

Centrifugal fans

High performance air and gas handling for heavy and general industrial processes



Howden fans are central to **effective and efficient process.**

Designed to match operational duty points, each fan gives an **assured performance** within demanding industrial environments

Howden, a Chart Industries company, has a fan engineering pedigree developed over hundreds of years through the original Howden brand and those which joined the company such as Buffalo Forge, Covent, Sirocco, Solyvent-Ventec, Sturtevant and Turbowerke Meissen

Meeting the needs of modern industry

Howden engages with operators and engineers to support industrial production and in the development of their own technological advancements using our fan technology.

Our application expertise allows us to design the fan to meet the technical demands of each process often leading to efficiency gains and equipment savings versus other air handling technologies.

Our customers benefit from our renowned engineering expertise and dependable quality-assured manufacturing



Supporting multiple industries

Howden centrifugal fans serve a wide spectrum of industrial processes focused on the provision of air, thermal exchange and drying, and product handling



Meeting each challenge with the right fan

Howden's expertise and product range results in the right technology match for each application considering operational flow, pressure and conditions



We offer fans aligned to your needs with smooth integration for each layout and process



CFi



Engineered

Considerations

Measure of flow and pressure to be met

Typically, below 100 m³/s in flow and 20 kPa in pressure

Reaching flows of up to 1000 m³/s and pressures of 43 kPa

Level of customisation required for the application and operating parameters

Limited to a series of configurable such as stainless steel construction, carbon ring shaft seal, anti-vibration pads etc

Open to higher levels of special design aspects such as aerodynamic performance or special materials and construction to support conditions

Speed of delivery expected for the project

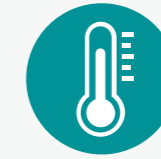
Shorter lead time in line with availability and level of configuration

Longer lead item in line with higher technical project requirements

Expected long-term operation and maintenance for fan within selected process

Durable and reliable operation for given application with minimal service intervals. Whole unit replacement at end-of-life

Long operating performance maintained relative to application demands due to specialized materials and construction. Backed up by scheduled maintenance and life extension via upgrade or retrofit



Temperature
Ability to operate in high temperature applications up to 1000°C in line with the demands of industrial processes



Flow/Pressure
Flexible fan range to meet every volume requirement from <1m³/s to 1000m³/s with variable flow control options. Pressures up to 43 kPa



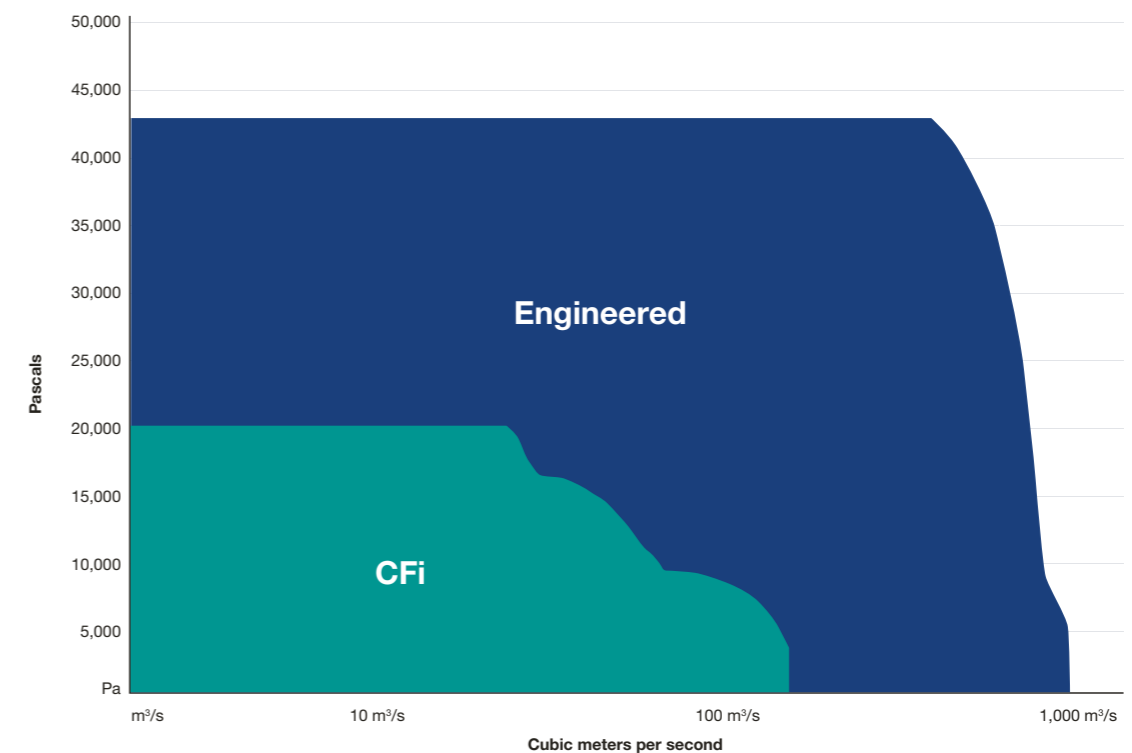
Efficiency
All fans are designed to maximize efficient operation with some reaching over 90% depending on application and operation.



Standards
Compliance with industry standards as required for each application e.g. API, ATEX, Nuclear certifications



Availability
High availability from fans proven to deliver reliable non-stop performance. Fans can operate well beyond life spans of 30 years



Howden has a global engineering community skilled with the most advanced numeric simulation tools to support any specific need. Whether it's a rapid configured solution or more specialised design, we offer fans aligned to your needs with smooth integration for each layout and process.

