Switchgear Product Enhancement

Specialising in the provision of reliable engineering and cost effective solutions.

Retrofit Vacuum Circuit Breakers

SPE is at the forefront of Retrofit Vacuum Circuit Breaker design and manufacture with their latest "roll out" - "roll in" circuit breakers which can replace the old life expired oil circuit breakers or SF6 circuit breakers with minimum system down time.

SWS: C4, D4, DXD, DXE, HG12

GEC: BVP17, BVP22

AEI: BVRP4, BVRP3

Switchgear and Cowans: A4, FA4, UA4, UAE4, UA6

Ferguson Pailin: VSBP3, VSBP17

Brush: VSI R4, R8

Reyroll: LMT, LMT", LM23T

English Electric: OLX, OLX3

Statter: ACo1

Technical Data

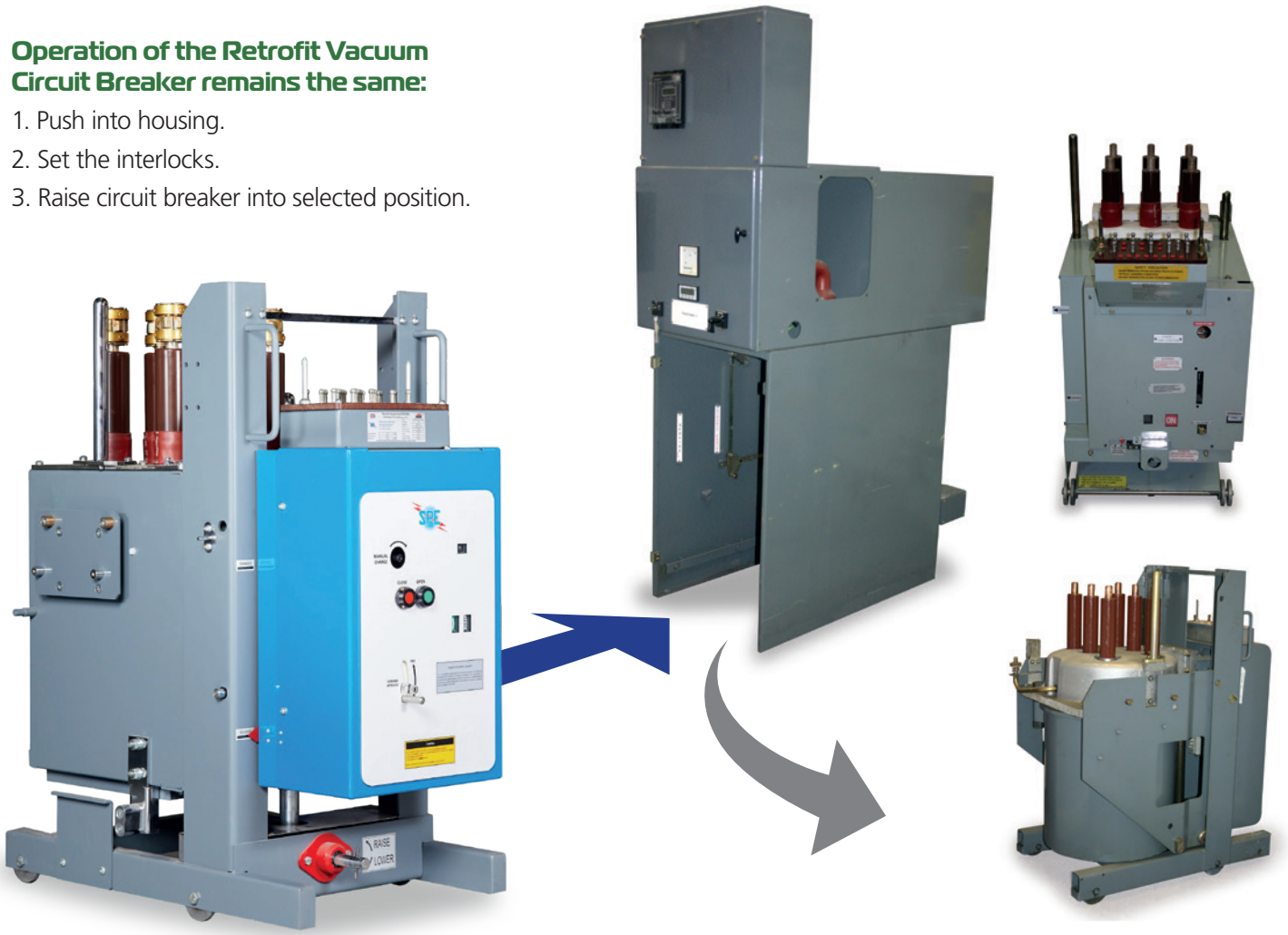
- Rated voltage up to 12 kV or 13.8 kV
- Rated short circuit breaking current 25 kA or 21.7 kA
- Rated short time current 3 seconds
- Rated normal current up to 1250A
- Rated BIL up to 95 kV

