

### Professional

This instrument is designed based on the ISO 14616 international standard. It is available for precisely quantitative determination of shrinking force, contracting force and shrinkage ratio for heatshrinkable plastic films.

- 3 groups of distinct or identical specimens can be tested at one operation
- Shrinkage parameters can be accurately obtained by high precision load cell and displacement transducer
- The system displays the real-time value of shrinking force, contracting force and shrinkage ratio
- Intelligent reminder for sensor calibration guarantees a safe test environment
- Viewing and printing of historical data are available in this instrument



### High-end

FST-02 system utilizes Labthink’s latest embedded computer control system that provides a better performance than traditional single chip system.

- Embedded computer control system provides safer and more reliable data management as well as test operation
- The system can be easily operated by a standard monitor, a mouse and a keyboard, without requiring a PC
- The system is equipped with four USB ports and dual Internet ports for convenient data transfer

### Test Principle

Specimens connected to load cells or displacement transducers are rapidly brought up to the shrinkage temperature, then cooled in the open air to a specified temperature. During this process, the system records the real-time temperature, shrinking force, contracting force and shrinkage ratio and conducts analysis for test results.

This test instrument conforms to the following standards: ISO-14616-1997, DIN 53369-1976

### Applications

<b>Basic Applications</b>	Shrinking Force and Contracting Force	Test the shrinking or contracting force of heat-shrinkable films at specified test conditions
	Shrinkage Ratio	Test the shrinkage ratio of heat-shrinkable films at specified test conditions

### Technical Specifications

Specifications	FST-02
Capacity Range	0.2 ~ 30 N (Standard) Customization Available
Accuracy	±0.2%
Displacement Range	0.125 ~ 70 mm
Accuracy	±0.125 mm
Temperature Range	Room temperature ~ 210°C
Accuracy	±0.5°C
Number of Specimens	1 ~ 3 groups
Specimen Size	130 mm x 15 mm (Standard)
Gas Supply	Dry Air (outside of supply scope)
Port Size	Φ6 mm PU Tubing
Instrument Dimension	735 mm (L) x 490 mm (W) x 391 mm (H)
Power Supply	AC 220V 50Hz
Net Weight	68 kg

## Configurations

<b>Standard Configurations</b>	Mainframe, Professional Software, Standard LCD Monitor, Keyboard, Mouse, Sampling Template (15mm) and Wireless Data Interface
<b>Optional Parts</b>	Printer (compatible with PCL3)

**Please Note:** Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at [www.labthink.com](http://www.labthink.com) for the latest updates. Labthink reserves the rights of final interpretation and revision.