

Building Services

Global Capabilities

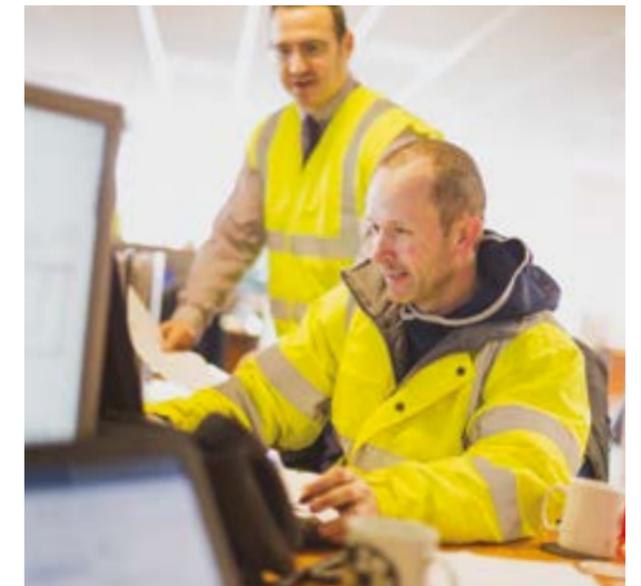


Since 1976, Elta Fans has been a market-leading manufacturer of fans for the Building Services, Applied Technology, Residential and OEM markets.

Over the last 40 years, Elta Fans have become a major supplier of axial flow fans for smoke ventilation, as well as a range of Building Services applications including air coolers and refrigeration, offshore and marine, industrial processing and many more.

Elta Fans prides itself on supplying high quality products that are carefully inspected and tested prior to despatch to ensure optimum efficiency of every unit.

Whilst Elta Fans' principal manufacturing plant is located in the UK, we also have operational manufacturing and assembly facilities in Italy, Malaysia, Australia, New Zealand and South Africa.





PART OF ELTA GROUP

Across all of our people, in all of our businesses, on all continents on which we operate, Elta Group has one purpose: To enhance life through air.

For 20 years we have been a proudly independent, family-owned group, but our foundations were laid over 45 years ago. Our foundations were built on an entrepreneurial spirit and a clear vision of meeting market needs and improving air quality. These have seen us become a leader in high-integrity solutions that move, filter, treat and distribute air, from agriculture to building services to applied technology. We're never standing still, always living and breathing our cause, and looking to the horizon.

eltagroup.com

- Europe
- Africa
- Asia
- Australasia
- REGIONS**

- Building Services
- Applied Technology
- Agriculture
- International
- MARKETS**

- Fans
- Air Handling
- Heat Recovery
- Filtration
- Natural Ventilation
- Acoustics
- Air Distribution
- Controls
- Heating
- Cooling
- Welfare
- Lighting
- PRODUCTS**

Our heritage

1972

Roger Crook and John Snape begin by producing single-phase, long-case, axial fans for commercial ovens under the company name of 'Low Temperature Applications'.



1974

Occupying just 70m², the company's first production facility in Woking, Surrey, UK, is set up, allowing the product range to be extended into three-phase fans up to 1.2m in diameter.

« Boudry Road manufacturing



1976

Low Temperature Applications is renamed 'Elta Fans Ltd.'

« Elta Fans Byfleet premises

1979

Rapid expansion sees the company move into a new 500m² factory in Byfleet, Surrey. This expansion enables the company to establish its first dedicated design and engineering team.

1982

The premises are expanded to 800m² to keep pace with production requirements; sub-contracted sheet metal work is brought in-house. The Centraflow range of in-line, centrifugal fans — designed to prevent stalling in high winds — is launched for offshore applications.

1984

Following intensive development and investment, Elta Fans' first axial impeller is launched, providing Elta Fans with the ability to fully-manufacture a highly-competitive, axial fan unit. The product is shipped around the world, including to South Africa, Australia and the USA.

1986

Elta Fans becomes the only manufacturer in the UK to achieve full certification of its range to the new BS 848 pt 1 (airflow) and pt 2 (noise) tests.

