

# HIGH VOLTAGE EQUIPMENT GENERAL BROCHURE



The leading supplier of power products in South Africa.

**HIGH VOLTAGE EQUIPMENT**  
A division of ACTOM (Pty) Ltd



# ACTOM

## Disconnectors

Supplier of HV Disconnectors 11kV to 765kV, the bulk of the volume up to 145kV is manufactured locally in the form of Single Side Break or Double Side Break. We also manufacture Vertical break type isolators locally. The pantograph type disconnectors are imported with high local content.

The configurations we supply are Single side break, Double side break and Pantograph type disconnectors.

These units can be motorised or hand operated and free - standing or integrated earth switches could be included in the design of the units. Actom HVE is the current holder of the Eskom long term supply contract for disconnectors up to 145kV.

For the disconnectors larger than 145kV up to 800kV Actom have agreements with OEM's worldwide where top quality products can be sourced from.

HVE is also the current holder of the long term Eskom contract for the supply of disconnectors.



## Instrument Transformers & Metering Units

ACTOM HVE is the largest manufacturer of HV Current and Voltage transformers in Africa. The locally manufactured units range from 22kV to 145kV and for the higher voltages up to 800kV units are sourced from suitable OEM's worldwide.

The Current transformers is the post type, hair pin and oil filled design and the Voltage transformers are the inductive type, single phase and oil filled design. All products are type tested in accordance with European standards. The units can be filled with mineral oil or with more environmentally friendly Ester oil.

HVE is also the current holder of the long term contract for the supply of Instrument transformers and metering units to Eskom.





## MV & HV Circuit Breakers

The MV Circuit breaker options up to 36kV include the Kiosk type CB also referred to as a 'dogbox' circuit breaker and the Combo CB that can be offered with current transformers or Current transformers and Voltage transformers on the same steel structure. Large installed base of the Combo CB in Eskom distribution and municipalities.

The HV Circuit Breakers are sourced from various OEM in Europe and the East. These units comply to all the major European and American standards and specifications. Type test certificates are available for the range supplied. HV Gas Insulated Switchgear is part of our scope of supply and Hybrid type HV switchgear is available for cases where special designs are required to provide essential customers a solution.

With the freight and passenger rails systems in Africa in need of refurbishment and extension we have a traction Circuit Breaker which we source from an Italian OEM.



## Surge Arresters

We offer station class and distribution class Surge Arresters into the African market. These are fully imported from various OEM in Europe and the East.

The various products are manufactured strictly in accordance with IEC standards and type tested accordingly.

For specific applications and more detailed information please contact our office.



## Insulators 11 - 800kV

These are sourced from reputable OEMs in Europe and China , type tested and in accordance with relevant applicable specifications

### Porcelain Insulators

- 31MM/kV CREEPAGE
- C4-150/22kV to C6-650/132kV
- C4-1175/275 kV to C16-1550/400kV

### Composite Station , Line posts and Long rod insulators

- Hybrid Post Insulator
- Porcelain core 31mm/kV Creepage

- C4-150/22kV to C10-650/132kV
- Composite PI's
- 31mm/kV Creepage (FRP core)
- C4 - 1175/275 kV to C12.5 – 1550/400kV

### Glass Overhead Line insulators

- Composite Suspension and Glass Disc Insulators
- AC & DC Application
- 70kN to 550kN



## Service

### Installation and Commissioning

- Capable of installing and commissioning of HV outdoor equipment
- Eskom accredited installer
- Authorised to work in Eskom substations

### Cabling & Stringing

- Qualified to do cabling and stringing in Eskom substations
- Skilled to work in HV substations
- Necessary tools to carry out work at heights

### Service and Maintenance of HV equipment

- Qualified and certified to service and repair HV equipment

- Reference of work completed for Eskom , Major Munics, Metros and industrial plants
- Necessary skills and test equipment

### Service & Refurbishment of Gas Insulated Switchgear and Handling of gas

- Referenced as qualified service provided
- Skilled staff and proper test equipment
- Referenced service provided , Eskom, RBM, etc.

### Insulated Power Busbars ( IPB's)

- Manufacturer and supplier of product, service and spares
- Market leader in field
- Top supplier to Eskom Generation

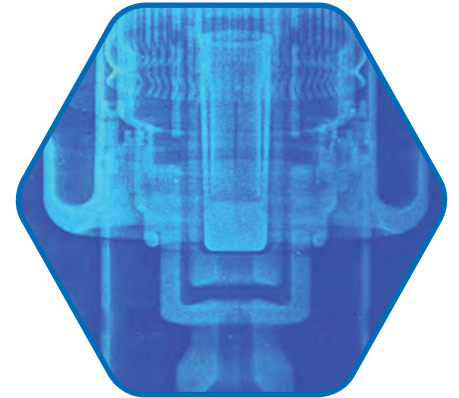


## Condition Monitoring

- Capable of inspecting equipment without stripping
- Taking X-rays for GIS chambers and Circuit Breaker contact wear
- Reporting of findings

## Training

- Training of client staff in proper maintenance of HV Equipment
- Training in Installation and Commissioning
- Circuit Breaker Maintenance



## Power Quality

System stability in public and industrial networks.

Reactive power compensation and harmonic filtering.

Voltage stabilisation

Power Quality Solutions for Mining, Industrial, Utility and Renewables projects.

- Power Factor – Passive de-tuned compensation systems (single & multi step)
- Harmonics – Passive harmonic filter systems
- Voltage Band Violations – STATCOM
- Flicker – SVC solution (static var compensator)
- Active Power Levelling
- Active filter with energy storage system



ACTOM High Voltage Equipment

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Directions:

GPS Co—ordinates S:S: 26° 11.875'

E:E: 28° 11.925'

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