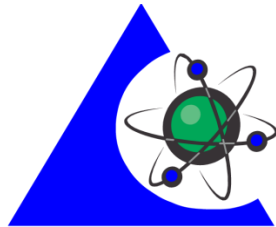


WARRANTY

The SE400 Sharp Edge Tester has a (1) year limited warranty against manufacturer's defects from date of purchase. It is a factory sealed unit. Opening or adjusting in any way will void this warranty.



PJLA
Calibration

Accreditation #75821
ISO/IEC 17025:2017

Accredited Calibration Services are available.

Please send to:
Ergonomics Calibrations
405 Caredean Drive
Horsham, PA 19044

50 Replacement Tape Caps - Model: CAP50

For pricing and order information contact:

Office@RamPrecision.net

215-674-0664

800-862-0102

0829 Rev. 007

SE400 USER MANUAL

SHARP EDGE TESTER



 **Ergonomics™**

A  **PRECISION**

Company

Helping Customers Meet Worldwide Standards Since 1985

General



The Sharp Edge Tester, Model SE400, is ready to use upon receipt. No adjustments are necessary. It has been developed in accordance with established product safety standards. Its design has been reviewed by Underwriters Laboratories, Inc.

The purpose of using the Sharp Edge Tester is to determine if a corner or edge of an object or assembly is sharp as defined in UL 1439, toy safety and other product safety standards.

Care and Maintenance

The apparatus is calibrated to Standard ANSI/UL 1439 unless otherwise indicated on the calibration certificate. The Sharp Edge Tester needs little care. It should be stored and used at room temperature. Annual calibration is recommended. Consult the applicable product safety standard for the recommended calibration force and your quality system for the suggested frequency of calibration.



Installing Tape Caps

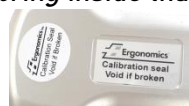


Replacement caps are available in a box of 50, Model CAP50. Each cap is an assembly of three tapes as defined in ANSI/UL1439. The outer tape is a thin almost transparent layer. The middle layer is a special white foam tape and the inner layer is a black foam

tape. The layers are designed to indicate sharpness. To install the cap, push the cap on the mandrel until it rests on the bottom of the cap.



WARNING! Do not try to open the tester. There is a spring inside that may cause injury. There are no user serviceable parts inside and it should not be opened. Opening the tester voids the calibration and warranty.



If damaged, contact Ergonomics for assistance.

Suggested Procedures

It is important to refer to the applicable product standard for specific test procedures required for your application. This will ensure accurate results are generated.

The procedures mentioned in this manual are general in nature. The following instruction is a summary of procedures appearing in most product safety standards. Since sharpness of a surface or edge may be dependent on the application of the product, other test procedures may have to be referenced or developed.

Tests should be performed at room temperatures. The foam side of the tape head is positioned on the edge of the surface to be tested as indicated in the following figure. In order to determine sharpness, place the tape head on the object to be tested. Hold the tester so the tester arm adjusts to the center position. Although the force of the testing arm does not appreciably change, it is this centered position that produces the calibrated force.



Maintain the proper pressure while moving side to side along the surface to be tested. Most standards suggest that 100 mm (about 4 inches) increments be investigated. If a 100 mm sample is not available, the same surface can be used repeatedly until the proper length is investigated. 100 mm in total length is not to be exceeded for a normal test. *Consult the applicable standards for the exact requirement.*

The tape head is then carefully removed from the test surface and inspected. If the outer layers of the tape are cut and the innermost black foam layer is visible, the surface is generally judged to be sharp. Other interpretations are possible depending on the product standard.

