

HOWDEN SERVICE

Construction and Maintenance Division

# Howden Service

SPEED AND EFFICIENCY

At Howden Service our business extends beyond the installation and maintenance of Howden Power plant and equipment. Our highly qualified team of design engineers, experienced project managers, skilled installation, operation and maintenance specialists have, for many years, been involved with third party supplied plant and equipment. Contracts for plant construction, installation, commissioning, operation and maintenance have been successfully undertaken for the power, petro-chemical, steel, cement, marine, transportation and mining industries.



Fixed fire protection & detection systems: accredited to LPC standards

Technical advice, project management, spares and support



Marine oil & gas handling equipment supply, servicing & refurbishment

Howden Service is a part of the Howden Group of companies, the world's largest and longest established fan manufacturer. James Howden, a pioneering Scots engineer, founded the company in Glasgow in 1854 supplying ships' boilers and engines. Today the Group has subsidiaries in six continents and more than 15 countries worldwide.

With the global resources of the Howden Group behind us, we're able to support our customers to the most exacting standards. Wherever they are – from Africa to the Arctic, Kansas to Korea, Howden customers have the worlds best engineering instantly at their disposal.



Vessels & tanks: manufacture and installation



Complete turnkey plant construction & operation



Rotating plant installation



Rotating plant maintenance & servicing



Boiler pressure parts overhaul



Pipe work: design manufacture & installation

A highly qualified team of design engineers, experienced project managers, skilled installation, operation & maintenance specialists



# Service and commitment

VALUE ADDED SOLUTIONS

Today, as the competition to provide industry with essential plant grows ever more intense, it's quality of service that distinguishes the leading suppliers as much as the quality of their products, Customers expect it.

Within the Howden Group of companies, we pride ourselves on the experience we can bring not just to engineering design and manufacture, but to the vital area of after sales care.

As the market leader in manufacture and installation of process plant & equipment for air & gas handling we have a worldwide reputation for the speed and efficiency of our response to customer's requirements.

## Offices, factories and service centres throughout the world

With products whose operating life can be anything up to 40 years and beyond, we believe in building lasting relationships with our customers. It's our duty to offer them only the very highest standards of service whatever their needs, from initial installation of plant and equipment through routine maintenance to subsequent refurbishment and enhancements



Howden installed steam turbine at a nitric acid plant



Refurbishment to cement kiln: replacement of splined tyre and 60 metres of drum

Laser alignment



Electrical maintenance



Plant survey



Howden Service engineer air-lifted to oil tanker at sea

### Routine Maintenance & Plant Operation

We have the experience and expertise to design, install and carry out planned routine maintenance programmes & plant operation which leave our clients free to focus on their core activities. Using the very latest computer based maintenance management systems we are able to schedule work load so as to minimise disruption. We also maintain accurate historical data.

We have wide experience of operating and maintaining materials handling and other rotating & static plant on large power station sites & process plants using our in-house mechanical, electrical and control & instrumentation skills.

### Breakdown and Callout

Round-the-clock access to maintenance services is an integral part of our policy of forming close relationships with our clients.

Our multi-disciplined Field Service Division covers the whole of the British Isles and Eire. In most normal circumstances we will respond to a customer's call within 24 hours. In some cases, special contracts guarantee a two-hour response time.

For overseas customers we will arrange for experienced Howden engineers to attend site at short notice, either from the UK or from a local Howden company.



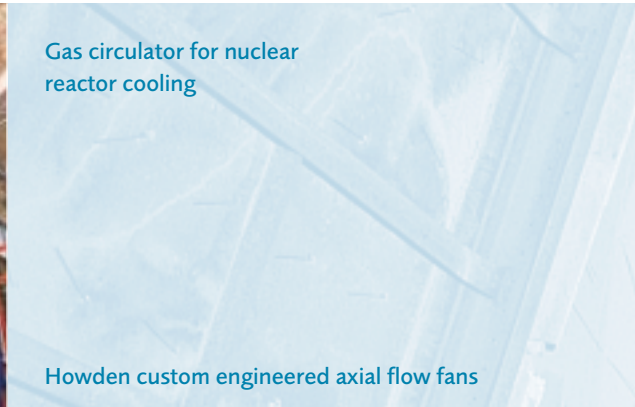
visit [www.howden.com](http://www.howden.com)

# Engineered for excellence

LEADING THE MARKET



Gas circulator for nuclear reactor cooling



Howden custom engineered axial flow fans



Dynamic assessment: site vibration analysis and machine foundation dynamic assessment



Gauge check: rotor under strain gauge check

## Testing and Assessment

Continuous improvement is fundamental to our philosophy, and we work closely with our major clients to identify and implement efficiency gains. On site testing, coupled with assessment surveys and design reviews, enable us to develop tailor-made solutions to each requirement

Within the Howden Organisation our testing capabilities include:

- Fan performance testing
- Dust burden emissions test
- Heat exchanger leakage tests (O2 or pulse tracer gas)
- Heat exchanger thermal performance tests
- Sound level survey and analysis
- Vibration analysis with intrinsically safe equipment in hazard areas
- Dynamic balancing of rotors in situ
- Laser and optical alignment
- Site strain gauging of high speed rotating equipment

## Plant Enhancement

Our own research and development coupled with long standing links with specialists suppliers, enables us to improve the performance of our own products as well as that of equipment supplied by other manufacturers

## Fixed Fire Protection Systems

Mechanical and electrical installation and maintenance of Fire Detection and Protection Systems to LPC and London Underground specifications.

# Committed to improvement

QUALITY, SAFETY & ENVIRONMENTAL

## Quality

Howden are accredited to ISO 9000 for both manufacturing and site activities. In addition Howden Service is accredited as a 'Certificated Fire Detection, Protection and Alarm Systems Company' to LPC standards. Howden Service is dedicated to maintaining a quality management system which ensures customer satisfaction, delivered safely and on time. The quality management system is open to review by all company personnel and authorised third parties enabling observations to be made for incorporation into the system, which provides for continuous improvement.

## Health, Safety & Welfare

Howden Service have a full time safety department to ensure compliance with the company safety policy, safe systems of work, producing safety plans, risk assessments and method statements for all work undertaken. All Howden Service operatives hold CCNSG safety passports.

Howden operate a health and safety management system in compliance with and accredited to OHSAS 18001. We are continually raising the awareness of all employees through training and the setting of management objectives. Howden seek continual improvement in health & safety and there is an ongoing challenge for all our managers to achieve this.



## Environmental

Howden are accredited to ISO 14001. The management system manual describes the core elements of the system and it is the duty of every employee to carry out their respective tasks in accordance with the procedures.



visit [www.howden.com](http://www.howden.com)

## Total Service

Nowadays customers don't just need products; they need solutions. Our capabilities are not limited to fans and air heaters.

We install, commission, operate and maintain a range of equipment from rotating machinery to complete plant – all backed up with warranties. In short we supply a total service to hard pressed project and plant managers.



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Pensnett House  
The Pensnett Estate  
Kingswinford  
West Midlands DY6 7FX  
Telephone: + 44 (0) 1384 401021  
Facsimile: + 44 (0) 1384 401039  
Email: [service.admin@howden.com](mailto:service.admin@howden.com)  
[www.howden.com](http://www.howden.com)