



# General brochure

Chart - Howden - Howden Solvent-Ventec





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# Chart products & solutions

Global leader for the design and manufacture of highly engineered equipment used across the liquid gas supply chain.



### Heat Transfer Systems

- Heat exchangers
- Cold boxes
- Air cooled heat exchangers
- Nitrogen rejection units
- High efficiency flow fans
- Specialty heat exchangers
- LNG liquefaction plants
- Turboexpanders

### Air cooled heat exchangers



### LNG liquefaction



### Cryo Tank Solutions

- Storage tanks
- ISO containers
- LNG regasification
- MicroBulk (packaged gas systems)
- Fueling stations
- Mobile equipment
- Vaporizers

### Cryogenic Tanks



### Mobile equipment



### Specialty Markets

- Hydrogen energy
- Carbon capture
- Water treatment
- Beverage carbonation
- Liquefaction – biogas, H<sub>2</sub>, He
- Liquid air energy systems

### Hydrogen energy



### Carbon capture



# Howden products & solutions

Leading global provider of air & gas handling solutions

## Compressors



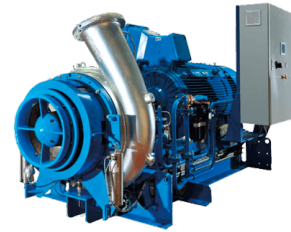
Oil-free and oil-injected screw compressors

Reciprocating and diaphragm compressors

High-efficiency centrifugal compressors

Piston compressors

## Blowers



Turbo blowers

Rotary blowers

Turbo fans for high volume requirements

## Steam Turbines



Single stage steam turbines

Multistage steam turbines

## Fans

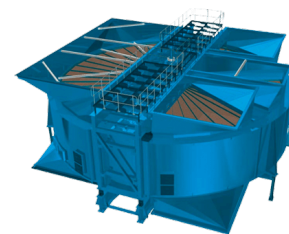


Axial fans

Centrifugal fans

Cooling fans

## Rotary Heat Exchangers



Air preheaters

Gas-gas heaters

Pre-engineered air preheaters & gas-gas heaters

## Software & digital solutions



Digital Solutions

Ventsim

Environmental solutions

# Howden products & solutions

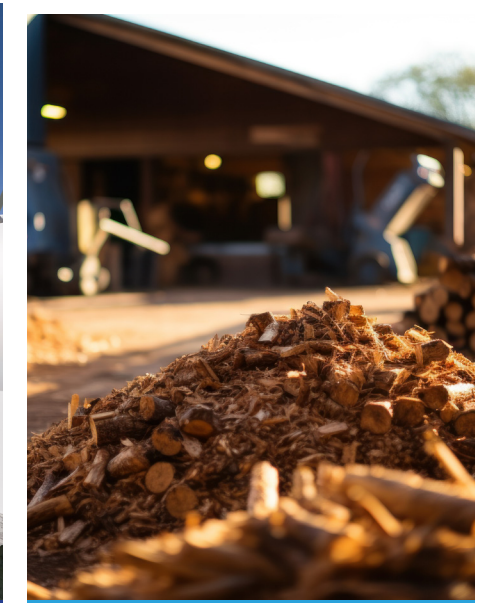
Expert advice to customers in a diverse range of markets



Power - Energy & Renewables



Hydrogen



Biomass



Water treatment



Cement



Mobility

# Howden Solyvent-Ventec

**Based near Lyon, Howden Solyvent-Ventec designs and manufactures industrial fans for process industries**

High-performance fans suited for the most severe environments. Benefit from knowledgeable and experienced teams, guiding you from design to start-up.

## Sites in France

- 1 Production site
- 2 Engineering centres



**225**  
Process, design, project management, manufacturing, services, intervention and assistance experts

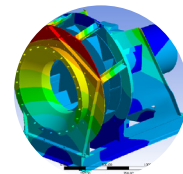
**AFTER-SALES**  
Service, assistance, repair, training, start-up, performance improvement, on-site measurements, supervision, etc.

## Specialties

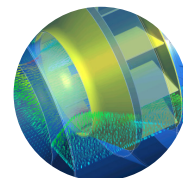
### Engineering



### Finite Element Analysis (FEA)



### Computational Fluid Dynamics (CFD)



### Tests

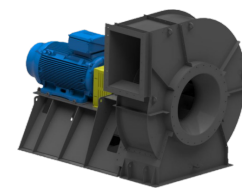


### Lab. test

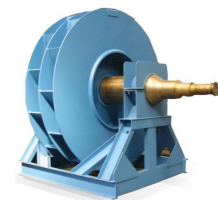


## Products

### Centrifugal fans

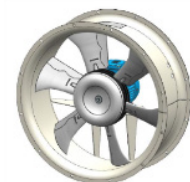


CFI

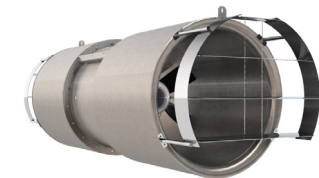


Technopal

### Axial fans



Axipal BZi



Jet fan

### Mixed flow fans



Centraxial

# Howden Solyvent-Ventec



## Nuclear

### Market requirements

Important for safety (IPS)  
Seismic and tornado qualification  
Decontaminating coating...



## Food & Beverage

### Market requirements

Stainless steel construction to avoid corrosion and facilitate cleaning



## Cement

### Market requirements

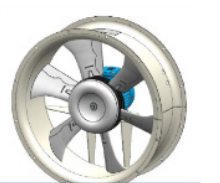
Robust design to cope with abrasive and dusty conditions.  
Integral forged shaft designs suitable for high-temperature environments.



## Power - Energy & Renewables

### Market requirements

Consumption reduction



## Marine & Defence

### Market requirements

Compact to fit the very limited spaces.  
Robust enough to handle co shock and vibrations.  
Lightweight



## Transportation

### Market requirements

Low noise level  
Vibration and acceleration resistance  
High level of performance





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