Supporting technical excellence in process design

Howden works closely with Original Equipment Manufacturers (OEMs), system technology developers and operators to ensure their process designs are optimised using our fan knowledge

Heavy industrial processes
Our fans are found throughout energy intensive processes such as metals, cement and chemicals production, power generation, refining and underground mining.

Typically positioned for Forced or Induced Draft (FD/ID), our fans play a critical role supplying air into combustion boilers, ovens and furnaces and removing exhaust gas from the process for treatment within FGD and/or SCR emission reduction units and beyond to the stack.



Using our global facilities, fans are manufactured in the region of demand giving cost and delivery advantages



Waste gas fan assembly within a steel sinter plant



Induced draft fan in a cement plant



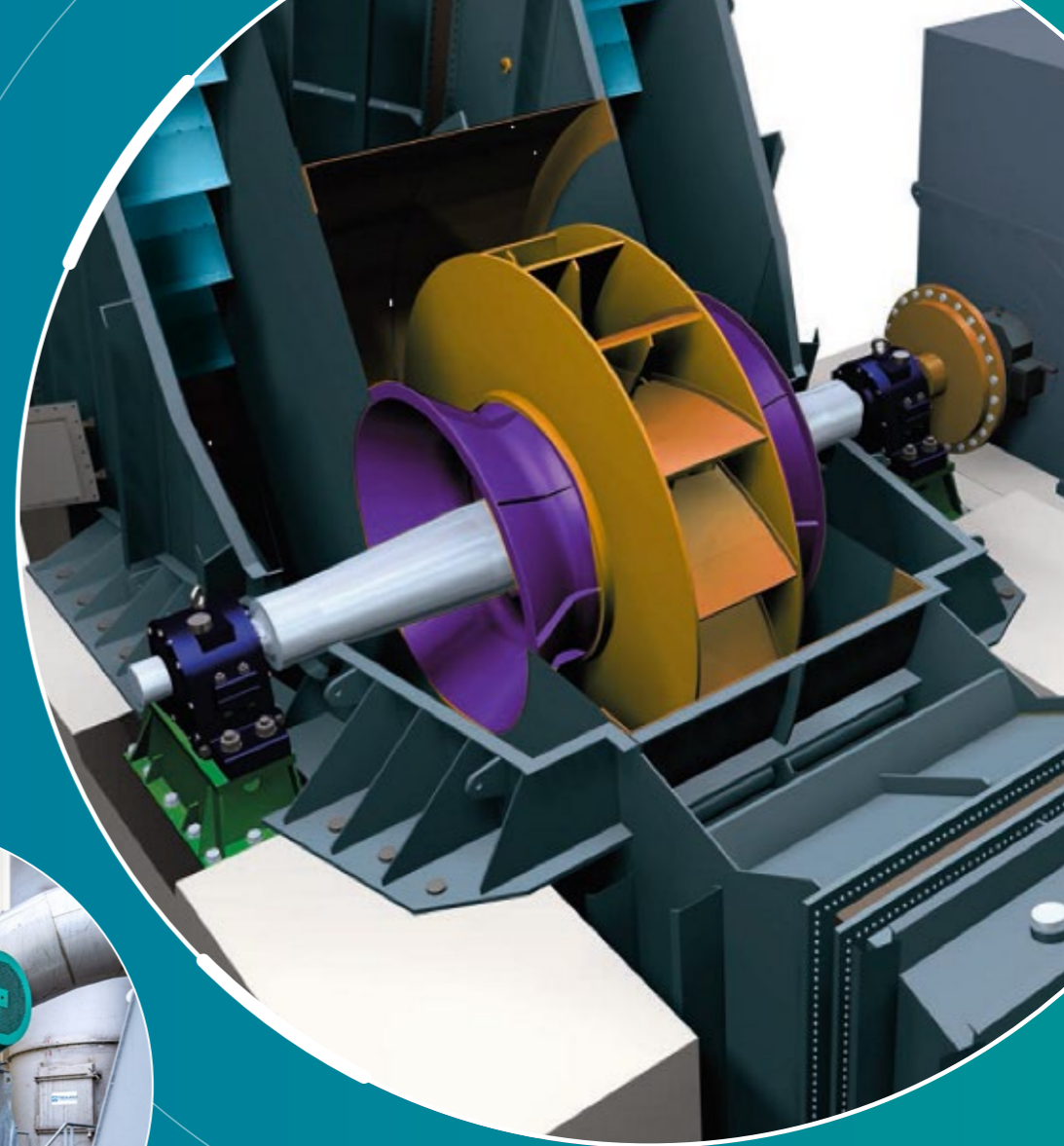
Fans within an oil refining process



Main ventilation fans for underground mine



Insulation plant de-dusting fans



Fans in operation in a brewery

Durable products

To enable this, our engineers design the fan impeller to maximise performance according to projected operating duties. They make expert selections in material and blade protection to ensure long term durable service. The housing and supporting structure layout consider site dynamics to fit the overarching engineering design of the process plant.

General industrial processes

Many industries need fans for air supply for combustion processes, product drying and transfer via pneumatic conveyance.

In some cases, our customers are developing production lines, some are producing systems that can be used across industrial processes, while others design and manufacture products requiring air at pressure or vacuum.

Each application can be met through fans selected from across

Howden's range. Once the best fan design is identified based on the scale and operational demands, they then become integral to the successful operation of each system or product.

Howden

Make an enquiry through our website



chartindustries.com/howden

Revolving Around You™

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