



KnitFeed

Joula Yarn Length Meter

Introduction

Accurate yarn consumption measurement is one of the key factors in calculating production output and improving efficiency in the knitting industry. By installing a KnitFeed device on each yarn feeding point of a circular knitting machine, the exact amount of yarn delivered by each positive feeder during every machine revolution can be measured.

KnitFeed also automatically measures the 100-course yarn length, one of the most important indicators of fabric quality. This enables manufacturers to reproduce the same fabric with exceptional consistency and identical specifications. Machine settings for different fabric styles can be stored and quickly recalled whenever production changes. This allows operators to easily restore the exact yarn feed settings required for a previously produced fabric, even on different knitting machines. All measured parameters are continuously displayed in real time, making any variation immediately visible. When connected to the Joula KnitNet platform, these values are also transmitted, monitored, and permanently recorded online.



Features and Facilities

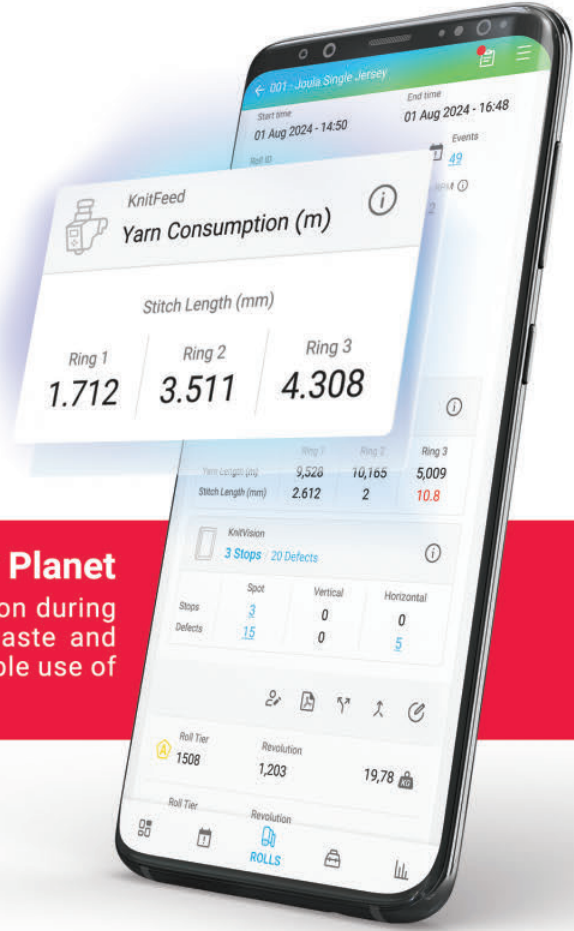
- ✓ Ensures exact yarn length measurement per revolution without multi circle accumulation errors.
- ✓ Maintains uniform yarn feeding across all feed positions to ensure consistent stitch length and instant detection of yarn fluctuations.
- ✓ Fully integrates with Joula KnitNet to generate detailed yarn consumption and course length reports per roll, shift, and machine.
- ✓ Dot matrix OLED screen provides clear multi language parameter display and simplifies yarn consumption calculations.
- ✓ Compatible with a wide range of circular knitting machines.



By accurately measuring yarn consumption and stitch length, Joula KnitFeed ensures fast, precise, and cost-effective fabric reproduction.

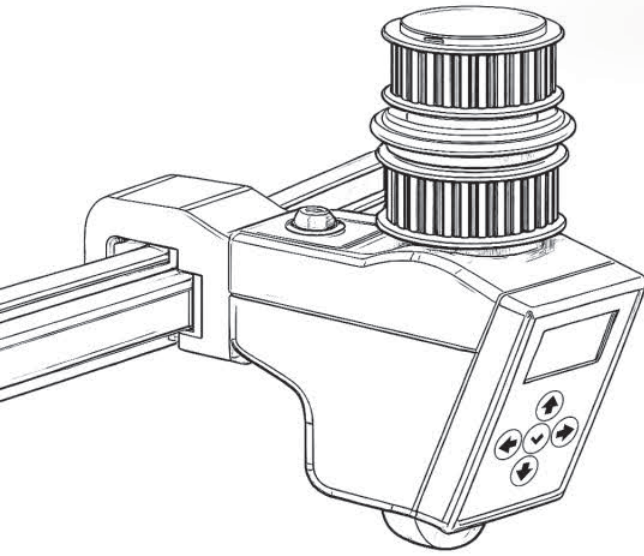
Advanced Features

- ✓ Stops the machine when yarn feeding falls below or rises above the preset range (for example, due to a loose belt or lint accumulation on the positive feeder).
- ✓ Built in memory stores up to 40 fabric profiles to quickly reproduce identical fabric styles across different machines and reduce setup time.
- ✓ Built in CAN communication port enables real time central monitoring and remote parameter management via PC software.



Smarter Production, A Better Planet

By preventing uneven yarn consumption during production, KnitFeed helps reduce waste and promotes more efficient and responsible use of natural resources.



Core Features

- ✓ Calculate yarn consumption percentage without weighing yarn cones.
- ✓ Predict yarn inventory depletion dates.
- ✓ Estimate the number of fabric rolls that can be produced from available yarn inventory.
- ✓ Determine the required machine revolutions to produce a fabric roll with a specified target weight.
- ✓ Determine fabric diameter without weighing the fabric.
- ✓ Determine fabric length without weighing the fabric.

Technical Specifications

Power Suppl	DC 9V 24V (Ultra low main power consumption <0.6W)
Storage Capacity	Up to 40 complete fabric parameter profiles
Measurement Accuracy	0.01cm per revolution
Weight and Dimension	420g / 137mm x 133mm



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Join the new generation of
smart knitting technology
with Joula