, X, Y, or Z.



FLANGE MOUNTED BLOWER:

Flange Mounted Blowers are designed for direct mounting onto ducts or systems using a flange connection, ensuring a compact and secure installation. They are ideal for space-constrained applications and provide efficient air handling with minimal vibration. Commonly used in HVAC, industrial ventilation, and process cooling systems.



OUR PRODUCTS

AXIAL FANS:

Axial fans are a type of fan that uses a propeller-like design to move air parallel to the fan's axis of rotation. Here are some key features and applications:

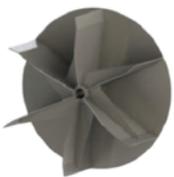
KEY FEATURES

1. High airflow: Axial fans are designed to move large volumes of air.
2. Compact design: They are often more compact than other fan types.
3. Energy efficiency: Axial fans can be energy-efficient, especially in applications with low pressure requirements.

APPLICATIONS

1. Ventilation: Axial fans are commonly used in ventilation systems for buildings, industrial spaces, and more.
2. Cooling: They are used in cooling systems for electronics, machinery, and other equipment.
3. Industrial processes: Axial fans are used in various industrial processes, such as drying, cooling, and ventilation.

Types of Impeller



Open Radial Blade



Radial Blade



Backward Inclined



Paddle Open Blade



Airfoil Blade



Backward Curved



Forward Curved



DWDI Impeller

ACCESSORIES

Accessories of Centrifugal Air Blower

Expansion Bellow:

Are flexible connectors used to absorb thermal expansion, vibrations, and misalignments in ducting systems. Engineered for durability, they ensure safe and efficient operation in ventilation and exhaust setups. Ideal for industrial applications requiring flexibility and precision.



Suction Filter:

Are critical components used to remove dust, debris, and other contaminants from the air before it enters the blower or fan system. They ensure clean airflow, protect equipment, and enhance system efficiency in industrial ventilation and dust collection setups.



Silencer:

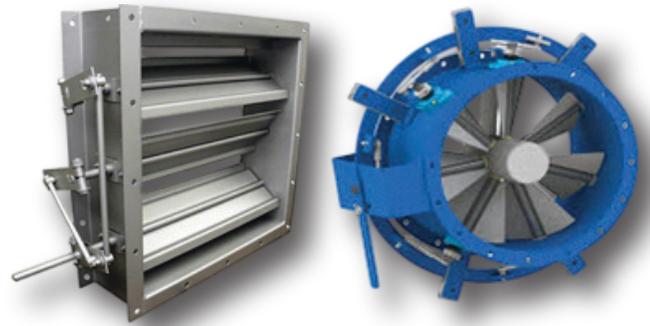
Are designed to reduce noise generated by high-velocity airflow and mechanical vibrations. Engineered with acoustic insulation and aerodynamic design, they ensure quieter operation in industrial ventilation and air-handling systems without compromising airflow efficiency.



ACCESSORIES

Damper:

Dampers in centrifugal blowers are used to control and regulate the volume of airflow within ducting systems. They enhance operational efficiency by allowing precise modulation of air supply and pressure. Ideal for industrial ventilation, they help maintain optimal performance and energy savings.



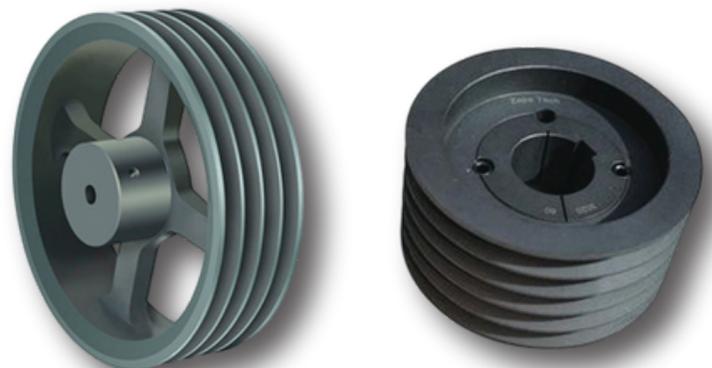
Vibration Isolator:

Vibration isolators are used in industrial centrifugal blowers to reduce the transmission of vibrations to surrounding structures. They enhance equipment stability, extend machinery life, and ensure quieter operation by absorbing mechanical shocks and dynamic loads. Essential for maintaining performance in heavy-duty ventilation systems.



