



ABB JOKAB SAFETY Products

Material handling industries Machine safeguarding solutions

Machine Safeguarding Solutions for the Material Handling Industries

Challenge and Commitment

The need for machine safety has become one of the most important concerns for manufacturers throughout North America today. The necessity to protect employees from injury and the fact that there are standards that must be met are realities that can no longer be ignored.

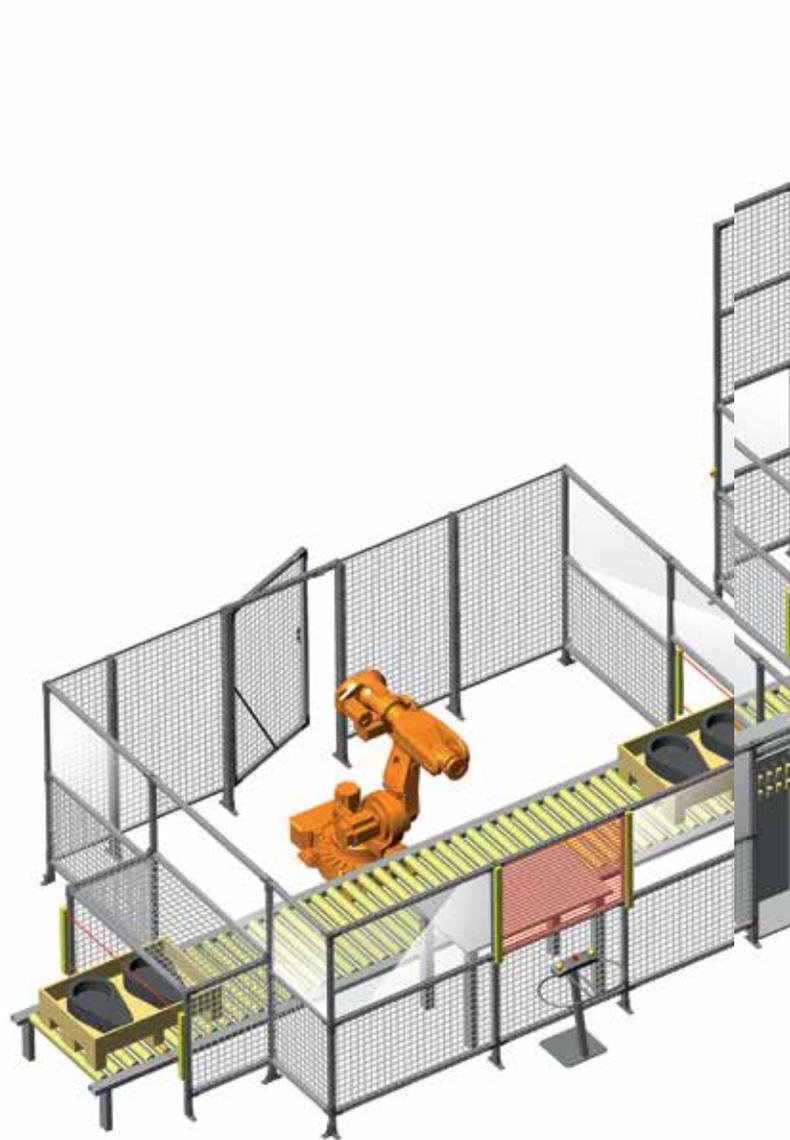
In an industry where the demands on repeatability, system versatility, operational reliability and productivity are high, it is especially important that machine safety is integrated in a natural way. Whether at the planning stage or retrofit to an existing process, we can offer turnkey solutions for the material handling industries. We can show that safety measures do not affect productivity in a negative way, but contribute to improving it.

