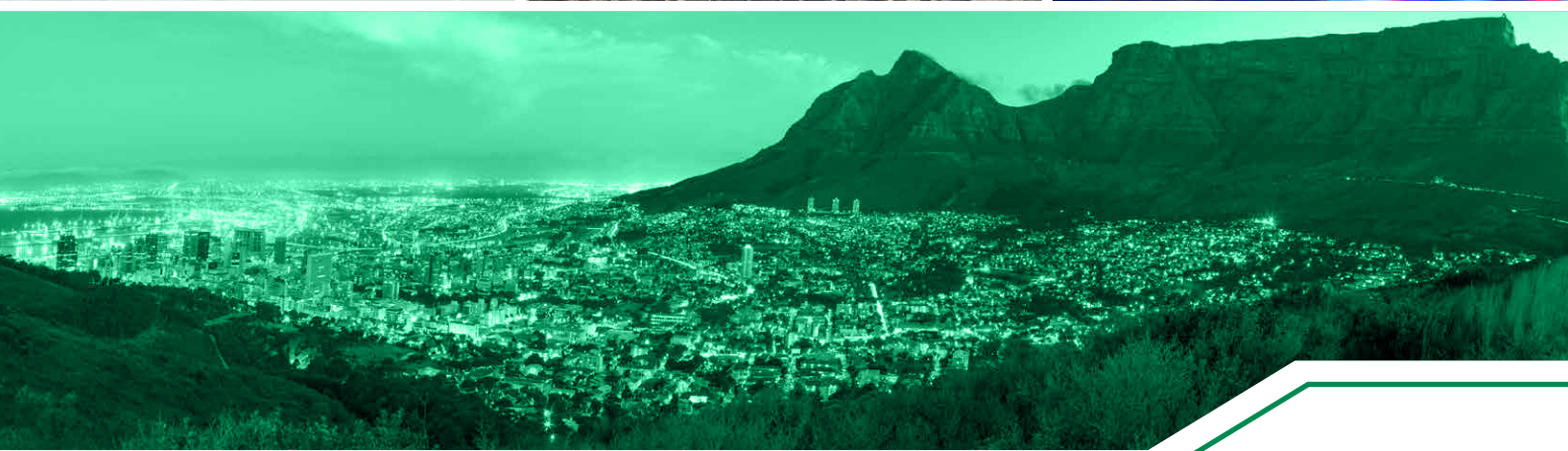
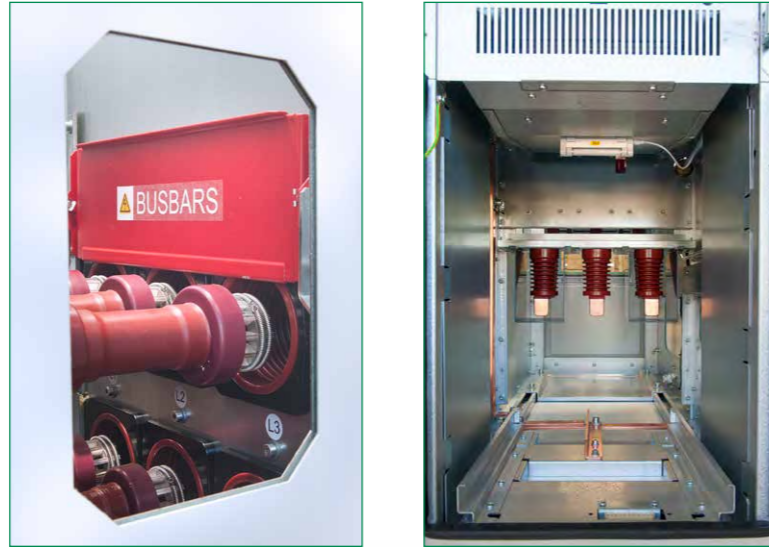


THE ASSURE RANGE

HORIZONTAL SWITCHGEAR



RPS Switchgear's new Assure range of Horizontal Indoor Switchgear is fully type tested and certified to international IEC Standards. With an impressive internal arc rating of 31.5kA for 1 second A-FLR to IEC 62271, it will more than satisfy the most demanding of network owners' requirements.



SMART GRID COMPATIBLE

With a full suite of safety features and the ability to automate operational functions the Assure range is SMART GRID ready and operator friendly.

