

NIIMBOT C1 Smart Tube Printer

Industrial Cable & Wire Marking System — Technical Datasheet

Product Overview

The NIIMBOT C1 is an ultra-miniature, high-definition thermal transfer tube printer designed specifically for industrial automation, electrical panel building, telecom racks, and wire identification. Engineered for field and workshop applications, it features advanced automatic cutting mechanisms, smart RFID cartridge calibration, and versatile cross-platform software integration for high-volume serialisation tasks.



Technical Specifications

Specification	Technical Details
Print Technology	Thermal Transfer (Ink Ribbon Matrix)
Print Resolution	300 DPI (High-Definition)
Print Speed	Up to 38 sections per minute (20mm segments)
Media Compatibility	PVC Marker Sleeves, Heat-Shrink Tubing
Supported Wire Specs	0.5 mm² to 25 mm² (Inner Diameter: ϕ 1 mm to ϕ 8 mm)
Cutting Mechanism	Automatic Half-Cut and Full-Cut configurations
Battery Capacity	2600 mAh Rechargeable Lithium (Prints ~200m continuously)
Connectivity	Bluetooth (Multi-device shared) & PC USB connection
Software Support	NIIMBOT App (iOS/Android) & NIIMBOT Desktop (Windows)
Data Integration	Excel Batch Import, Auto-Serialisation, Barcode/QR Generation

Media & Environmental Durability

Feature	Performance Standard
Temperature Rating	Withstands temperatures ranging from -5°C to 105°C
Safety Ratings	Insulated, flame-retardant industrial grade material
Environmental Shielding	High resistance to oil, chemicals, fading, abrasion, UV radiation, and moisture
Legibility Lifespan	Printed text rated to remain legible up to 10 years under standard deployment conditions

Operational & Mechanism Controls

- Auto-Clamping & Pre-Tightening:** Features smart internal mechanics to instantly secure and realign ribbon consumables upon door closure to avoid print slipping.
- RFID Media Verification:** Utilises micro-chipped intelligent roll cartridges to automatically synchronise templates, material dimensions, and remaining counts with software.
- Batch Workflow Optimization:** Integrated database engine handles bulk sequential numbers, letters, symbols, or variable data from standard data sheets.