

CHARPY IMPACT SPECIMEN FRACTURE IMAGE ANALYZER TT- FIA



Charpy Impact Specimen Fracture Image Analyzer TT-FIA | ASTM E23, ISO 148-1

TT-FIA Metal Impact Specimen Fracture Image Analyzer compliments our Charpy Impact Tester for Metals, as well as Impact Specimen Notch Broaching Machines. It adheres to standards including ASTM E23-2018, ISO 148-1 2009 "Metal Material Charpy Pendulum Impact Tester Part 1: Test Methods. This innovative analyzer is specifically developed for testing equipment such as V-shaped, U-shaped notches, and fiber section rates.

APPLICATIONS

Measurement Principle

Quick Measurement (for notch size measurement)

One-key measurement for accurate notch angle, depth, bottom radius, height, sample width (thickness), notch symmetry plane-sample longitudinal axis angle, and notch symmetry plane-end distance.

Optical System

Dedicated optical acquisition system with high-precision recognition capability.

Automatic Analysis

Automatically captures edges, measures, and analyzes. Displays error values and bases analysis on, ASTM and ISO standards, or predefined conditions.

Report Format

Imports images for secondary measurements, useful for arbitration or disputed result queries.

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Implementation Standards

- ASTM E23-2006b Standard Impact Test Method for Notched Specimen of Metallic Materials
- ISO 148-1:2006, Metallic materials-Charpy pendulum impact test-Part 1: Test method, MOD

FEATURES

Measurement Functions

- Notch angle measurement
- Root height measurement
- Notch bottom radius measurement
- Notch symmetry plane-longitudinal axis angle measurement
- Width measurement
- Fiber section rate measurement
- Expansion value measurement on the impact side
- Brinell hardness indentation measurement

TECHNICAL SPECIFICATIONS

Magnification	10-260x
Sample Type	10×10 (7.5, 5, 2.5)×55
Measuring Field of View	15mm×12mm
Measurement Method	Manual, Automatic, Template (switchable)
Measurement Resolution	0.001mm
Repeated Measurement Accuracy	<0.01mm
Report Format	EXCEL
Dimensions	280×380×620mm
Voltage/Power	200W 220V/50Hz
Operating Environment	No corrosive medium, no vibration, no strong electromagnetic field interference



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252
Email: me@torontech.com