1989

The first 'Compact Fan' range is launched, utilising the Brook Crompton 'V' Range motor and Elta Fans' own standard glass-reinforced plastic impeller.



Compact Fan »

1991

The ongoing growth of the business allows Elta Fans to relocate to a custom-built, 1,200m² manufacturing and office premises in Fareham, Hampshire, UK.

This marks the start of a decade of substantial investment in state-of-the-art machinery, including Trumpf punching machines and Nodi flanging equipment, across all manufacturing sites, allowing for more manufacturing processes to be brought in-house to ensure optimal product quality from design through to production. The Fan Selection Programme is launched to market, providing customers with the ability to have full sound spectrum produced for their intended applications – an industry first.

Custom-built premises in Hampshire »



1994

The Fareham premises are further expanded to 2,000m².

1995

With a dedicated manufacturing plant in Cape Town, Elta Fans' product range is launched in South Africa through fellow Elta Group company, Air Movement Supplies.

1996

The business becomes the principal operating company in the newly formed Elta Group Ltd.

Our heritage



1998

Elta Fans moves into a 4,000m², purpose-built facility alongside the existing Fareham building. This major investment includes a modern Research and Development laboratory, and a reverberation chamber for acoustic testing, providing the ability to test all products, in-house, to the latest aerodynamic and acoustic standards. The facility pushes product innovation to new levels, including the development of the world's first adjustable-pitch, mixed-flow impeller within the same year.

« Elta Fans Fareham premises

1999

In Dudley, West Midlands, UK, Elta Fans launches a new division dedicated to the building services market.

2000

The introduction of new blades, as well as 400mm and 550mm hub sizes, expands the impeller range to up to two metres in diameter. The following year the addition of two more (255mm and 350mm) further expands the scope of product selection.

First building services export quotes arranged and distributors set up.

2002

Building services export relocates to Fareham, Hampshire. Distribution accounts continue to grow throughout Europe and the Middle East.

2004

Impulse fans for car parks are introduced to the range.

2005

The Fareham facility achieves Elta Fans' first EN 12101-3 Manufacturing Facilities for Smoke Ventilation accreditation.

2006

Elta Fans operations and sales relocates into a new 5,000m² facility in Kingswinford, West Midlands, UK.



2007

Additional investment in Nodi flanging equipment in Fareham and Cape Town strengthens Elta Fans' production capacity, ensuring consistently high quality and optimising manufacturing efficiency.

« Nodi flanging machine

2010

Installation of a new, state-of-the-art Trumpf TruPunch 2020 punch machine in Fareham and a Nodi flanging machine in the Kuala Lumpur facility supports the need for larger and increasingly complex components to meet the bespoke requirements of customers around the world.

2011

A second dedicated test facility opens in Kingswinford.



2013

To meet changing international legislation, the core axial-impeller is re-developed for increased efficiency.

