



RIV™

ADWEL INTERNATIONAL LTD.

ROBOTIC INSPECTION VEHICLE

Low Profile Robotic System for Stator Core Testing and Inspection

Model RIV-702

- *Fits into the air-gap for rotor-in-place testing*
- *Carries multiple modules: EL CID, Wedge Tightness Detector, Camera*
- *Tests faster with reduced human fatigue and stress*
- *Enables one person testing*
- *Follows a straight line along the stator teeth*
- *Scans the stator surface with optional ADWEL Camera*



(Shown with optional Camera System)

Description

The ADWEL Robotic Inspection Vehicle enables remote scanning of the stator core of large motors and generators with or without the rotor in place. Controlled from outside the stator bore, the ADWEL RIV provides easier and more efficient testing of stator lamination insulation when used with ADWEL's EL CID. The RIV can also carry other lightweight transducers for stator inspection such

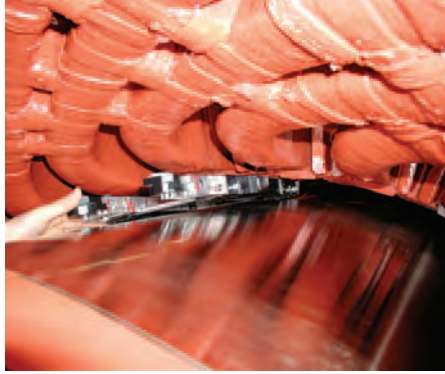
as slot wedge tightness probes (ADWEL WTD) and allows for visual inspection with ADWEL's CCTV Camera System.

The RIV sticks to the stator core by magnets and advances or reverses at various speeds. A guidance system detects the edges of the stator teeth allowing the RIV to automatically follow a slot.

ROBOTIC INSPECTION VEHICLE

Features

- Auto-stop setting ensures RIV stops at preset distance
- Control unit outside stator core connects via single multi-core cable for power and signals
- Can be configured for various slot widths
- Curvature adjustment for various core diameters
- Low height (30mm) allows rotor-in-place testing
- Magnetically self-supporting on steel surface
- Automatically detects the edges of the stator teeth to follow a straight line
- Side plates give additional guidance when wedges are recessed or when wedges and coils are removed
- Distance measurement via encoder wheel



Specifications

Height	30mm (1 1/4") (excluding payload)
Overall Length	350mm with Chattock Holders
Overall Width	Adjustable from 18 - 30cm (7" - 11 3/4")
Maximum Payload	2 kg in vertical climb mode
Slot Pitch	65mm - 210mm (2 1/2" - 8 1/4")
Guidance	Automatic using magnetic sensors
Distance Measurement	Optical encoder wheel 0 - 9.99m
Tractor Speeds	Nominally 2, 4 or 6 m/min.
Instrument Weight	10.5 kg (23 lb.)
Controls	Speed, direction and auto-stop distance
Outputs	X Axis pulses for EL CID
Power Requirement	85-264 V, 50/60 Hz (<50VA) CAT II
Operating Temperature	0° to +50°C (+32° to +122°F)
Case Dimension	55 x 72 x 30cm (21 3/4" x 28 1/2" x 12")
Weight	29 kg (64 lb.)
Standards	EN61010-1, EN61326, CE Marked

*Specifications are subject to change without notice.

Represented by:

Model RIV Type 702

Kit Contents

- Signal Processor Unit
- Tractor Vehicle
- Vehicle Control Cable
- Output Lead
- Mains Lead
- Spare Fuses
- Adjustment Tools
- Operations Manual
- Rugged Shipping Container
- Chattock Holders for Both Ends
- Switching Box for Dual Chattocks

Optional Accessories

- Low Profile Chattocks
- Camera System Type 752
- Miniature WTD Probe

Other ADWEL Testing Products

- EL CID, PDA Premium and COPA, STB-3, Couplers, Corona Probe, Wedge Tightness Detector and DC Ramp Tester



ISO 9001: 2000 CERTIFIED

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