



Official North American Distributor



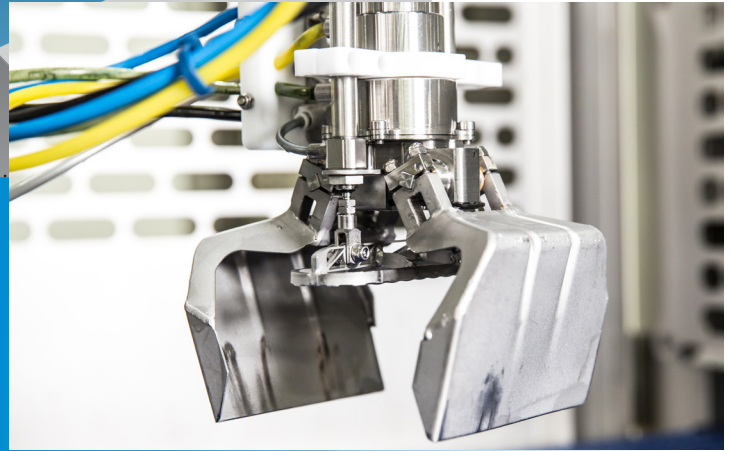
## Ingenuity in Robotic Conveyor-to-Case



Dynamic Weighing, Measuring, and Pick -n- Pack  
**Significantly Minimize Labor and Increase Yields  
with a Minimal Footprint ....**



# Give Your Packing Line an Automation Boost



Reduce labor and improve yield with the proven Robotgrader system for automated net weight packing, simple tray packing, and sorting. This system, now distributed in North America exclusively by JBT, complements the JBT Proseal™ tray sealing and case packing system. Integrating these JBT machines efficiently and intelligently moves your product from “**Conveyor to Case**”.

Automated processing, including machine vision systems and expansion-boosting software, helps food processors alleviate the longstanding challenge of manual laborers producing *standard* finished goods from naturally varying product. The automated system lessens ‘give-away’ by astutely placing portions in tray or bin locations. This versatile system achieves or exceeds your throughput goals with a modular design – available in 1 to 4 robots based upon your capacity needs. With the available data analytics, you can understand each application and improve your bottom line. Additionally, onboard simulation software facilitates quick and effective exploration of new tray pack market opportunities.

## Simplify & Enhance Your Line with Robotgrader from JBT

Backed by years of primary, secondary, and further processing knowledge, the experts at JBT recognized the need for improved technology in food processing measuring, weighing, sorting, and packaging. Not only does JBT offer its core base of industry-proven food processing solutions, JBT works relentlessly to deliver new solutions to further increase your profitability and decrease your reliance on scarce labor.

- **High yield results**
- **More throughput**
- **Multiple opportunities for reduced labor**
- **Precise control over product weights & dimensions**
- **Mechanical advances that reduce maintenance while improving uptime**
- **Seamless integration into your current processes**
- **Leading edge technology**

## The Robotgrader Automation System Reduces Labor Within a Small Footprint While Intelligently Integrating With Your Plant’s Existing ERP or MPS System

Accurately Weigh, Measure, Pick from Several Angles, Sort, Bulk Calibrate, and Tray

Following the success in Europe of Robotgrader’s capabilities in the seafood and poultry markets, JBT has brought this ingenuity to North America.

Traditional belt-grader or radial-style units do not save on labor. With Robotgrader, only a few operators are needed to refill trays and check final package presentation.

### Some processors can save over 50% in labor costs!

#### Do the Math ...

*Pick & Pack Chicken Fillets  
@ line speed 240 fillets/min & pack speed 40 fillets/min*

Manual line: 7 Operators/shift

Robotgrader Line: 3 Operators/shift

Savings of: 4 Operators/shift

x 2 shifts/day = 8 Operators/day

**Annual Labor Savings = 16,500 hours/year**

Other processors are even using our Robotgrader systems to presort within a weight range upstream of processing stages like portioning, slicing & dicing.

Rapid, intelligent sorting combined with Robotgrader’s ‘bulk’ option will dramatically reduce package overweight by dynamically allocating individual input product.





Designed for the Protein Industry

## JBT Continually Looks to Upgrade Your Capabilities

Think Your Line is Performing at its Max? Think Again ...

