



Charpy/Izod Notch Verification Projector System NG-NPS-CIS

Standards: [ISO 148](#), [ASTM E23](#)



ULTIMATE USER-FRIENDLINESS



LEADING DEPENDABILITY AND RELIABILITY



STRICT COMPLIANCE WITH INDUSTRY STANDARDS



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Descriptions

Improve the accuracy and efficiency of your impact testing procedures with the **NG-NPS-CIS Charpy/Izod Notch Verification Projector System**—a high-precision optical measurement solution engineered to meet the demanding requirements of modern materials testing laboratories. Designed in full compliance with GB/T229 – 2007 “Metal Charpy Impact Test Method”, this system enables precise verification of U-type and V-type notch geometries through optical projection and comparison against certified reference templates. The system is equipped with an integrated GenDRN Digital Readout Module to assist with real-time positioning and measurement visibility.

The projector features a 50× magnification lens and a large $\Phi 200$ mm screen, allowing operators to clearly assess notch conformity with maximum clarity. Its robust platform offers ± 10 mm vertical and horizontal table displacement, ± 12 mm height adjustment, and 360° table rotation, ensuring full flexibility during specimen alignment and inspection. A powerful halogen and tungsten light source (12 V, 100 W) guarantees bright and consistent illumination across the measurement area.



GET A QUOTE



Whether you are performing impact specimen verification, notch inspection, or general metallographic quality control, the NG-NPS-CIS projector system provides a reliable, repeatable, and user-friendly platform to help achieve compliance with international standards and deliver high-quality test results.

Charpy/Izod Notch Verification Projector System Technical Specifications

Model	NG-NPS-CIS
Magnification	x50
Projector Screen Size	Φ200 mm
Table Displacement	Vertical ±10 mm, Horizontal ±10 mm
Table Height Adjustment	±12 mm
Table Rotation Range	0-360°
Light Source	Halogen and Tungsten, 12 V, 100 W
Dimensions	28 x 28 x 18 in (711 x 711 x 457 mm)
Weight	84 lbs (38 kg)



Watch Video



Watch the Charpy/Izod Notch Verification Projector System NG-NPS-CIS product video.

[WATCH ON YOUTUBE](#)



Advanced Digital Readout System for Real-Time Measurement Accuracy

The NG-NPS-CIS is equipped with the **GenDRN Digital Readout (DRO)**, a precision-driven module that has been developed to improve the accuracy, usability, and control of the system during notch verification. This system enables users to manually assign precise coordinates when necessary, recover mistakenly reset values, and zero positions at any point with real-time coordinate tracking across up to three axes.

With built-in linear error compensation, inch-metric conversion, and a center-finding function, the DRO guarantees that measurements are consistent and complies with strict testing standards. The system also includes a power-off memory feature that automatically restores the last used coordinates after unexpected shutdowns, thereby reducing test interruption and enhancing workflow reliability.



Compliance and Certification

The NG-NPS-CIS Charpy/Izod Notch Verification Projector System is engineered in full compliance with ASTM E23, ISO 148, and GB/T229 – 2007 standards. Each unit includes a formal **Certificate of Compliance**, confirming verified calibration accuracy, environmental test conditions, and traceability to certified measurement instruments.

During inspection and verification, the system undergoes a rigorous calibration process using high-precision tools such as micrometers, digital meters, and universal measuring microscopes. Testing is performed under stable temperature and humidity to ensure the highest level of reliability.

The optical system's **50× magnification lens** is evaluated for accuracy in key performance areas, including:

- **Notch width and depth**
- **Grid graduation resolution**
- **V-notch angle accuracy**
- **Root radius conformity**

All measured values fall within strict uncertainty thresholds as required by international standards. Calibration results are traceable and repeatable, assuring that the projector system delivers consistent, audit-ready outcomes.

To maintain long-term accuracy and compliance, annual recalibration is recommended as part of a regular quality control protocol.

This certification-backed process confirms that the NG-NPS-CIS system is ready for precision-critical applications such as notch inspection, impact specimen verification, and metallographic quality control, helping laboratories meet global testing standards with confidence.

[GET A QUOTE](#)