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How AI, Cloud Connectivity, & Smart Cutting Workflows Are Transforming Tech Textile Manufacturing



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What's Keeping Technical Textile Manufacturers Up at Night?



Five Years Ago

- Production was the priority
- Labor was available
- Material costs were more stable

Today

- Labor shortages
- Margin pressure
- More customization
- More compliance
- Faster lead times

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Technical Textiles Are Mission-Critical

The Products We Make Matter

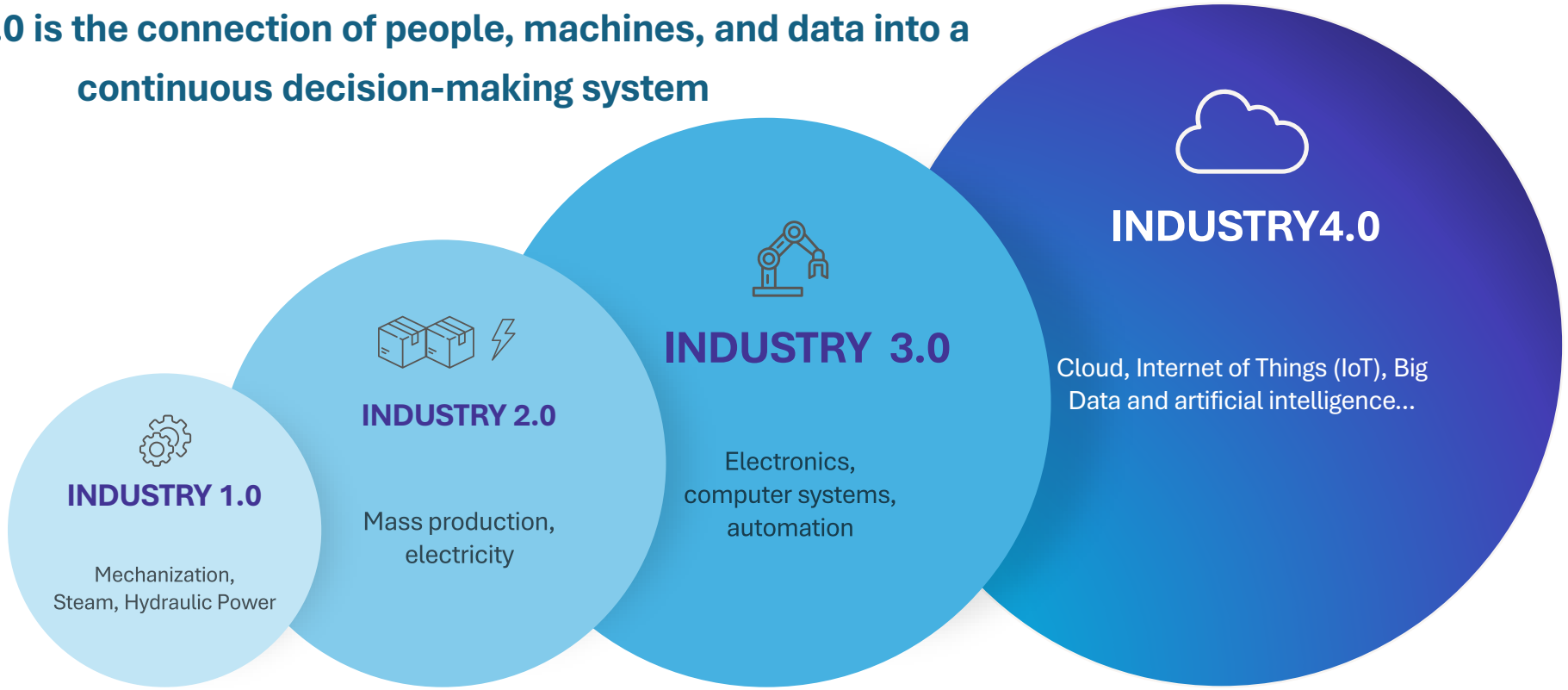
- Ballistic protection
- Marine structures
- Aerospace composites
- Medical devices
- High-performance outdoor products

- Labor Shortages
- Increased demand for precision and traceability
- Shorter lead times and greater customization



What Industry 4.0 Actually Means

Industry 4.0 is the connection of people, machines, and data into a continuous decision-making system