« LC/SC axial fans

2015

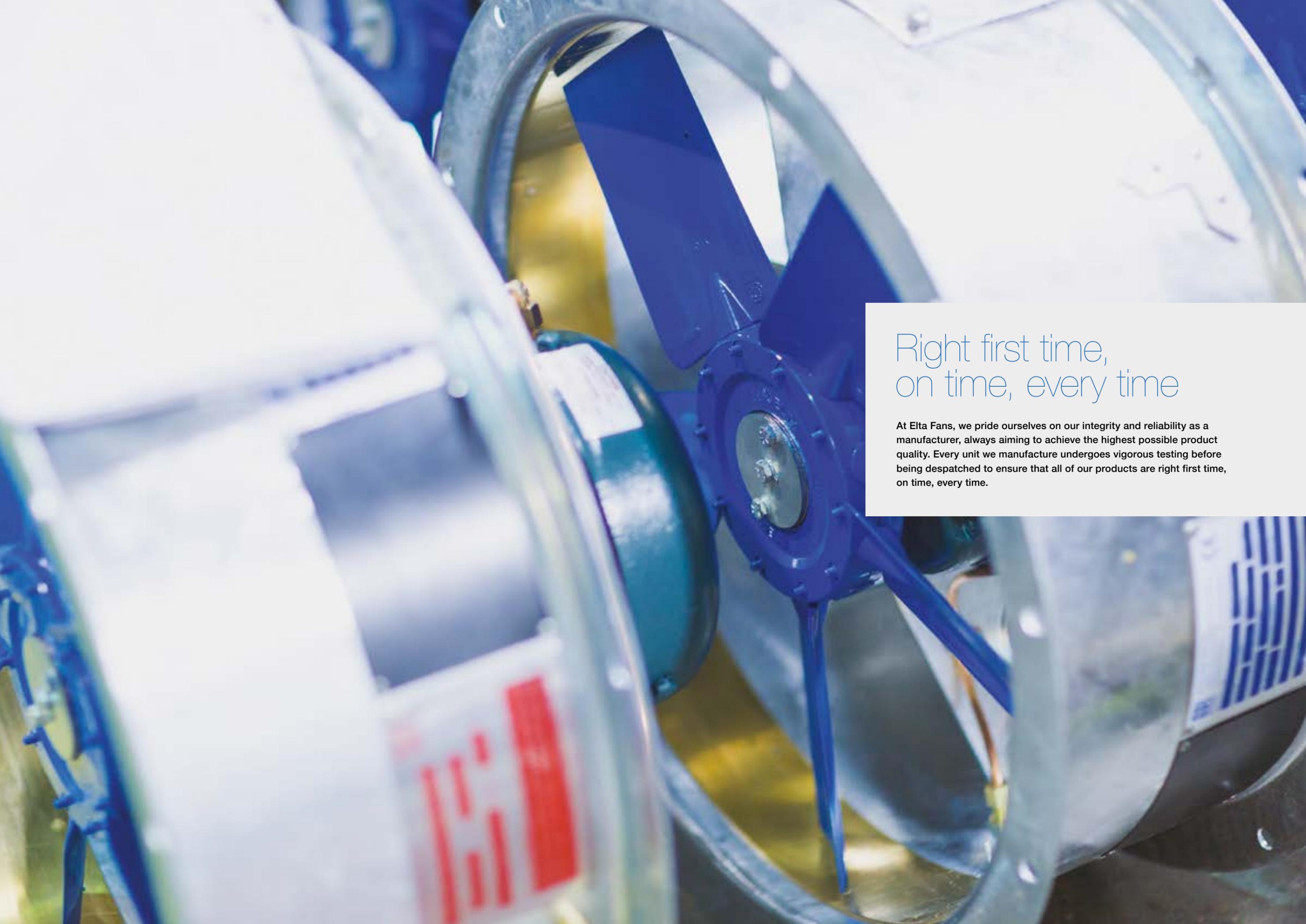
Installation of a 5 tonne, twin hoist crane to increase production capabilities of larger fans inline with customer and market requirements.

5 tonne, twin hoist crane »



2016

Elta Fans begins manufacturing acoustic products in Colchester, UK.

A close-up photograph of a blue industrial fan. The fan has several blades and a central motor housing. The background is slightly blurred, showing other parts of the fan assembly. The lighting is bright, highlighting the metallic and plastic components.

Right first time, on time, every time

At Elta Fans, we pride ourselves on our integrity and reliability as a manufacturer, always aiming to achieve the highest possible product quality. Every unit we manufacture undergoes vigorous testing before being despatched to ensure that all of our products are right first time, on time, every time.

Network of Distributors

Elta Fans has a strong relationship with a number of loyal distributors and our brand name is firmly established in many countries within the European and Middle Eastern markets.

- | | | |
|------------------------|-----------------|-------------------------|
| 01 United Kingdom | 06 Turkey | 11 Kuwait |
| 02 Republic of Ireland | 07 Cyprus | 12 Bahrain |
| 03 Denmark | 08 Jordan | 13 Qatar |
| 04 Sweden | 09 Egypt | 14 United Arab Emirates |
| 05 Italy | 10 Saudi Arabia | 15 Oman |



Manufacturing Excellence

Technical innovations are the foundation of Elta Fans' product range. Continued investment in plant and machinery, combined with the utilisation of modern manufacturing techniques, provides a fast, responsive and flexible approach to satisfy changing market conditions.

