



GLASSES IMPACT RESISTANCE TESTER

Glasses Impact Resistance Tester ToronPC™ GIRT evaluates the durability of glasses against impact. During testing, glasses are secured on a head mold or lens sample holder. A steel ball is dropped freely to simulate external force, assessing whether the glasses crack or detach, ensuring they meet safety standards for wearability.

APPLICATIONS

Standards

1. **EN 166** – Specifies requirements for personal eye protection, including optical quality, impact resistance, and protection against mechanical and optical hazards.
2. **EN 1836** – Defines performance requirements and test methods for sunglasses and sun glare filters used for general eye protection.
3. **ANSI Z87.1** – Establishes U.S. standards for occupational and educational eye and face protection, covering impact resistance, optical clarity, and coverage.
4. **ANSI Z80** – Specifies optical and performance standards for ophthalmic lenses, including prescription and protective lenses.
5. **CNS 15067** – A Taiwanese national standard defining safety and performance requirements for protective eyewear.

FEATURES

The instrument features an adjustable height, making it suitable for a variety of test requirements.

A built-in red laser pointer ensures precise targeting of the impact point, enhancing usability.

The head mold can be adjusted in all directions- front, back, left, and right allowing for straightforward and flexible operation.

TECHNICAL SPECIFICATIONS

Model	ToronPC™ GIRT
Impact Height	1270 mm
Steel Ball Diameter	Φ16mm; mass: 16g; Φ22mm; mass: 43g;
Dimensions	570 x 550 x 1800mm
Weight	40 kg



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