



## *Lexseco vs. Imitation*

	<u>LEXSECO</u>	<u>Imitation</u>
• Proven product life of Core Loss Testers exceeding 25 Years.	YES	NO
• Safe and reliable current limiting power source.	YES	NO
• Integrated meter package custom designed for core loss testing with certified high accuracy under NIST standards (accuracy stated in terms of reading versus full scale).	YES	NO
• Meter package with it's own display panel allowing the tester to be operated with or without a computer.	YES	NO
• Calibration is easily addressed with a flux meter exchange program with an NIST traceable Certificate of Compliance (provides for virtually no down time when calibration is required).	YES	NO
• Unparalleled Service & Support by Application engineers with decades of core testing and motor repair experience.	YES	NO
• Mutiparameter software.	YES	NO
• Uses Industry Accepted Formulas which are consistent with EASA & IEEE publications in the calculations of Core Volume and Core Loss.	YES	NO
• Equipment upgrade programs.	YES	NO
• Built in Squirrel Cage Rotor Test and Report.	YES	NO
• Built in Winding Verification program with reporting system.	YES	NO
• Users Group with newsletters, testing tips, Regular software upgrades.	YES	NO
• Reports can be generated in electronic or PDF format for emailing and integration.	YES	NO
• Regular statistical analysis of the world's largest core loss test database, with parameter revisions to insure continued accuracy.	YES	NO
• Lockable steel lid.	YES	NO



## *Lexseco's Advantages*

1. In buying Lexseco, a client makes a long-term investment that pays off for years to come. One prime way this investment pays off is through Lexseco's efforts to advance core loss testing technology without making existing equipment obsolete. During the some 25 years since Lexseco began development of the first CLT, we have made major improvements in most every aspect of the equipment. Metering technology, for example, has improved significantly over the years. And though the VRTs, the main power sources, along with the loose controls have been refined since the early 1080 series CLT, the key components continue to function well and be quite serviceable. It is part of our philosophy of insuring our clients are as happy with their Lexseco CLT 10 years after the purchase as they were the day it arrived. Consequently, Lexseco has developed an equipment upgrade package and a software maintenance program.
2. Lexseco uses a sophisticated, patented, Variable Reactance Transformer (VRT) as the CLT power source. The VRT is inherently current limiting and will not experience an over current failure. After 25 years of supplying CLTs around the world, none of Lexseco's VRTs have failed. The imitator uses an autotransformer, which, by definition, does not employ the current limit feature of the VRT.
3. Lexseco's proprietary, integrated metering system was custom designed for core loss testing. It is an auto-ranging system, which measures actual lines of flux within the core at a very high sampling rate. It is certified under the standards of the National Institute of Standards Technology (NIST) to be of the highest accuracy. Our research has shown that standard meters provide unacceptable inaccuracies at the extreme ends of the reading scale.
4. The Flux Metering System is a self-enclosed modular component, which provides for a quick removal and installation process. Like most test equipment manufactures, we recommend that our equipment be calibrated annually. We offer a flux meter exchange program to address calibration requirements for maintaining the high testing accuracy for your Lexseco Core Loss Tester. The program provides an inexpensive & simple method of keeping your CLT calibrated with almost zero down time.
5. Lexseco's Multiparameter test software is unique. Only with Lexseco will you have software designed to test properly the wide array of different frame and efficiency types. Our statistical analysis reveals, not surprisingly, that different frame and efficiency types carry different acceptable core loss ranges. Lexseco's software reflects these different parameters. The imitator uses one set of averaged numbers for all motor types. By failing to differentiate between the ever-broadening range of motor types, the imitator significantly restricted the long-term usefulness of their equipment in a market where client awareness of efficiency and the importance of proper testing is on the rise. Plus, only Lexseco offers software with a comprehensive test report



## INDUSTRIAL RESEARCH AND DEVELOPMENT

including electrical and mechanical testing fields, vibration readings and a winding verification program, which can be printed on your shop letterhead.

6. There is no comparison between Lexseco's test reports and those of Lexseco's imitator. The comprehensive report generated by Lexseco's software includes extremely helpful fields reflecting customer and nameplate data, measurement inputs, meter readings, full core loss test results and recommendations, ground test, megger test, hipot, surge test, no load test, a series of mechanical tests, vibration readings, physical condition checks, and space for comments. A shorter, core loss test only, report may also be generated. Lexseco reports may be printed on preprinted letterhead or with a letterhead generated by the software.
7. Only Lexseco provides its clients a software Users Group, enabling Lexseco purchasers to receive software upgrades regularly, keeping them current with changing motor technology. With substantially more testers in use around the world than any other manufacturer, Lexseco has become the world's foremost clearinghouse of core loss testing data, conducting constant statistical analysis of thousands of core loss tests. Our test parameters are refined regularly to reflect this ongoing research. Moreover, Lexseco users receive the Users Group Newsletter, keeping them informed of new developments and test information.
8. Our upgrade program evidences the fact that buying a Lexseco Core Loss Tester is a wise investment. The Lexseco Tester are built to last, and rather than simply obsoleting otherwise good machines due to advances in software and metering technology, Lexseco created an upgrade package to bring earlier generations of the equipment up to the latest standards.
9. Lexseco's hardware, down to the cabinet, is the very best quality. The imitators did not go to the added expense of including a heavy gauge, lockable, lid to protect the computer, printer, rheostat and meter face.
10. One of the best testaments to our quality is the frequency with which customers buy multiple Lexseco CLTs over the years as they grow. Many of our clients are repeat buyers. The United States Navy has standardized on Lexseco CLTs for its dozens of shore and sea based maintenance facilities. And major motor manufacturers, such as Toshiba, are equipping plants with Lexseco CLTs to use as quality control devices.