



KnitNeedle™

Detect. Stop. Protect. Laser-Controlled Needle Safety.



Product Overview

KnitNeedle™ is a laser-based needle fault detection system that has been reliably used in circular knitting machines for over 8 years. It accurately detects bent or broken needles in real time and instantly stops the machine to prevent fabric defects and material waste. Today, KnitNeedle is widely adopted in knitting factories worldwide as a trusted solution for improving productivity and ensuring consistent fabric quality.

Why KnitNeedle?

Our Advantages – Precision You Can Rely On:

Bent Needle Detection

Bent needles are a hidden threat—often missed during knitting and sometimes only visible after dyeing. *(KnitNeedle saves you hours of downtime and meters of wasted fabric by detecting faults before they affect production.)*

Exact Fault Position Detection

Our advanced system does more than stop the machine—it also **identifies the exact needle position** where the fault occurred. This ensures faster repairs, less downtime, and more efficient production.

Unmatched Pattern Fabric Compatibility

KnitNeedle is designed to operate flawlessly even on **patterned, Jacquard, and cut-line fabrics**. Where many systems fail or give false alarms, KnitNeedle performs with precision, maintaining your fabric quality across all machine types.



As a rule of thumb, the system pays for itself in less than a month by detecting just 30 defective needles and preventing 30 rolls of fabric waste.

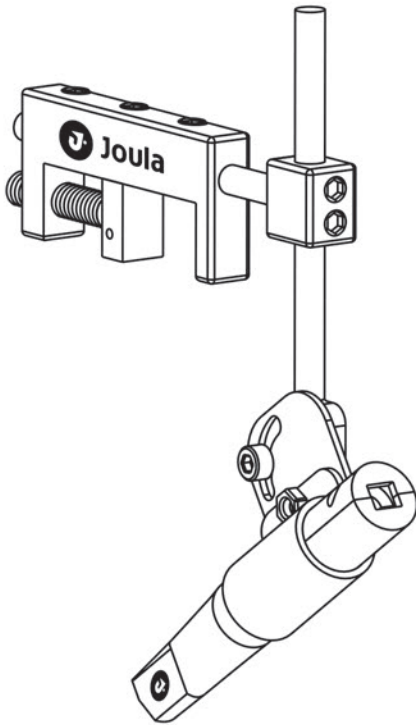
Core Features

- ✓ Laser-based detection using high-precision LIDAR technology
- ✓ Detects broken, bent, and missing needles
- ✓ Works reliably on patterned and Jacquard fabrics
- ✓ Real-time machine stop response
- ✓ 4000 needles per second response speed
- ✓ Tested on 54 NPI resolution (Needle Per Inch)
- ✓ Detect with minimal false alarms from 20mm distance
- ✓ User-friendly interface with customized LED display
- ✓ Easy to install on single plate, double plate even jacquard machines



Trusted Worldwide

from Europe to Asia and across South America



Exclusive Advantages

Detects Broken Needles	✓ Yes
Detects Bent Needles	✓ Yes
Shows Faulty Needle Position	✓ Yes
Works with Patterned Fabrics	✓ Yes
Price Level	\$ Competitive
Response Speed	4000 needles/sec
Resolution	54 NPI
Installation Flexibility	✓ Universal Mount



“Join the new generation of smart knitting technology with **Joula**”



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