



PROVIDING THE BEST  
AND WIDEST SOLUTIONS  
IN THE FAN INDUSTRY.  
**PERIOD.**

# INDUSTRIAL SOLUTIONS OVERVIEW



## THE TCF DIFFERENCE.

TWIN CITY FAN & BLOWER'S UNIQUE ABILITY TO CUSTOMIZE FAN SOLUTIONS FOR THE EXACT APPLICATION IS SECOND TO NONE.

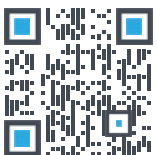


# UNMATCHED INDUSTRIAL SOLUTIONS.

## WHO WE ARE

Twin City Fan & Blower is the trusted partner in the industrial market due to our extensive background and engineering expertise. Our reputation is backed by the largest installation base across the globe. From the highly specified automotive industry to highly corrosive wastewater treatment facilities, Twin City Fan & Blower can offer fans from ¼ HP to 15,000 HP with the widest range of materials and coatings. We have completed thousands of successful installations worldwide and have a proven track record for tackling the most technically complex and unique applications.

With the engineering and manufacturing capabilities to accommodate virtually every conceivable application, Twin City Fan & Blower has the knowledge and expertise to meet any requirement. Our commitment to quality and dedication to customers has been our philosophy since the company started in 1974. As a result, Twin City Fan & Blower continues to grow and provide fans throughout the world — with ten facilities in the United States and expanded manufacturing and service operations in Singapore, India, China, Middle East and Europe.



Visit Website

# HIGH-QUALITY MANUFACTURING

Our experienced team combines a unique skill set and craftsmanship to build the best fans possible. By utilizing the highest quality materials and the most advanced equipment and manufacturing techniques, our product quality is unsurpassed in the air moving industry. In addition to our international sites, we operate eight manufacturing facilities across the U.S. and strive for the highest quality at every step of the manufacturing process – fabrication, welding, machining, painting, assembly, testing and crating. We offer a wide choice of construction materials and accessories for specialty applications including composite, stainless steel, aluminum, hot-dip galvanized steel, abrasion and spark resistant alloys, along with numerous protective coatings.

Prior to manufacturing, our product designs are tested and validated in our in-house AMCA registered test laboratory. We conduct numerous types of tests for quality assurance, product certification and safety to ensure that our fans and air handling units meet or exceed our own stringent standards.



*Powder Coating Paint System*

EXPERTISE BEFORE, DURING  
AND AFTER THE PROJECT

- + FANS FROM ¼ HP TO 15,000 HP
- + WIDEST RANGE OF MATERIALS
- + FULL RANGE OF TESTING
- + LARGEST INSTALLATION BASE



# AFTERMARKET PARTS

Twin City Fan's Aftermarket team specializes in evaluating existing equipment and providing long-term solutions to yesterday's problems. We approach the aftermarket from the perspective of building partnerships with our customers and taking extra steps to ensure that we understand what happened to the previous fan in the system prior to making new recommendations. Simply put, we do not operate just to sell our customers equipment once their originals break down or wear out.



*Impeller Replacements*



**INDUSTRIAL FAN SOLUTIONS**

*Delivering High Quality, Custom  
Engineering and Competitive Lead Times*

# PRODUCTS FOR EVERY MARKET

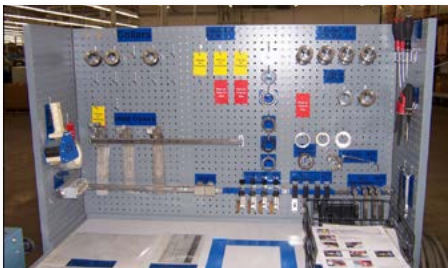
We pride ourselves on the fact that we can support an extremely diverse range of industries on a global level by delivering products that meet our customer's exact requirements. Not only are we known as a one-stop-shop for all industrial and commercial air moving applications, but Twin City Fan & Blower has earned a reputation for having the quickest turnaround and delivery times in the entire fan industry. Below is a condensed list of the industries and markets we support with a full line of products.

*Automotive, Textile, Power Generation, Pulp and Paper, Food Processing, Water Treatment, Petrochemical and Oil, Agriculture, Material Handling, Coal Processing, Foundries, Tunnel Ventilation, Dust Collection, Glass, Waste Management, Chemical, Recycling, Marine, Pharmaceutical, Cement and Lime, Transportation, Ethanol, Air Pollution Control, Energy Recovery, Mining and General Manufacturing*



## 5S METHODOLOGY

The use of 5S methodology in our plants helps us maintain manufacturing excellence. In simple terms, the 5S methodology helps a workplace remove items that are no longer needed (SORT), designate a place for everything and put everything in its place (STRAIGHTEN), clean the area in order to more easily identify problems (SHINE), implement color coding and labels to stay consistent with other areas (STANDARDIZE) and develop behaviors that keep the workplace organized over the long term (SUSTAIN). Our 5S program is being used in addition to other lean manufacturing initiatives.