Within each department, Elta Fans complies with rigorous procedures to ensure design and implementation meets the highest standards of quality in our industry. The technology available to our engineers means they can pinpoint, analyse and make design changes and improvements without the expense of conventional prototyping.

Elta Fans' products and services conform to agreed contractual specifications and, where appropriate, national and international standards. With a research and development laboratory conforming to BS EN ISO 9001, our products are tested to the very latest aerodynamic and acoustical standards, providing reliable, accurate data, which customers can apply to their requirements.

Efficiency & Sustainability

Our products are designed and manufactured to meet and exceed all energy efficiency standards in every market, reducing their running costs.

Minimising the energy consumption of our products through innovative designs and the latest technologies allows us to maximise our contribution to a sustainable environment. Elta Fans' high efficiency adjustable pitch aerofoil impellers have been developed in line with the latest ErP legislation to deliver outstanding efficiency capabilities for overall lower running costs.

Group Knowledge

Since joining Elta Group in 1996, we have benefited from sharing our knowledge and experience with the other companies within the group.

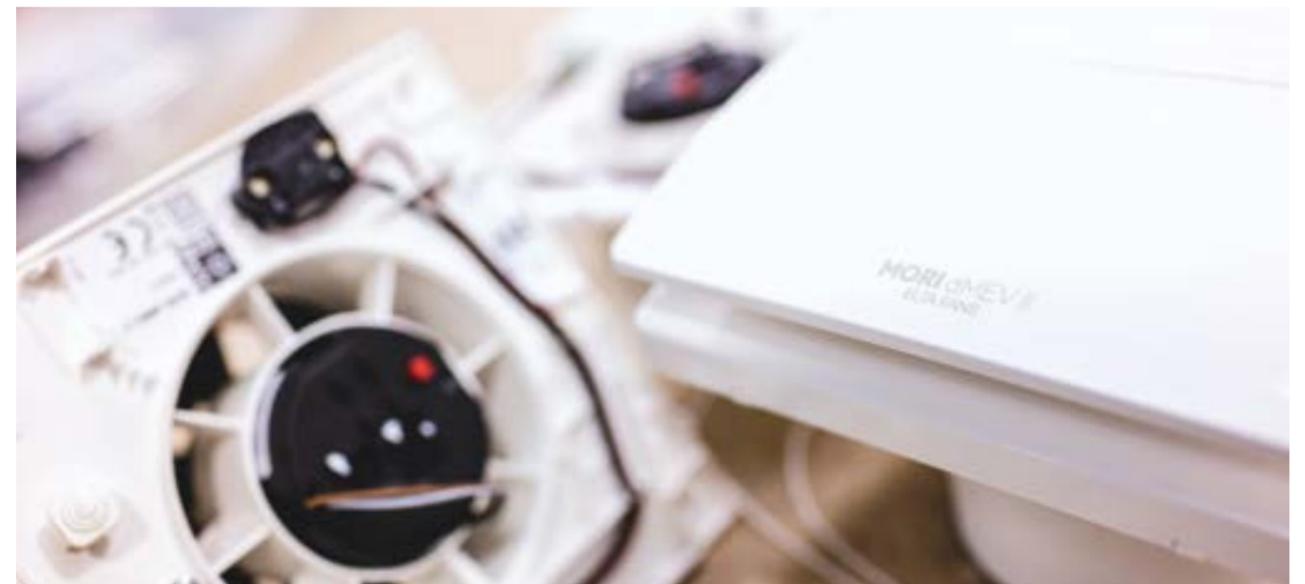
There are over 30 businesses and brands within Elta Group, giving us invaluable access into other product development sectors including:

- Acoustic Equipment
- Agricultural Products
- Air Distribution
- Air Filtration
- Air Handling
- Heating & Cooling Equipment
- Heat Recovery
- Marine Fans
- Oil & Gas Ventilation
- Residential Fans

Our Facilities

Elta Fans is an international brand with offices in the UK, Australia, Malaysia and South Africa. Designing and manufacturing reliable products of a high quality is the top priority for all of our UK and global facilities.

