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Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 12, 2026

DIAMOND

Diamond Z-235 Angle Fiber Optic Polisher, Manual

Diamond Z-235 Angle Fiber Optic Polisher,Manual polishing system for precision connector end-face preparation. Offers adjustable polishing pressure and angle control to achieve optimal surface finishes for various fiber connector types in lab environments.

MODEL DIAMOND Z-235	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU Z-235	LISTING https://aumictechlabs.com/products/z-235-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Diamond Z-235 Angle Fiber Optic Polisher, Manual is a manual polishing system engineered for precision preparation of fiber optic connector end-faces. It delivers adjustable polishing pressure and angle control, enabling operators to achieve optimal surface finishes across various fiber connector types in laboratory settings.Technical Specifications Product Name: Diamond Z-235 Angle Fiber Optic Polisher, ManualManufacturer: DIAMONDModel Number: Z-235System Type: Manual polishing systemPrimary Function: Precision connector end-face preparationKey Features Adjustable polishing pressure for controlled material removal Adjustable angle control for connector geometry specification Manual operation enabling operator feedback during polishing cyclesTypical Applications Fiber optic polishing is a critical manufacturing step for passive components including patch cords and connectors. The process shapes the fiber end-face to specified geometry with ultra-smooth surface finish, directly impacting insertion loss and return

loss performance. The Z-235 supports multi-stage polishing sequences progressing through coarser to finer abrasives:De-coating: Removal of excess adhesive from ferrule endRoughing: Establishment of basic end-face contourFinishing: Elimination of scratches from prior stagesFinal Polish: Achievement of scratch-free, optical-grade surface This system enables preparation of multiple connector finish types. PC and UPC finishes typically achieve back reflection below -55dB. APC finishes utilize an 8-degree angle to direct reflections into cladding, achieving return loss typically ≥ -65dB. Insertion loss performance targets <0.3dB under optimal conditions. Critical polishing parameters controlled by this system include radius of curvature (typically 10–25mm), apex offset via pressure distribution, and fiber undercut/protrusion geometry. These parameters directly influence final connector optical performance.Compatibility & Integration The Diamond Z-235 functions as a standalone manual polishing platform suitable for laboratory connector preparation workflows. It accommodates standard fiber connector ferrule geometries used in telecommunications and datacom applications.

Features & description

From manufacturer datasheet

Key Features

Adjustable polishing pressure for controlled material removal Adjustable angle control for connector geometry specification Manual operation enabling operator feedback during polishing cycles Typical Applications Fiber optic polishing is a critical manufacturing step for passive components including patch cords and connectors. The process shapes the fiber end-face to specified geometry with ultra-smooth surface finish, directly impacting insertion loss and return loss performance. The Z-235 supports multi-stage polishing sequences progressing through coarser to finer abrasives:De-coating: Removal of excess adhesive from ferrule endRoughing: Establishment of basic end-face contourFinishing: Elimination of scratches from prior stagesFinal Polish: Achievement of scratch-free, optical-grade surface This system enables preparation of multiple connector finish types. PC and UPC finishes typically achieve back reflection below -55dB. APC finishes utilize an 8-degree angle to direct reflections into cladding, achieving return loss typically ≥ -65dB. Insertion loss performance targets <0.3dB under optimal conditions. Critical polishing parameters controlled by this system include radius of curvature (typically 10–25mm), apex offset via pressure distribution, and fiber undercut/protrusion geometry. These parameters directly influence final connector optical performance. Compatibility & Integration The Diamond Z-235 functions as a standalone manual polishing platform suitable for laboratory connector preparation workflows. It accommodates standard fiber connector ferrule geometries used in telecommunications and datacom applications.

DIAMOND Z-235 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the DIAMOND Z-235. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Request Calibration → Request Repair Quote →

DIAMOND Z-235 price

This DIAMOND Z-235 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

DIAMOND Z-235 calibration cost

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Unit notes

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Z-235 Specifications

PARAMETER	VALUE
Product Name	Diamond Z-235 Angle Fiber Optic Polisher, ManualManufacturer: DIAMONDModel Number: Z-235System Type: Manual polishing systemPrimary Function: Precision connector end-face preparation

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
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