

## Model 1081

## 10 KVA CORE LOSS TESTER

The Model 1081 Core Loss Tester is a fully automated high current, low voltage test center designed specifically for testing rotors, stators, and armatures up to 500 HP or 10kVA. The Model 1081 simulates the real-world operating conditions and calculates core loss based on actual device characteristics using our industry-leading MP 7™ software. The Model 1081 provides documentation of the rebuild and manufacturing processes by automatically generating customized reports detailing core performance.

The Model 1081 Core Loss Tester verifies the effectiveness of the repair and production processes therefore protecting against premature motor failures. This verification assures greater reliability and efficiency while reducing warranty costs and improving customer satisfaction.

The LEXSECO Model 1081 Core Loss Tester provides a quick, efficient, and highly accurate method for determining losses found in the core of stators, rotors, and armatures. Core loss is a major cause of inefficiency in electric motors, second only to copper winding loss. The LEXSECO Core Loss Tester can determine if a motor is capable of operating at rated efficiency after rebuilding or at time of manufacture and provides the highest accuracy available today.

The LEXSECO automated Core Loss Testers assure that electric motor products are reliable and energy efficient. This assurance shows that you are protecting your customers' investment by reducing downtime and energy consumption and reducing your costs associated with warranty repairs.



### Key Features

- Fully automated test process
- Flux Measurement accuracy of  $\pm 0.1\%$  per range
- MP 7™ software
- Measurement system specifically designed for core loss testing
- NIST compliant & certified calibration process
- Winding verification
- Complete repair documentation center
- 208VAC-575 VAC, 50 and 60 Hz models
- Thermal overload protection
- Rugged steel cabinet with locking lid
- Locking casters
- DC Armature & AC Rotor Testing Package available



## Model 1081 10 KVA CORE LOSS TESTER

*LEXSECO's Software is the Standard*

Exceptionally versatile and user friendly, the industry leading MP 7™ differentiates between NEMA, pre-NEMA, U, T and IEC frames and standard and high efficiencies and applies the appropriate specification limits to the test. Users may also build their own databases with special parameters for the particular equipment they service or manufacture. Also, MP 7™ contains a Winding Verification program and an array of customizable mechanical and electrical testing fields that enables our Core Loss Tester to be a powerful repair documentation center.

LEXSECO developed the first standardized core loss parameters representing the appropriate average of the existing data from motors found in the marketplace. LEXSECO soon realized that acceptable losses varied with core configuration. Separate parameters need to be determined for each frame and efficiency type in order to achieve the greatest accuracy. This discovery led to the development of the MP 7™ software.

MODEL 1081 TECHNICAL SPECIFICATIONS	
Test Capacity*	500 HP maximum
* varies w/ impedance	10 KVA maximum
Input	208-240VAC / 60A
	400-575VAC / 30A
Dimensions W x D x H	24" x 39" x 48" (69" with lid open) 610mm x 991mm x 1219mm (1752mm with lid open)
Weight	715lb (325kg)

PART NUMBERS	
L30010	Model 1081 Core Loss Tester, 208-575VAC, 50/60Hz, Single phase
L30010-0	Model 1081 Core Loss Tester, 460VAC, 30A, 60Hz
L30010-1	Model 1081 Core Loss Tester, 575VAC, 30A, 60Hz
L30010-2	Model 1081 Core Loss Tester, 240VAC, 60A, 60Hz
L30010-3	Model 1081 Core Loss Tester, 400VAC, 30A, 50Hz
L30010-4	Model 1081 Core Loss Tester, 230VAC, 60A, 50Hz
L30010-5	Model 1081 Core Loss Tester, 208VAC, 60A, 60 Hz
	Please request a quote for voltages not listed.
L00500	DC Armature & AC Rotor Testing Package (includes additional cable, shaft clamps & fittings)
L10002	Computer & Printer kit with factory installed MP 7™ software and meter data retrieval system

USA Headquarters: IRD LLC  
 "Setting the Standard in Industrial Research and Development"  
   
 Telephone: (1) 502 366 0916 Fax: (1) 502 238 1001  
 4740 Allmond Ave. Louisville, KY 40209, USA  
 Email: [sales@lexseco.com](mailto:sales@lexseco.com)

Specifications are subject to change without prior notice.

Copyright © 2014 IRD® All rights reserved.

Publication No: E51281

[www.lexseco.com](http://www.lexseco.com)