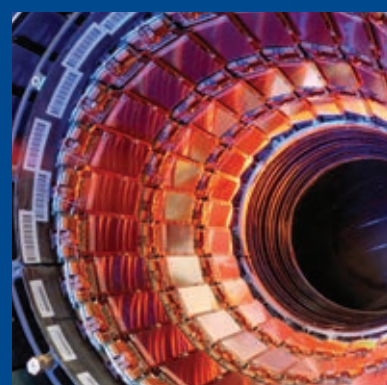




[www.api-capacitors.com](http://www.api-capacitors.com)

We are...  
exciting,  
innovative,  
proven,  
reliable  
and trusted.



# API Capacitors are the leading UK designer and manufacturer of high performance power capacitors.



**Our success is based on technical innovation, expert knowledge and focussed research and development. We work closely with our customers, to fully understand their current and future requirements.**

API Capacitors specialise in the design, manufacture and supply of power capacitors. We operate an ISO9001 quality management system and have an established reputation for technical excellence, quality and reliability.

## BACKGROUND

The company which recently became part of the API group of companies was previously a part of STC (Standard Telephone and Cable Ltd). STC was formed in London as Western Electric in 1883 giving the company over 100 years of heritage.

API Capacitors is managed and directed by professional engineers and is focused on improving the performance of our customers by assisting them to reduce operating costs, increase equipment life, improve process efficiency and improve reliability.

API Capacitors is not a high volume standard product supplier. Our typical batch size is between 10 and 1000 pieces. We strive to achieve consistent high quality and reliability. Our capacitors have a failure rate which is significantly lower than the industry standard.

Our range of products and services and our typical market sectors are detailed below. We have a developed customer base in the UK, mainland Europe, North America, Africa, Middle East and Asia. Over 70% of our turnover is exported.

## FACILITIES

The business operates from a 2000 m<sup>2</sup> manufacturing facility in Great Yarmouth, UK which has excellent road links and is near to several major UK ports and airports.

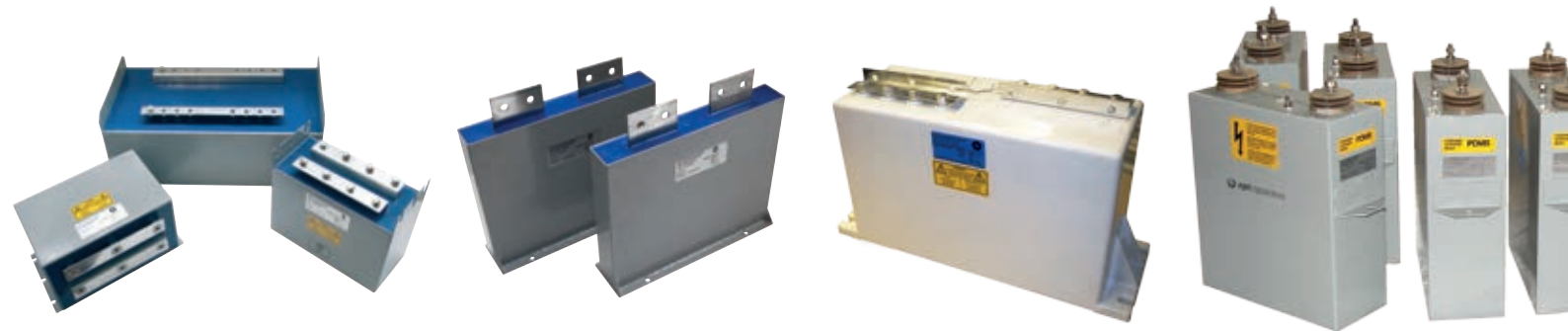
The facility has the following key pieces of equipment.

- 3D CAD, FE and Mathematical Design software for mechanical, electrical and thermal modelling
- Automatic winding machines with precision alignment and tension control operating in a controlled environment
- Vacuum Impregnation
- CNC Machining
- Specialist test and measuring equipment

## MARKETS

- **Traction:** Train, metro, mass-transit, subway, light rail etc.
- **Static Drives:** Power inverters for speed control of drives in the oil and gas, mining, energy, aerospace and marine sectors
- **Power Transmission/ Distribution:** FACTS (Flexible AS Transmission Systems), STATCOM, SVC, HVDC Systems
- **Pulse Power:** Lasers, aerospace, medical
- **Research:** Accelerators, superconductors, lasers
- **Automotive:** Electric vehicles, hybrid vehicles, motor sport
- **Other:** Welding, metal industries





## PRODUCTS

### General Product Capability

- Capacitance: 10nF – 30mF
- Voltage: 100V – 100kV
- RMS current: 10A – 1000A
- Frequency: DC – 100kHz
- Temperature: -50°C – 150°C
- Life: > 2 x 10<sup>5</sup> hr
- Reliability: < 200 FIT

### DC Capacitors

Low inductance IGBT filter capacitors, snubber capacitors for GTO and IGCT choppers circuits, rectifier smoothing, surge protection and spike suppression.

### AC Capacitors

Single and three phase filter capacitors for specialised power factor correction and harmonic filtering, AC/AC converters (Cycloconverters) and inverter output filters.

### Energy Storage Capacitors

Low inductance, high peak current designs for low, medium or high voltage applications.

### Track Circuit Capacitors

Switched variable capacitance polypropylene units and polycarbonate equivalents, all hermetically sealed.

### Custom Designed Capacitors

Manufactured to satisfy specific application requirements. Reverse engineered and retrofit units can also be provided to overcome obsolescence issues on sensitive plant.

API Capacitors concentrates on manufacturing capacitors that give outstanding performance and exceed our customers' expectations.

## MATERIALS

Only the highest quality polymer chips with extremely low levels of impurities are used to produce the high isotactic grade dielectric found in our capacitors.

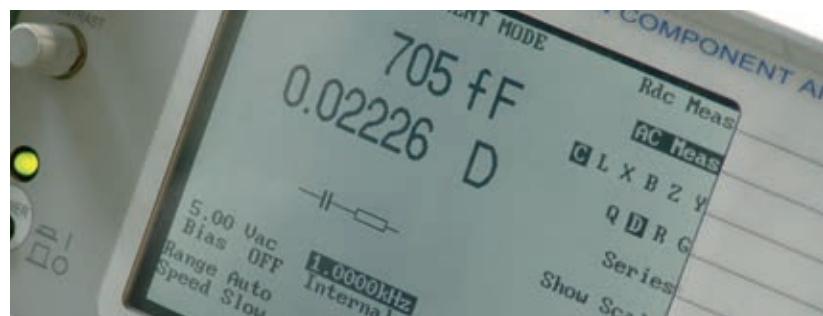
The film is metallised in Al and/or Zn combinations with segmentation patterns which provides controlled self-healing with integral fuse protection. Graded/sloped high resistivity metallisation is also used.

Robust Copper or Brass current carrying connections and epoxy or ceramic terminal insulators are standard.

Environmentally friendly impregnation liquids, flame retardant resins and corrosion resistant coatings are used.

**We know capacitors. Shouldn't you get to know us?**

**www.api-capacitors.com or call t: +44 (0) 1493 652752**





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#### ACCREDITATION

API Capacitors holds current ISO 9001:2008 and ANSI-ASQ National Accreditation Board (ANAB) certification.

#### GLOBAL AGENTS:

South Korea – Milim Syscon Co., Ltd

India – BSM Technologies

Italy – Compril S.r.l

Netherlands – KWx B.V.

Russian Federation – FMCC RUSTEL

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