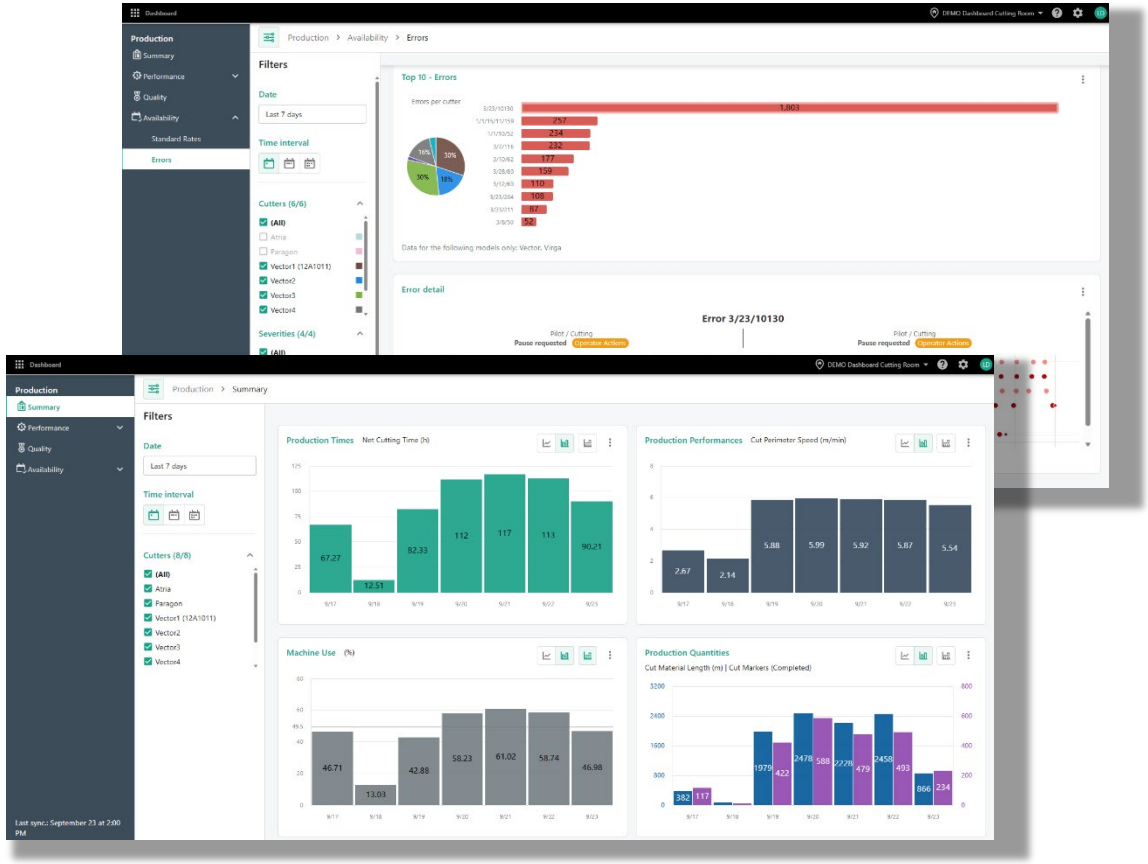


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The Hidden Cost of Disconnected Operations

A Typical Production Day

- Designs in one system
- Planning in spreadsheets
- Operators using tribal knowledge
- Machines operating independently
- Managers reviewing yesterday's data



The Reality

Most companies don't have a technology problem.
They have a disconnected information problem.

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Why Material Optimization Matters

The most expensive material is the material you waste.



- Rising material costs
- Specialized composites
- Ballistic materials
- Technical fabrics

1%

Improvement in material

= $

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The Shift from Equipment Thinking to Workflow Thinking

Everyone is talking about AI.

But What Does It Actually Mean On A Factory Floor?



Old Mindset

We need a faster machine.

New Mindset

- Better Nesting
- Better Planning
- Better Forecasting
- Smarter maintenanc e scheduling
- Faster decision-making

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The Power of Connected Production Data

Digital transformation isn't a technology project.
It's an operational improvement strategy.

Where are we losing the most time?

Where are we losing the most material?

Where are decisions being made without data?

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