The Assure range is suitable for any medium voltage application requiring safe and reliable, low maintenance operation, with long service life.

With its industry leading narrow footprint, the 1250A panel is only 600mm wide and the 2000A is 800mm wide

The T600 and T800 panels are metal-enclosed air insulated switchgear with the following characteristics:

- A Control cubicle in which low voltage relays and instruments are fitted.
- Compartments segregated by metallic partitions.
- Designed and tested to IEC standards.
- Highly effective use of space.
- Comprehensive mechanical and electrical safety interlocks.
- Smart grid compatible.
- Flexible Current Transformer and Voltage Transformer specifications.
- Panels are fitted with a 31.5kA fault current rated earth switch.
- Assure Switchgear is manufactured to a very high standard and every panel is inspected and tested to ensure that it's meets our high quality standard before being dispatched to our customers.



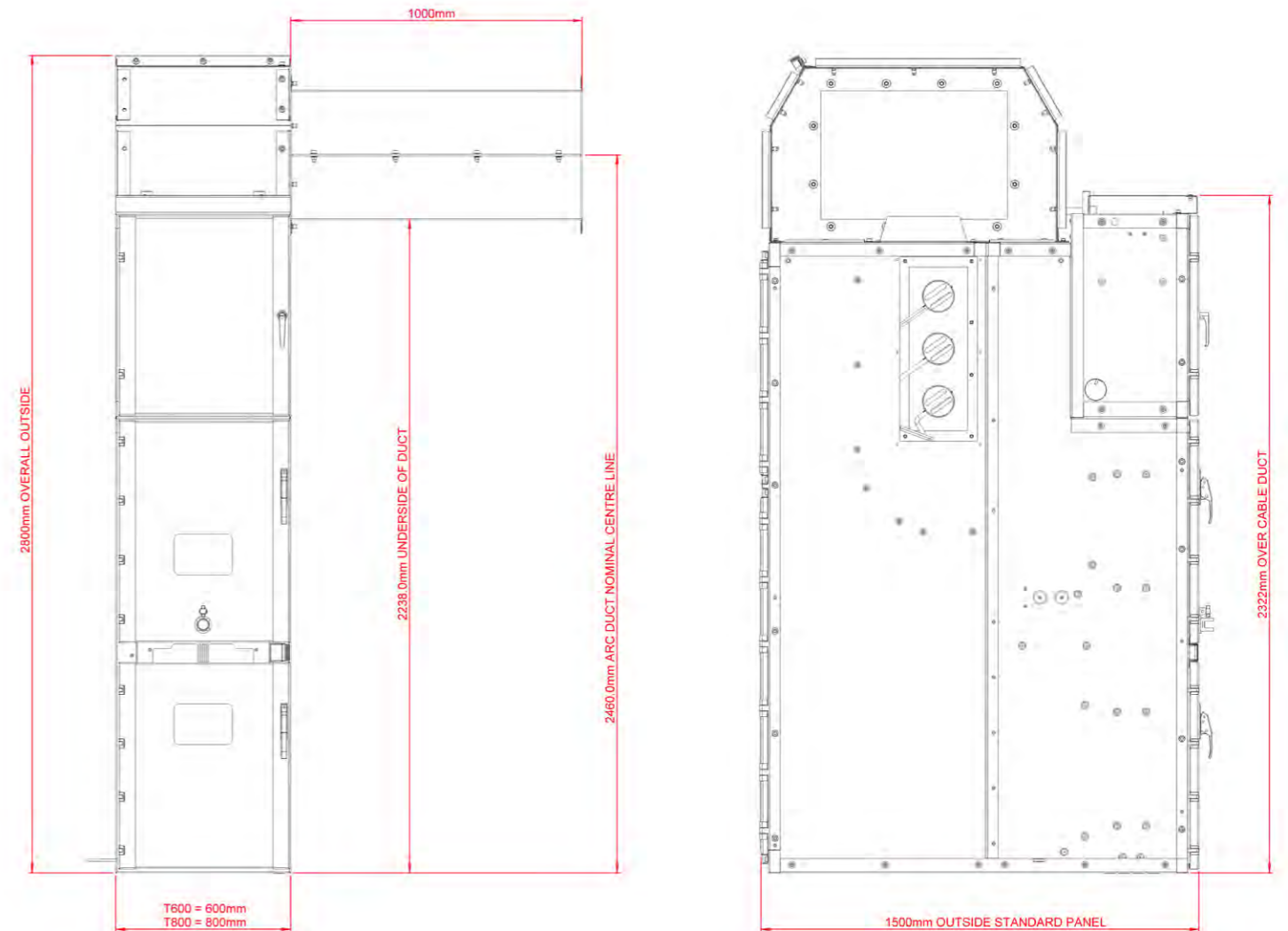
PANEL DIMENSIONS

Assure Switchgear is AVAILABLE in two panel widths:

T600: 600mm nominal width, 1,250A.

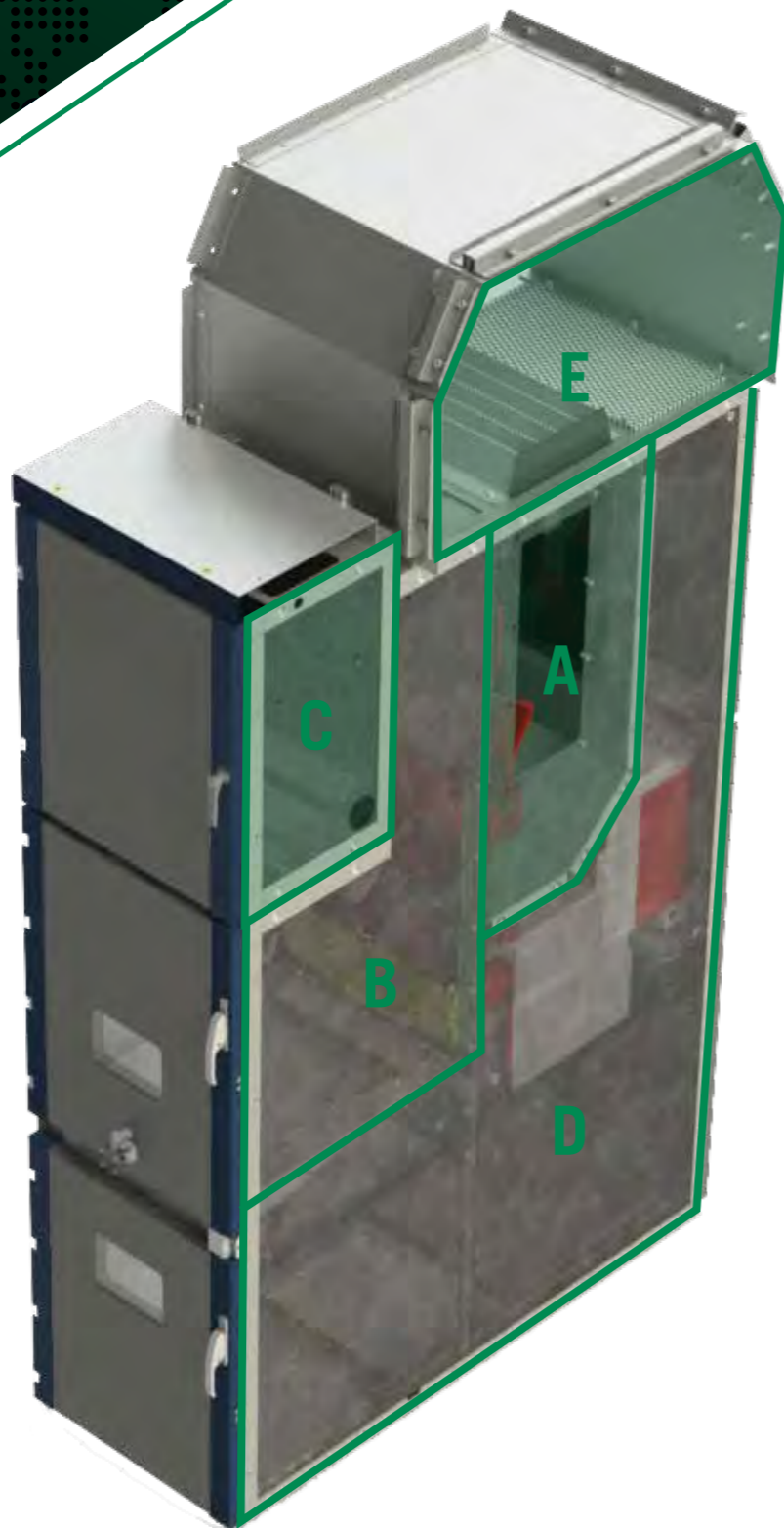
T800: 800mm nominal width. 2,000A.