Pulley:

Pulleys in industrial centrifugal blowers transmit rotational power from motors to blower shafts using belt drives. They enable speed control, reduce vibration, and ensure reliable performance in air-handling systems. Made from robust materials like cast iron or steel, these pulleys are built for high-load applications.



ACCESSORIES

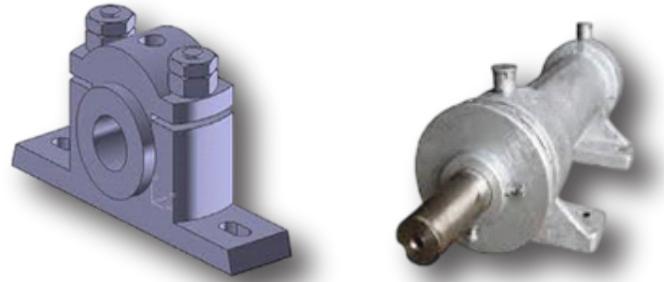
Coupling:

Couplings are used to connect the motor and blower shafts, ensuring smooth power transmission while compensating for minor misalignments. In industrial centrifugal blowers, flexible couplings help reduce vibration, prevent wear, and enhance operational efficiency. Common types include Pin Bush, Grid, and Tyre couplings.



Pedestal:

Pedestals in centrifugal blowers support the shaft and bearing assembly, ensuring alignment and stability during operation. They are designed to withstand high loads and vibrations, enhancing reliability and extending the life of rotating components. Typically made from cast iron or steel for robust industrial use.

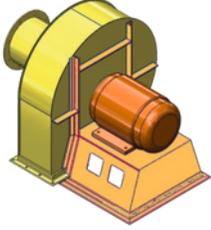
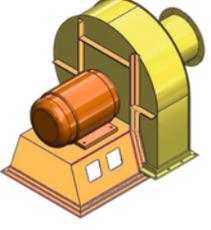
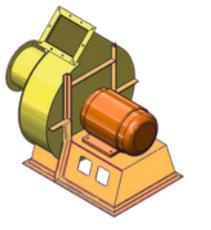
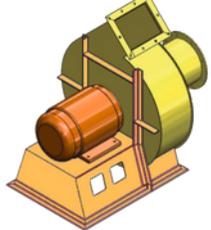
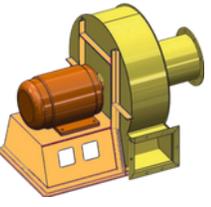
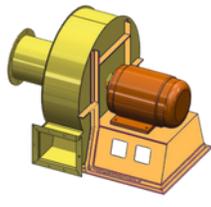
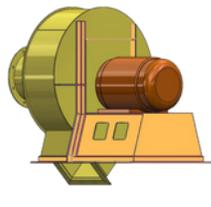
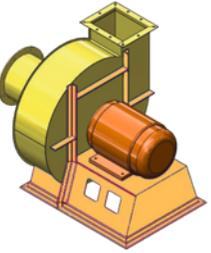
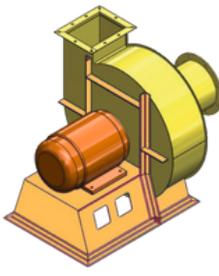
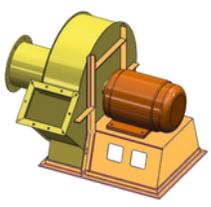
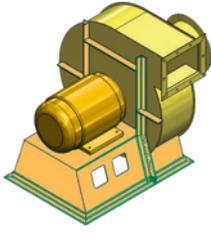


Shaft Cooler:

