



## ICI / Mace Snag Tester

**Standards:** [ASTM D3939/D3939M-2013 \(2017\)](#), [JIS L1058](#), [GB/T11047-2008](#)



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### Description

The Fabric Textile [4-position ICI / Mace Snag Tester](#) from NextGen was created for manufacturers and quality control professionals, designed to quickly assess the likelihood of fabric snagging under normal wear conditions. Utilizing a precise and methodical approach, this tester simulates real-world scenarios where yarns are pulled from the fabric, providing an accurate measure of a fabric's durability.

YouTube Video: <https://youtu.be/M61ADIYfAjE>

### ICI / Mace Snag Tester Features

- **Realistic Snag Simulation:** Replicates the unpredictable snagging that fabrics might experience during regular use, ensuring a thorough evaluation.
- **Accurate Assessment:** Through controlled rotation and hammer action, the tester creates snags on the fabric, allowing for a detailed comparison against standard reference fabrics.
- **Comprehensive Rating System:** Provides a snagging rating that helps manufacturers understand the fabric's performance, aiding in the selection of materials for high-traffic applications such as clothing and upholstery.
- **User-Friendly Operation:** Designed for ease of use, the Mace Snag Tester allows for quick sample preparation and consistent results.

### ICI / Mace Snag Tester Working Principle

The Mace Snag Tester is designed to simulate the snagging that fabrics might experience during regular use. Here's a simplified explanation of how it works:

1. **Sample Preparation:** A piece of fabric is cut to a specific size and placed on a rotating drum inside the tester.
2. **Hammer Placement:** A hammer, which is attached to the machine by a chain, is placed so that it rests on the surface of the fabric sample.



3. **Drum Rotation:** The drum starts rotating at a constant speed. As it turns, the hammer is dragged along the fabric, but because it's suspended by a chain, it flips and bounces around unpredictably.
4. **Snagging Action:** As the hammer moves across the fabric, it catches on the fabric's fibers, creating snags or pulls (i.e., it pulls threads out of the fabric).
5. **Test Duration:** The drum continues to rotate for a set number of cycles, allowing the hammer to create snags across the entire surface of the fabric sample.
6. **Evaluation:** Once the test is complete, the fabric is removed, and the number and severity of the snags are assessed. This is typically done by comparing the tested fabric to a set of standard reference fabrics that show different levels of snagging.
7. **Rating:** The fabric is then given a snagging rating based on how it compares to these standards, indicating how likely it is to snag during normal wear

## Technical Specifications

Model	4-position ICI / Mace Snag Tester
Number of positions	4
Rotary drum size	Diameter of 82mm (including outer rubber thickness of 3mm), width of 210mm
Rotation speed of the drum	60 ± 2r/min
Total weight of the nail	160+10g (including 11 equally spaced needles)
Needle	Exposed length 10mm, tip radius: R0.13mm
Fixed guide rod	Working width 125mm, diameter 10mm
Weight	243lbs / 110kg
Power	110V/60Hz or 220V/50Hz 1000 W

\* Request a [formal quotation](#) or send an e-mail to [sales@nextgentest.com](mailto:sales@nextgentest.com) for the most up-to-date pricing and applicable discounts and incentives.