All standard panels are 1,500mm deep front to back



ASSURE PANEL

- A Busbar Compartment
- B Circuit Breaker Compartment
- C Control Cubicle
- D Voltage Transformer Compartment / Cable Compartment
- E Arc Plenum



MOTORISED EARTH SWITCH

A motorised operating earthing switch mechanism can be fitted to both the T600 and the T800 panels, the mechanism is operated by an earth switch controller.

HMVP

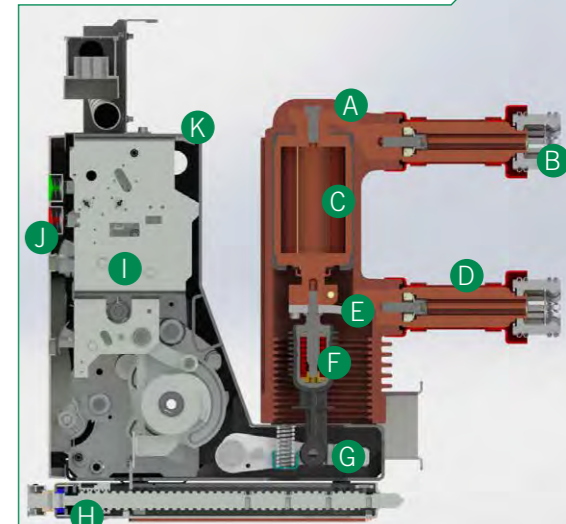
HMVP 1250 AND 2000A VACUUM CIRCUIT BREAKER

The HMVP circuit breaker is designed for any medium voltage application requiring safe reliable, low maintenance operation, with long service life.

The HMVP circuit breaker is for indoor application with the Assure range of panels.

The HMVP circuit breaker has the following characteristics:

- A spiral spring driving mechanism which is compact, highly modular, stable, reliable and with a long operating life.
- The intelligent multi-function circuit breaker control unit “iEC” which has very comprehensive protection functions including overvoltage, anti-pumping and controlled power supply time, which can highly improve the overall operation reliability of the circuit breaker and operating life of the secondary control auxiliaries.
- Functional modular design concept. Each functional module is independent from each other, and is easy to connect, assemble and convenient to maintain.
- Secondary control accessories can be installed in one step; due to the smart design, wrong electrical connection to the secondary control accessories can be prevented.
- Is withdrawable by use of a racking handle and can be fully removed from the panel for maintenance.
- Built-in manual spring charging handle for maintained circuit breaker operation under all conditions.
- Can provide up to a maximum of 10 NO and 10 NC auxiliary contacts for control, interlocking and annunciation functions.
- Features full electronic operation as well as manual trip and close buttons.
- Complies with IEC and the related industrial standards.
- Tested to 10 000 operations for M2.
- Vacuum interrupter is embedded pole design and uses Eaton vacuum interrupters. The vacuum interrupter and conductive parts of the primary circuit are cast as a whole by epoxy resin making the unit maintenance free over the entire service life of the product.



1250A Circuit Breaker

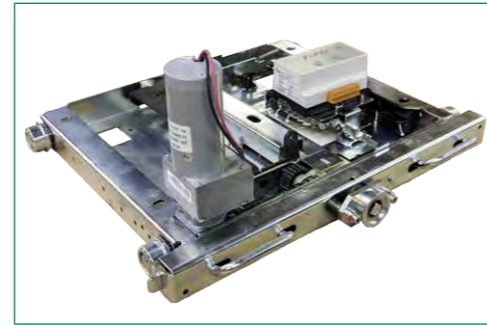
- A Embedded Pole Unit
- B Isolating Contacts
- C Vacuum Interrupter
- D Pole Assembly
- E Moving Flexible Contact
- F VI Drive Rod Assembly
- G Mechanism Operating Shaft
- H Racking Trolley Assembly
- I Operating Mechanism
- J Mechanism Cover
- K Mechanism Housing

MOTORISED RACKING

The process of racking a circuit breaker into and out of the connected position is one of the most frequent exercises that expose an operator to risk.

