FOOD AND BEVERAGE

Solutions for fish processing plants
Delivering integration and reliability
A leading solution portfolio for advanced fish processing plants

ABB is a trusted brand and a global partner with local expertise and provider of leading edge power and productivity solutions.

Our solutions help you:

- Improve food and employee safety
- Enhance total cost of investments and asset intensity as the key to profitability and growth
- Improve product quality
- Address key industry trends of the future

From power connection to end of line packaging

- Picking, Packing, Palletizing
- Automation and mechanical
- Power distribution, protection and quality
- Control
- Safety and protection
- Instrumentation

Robotic solutions optimize operational costs and improve efficiency

From picking and packing... to palletizing

Optimizing across power and process needs

<table>
<thead>
<tr>
<th>MAC &amp; MEC</th>
<th>Main Automation Contractor (MAC)</th>
<th>Main Electrical Contractor (MEC)</th>
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<tbody>
<tr>
<td>Seamless &amp; guaranteed delivery across multiple, interfaced systems</td>
<td>Best in class systems</td>
<td>Electrification/Electrical Systems</td>
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<tr>
<td>Automation Systems</td>
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<td>Safety</td>
<td>Motors &amp; Drives</td>
<td>Transformers &amp; switchgear</td>
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Integrated Process and Power Automation benefits

- Project benefits
  - Reduced CAPEX (20 percent typical)
  - Faster project startups
  - Reduced engineering
  - Less equipment required

- Operational benefits
  - Reduced OPEX (20 percent typical)
  - Energy management
  - Operator efficiency and safety
  - Reduced lifecycle costs

Driving the future of food and beverage productivity

Greater integration across the value chain

- Virtually design and test production lines and machinery to verify and ensure everything works before you build
- Integrate equipment, people, control and business systems (ERP), synchronize production processes and logistics operations, get plant wide transparency and full product traceability

Advanced services and more empowered workers

- Robot remote monitoring service enables proactive maintenance. Access actionable information anywhere, anytime
- Motors and drives becoming smarter devices, communicating process or condition data and alert before service is needed