Test Specification of the retrofit VCB

- IEC 62271-1, Ed. 1.0, 2007-10
- IEC 62271-100, Ed. 2.0, 2008-04

Operation of the Retrofit Vacuum Circuit Breaker remains the same:

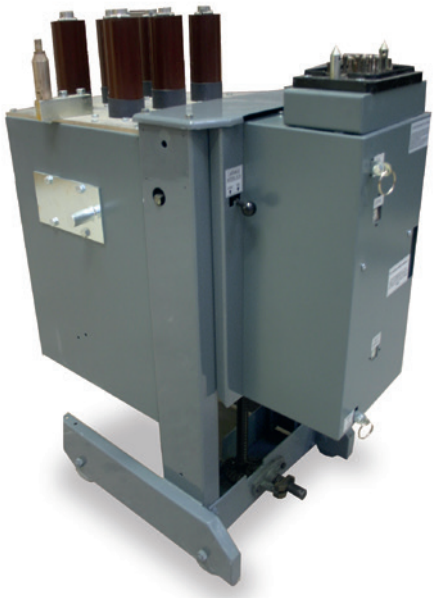
1. Push into housing.
2. Set the interlocks.
3. Raise circuit breaker into selected position.

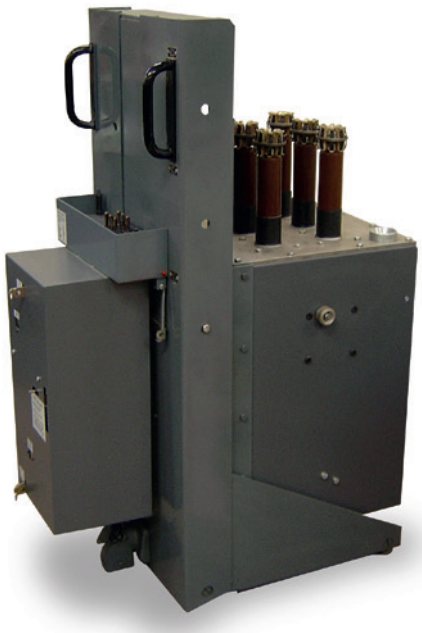


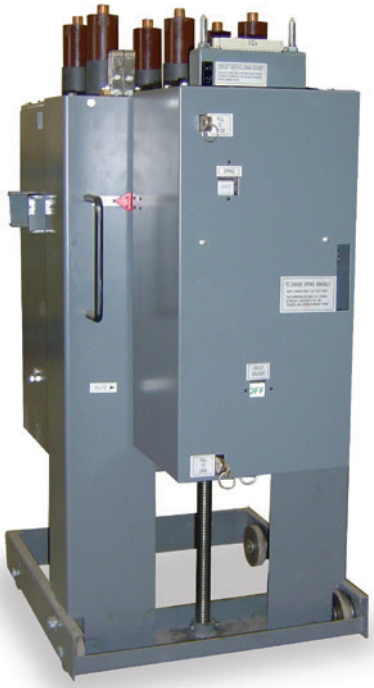
Retrofit Vacuum Circuit Breakers

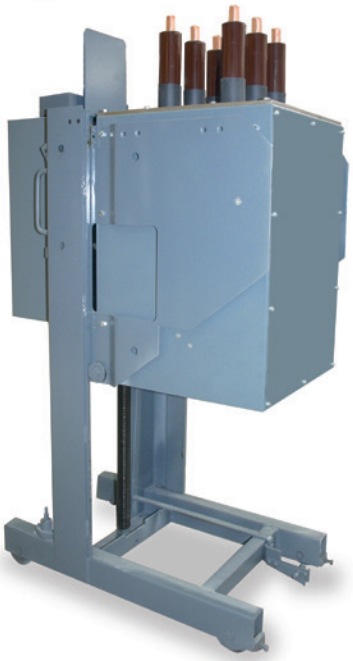
Retrofit installations deliver the following benefits:

- Significant reduction in time and resource requirements during the planning stage when compared with complete switchboard replacement.
- Considerable savings in capital cost when compared with switchboards replacement.
- Enables phased replacement with costs budgeted over a number of years.
- Disruption to the site much reduced.
- No civil work involved.
- Removal of oil from the substation reduces risk of fire and explosion leading to lower insurance premiums.
- Increased operating reliability, reduced maintenance and maintenance cost.
- Eliminates need to disturb or replace HV cables.
- Retrofit vacuum circuit breakers can be provided with motor wound spring mechanisms which allow remote operation.
- Suitable for frequent switching duties.
- Removal of SF6 from site.
- Service life of the fixed housing significantly extended.
- Contributes to customer environmental sustainability policies by better use of natural resources and reduction in raw material required, reducing the carbon footprint.









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