In the UK alone, we have a total of 15,000m² space specialising in research and development, manufacturing and assembly of a full range of Applied Technology and Building Services products.





Long & Short Cased Axial Fans

A core product range of our business for over 40 years, today our capabilities and reputation in axial fan manufacturing are renowned in the industry. Ranging from a standard unit to ventilate a factory building, to major applications including electrical sub-stations, drying processes and refrigeration, we are able to provide products for a wide array of applications.

With a diverse range of design and manufacturing options, as well as a complete range of ancillaries and guide vanes to provide more efficient power consumption, our engineers can develop the perfect solution to our customers' requirements.

Over **160**
long and short
case models

Diameters
from **315mm**
to **2000mm**

10
hub sizes

**Single &
three** phase
50Hz or 60Hz
supply

Volume flow
rates from
0.20m³/s to
100.00m³/s

Alternative
blade & casing
material finish
options

Single or
two speed
motors

Contra
rotating for
high-pressure
applications

Downstream
guide vanes

Variable
motor &
terminal
mounting

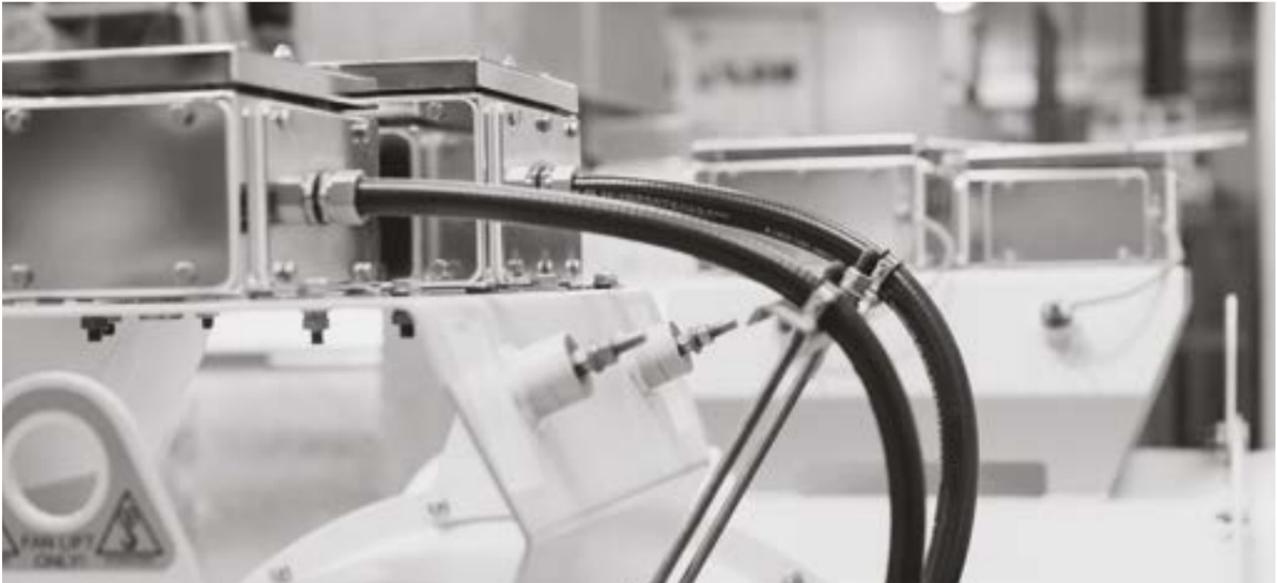
Wimes 3.03
specification
motors (water
industry spec/
standard)

ATEX Fans

Manufactured to meet the requirements of the ATEX Directive 2014/34/EU, relevant IEC standards and BS EN 14986:2017, our comprehensive range of axial fans for hazardous applications carry the appropriate equipment marking for the region and zone they are designed to operate in.

