

**Affordable  
Retrofit  
solutions  
at a fraction  
of replacement  
costs**

**WHAT WE WANT TO AVOID !!**

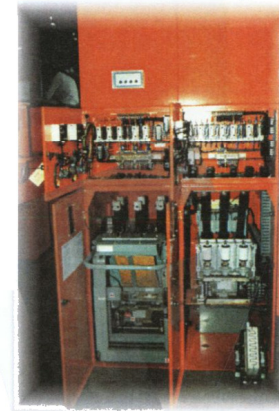


**IPI range of retrofit switchgear for Low and Medium voltage includes replacement units for:**

Arthur Trevor Williams		Alstom
AEI	Brown Boveri	Brush Switchgear
British Thompson Houston		
Crompton Parkinson		English Electric
EIB	First Electric	Felton and Guilleaume
Ferguson and Pailin		GEC
Hawker Siddelly		Magrini Gallileo
M and G	Ottermill	Reyrolle
South Wales	Switchgear and Equipment	
Vanossi	Whipp and Bourne	
Yorkshire		

Most of our ratings have been up to 24 kV with fault levels ranging from 16kA to 40 kA. The operating mechanisms available are of the spring wound as well as magnetic actuated type.

From bulk oil filled equipment to latest vacuum type.



Forward/Reverse motor starter with dynamic breaking and local surge suppression.

**Some of the advantages, milestones and key facts**

- ★ We have mastered outages to less than 1 shift, including in many cases the upgrading of the associated protection.
- ★ Reducing maintenance hours/costs and increasing operator safety at a fraction of the cost.
- ★ Type tested retrofit solutions.
- ★ We have been involved in thousands of retrofits in the last decade.
- ★ Most retrofits are supplied with the latest vacuum interrupter technology (ie) at least  $30 \times 10^3$  operations up to  $100 \times 10^3$  operations.

From redundant minimum oil ...

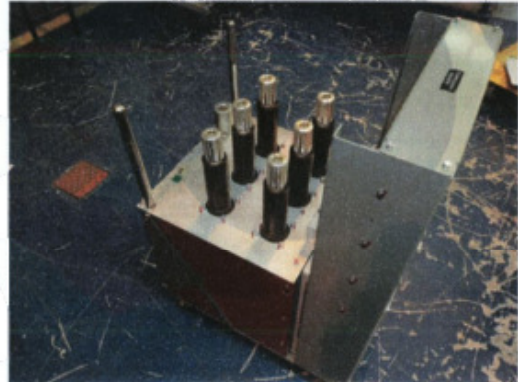


... to latest vacuum circuit breaker technology.

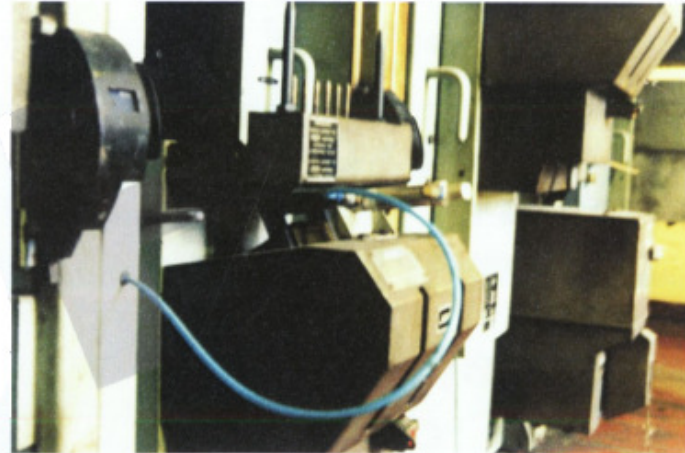
From a standard design ...



... to hybrid harsh outdoor solutions.



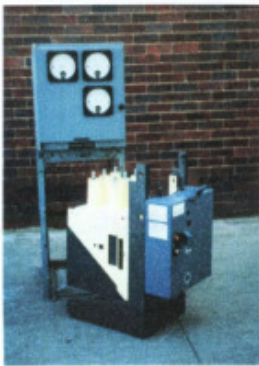
From hand operated ...



... to pneumatic remote closing ie. Remote safe switching.



From bulk oil ...



... to motorised vacuum circuit breakers complete with remote operating facilities.



Latest magnetic actuator solutions combined with high duty vacuum interrupter.



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