



GenFlex Sole – Whole Footwear Flexing Tester

Standards: [SATRA TM 92,](#) [ISO 24266 Method A,](#)
[HG/T 2871-2022 Method B](#)



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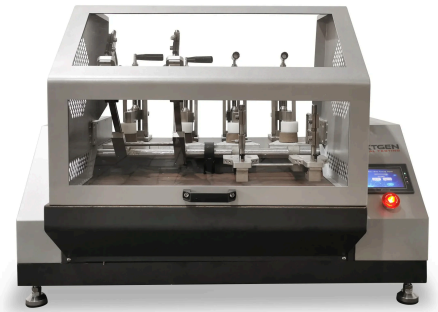
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Description

[GenFlex Sole](#) is a whole footwear flexing tester designed to evaluate the flex resistance of finished shoes under repeated bending conditions. It is used to assess whether cracking, sole failure, or other visible damage develops during cyclic flexing, making it a practical system for footwear quality control, durability verification, and comparative product testing. Built for sports shoes, casual shoes, and work footwear, the system uses controlled bending angles, adjustable speed settings, touchscreen operation, and dedicated heel and forefoot fixtures to deliver repeatable test conditions in a laboratory environment.

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Main Features

GenFlex Sole is built for labs and footwear manufacturers that need controlled whole-shoe flex testing with stable sample holding, repeatable motion, and straightforward day-to-day operation.

- **Whole-Shoe Flex Testing:** Designed to test finished footwear rather than isolated upper or sole materials, giving labs a more application-focused durability result.
- **Crack and Flex Resistance Evaluation:** Helps identify cracking or failure in the shoe or sole during repeated reciprocating flexing.
- **Adjustable Bending Angle:** Supports a bending angle range of 0° to 90°, allowing the test setup to be matched to the intended method or product type.
- **Variable Speed Control:** Provides adjustable speed ranges for different angle zones to support more controlled flex testing across different footwear constructions.
- **Multiple Sample Capacity Options:** Available in 2-sample and 4-sample configurations to suit different throughput requirements.
- **Touchscreen Control:** Uses touchscreen operation for test setup, timing, and cycle control.
- **Protective Cover:** Built with a protective enclosure to support safer operation and lower noise during testing.
- **Purpose-Built Heel and Forefoot Fixtures:** Includes purpose-built fixtures that help hold the shoe securely in position throughout repeated flexing cycles for more consistent test setup and evaluation.
- **Automatic Stop After Test Completion:** The system can be set to stop automatically when the programmed run is complete.



Applications

GenFlex Sole is intended for footwear testing programs where complete shoes must be evaluated under repeated flexing rather than relying only on upper-material or sole-only tests. It is especially relevant when labs need to compare finished product durability, verify manufacturing consistency, or investigate cracking behavior under cyclic bending.

- **Sports Footwear:** Flex resistance testing for finished athletic shoes.
- **Casual Footwear:** Repeated bending evaluation for everyday shoe constructions.
- **Work and Industrial Footwear:** Durability testing for products expected to withstand repeated flexing in service.
- **Finished Shoe Quality Control:** Useful for lot comparison, process validation, and release testing.
- **Product Development and Benchmarking:** Helps compare design changes, materials, and construction methods in full-shoe testing programs.

Who This System Is For

GenFlex Sole is well suited for organizations that need repeatable whole-shoe flex testing as part of footwear durability evaluation.

- Footwear manufacturers
- Footwear quality control laboratories
- Product development and wear-test teams
- Materials and construction validation labs
- Third-party footwear testing laboratories
- Brands and sourcing teams reviewing finished shoe durability



Technical Specifications

For labs planning installation or comparing whole-shoe flex testers, the specifications below summarize the main configuration options, operating ranges, and physical requirements of the system.

Model	GenFlex Sole A	GenFlex Sole B
Sample Capacity	4 samples simultaneously	2 samples simultaneously
Control Method	Touchscreen control	
Bending Angle	0° to 90° adjustable	
Test Speed	0° to 50°: adjustable speed range 60 to 230 rpm; 50° to 90°: adjustable speed range 60 to 140 rpm	
Counter	0 to 99,999,99 (7 digits)	
Power	1-phase AC 220 V, 50/60 Hz, 3 A	
Dimensions	37.4 x 29.9 x 27.6 in. (95 x 76 x 70 cm)	22.8 x 29.1 x 28.3 in. (58 x 74 x 72 cm)
Weight	491.6 lb (223 kg)	Approx. 330.7 lb (about 150 kg)

Standards

GenFlex Sole supports whole-footwear flex testing methods used for finished shoe durability evaluation. The primary supported standards include:

- SATRA TM92
- ISO 24266 Method A
- HG/T 2871-2022 Method B



Standard Accessories

GenFlex Sole is supplied with the core accessories required for standard setup and routine footwear flex testing.

- **Heel Clamp:** 1 set
- **Plastic Pad:** 1 set
- **Spanner:** 1 set
- **Power Line:** 1 pc

Optional Accessories

Optional accessories are available for labs that need additional configuration support for specific testing methods.

- **HG/T 2871 Press Block:** 3 sizes per set, 1 set per working position

Need to Test Finished Footwear Under Repeated Flexing Conditions?

If your team is evaluating full-shoe durability, crack formation, or flex resistance in sports, casual, or industrial footwear, GenFlex Sole can be configured to match your sample throughput and testing method requirements. Share your footwear type, target standards, and lab workflow needs with NextGen Material Testing, and our team will help you review the right setup and prepare a quote for your application.

[GET A QUOTE](#)