



DQ™-101C Fiber Laser Cutting Machine

High Precision · High Efficiency · Tailored for Optical Fiber

Description

The DQ™-101C Fiber Laser Cutting Machine is a high-performance automated processing system developed by Suzhou Dianquan Automation Co., Ltd., specifically designed for the optical communication industry. It integrates auto-alignment, auto-focus, auto-compensation, and intelligent inspection functions, enabling high-precision and high-efficiency fiber cutting. Built on a gantry-type linear motor platform, equipped with an industrial-grade vision positioning system and proprietary control software, the DQ™-101C is ideally suited for high-consistency, high-throughput, and standardized production scenarios. It is the optimal solution for boosting production yield and capacity in modern fiber optic manufacturing.

Key Features

- High Precision: Length tolerance ± 0.005 mm; Angle tolerance $\pm 1^\circ$
- Fully Automated Workflow: Auto-alignment, auto-focus, auto-compensation
- Smart Detection: Integrated defect recognition and feedback system
- Custom Fixtures: Jig precision up to ± 0.002 mm
- Proprietary Software: Pre-cut defect prediction and post-cut yield feedback

Operating Principle

- Gantry structure with high-speed reciprocating linear motor for laser head movement
- Dual-station configuration enables independent processing of two product types
- Vision-assisted MARK positioning ensures consistent alignment and cutting accuracy

Core Specifications

- Laser Type: Continuous-wave, 100 W
- Target Material: Glass optical fiber
- Control System: DeatRong proprietary software
- Machine Dimensions: $1300 \times 1400 \times 1700$ mm
- Power & Air Supply: AC220V, 0.4 – 0.6 MPa, 2.5 kW total

Service & Support

- Lead Time: Standard 5–6 weeks; international customization available
- Installation & Training: On-site within 48 hours; 5–10 working days of training
- Warranty: 12-month coverage; 24h (local) / 48h (remote) response time within mainland China

Contact Us

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