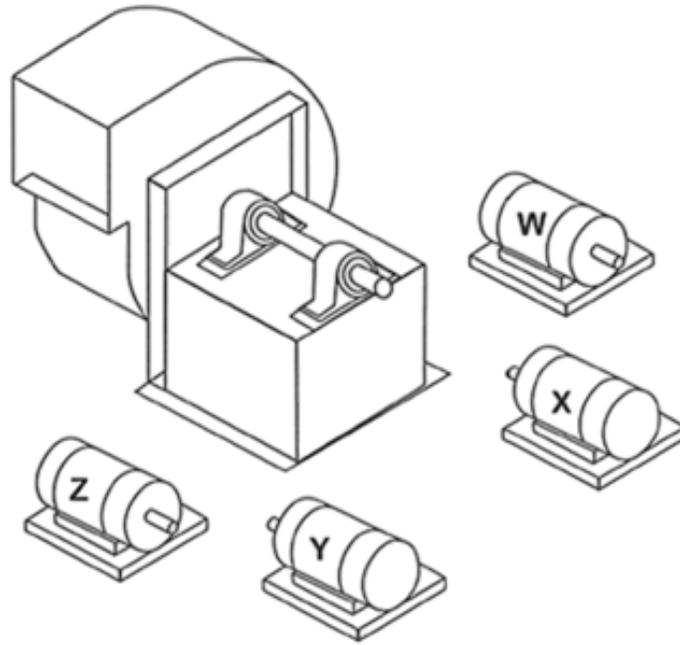
Shaft Coolers, also known as Heat Slingers, are mounted on blower shafts to dissipate heat generated during high-speed operation. By directing airflow across bearing housings, they help prevent overheating, protect lubrication integrity, and extend the life of critical components in industrial blower systems.



