

Wind Tunnel Fans

Precision engineering supporting design excellence within industrial, commercial, and academic settings





Wind tunnels are essential to measure the aerodynamic effectiveness of objects. Air is moved past the object/wind tunnel model by a powerful Howden fan and the effects can be measured and studied, allowing the researchers to view aerodynamic forces, pressure distribution or other aerodynamic-related characteristics.

For over 50 years Howden has supplied fans for wind tunnel projects worldwide. Our fan technology has supported clients in the development of their own technological advancements.

Meeting the needs of wind tunnel operators

Howden engages with key companies across the wind tunnel industry. Our product range is aligned to the varied wind tunnel applications such as aerodynamic, aero acoustic or climatic. Our application expertise allows us to custom design the fan to meet the technical demands of each type of wind tunnel. By engaging with Howden our customers can take advantage of our renowned engineering expertise and reliable quality-assured manufacturing.



Temperature

Ability to operate in temperatures as low as -55°C in line with the demands of climatic wind tunnels.



Volume Flow

Flexible fan range to meet a wide range of volume requirements. High accuracy speed control enables accurate and reliable test wind speeds.



Noise

Fans can be engineered with low noise blades to support acoustic testing.



Acceleration

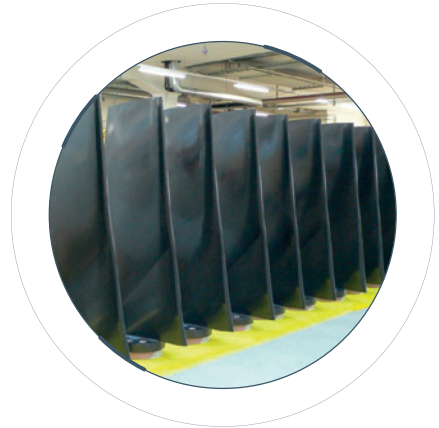
Ability to quickly reach speeds required for the test with acceleration to 100% in 15 seconds and deceleration back to 0% in 15 seconds.



Availability

High availability from fans proven to deliver reliable non-stop performance. Fans can exceed the expected life span of 30 years.

Howden's solution is a full turnkey project based on our engineering, technological, installation, software and service capability.



High efficiency air movement

Howden's fans deliver the right volume of air flow in the most efficient manner.

Our fans can quickly achieve the necessary flow, operate at low temperatures and with minimised noise output.

Scalable project delivery

Project delivery is provided on a scalable basis with full turnkey provision available to reduce project complexity, cost and management during design and installation stages.

Lifetime support and management

Our global service network means we can respond quickly to any requirements from spare parts to overhauls and upgrades.

By adding Howden Uptime operators gain real time monitoring mapped to a digital twin to ensure optimal fan performance.

How we deliver your project

The typical Howden scope covers everything from the main fan to everything required to have a fully operational system such as cooling (air and water), drainage, variable frequency drive, low voltage distribution, fan and drive control, transformer, and the main circuit breaker.

Design and Engineering	Manufacturing	Quality Assurance	Shipment	Installation, Commissioning and Testing
A detailed process involving finite element analysis of static parts and optimization of rotating parts and blades.	We use our own manufacturing capabilities alongside our global supply chain to manufacture fan parts worldwide.	To maintain our renowned high level of product quality, each project has a Quality Inspection Plan leading to an EC declaration.	Shipment is an integral part of project planning and included from the design stage through to final packaging and transportation.	We provide onsite installation and conduct detailed testing for assured reliable operation.

Howden

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