

Retrofitting 12kV Type LM Switchgear
for Panel Types LMT, LMV, LMVP, LSR & LMR

RPS Switchgear Vacuum Circuit-breaker Retrofit

RPS Switchgear offers a retrofitting service to upgrade your “LM” type panels with the latest fully interchangeable LMVP vacuum circuit breaker. Retrofitting with RPS Switchgear has many advantages over replacing an existing LM switchboard:

- **Cost** Financial savings favour switchboard life extension versus replacement.
- **Automation** Upgrade to provide remote control and monitoring or high speed auto-reclose.
- **Health, Safety & Environmental** Elimination of oil or SF6.
- **Disruption** Minimal disruption of supply.
- **Performance** Improved performance and reliability.
- **Ratings** Both current and fault level rating can be increased.

RPS Switchgear provides a quality, cost effective alternative to increase the life of your existing switchgear with very little or no disruption of supply while the work is being carried out.

With Vacuum Circuit Breaker Retrofit you can: Minimise Costs

Reduce maintenance costs

- Parts for older oil circuit-breakers are becoming expensive to replace.
- LMVP vacuum circuit-breakers require less maintenance over extended periods of operation.
- There is no oil or gas to handle.
- Large number of fault operations before replacement of vacuum interrupter is necessary.
- If required, the quick change of the vacuum interrupter saves on maintenance costs.

Reduce insurance risk

Insurance companies are increasing premiums for clients with oil filled equipment.

Limit switching errors

Retain operator knowledge and limit switching errors by maintaining the same make of switchgear.

Minimise supply disruption

Retrofit takes much less time than a total switchgear replacement, which minimises supply disruption and ensures minimum revenue loss to supply companies and end-users.

Improve Technical Quality

Retrofit oil & SF6 with vacuum

The well proven RPS Switchgear LMVP vacuum circuit-breaker is designed to be interchangeable with oil & SF6 circuit-breakers.

Environmentally friendly

No oil or gas disposal required.

Proven mechanism

Based on the LMT design for proven reliability, with motor-charged spring or solenoid operation.

Easy panel upgrade

- Existing LMT panels can be easily upgraded with only minor modifications.
- Retrofitting maximises the use of current installations, with minimised equipment redundancy.
- Protection and control equipment can be upgraded simultaneously.

Improved ratings

Take advantage of higher ratings without having to change the complete switchgear.

Improved capacitor/motor switching

Vacuum interrupter technology provides improved capacitor and motor switching performance.

Seismically tested

Seismically tested for reliable operation in earthquakes, or unstable locations such as mines. LMVP switchgear has also been successfully operated on floating oil production stations.

SCADA compatible

Many control systems are being upgraded. LMVP is suitable for remote control and monitoring of switching circuits.

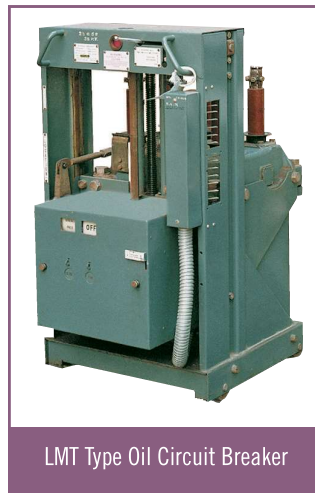
Prompt delivery

Production is totally in-house at RPS Switchgear, allowing quick response to customer needs.

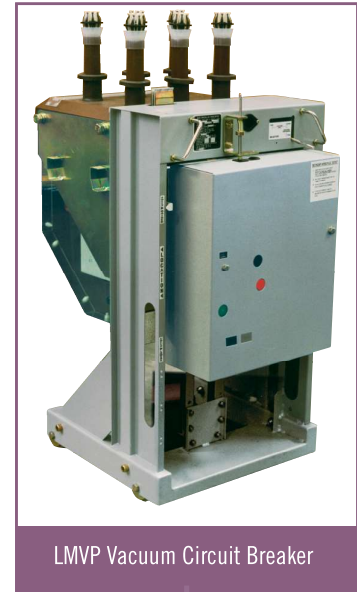
RPS Switchgear Vacuum Circuit-breaker Retrofit Options

Direct VCB exchange
(using existing Secondary Isolating Contacts)

Step 1
Remove existing Oil
Circuit Breaker



Step 2
Replace with new
LMVP Circuit Breaker



Optional Secondary Isolating Contact to Plug & Socket conversion

Plug and Socket Benefits

- Allows circuit breaker operation outside the panel.
- Eliminates SIC alignment issues.
- Better reliability.