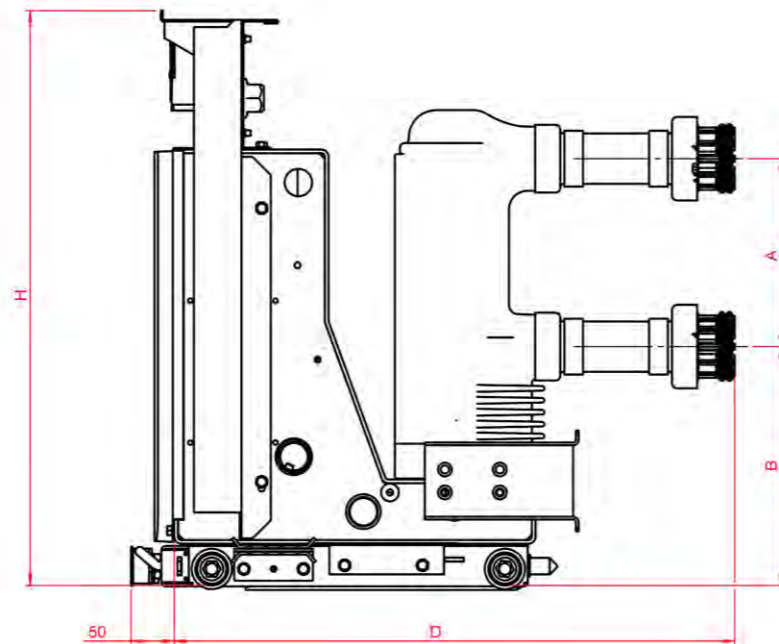
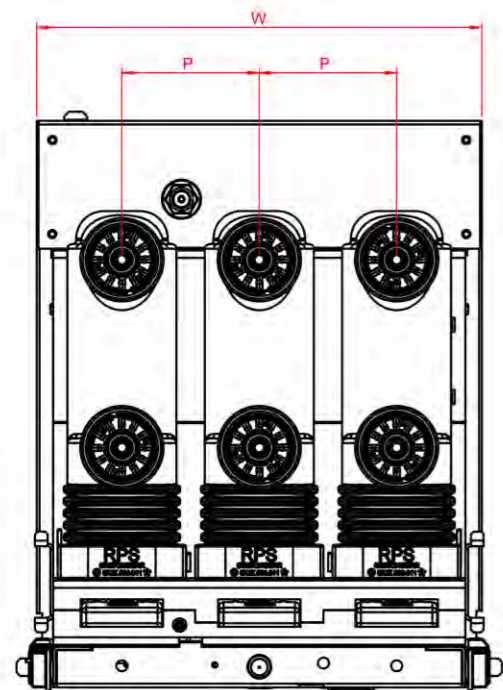
Motorised racking of the circuit breaker provides a safer operating environment for personnel through the proven method of adding distance between the operator and the risk at the switchgear site.

Bringing operation of circuit breakers to a new level of safety by adding motorised racking.



HMVP CIRCUIT BREAKER DIMENSIONS

	W	P	H	D	B	A
1250A	486	150	628	614	260.5	205
2000A	636	210	698	594	260.5	310



ASSURE TECHNICAL SPECIFICATION

PANEL RATINGS	T600	T800
Rated Normal Voltage	17.5 kV	
Short Time Withstand Voltage	38 kV	
Lightning Impulse Withstand Voltage – BIL	95 kV	
Frequency	50 Hz	
Busbars Normal Current	2000 A	
Bus T-off Current	1250 A	2000 A
Short Circuit Withstand Current	31.5 kA, 3 s	
Ingress protection rating	IP4X	

VCB RATINGS	1250 A	2000 A
Voltage	17.5 kV	
Short Time Withstand Voltage	38 kV	
Lightning Impulse Withstand Voltage – BIL	95 kV	
Frequency	50 Hz	
Rated normal current	1250 A	2000 A
Short Time Withstand Current	31.5 kA, 3 s	
Peak Withstand Current	80 kA	
Short Circuit Breaking Current	31.5 kA	
Percentage DC Component	40 %	
Isolated Cable Switching Current	31 A	
Mechanical Life	M2	
Operating Sequence	0-0.3s-CO-15sec-CO	

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