

Professional Technology

- Windows menu interface and touch screen are convenient for the user to set test parameters quickly
- 2 test methods of A & B and automatic determination of testing status
- Electromagnetic suspension and automatic release of the falling dart reduce the errors caused by manual operation
- Pneumatic clamping, 2 starting modes of manual and pedal switch and built-in observation light are convenient to the user's operation
- Professional software supports multi-unit result display, graphic display of testing process and data export and printing
- Equipped with RS232 port and micro printer port which is convenient to the data transmission and PC connection
- Supports LystemTM Lab Data Sharing System for uniform and systematic data management



Before starting the test, choose test method, and estimate an initial mass and Δm . Start the test. If the first specimen fails, decrease the mass of the falling dart by Δm . If the first specimen is not a failure, increase the mass of the falling dart by Δm . Continue the test according to this rule. In brief, increase or decrease by Δm according to whether the former specimen is a failure or not. After 20 specimens, calculate the total number of failed specimens N. If N equals to 10, the test is over. If N is less than 10, add specimens and continue to test until N equals to 10. If N is greater than 10, add specimen and continue the test until the number of non-failure specimens reaches 10. Then the tester calculates the test results automatically according to specific formulas.

This instrument conforms to various national and international standards: ISO 7765-1-1988, ASTM D1709, JIS K7124-1, GB/T 9639.1-2008

Applications

	Impact resistance test of plastic films, sheets and composite films e.g. PE preservative films,	
Basic	wrapping films, PET sheets and other food packages and heavy packages	
Applications	Impact resistance test of aluminum foils and aluminum plastic composite films	
	Impact resistance test of paper and paper board	
	Test the resistance of the specimen against the falling ball. Mount the specimen on specific	
	clamp for falling ball impact test and select falling ball of certain weight for the impact test.	
Extended	Check the status of the specimen and determine the impact resistance of the specimen	
Applications	Impact test of shoulder lining. Mount the shoulder lining specimen to the specified clamp an	
	select falling dart of certain weight for impact test. Check the status of the specimen and	
	determine the impact resistance of the shoulder lining specimen	

Labthink Instruments Co., Ltd. 144 Wuyingshan Road, Jinan, P.R.China (250031) Phone: +86-531-85068566 FAX: +86-531-85062108 Labthink International, Inc. 200 River's Edge Drive, Medford, MA, 02155, U.S.A. Phone: +1-617-830-2190 FAX: +1-781-219-3638



Technical Specifications

Specifications	FDI-01
Test Method	Method A or Method B is optional
Test Dongs	Method A: 50 ~2000 g
Test Range	Method B: 300 ~2000 g
Accuracy	0.1 g (0.1J)
Specimen Clamp	Pneumatic Clamp
Gas Supply Pressure	0.6 MPa (outside of supply scope)
Port Size	Ф8 mm PU Tubing
Specimen Size	>150 mm x150 mm
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	70 kg
Instrument Dimension	Method A: 500 mm (L) x 450 mm (W) x1320 mm (H)
mstrument Diffiension	Method B: 500 mm (L) x 450 mm (W) x2160 mm (H)

Configurations

Standard Configurations	Method A Accessories, Touch Screen and Micro Printer
Ontional Danta	Method B Accessories, Professional Software, Communication Cable and Accessories for
Optional Parts	Falling Ball Test
Note	1. The gas supply port of this instrument is $\Phi 8$ mm PU Tubing;
Note	2. Customers will need to prepare for gas supply.

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 for the latest updates. Labthink reserves the rights of final interpretation and revision.