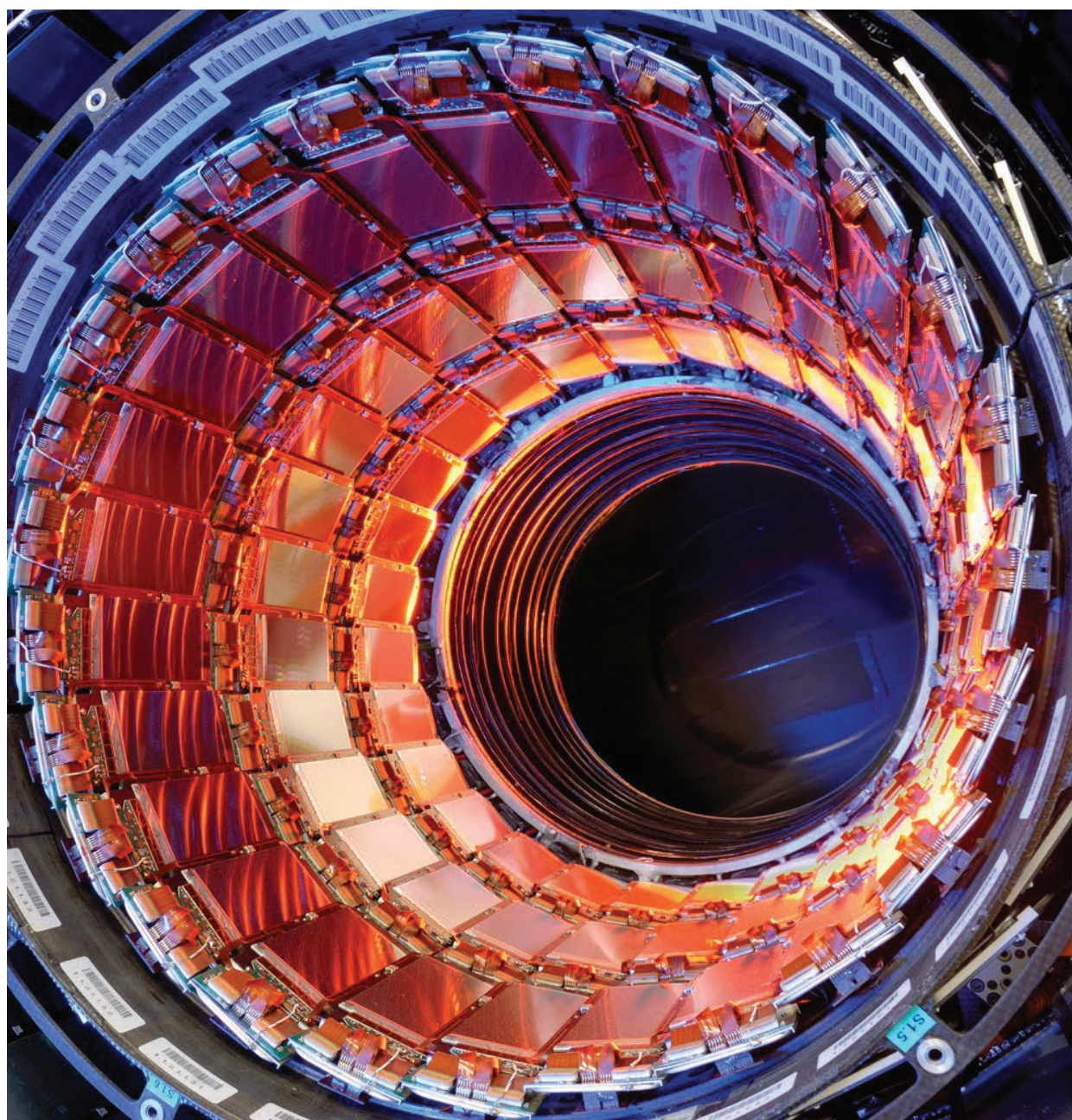


we are exciting

Our capacitors are used to accelerate our knowledge

ENERGY STORAGE CAPACITORS



www.api-capacitors.com

 **apicapacitors**

ENERGY STORAGE CAPACITORS

API Capacitors design and manufacture energy storage capacitors that are not limited to a catalogue range. Current, voltage, size, mass and terminations are matched to the customer's requirement and application, a few of which are listed below.

Shot life and high reliability is achieved using ultra low defect density, high isotactic, metallised polypropylene dielectric film incorporating an extended working temperature range and controlled self-healing capability. Elements are wound on the latest precision edge controlled automatic winding machines. High conductivity copper is used for low resistance internal connections. Capacitors are finished in powder coated corrosion free metal or insulated cases and filled with an environmentally safe oil or dry leak free resin.

Typical Applications*

Used in Military, Medical and Industrial applications.

- Oceanography (Subsea Surveys, Sparkers, Boomers)
- Power Electronics (Welding, Forming, Magnetisers, Demagnetisers, PFN's)
- Research (Particle Accelerators 'LHC, ISIS', Lasers)
- Testing (Lightning Simulation, High Voltage Capacitor Banks)
- Defence (Range Finders, Railguns, Radar, Missile Systems, EMP)
- Food Industry (UV Sterilisation)

Features

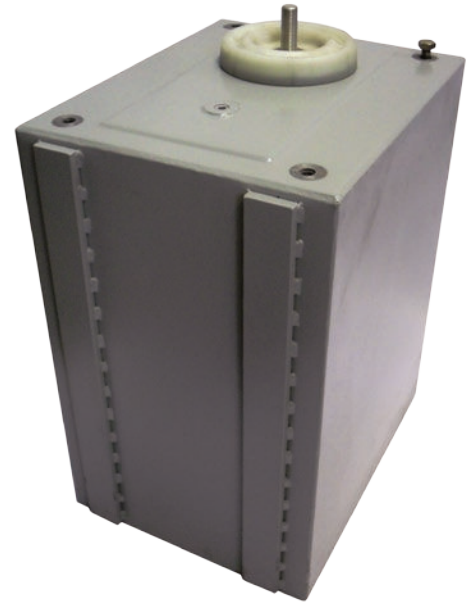
- High Reliability
- Controlled Self-Healing Technology
- Oil Filled or Dry Resin Filled
- Metal or Insulated Cases
- UV Resistance, Halogen Free, Low Smoke and Flame Retardant Materials

Custom Design Capacitors

Designed to meet detailed or brief specifications. Our technical sales representatives can work closely with your design team at concept stage or at the later stages of a project when a time critical design is needed. Alternatively like for-like replacements for older retro-fit designs can be offered.

Typical Characteristics*

Rated Capacitance (C):	0.01 to 30,000 μ F
Peak Repetitive Voltage (U_{NDC}):	100 to 50,000 V
Energy:	100 to 100,000 J
Life:	1000 to 10^9 Shots
Ambient Temperature (θ_{amb}):	-40 to +85 °C
Case Materials:	Steel, Stainless Steel, Aluminium and Various Insulated Materials
Termination:	Threaded M5-M16 Copper/Brass, Ceramic/Polymer Insulators, Busbar, Cable and Laminated connections
Related Standards:	BS EN 61071



* Applications and characteristics are for guidance only. Please contact us to discuss our full design capability.