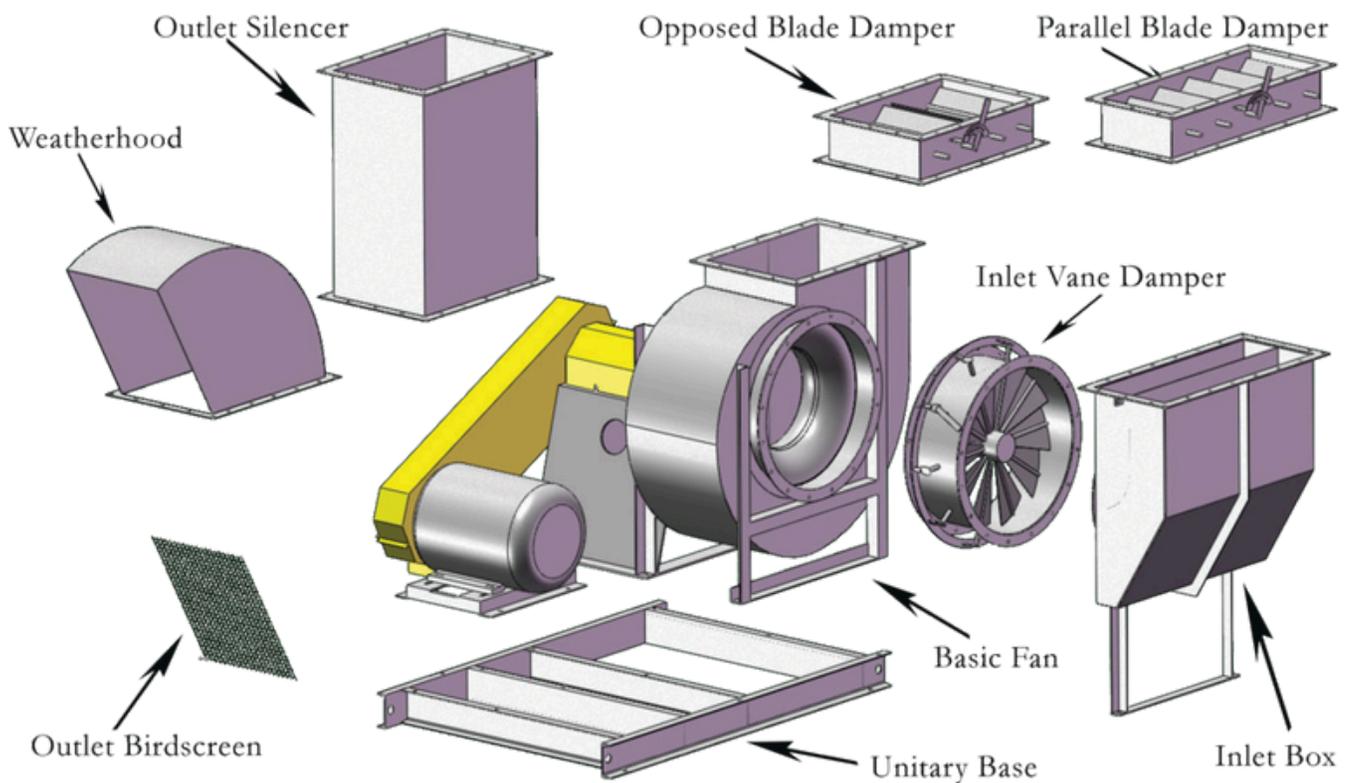
BLOWER DISCHARGE POSITION CHART

<p>DRIVE SIDE ANTI CLOCK WISE DOWN BLAST</p> 	<p>DRIVE SIDE CLOCKWISE DOWN BLAST</p> 	<p>DRIVE SIDE ANTI CLOCKWISE TOP ANGULAR UP</p> 	<p>DRIVE SIDE CLOCKWISE TOP ANGULAR UP</p> 
<p>DRIVE SIDE ANTI CLOCK WISE BOTOM HORIZONTAL</p> 	<p>DRIVE SIDE CLOCKWISE BOTOM HORIZONTAL</p> 	<p>DRIVE SIDE ANTI CLOCKWISE BOTOM ANGULAR DOWN</p> 	<p>DRIVE SIDE CLOCKWISE BOTOM ANGULAR DOWN</p> 
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MOTOR MOUNTING POSITION



FAN COMPONENT TERMINOLOGY



OUR CORE SERVICES

Engineering & Design:

- Custom fan solutions engineered for performance, efficiency, and safety.

Manufacturing:

- State-of-the-art production of industrial fans and systems, made to international standards.

Testing & Quality Control:

- In-house testing to ensure top performance, reliability, and compliance.

Upgrades & Retrofits:

- Modernize and optimize existing fan systems for better efficiency and longevity.

Installation & Commissioning:

- Expert setup and start-up support for seamless system integration.

Inspection & Diagnostics:

- Advanced tools for performance analysis, troubleshooting, and predictive maintenance.

Repair & Maintenance:

- On-site and in-shop services to maximize uptime and extend fan life.

Training & Technical Support:

- Comprehensive training and support to empower your team.

Pan India Service Network:

- Pan India assistance backed by experienced service teams.

INDUSTRIES WE SERVE



Boiler



Cement



Ceramic Tiles
Plant



Di Pipe Plant



Food Processing
Grain Flour Plant



Foundry



Furnace



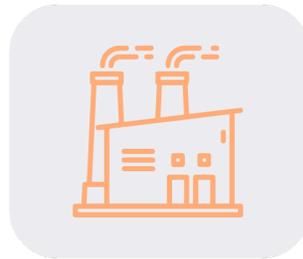
Glass
Manufacturing



Masterbatch Plastics
Pigments Paints



Mineral Mining
Crushing Plant



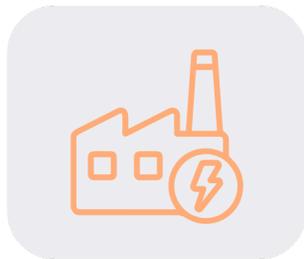
OEM



Petro Chemical



Pharmaceutical
Plant



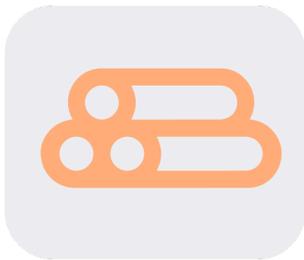
Power Plant



Power Coating
Shot Blasting Plant



Rubber Tire
Recycling Plant



Saw Pipe
Manufacturing



Steel Metal
Sponge Iron



Waste To
Energy Plant



Wood Laminates
Plant



We sincerely thank you for taking the time to visit TMKK Air Solution.

Your interest in our products and solutions means a great deal to us.

At TMKK, we are committed to delivering world-class air handling systems, including high-performance centrifugal blowers and industrial ventilation solutions.

We look forward to the opportunity to serve your needs and build a long-term partnership.

If you have any questions or would like to know more, please don't hesitate to contact us.

Your trust is our drive, and your satisfaction is our success.

– Team TMKK Air Solution