### Testing Of Circuit Breaker

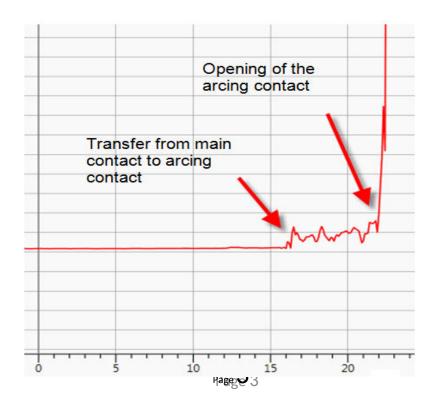
## 6. Dynamic Resistance Measurement (DRM)

- > Recording the contact resistance during breaker operation (resistance over time)
- > Combination of contact resistance, timing and travel measurements
- 1. Inject high current
- 2. Start recording A & V
- 3. Operate Circuit Breaker
- 4. Calculate Resistance

## 6. Dynamic Resistance Measurement (DRM)

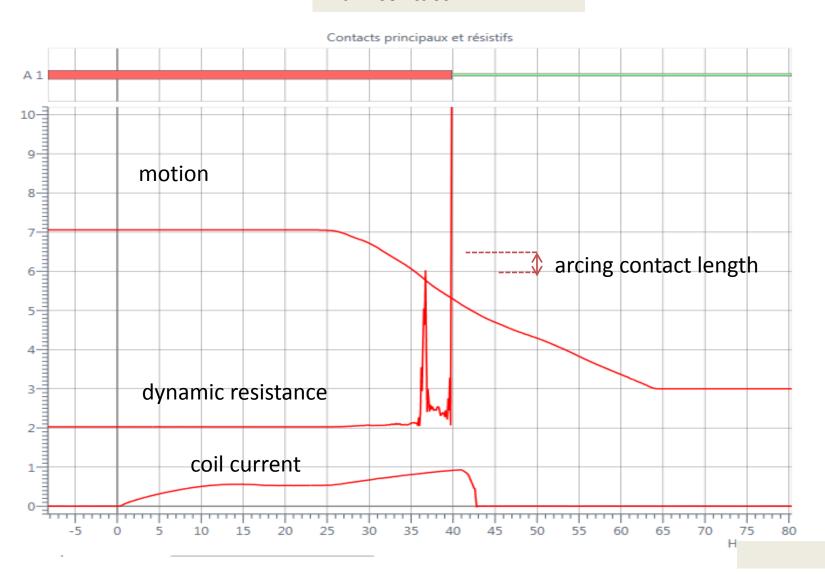
#### Use DRM to find out

- > Problems with contact fingers
- > Lubrication problems
- > The arcing contact length



## length

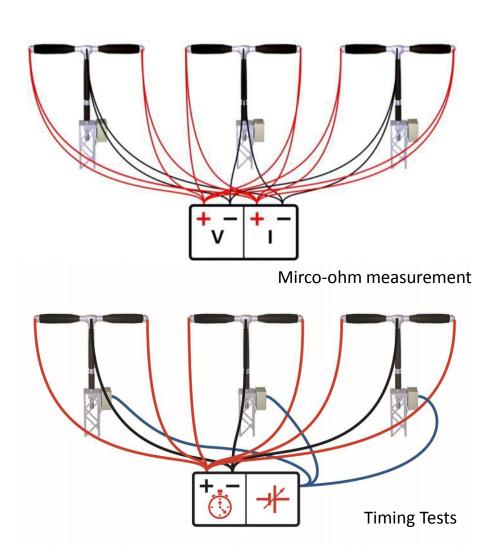
main contact



ms

## Conventional Setup for Circuit Breaker Testing

- > Rewiring between microohm measurement and timing tests
- > Lots of cables
- > Time-consuming and error-prone
- > Long test cables create inductive loops which catch interferences
- > External supply or station battery required



### CIBANO 500 – 3-in-1 Test System

- > Timing analyzer
- > Possible operations: O, C, CO, OC, O-CO, CO-CO, O-CO-CO
- > Motion measurement is possible in parrallel
- > Micro-ohm meter
- > Static AND dynamic contact resistance test
- > Powerful coil and motor stabilized supply
- > Coil/motor current analysis
- > Undervoltage condition test
- > Minimum pick-up test
- > Tests are possible without station battery



# CIBANO 500 – one system for all types of breakers

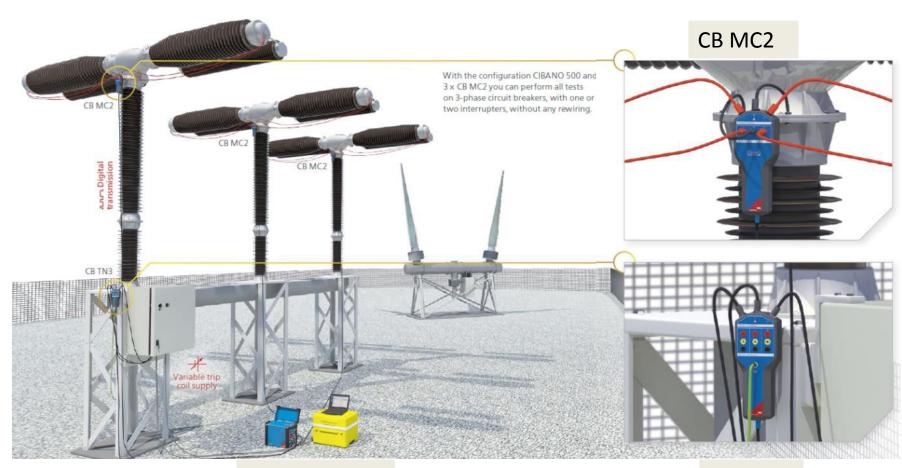
- > Medium-voltage circuit breakers
- > High-voltage circuit breakers (Live Tank)
- > High-voltage circuit breakers (Dead Tank)







### Unique connection concept



CIBANO 500 CB TN3