

NOVA CASING & **SUSTAINABILITY**

VISKOTEPAK'S COMMITMENT TO CUSTOMER SOLUTIONS

FOCUS ON KPIs FOR MANUFACTURING IMPROVEMENTS

+ AN INTRO TO SOME OF NOVA'S NEW PRODUCTS:

NOVA ECO SERIES: ULTRA THIN CASING

NOVA FS FOOD SAFE CASING

NOVA RC AP MATERIALS

NOVA HF HIGH FLEX CASING

NOVA RCC AND MCH PRODUCTS

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The final
article of the
series

Read more inside





Nova Developments: Improve your Manufacturing Performance.

In previous articles, we explored Nova casing's role in promoting sustainability, focusing on its functions, challenges, and its contributions to resource conservation. Building on this foundation, this article highlights ViskoTeepak's innovative Nova casing solutions, showcasing how they enhance manufacturing processes by improving key performance indicators (KPIs) such as throughput, food safety, yield, and equipment effectiveness—all while supporting sustainability through reduced material use, minimized waste, and optimized operational efficiency.

A Legacy of Innovation and Continuous Improvement

Our ViskoTeepak team constantly strives to develop solutions to help our customers in their manufacturing process. As manufacturers ourselves, we understand the need for continuous manufacturing improvement. With over 70 years serving the food industry and sales in over 90 countries, tailor-making casing and packaging solutions to help our customers reduce manufacturing costs, improve safety, and enhance sustainability is a continuous process.

Enhancing Manufacturing Performance with Innovative KPI-Driven Solutions

Manufacturing Operations Teams often use KPIs (Key Performance Indicators) to measure their performance, continuous improvements, and ability to stay competitive. Our most recent Nova casing developments provide measurable, value-adding solutions to our customers by improving these important metrics.

Throughput is a KPI measurement that reflects how much you can produce given a certain amount of resources, equipment, labor, and time. Our recent developments in the Nova Eco Series group, specifically the new Nova UT UltraThin casing, feature a reduced 'thickness' or 'gauge' of up to 30 percent while maintaining the same strength and performance properties. More footage per shirred strand helps increase customer throughput by allowing them to run longer between machine cycle times. Cycle time is another KPI that supports improved throughput—by reducing the time between machine cycles, you can run more continuously, producing more in a given time. Additionally, our Eco Series products, such as this, help achieve sustainability goals by directly reducing the amount of packaging used.

Defect Density and First Pass Yield are KPIs that respectively measure product integrity and the percentage of product manufactured to specification. These KPIs encompass food safety, such as the presence of FM's (Foreign Materials) in the product. In our Nova Industrial Series, the new Nova FS Food Safe casing targets three major properties: Color, Opacity, and Structure. The Nova FS first allows quick casing removal in large, easy-to-see, single clean pieces. Secondly, the special color and opacity features work to highlight any casing pieces that may be left after removal. These properties maximize food safety and yield by preventing casing from mixing into products during high-speed processing operations. Research on customer formulations, which now include many vegetable ingredients, especially in pet foods, in conjunction with color science research, helped determine optimal casing colors and opacities for fast recognition, maximizing contrast with customer products. Special high fracture toughness casing material, combined with this optimized color and opacity, resists 'fragmentation' or breaking into smaller pieces when removed. These three factors combine to make a casing designed for challenging high-speed applications. Preventing foreign materials improves other Manufacturing KPIs, such as reducing Return Rate and Downtime.

Driving Efficiency and Yield with Advanced Industrial Series Solutions

Supporting a key manufacturing KPI of Total Effective Equipment Effectiveness (TEEP) is a new development in our Nova Industrial Series—the new Nova RC group AP materials. The Nova AP products combine several structural properties to allow fast production in the expanding market of automated casing peelers for plastics. Designed for low adhesive properties to the product, combined with size control and a structure designed to allow fast, full removal of the casing, this minimizes production stops, especially in high-speed operational conditions where minutes of downtime can mean a loss of hundreds or thousands of pounds of production.

Supporting the KPI of Manufacturing Yield Variance is our Industrial Series NOVA HF High Flex products. Utilizing specialized manufacturing processes, we produce a highly flexible casing that works to prevent splits and clips from sliding off during thermal processing. This is especially valuable in high-expansion products such as poultry and products containing various ingredients that cause expansion during cooking. Nova HF effectively eliminated splitting and clip loss in a large-scale case study, supporting major improvements that boosted product yield by seven percent while achieving related KPI improvements, such as reduced downtime.



Features	Benefits
Almost zero weight lost during processing and handling	Higher Yields
Medium Barrier for special applications	Increased shelf life for products where gas permeability is necessary, i.e., chorizo
Good converting options	Tailor-made to your need

Precision and Performance with Nova True Series Solutions

Two product groups designed to improve Manufacturing Yield Variance in our Nova True Series are the Nova RCC and MCH products. These smaller caliber structures are designed for outstanding caliber control, allowing precise yield while making product size and length consistent. With precision size control, no pre-soaking is needed, combined with specialized converting to allow clear date coding, along with advanced, eye-catching printing that is also resistant to common acidic liquids used in some types of food manufacturing, such as chorizo products. Customers have experienced great results with both solutions, improving their finished product appearance for increased sales while reducing operational costs by maximizing yield.



Features	Benefits
Excellent Caliber Control	Diameter and length sizing consistency
Increased Strength	Hanging products during thermal processing
Peeling Ease	Ergonomic improvement and labor savings

In addition to these products, we continue our work on exciting new product developments in the Nova product group! Call us today to find out how we can help your manufacturing team reduce operational costs and improve safety while enhancing your finished product's quality for sales and profit growth!



Always around