5S Toolbench



- SORT → STRAIGHTEN → SHINE
- STANDARDIZE → SUSTAIN

# CUSTOMIZED SOLUTIONS

Our unique mass-customized approach to manufacturing ensures that you are not only getting the fan elements your project demands — you're getting a complete package of customized solutions. We partner with you from the start and are dedicated to fine-tuning our offerings to your exact specifications. And our consistent post-sale service is designed to a single objective: responding to your needs.

Check out our Case Studies library at [www.tcf.com/resources/case-studies](http://www.tcf.com/resources/case-studies) to read about some of the customized solutions we have developed for our customers.

“Mass-customized” means you get cost efficiencies from an incredibly broad range of standard products, plus project-specific flexibility that lets us build on and customize our exceptional offerings. We've earned a reputation for having the fastest turnaround and delivery times in the industry, but we're most proud of offering a one-stop solution and a common goal to live up to your highest expectations.

TCF does not shy away from the unknown as we can provide FEA analysis, non-destruction testing, fatigue analysis for low or high cycling, and vibration analysis.



FULL RANGE of INDUSTRIAL FAN SOLUTIONS

## FAN SELECTION SOFTWARE

Twin City Fan & Blower's Fan Selection Software is designed to raise the bar for fan system configurations. The software offers a dynamic interface that supports both standard and highly-engineered fans. Whether in the commercial or industrial market, Fan Selector is robust enough to handle the application. The software features an easy-to-use interface, multiple selection methods, performance curves, instant drawings and more. Our highly-intuitive software quickly allows the user to navigate through selection, configuration and quotation.



Download Fan Selection Software

## TCF.COM RESOURCES

Our website offers a wealth of knowledge, including product catalogs, installation manuals and a wide variety of fan-related engineering information for more than 200 product lines. Learn more at [tcf.com](http://tcf.com).



# STATE-OF-THE-ART TESTING LABORATORY



AMCA Accredited Reverberant Sound Room



Overspeed Test Setup



AMCA 210 Performance Testing

In today's business world, adapting to the needs of customers is more important than ever. That is why we continue to make substantial investments to greatly enhance our comprehensive testing capabilities.

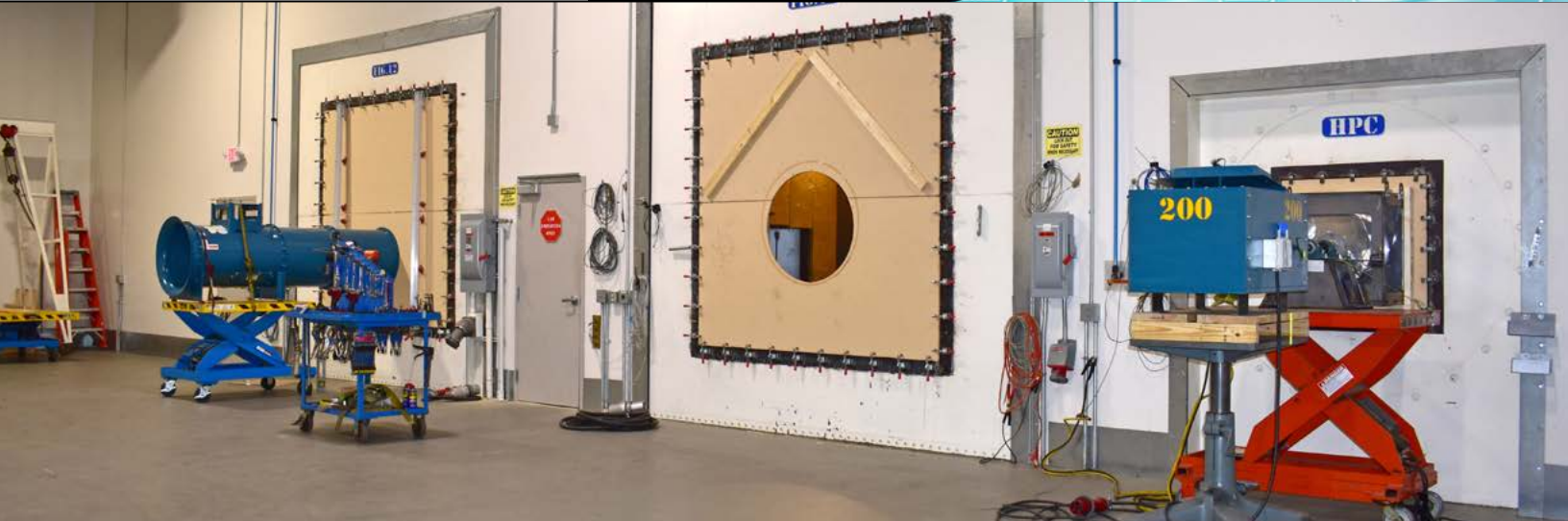
With the most sophisticated research and development testing laboratories in the industry, only Twin City Fan & Blower has the collective experience and knowledge needed to tackle the most technically complex testing requirements for the most demanding environments.