Our ATEX fans are designed and built to the Area, Zone and Category requirements of a given project and utilise electrical components that are certified under both ATEX and IECEx. Additionally, our manufacturing capabilities allow us to meet specific overseas hazardous classifications with a variety of flexible component options.

Diameters from 315mm to 2000mm	Long & short case variants	Specialist motors	Bifurcated, plate & cased construction
Specially certified terminal boxes	Spark minimising track	Specialist paint treatments	Aluminium, stainless steel or carbon loaded polypropylene impellers available
Gas Area – Zone 1 EPL Gb and Gc Area – Zone 2 EPL Gb and Gc Electrical protection concepts Ex d, Ex de, Ex e and Ex nA available	Dust Area - Zones 21 & 22 Category EPL Db and Dc	Single & three phase 50Hz or 60Hz supply	





Bifurcated Fans

Elta Fans' bifurcated axial fans are direct-driven units that were specially developed for handling hostile air conditions including hot air, gases and corrosive fumes.

Manufactured to the highest quality from mild steel and hot-dip galvanised to BS EN ISO 1461:2009, the range is available for standard and high-temperature applications. Our bifurcated range delivers a wide selection of air performances, including higher-pressure models.

Diameters
from **400mm**
to **1250mm**
(CYL)

Diameters
from **250mm**
to **630mm**
(CON)

150°C (CYL) &
250°C (CON)
operating
temperatures

Alternative
casing
materials &
finishes

ATEX / IECEx
or other flame
proof approved
motors

50Hz or
60Hz
supply

Plate Fans

The proven reliability and performance of our axial plate fans, along with their flexible construction options, have made them the preferred choice for a broad range of standard and specialist applications. Each plate fan is manufactured from mild steel and features the latest in impeller technology. Our plate fans also have a dedicated range of ancillaries and controllers available.

Diameters from **250mm** to **800mm**

AC & EC motors available

Epoxy coated pressed sheet steel

Single & three phase 50Hz or 60Hz supply



Box Fans

Manufactured using our own state-of-the-art production facilities, the box fan range is available with EC motors either single or twin. The robust 1.2mm galvanised mild sheet steel casing can be internally lined with Class O rated (BS476 Parts 6 and 7) fire resistant acoustic foam lining to reduce sound breakout in noise sensitive locations.

Diameters from **100mm** to **500mm**

AC & EC motors available

Acoustic lining available

Single & three phase 50Hz or 60Hz supply



Roof Fans

Our Axial Roof Cowl's use a robust, low profile glass fibre, weatherproof cowl that is manufactured from UV stabilised GRP and finished in goose wing grey to standard BS 00-A-05. There is also a range of centrifugal roof fans available that use external rotor or IEC motors with vertical discharge. These fans are also robust due to their all metal casing that is manufactured from pre-galvanised sheet steel.

AC & EC versions

5 ranges covering **7** sizes

Centrifugal or **Axial** roof units

Single & three phase 50Hz or 60Hz supply





Smoke Fans

Elta Fans are a major supplier of axial flow fans for smoke ventilation, with the SmokeVent range having been specifically developed for emergency smoke extract systems.

Our standard range can operate as part of the main extract system, or as dedicated fans for emergency clearance in hazardous fire, smoke and fume conditions. With four facilities certified to EN12101-3 Manufacturing Facilities for Smoke Ventilation, Elta Fans can supply units tailored to regional and project specifications as required.

Diameters
from **315mm**
to **2000mm**

Single or
two speed
operation

Single or
two stage

200°C,
300°C, 400°C
operating
temperatures

A range
of motor
mounting
arrangements

LPCB certified
for two
manufacturing
sites

Downstream
guide vanes

Contra rotating
for high-pressure
applications

50Hz or 60Hz
supply

Car Park Fans

We manufacture a range of fans including axial and centrifugal variants for both general ventilation and emergency situations in car park applications.

