

# Iris Power EL CID Evolution



## THE WORLD'S ONLY PROVEN LOW-FLUX INSTRUMENT FOR EVALUATING STATOR CORES

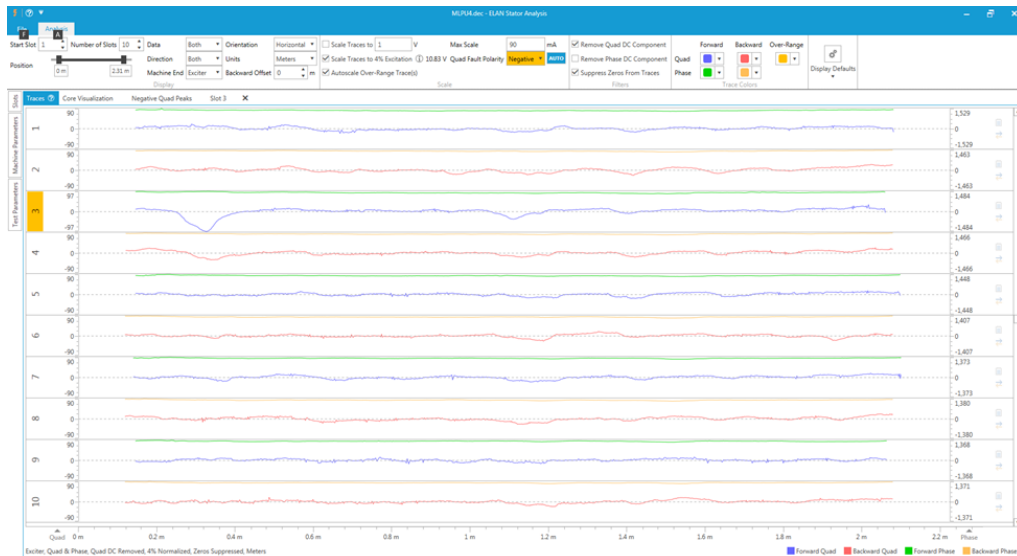
Electromagnetic Core Imperfection Detection (EL CID) testing is accepted world-wide for reliable and safe detection of stator core inter-laminar insulation faults.

Originally developed by the CEGB utility in England, the Iris Power EL CID Evolution is the third generation of this reliable, easy-to-use, stator core test.

The Iris Power EL CID Evolution test can be equally applied to turbine generators, hydrogenerators, and large motors.

## ELAN software V6

- Remote PC operation allowing one-man test
- Integrated test and analysis functions
- Comprehensive excitation calculation functions:
  - 1 Supporting turns-per-phase
  - 2 Winding computations
  - 3 Geometry of core and flux method
- Multiple window system for easy results comparisons and analysis
- Simple scan mode that allows time-based data recording
- Multiple tests on same slot for comparison (up to 26)
- Support for offset traces adjustment
- Large test display panel for distant viewing of key parameters
- Quad peak polarity selectable for fault validation respecting the test Phase polarity
- Streamlined set up process including using previous set ups
- Combine main traces and step-iron traces into one main plot
- Data export to multiple formats including MS Excel
- Generation of report in MS Word or PDF format for easy reporting
- Addition of notes to slot data allows annotation of analysis
- Software is available in multiple languages
- Integrated user manual for support
- Supports latest Windows Operating System, Windows 10



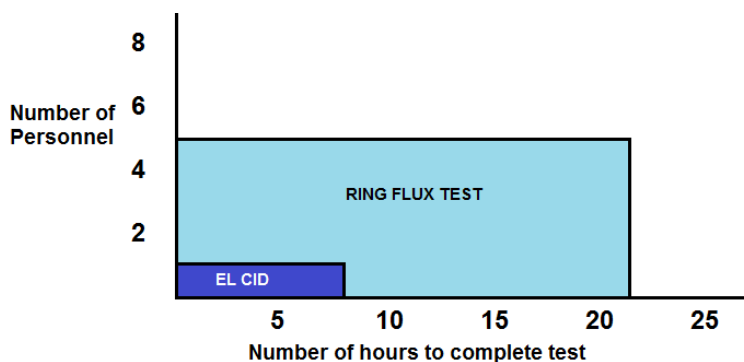
Test traces display of either or both Quad and Phase on all traces.

### 3D core visualization

## EL CID TESTING VS RING FLUX TESTING

The only alternative to the Iris Power EL CID Evolution test is the Ring Flux (full flux) Test. The Ring Flux test requires large single line power supplies, considerable manpower, and expensive infrared viewing cameras. The EL CID test has the following advantages compared to the Ring Flux test:

- EL CID test provides rapid testing of the machine, often less than one work shift for turbogenerators and motors. The Ring Flux test typically takes 3 work shifts.
- Only one technician is needed to perform the EL CID test.
- Typical labor is reduced from 150 to 200 man-hours for a major turbogenerator Ring Flux test to just 8 to 10 man hours for EL CID test.
- Rapid setup to retest after any repair ensures quick turnaround.
- Minimize intrusive repairs by instantly verifying the results.
- Safe for core and operator, unlike Ring Flux test which is potentially damaging to the uncooled core.



## KIT CONTENTS

- Iris Power EL CID Evolution
- Chattock Sensors (10, 20, 25 and 30 cm)
- Reference Sensor
- Magnetic Manual Trolley
- Step Iron Trolley
- Calibration Unit
- Switched Turbo Excitation System (30 m, 6 turns)
- Volt Meter and Clamp-on Ammeter
- Handbook Kit is delivered in two Wheeled Transit Cases

## GET IN TOUCH

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