

# DynaComp



## DynaComp

One cycle response, transient-free capacitor switching with no limit to the number of operations

### Typical Applications

- Any critical loads which cannot be interrupted by transients:
  - Hospitals
  - Airports
  - Computer networking centers
  - High technology manufacturing operations
  - Others
- Loads which require extremely rapid switching (less than one cycle, 16.7 ms) reactive compensation:
  - Welders
  - Elevators
  - DC winches (off-shore oil platforms)
  - Mining drag lines
  - Mining conveyors
  - Rolling mills
  - Cranes (Port Authority)
  - Ski lift drives
  - Stamping
  - Saw mills
  - Light rail transit systems
  - Others

### Product Description

The ABB Dynamic Response Compensator or DynaComp is a capacitor or filter circuit switched by solid state power electronic devices without any moving parts. It is the ultimate solution to the most demanding applications in rapid power factor compensation, filtering or transient control.

Reactive load switching which causes disturbances on the network or where very rapid compensation or filtering is required are major applications for DynaComp.



DynaComp's solid state switching concept, combined with the well proven features of ABB power capacitor technology, provides the following exceptional advantages:

#### • Dynamic response time and ultra-rapid switching

DynaComp's solid state switching allows it to achieve dynamic response times in the range of one cycle. A typical application of DynaComp is for lifting devices requiring rapidly varying amounts of reactive power. By installing a DynaComp close to a crane or an elevator, voltage drops can be minimized and disturbances on other equipment avoided. Simultaneously, the reactive power will be efficiently compensated locally, an impossible task with conventional equipment. The principle applies to many other types of equipment with sudden large reactive power requirements such as large motors, welders, large injection molding machines, etc.