



KnitLocal™

Local Smart Production Management System

KnitLocal is an add-on product to **KnitNet**, designed as a local solution for factory managers whose knitting machines are equipped with KnitNet smart hardware. It is ideal for factories that already monitor and manage production through KnitNet and seek stability, accuracy, and continuous production even during internet outages.

Installed locally (on-premise) within the factory, **KnitLocal** provides real-time visibility into machine status and knitted rolls, without requiring an internet connection.

Why KnitLocal?



The production process continues without interruption, independent of internet connectivity.



Roll weight is recorded automatically and accurately.



Human error in weighing and data entry is reduced to zero.



End-to-End Roll Identification Before Labeling

Smart NFC Roll-ID System (Physical Traceability Feature)

KnitLocal introduces an innovative Machine Assigned NFC Tagging System that links physical fabric rolls directly to their digital production record:

Machine-Level NFC Encoding

Dedicated re-usable NFC cards are assigned to each knitting machine. Upon roll completion, the roll's unique ID and production details are instantly written onto the card.

Station-to-Station Identification

As the fabric roll moves across factory stations (inspection, weighing, or storage), the NFC card is scanned to retrieve exact roll details without relying on paperwork or continuous Wi-Fi.

Seamless Final Tagging

Once the roll reaches the final station, reading the NFC card automatically triggers the printing and heat-pressing of the durable KnitID QR label—ensuring zero mismatch between physical fabric and digital records.

System Components

A standard KnitLocal installation consists of:

- ✓ KnitNet Smart Node installed on each knitting machine
- ✓ KnitLocal software
- ✓ Dedicated industrial PC / Computer
- ✓ Digital weighing scale with RS-232 (Serial) communication
- ✓ KnitNet card reader
- ✓ Local Area Network (LAN)



Core Features & Capabilities

- ✓ Connects directly to digital factory scales to auto record exact roll weights.
- ✓ Reads roll NFC cards to trace every produced roll.
- ✓ Real-time machine status monitoring across factory floors without internet dependency.
- ✓ Offline storage of complete roll information for up to one month and auto-syncs with the cloud when the internet connection recovers.
- ✓ Enables operators to record fabric defect notes and quality comments directly at local terminals.

Optional Add-ons

To build a fully automated local tracking hub, KnitLocal seamlessly connects with:

KnitID Printers & Heat Press: Auto-prints ultra-durable, heat-resistant QR code labels for tracking through harsh dyeing and finishing processes.

Barcode & NFC Readers: Quick scanning of historical rolls and active NFC tags.

Multi-Display Broadcast: Displays live machine performance lists across multiple screens in different production halls.



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