The scope of Twin City Fan & Blower's testing capabilities is very broad and covers a wide spectrum of in-house and on-site testing services. With this level of technology, we continue to provide our customers with proven solutions to their particular air movement needs while ensuring that they receive the highest quality product for their exact requirements and structural needs. This includes

the evaluation of existing systems to optimize performance and reduce power consumption.

Some of Twin City Fan's testing capabilities include:

- ☑ AMCA 204 Balance and Vibration Testing
- ☑ AMCA 210 Performance Testing
- ☑ AMCA 250 Jet Fan Thrust Testing
- ☑ AMCA 260 Induced Flow Testing
- ☑ AMCA 300 Sound Testing
- ☑ UL 705 Safety Testing
- ☑ High Temperature/Survivability Testing
- ☑ Mechanical Run Testing
- ☑ Narrow Band Sound and Vibration Testing
- ☑ Impact (Bump) and Overspeed Testing
- ☑ Strain Gauge Testing and Analysis
- ☑ Modal Analysis Testing
- ☑ Vibration Analysis and FFT Spectrum Analysis
- ☑ Scaled Model Testing
- ☑ Custom/OEM Product Designs



# ON-SITE SERVICES

## START-UP SERVICES

Having the peace of mind that your fan is installed and operating properly prior to start-up is crucial. Twin City Fan & Blower offers a wide range of start-up services and precision checks, including inlet and impeller operational clearances, torque verification, shaft alignment, balance and vibration testing. As part of our standard start-up services, Twin City Fan & Blower field personnel will conduct a variety of inspection checks to ensure the fan is ready for start-up — all the way from the foundation bolts to the lubrication of the fan.

- ✓ Fan Assembly Inspection
- ✓ Vibration Checks
- ✓ Coupling and Sheave Laser Alignment
- ✓ Installation Assistance
- ✓ Commissioning

## FIELD SERVICES

Keeping existing fans operational is crucial to any business. At Twin City Fan & Blower, our on-site field service personnel can provide many types of service, including basic inspections, maintenance, troubleshooting, repairs and in-depth analysis. We'll keep your unit performing as it should to prevent costly down time.

- ✓ Installation and Commissioning
- ✓ Vibration/Spectrum Analysis
- ✓ Motion Amplification
- ✓ Non-Destructive Evaluation (NDE)
- ✓ Balance & Alignment
- ✓ Preventive Maintenance
- ✓ Mechanical Inspections/Repair
- ✓ Troubleshooting/Technical Support



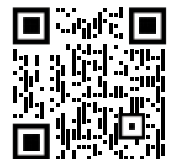
*Coupling & Sheave Alignment*



*Installation & Commissioning*

# PRODUCT FAMILIES

- ✓ Axial Fans
- ✓ Centrifugal Fans
- ✓ Centrifugal Filtered Supply Fans
- ✓ Centrifugal Roof & Wall Exhausters
- ✓ Fiberglass Fans
- ✓ Inline Centrifugal Fans
- ✓ Laboratory & Fume Exhaust Fans
- ✓ Mancoolers
- ✓ Mixed Flow Fans
- ✓ Plenum Fans
- ✓ Plug Fans
- ✓ Pressure Blowers
- ✓ Radial Bladed Fans
- ✓ Radial Tip & High Efficiency Fans
- ✓ Roof Ventilators
- ✓ Smoke & Heat Exhaust Fans
- ✓ Utility Sets
- ✓ Wall Mounted Fans



Full Line Catalog

# INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS  
MIXED FLOW FANS | TUBEAXIAL & VANEAXIAL FANS | WALL MOUNTED FANS | ROOF VENTILATORS  
CENTRIFUGAL ROOF & WALL EXHAUSTERS | GRAVITY VENTILATORS | RADIAL BLADED FANS  
RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS  
LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS | MANCOOLERS | FIBERGLASS FANS  
CUSTOM FANS



[WWW.TCF.COM](http://WWW.TCF.COM)

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