Our JetVent range includes induction and impulse ventilation models specifically developed to operate as both general ventilation and for once-only, emergency extract mode at temperatures of up to 400°C.

The product design eliminates the requirement for ducted systems, making efficient use of the limited space of enclosed car parks, in addition to reducing power consumption and the associated running costs.

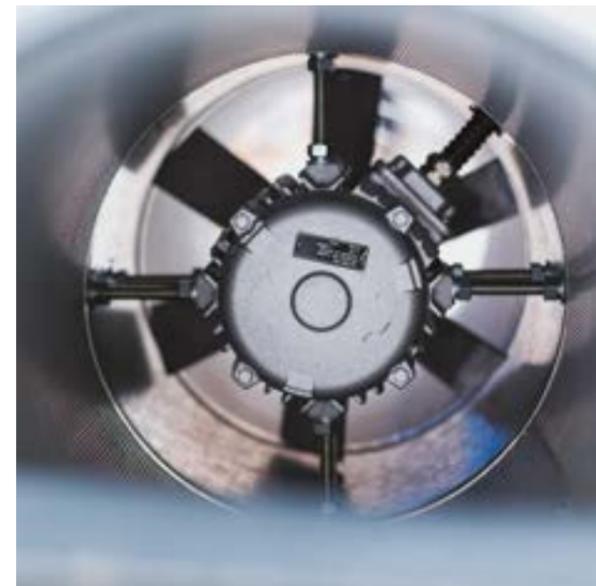
**50N
& 100N**
induction fans

Truly
reversible or
unidirectional
airflow

AC
motors
available

All impulse
fans **300/2**
or **400/2**

Isolator switch
or terminal box
variants



Select Range Products

As well as our bespoke and specification products, we stock over £4m worth of products that are available for immediate despatch. These products include:



Window & Wall



Ducted & Inline



Roof Fans



High Temperature



Hazardous Area



Destratification



Portable Cooling

Contact your local Elta Fans representative for a full catalogue of the above products.

Certifications

We are very specific about our design and manufacturing processes to ensure that we conform to the highest standards. We hold a number of internationally recognised certifications, including:

Certificate of Constasy of Performance 0086-CPR-493001
LPCB C937a-05
Kite Mark KM613754
BS EN 12101-3:2015 smoke and heat control systems

Additionally, all of our welders in the UK are coded to:

ASME Boiler & Pressure Vessel Code
 Section IX (welding procedure qualification records & individual welder performance qualifications).

BS ISO 15614-1:2004 A2:2012
 Welding procedure qualifications records.

ISO 9606-1:2013
 Individual welder performance qualifications.

We are also active members of professional organisations that help to shape and direct the research, legislation, trends and issues of the present and future:

FETA
FMA
EVIA
CIBSE Patrons
HEVAC Association
BSRIA
AMCA
Smoke Control Association

UAE	Dubai Civil Defence (DCD), Abu Dhabi Civil Defence (ADCD)
Turkey	Environment and Urban Ministry (CSB)
Qatar	Qatar Civil Defence (QCD), Qatar General Organisation for Standards and Metrology (QGOSM), Qatar Construction Standards (QCS), Public Works Authority (ASHGAL), Qatar General Electricity and Water Corporation (KAHRAMAA)
Egypt	Civil Defence of Egypt (CDE), Housing and Building National Research Center (HBRC), Egyptian Codes for Building & Construction (ECB)
Kuwait	Kuwait Fire Department (KFD), Kuwait Oil Company (KOC), Kuwait National Petroleum Company (KNPC), Ministry of Electricity and Water (MEW/MPW), Ministry of Health (MOH)
Jordan	Jordanian Civil Defence (JCD), Jordan Institution for Standards and Metrology (JISMO)
Bahrain	Bahrain Civil Defence (BCD), Standards and Metrology Directorate (BSMD)
KSA	Saudi Standards, Quality and Metrology Organisation (SASO)
Oman	Oman Civil Defence (OCD), Military Works Department (MWD)
EU	Energy Related Products Directive (ErP)

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A MEMBER OF  ELTA
GROUP