### Dynamic Weighing

Sort to pack at a desired net weight. *Example: 115 filets/min with the option to have 1-5 parallel units in the same machine.* The integrated checkweighers are displayed to the operator for optimum control.

### Measuring

Use the 3D scanner to measure and define each passing product. Robotgrader will estimate volume & weight, sort by thickness, and evaluate overlapping pieces.

### Pick -n- Pack

Pick products from any angle off the conveyor and pack in any programmable pattern. *Example: Fish head to tail in 1 or 2 layers.*

### Go Beyond Tray Pack with Bulk Calibration

With a pre-set calibration of weight grades, Robotgrader can flip product into bins which discharge into a box for an operator to remove for further processing and replace with another empty box.

### Remote Service & Support

Our Technicians are able to troubleshoot and update the systems from anywhere in the world with an integrated internet connection, maximizing uptime.

### Traying Formats Just for You

Opt for a buffer belt for stacking trays to automatically refill stacks with one or more deneter cassettes depending on tray size. Several tray materials can be applied with sizes ranging from 7.5" x 4" to 13" x 10.25".



## JBT Ingenuity in Robotic Conveyor-to-Case



### JBT iOPS

A JBT iOPS system delivers industry-leading machine health and product data analytics to help you optimize system performance and uptime. JBT experts are also available to provide insights to support your continuous improvement processes and to provide data-driven solutions for enhanced, predictive service support.



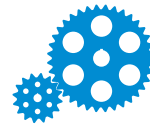
### JBT Commitment to Safety

JBT Corporation accepts our responsibility to protect the safety of our employees, their families, our customers and the public. Our continued commitment to stringent safety standards in everything we manufacture is an integral part of our business to benefit you. Our equipment is engineered to achieve continuous and measurable improvement in safety.



### JBT Hygiene by Design

Food processing boasts some of the harshest environments for electronics and mechanized parts. JBT equipment is specifically designed to flourish in just those conditions as well as to provide the most sanitation-friendly solutions that directly affect your bottom line.



### PRoCARE<sup>®</sup>

### JBT PRoCARE<sup>®</sup>

A ProCARE service agreement is designed to give you a predictable monthly cost based on your equipment use for each machine. Customize scheduled preventive inspections, maintenance, parts, and other benefits that offer peace of mind minimizing unexpected/budget-shattering costs.

#### JBT PROTEIN PROCESSING

##### PRIMARY

CHILLING | WEIGHING | PUMPING |  
CUTTING-UP | SKINNING | WATER RE-USING |  
ENHANCING FOOD SAFETY

STATE-OF-THE-ART EQUIPMENT DESIGNED TO  
YOUR SPECIFICATIONS FOR CHILLING AND  
INITIAL PROCESSING OF RAW MATERIALS  
LIKE POULTRY, MEATS & SEAFOOD INTO FOOD  
COMMODITIES FOR BOTH HUMAN AND ANIMAL  
CONSUMPTION.

##### SECONDARY

PORTIONING AND SLICING | BRINE  
PREPARATION | HOMOGENIZATION  
INJECTION & RETURN MILLING | MACERATION |  
MASSAGING | TENDERIZATION X-RAY  
TECHNOLOGY | AUTOMATED TRAY LOADING

VALUE ADDED PROCESSING WITH  
GROUNDBREAKING JBT AUTOMATION,  
MARINATION AND INSPECTION SOLUTIONS THAT  
IMPROVE YIELD, REDUCE LABOR, AND IMPROVE &  
VERIFY PRODUCT QUALITY.

##### FURTHER

COATING | FRYING & FILTRATION | PROOFING  
| COOKING | COOLING | CHILLING  
FREEZING | REFRIGERATION | CLIPPING  
& PACKAGING SOLUTIONS | X-RAY  
TECHNOLOGY | HIGH-PRESSURE PROCESSING  
(HPP)

YOU'VE PAINSTAKINGLY DEVELOPED RECIPES  
AND MANUFACTURED FOODS DISTINCT TO YOUR  
BRAND. JBT OFFERS COST-SAVING EQUIPMENT  
UNIQUELY DESIGNED AND HAND-CRAFTED TO  
YOUR SPECIFICATIONS.



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We're with you, right down the line.™

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