



## Dynamic DCB Tester



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The dynamic high-current DCB tester from MicroContact is a testing application for the power electronics. Used for testing high-current DCB's, it reliably meets the requirements for quality assurance and a zero-defect strategy in production.

The system is a compact and flexible test cell for testing DCB transported in carriers. Via a belt system, the carriers are fed into the tester. Above several heating plates, the DCB is heated stepwise to the dynamic test temperature. After the dynamic test, the DCB is cooled down stepwise to  $<40^{\circ}\text{C}$ .

The performance testing technology from VX Instruments is designed and built according to customer-specific testing specifications. The fundamental tests on a converter assembly include simple measurement tasks and performance tests on the main circuit of the DC source through the three-phase bridge to the AC circuit.

## System description:

- Dynamic test cell
- Contacting from the top
- Test temperature  $20^{\circ}\text{C}$  to  $180^{\circ}\text{C}$
- Fast change system for different DCB's
- Carrier dimension up to  $120\text{mm} \times 100\text{mm}$

## Dynamic test:

- Up to  $1'500\text{V}$ ,  $10'000\text{A}$ , pulse  $>0.5\mu\text{s}$
- Multipulse test
- Short circuit test
- UIS (unclamped inductive switching)
- CIS (clamped inductive switching)