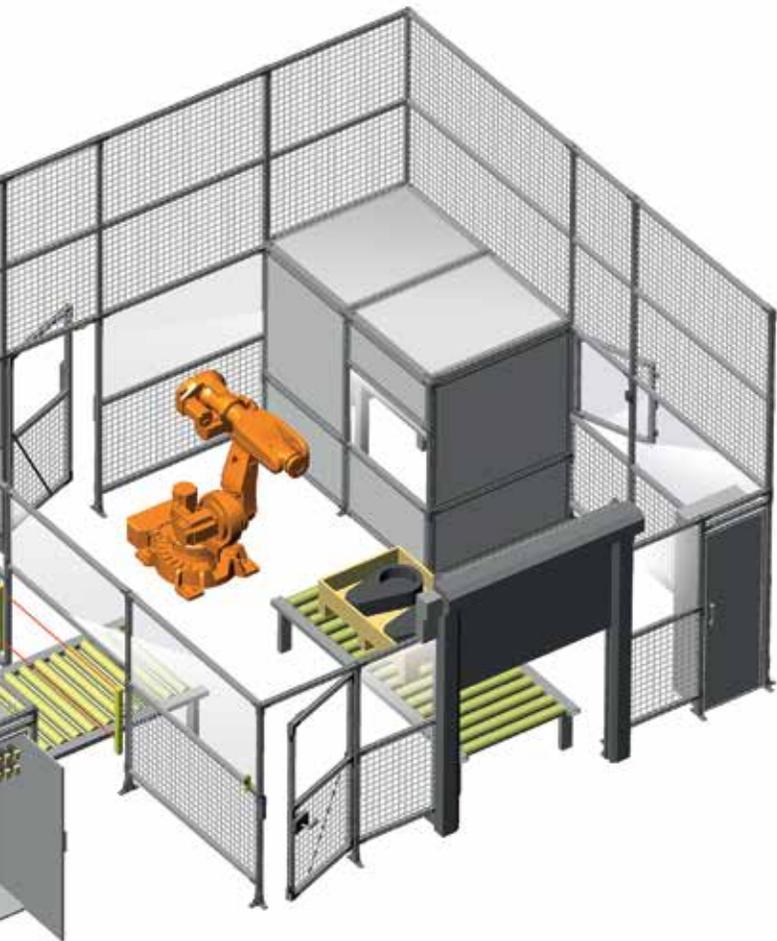
Overcoming industry issues

Material handling systems require a high sustainability level from their electrical/mechanical systems to avoid costly system shutdowns and potentially delayed shipment scheduling. ABB JOKAB SAFETY offers products and systems designed to operate in the harshest material handling environments. Our systems will stand up to extreme hot or cold temperatures and environmental conditions that often shorten the life of expensive equipment.

Decades of machine safety systems expertise

Our goal for nearly three decades has been the protection of the manufacturing workforce – and it made ABB JOKAB SAFETY a leader in the machine safety industry. We offer complete machine safety solutions that will help protect valuable staff and meet standards and regulations relevant to your business. We can be instrumental in helping you meet the unique challenges encountered in material handling with electrical/mechanical solutions, services and systems that deliver value.





Understanding complete machine safety systems

Many of today's material handling facilities often struggle to see beyond the current misunderstanding of the true meaning of machine safety. Their approach could be limited in vision and focused on the individual components to be purchased – instead of focusing on the overall picture, the design of the complete machine safety system as a whole.

The idea that all safety devices are the same and can be purchased as commodity products for the lowest price is a myth. Thousands of companies are spending good money on the wrong components. This misplaced belief ultimately leads to higher overall costs, incorrect applications that may not comply with specified safety standards, and can result in unsafe conditions.

Machine Safety – Productivity – Profitability

Productivity and machine safety are not contradictory terms. ABB JOKAB SAFETY knows that machine safety solutions that are properly designed and executed will increase productivity and profitability. By engineering safety systems in a smart way, the mode of operation will not need to be changed to meet the requirements that safety sets. Instead, this creates a system that is operational-friendly and takes into account the business and its productivity objectives.

Our Value Commitment

ABB JOKAB SAFETY is working to help material handling facilities and manufacturers meet demanding production and delivery schedules by offering machine safety systems that improve processes with added sustainability, reliability and personnel safety. We are committed to helping you to meet the unique challenges of your industry with electrical machine safety solutions, services and systems that deliver value.

Safety compliance, consultation and training

Understanding National and International Safety Standards pertaining to the material handling industry can be very difficult, and keeping up with the constant changes can be nearly impossible. Fortunately, when it comes to understanding Production Integrated Safety – including updates of all pertinent standards or regulations ABB JOKAB SAFETY offers all the assistance you will ever need.

Machine Safety is becoming more important than ever before, and safety standards are increasingly more complicated. Along with one-on-one consultation with one of our Production Safety Specialists, ABB JOKAB SAFETY offers up-to-date Safety Standards Training Seminars to help your organization understand how these ever-changing standards affect your company today and in the future.

ABB JOKAB SAFETY offers you the following solutions:

- Training on industry specific safety standards (ANSI, OSHA, NFPA, CE, ISO, EN, IEC and CSA)
- Risk Assessment training and onsite evaluations
- Stop Time Calculations on machines for correct placement of safety devices
- Assistance in CE machine certification
- Engineered services for safety design to turnkey installations



Pluto Safety PLC



Eden sensor



Light curtains



Safety mats



Emergency rope pulls

Continuous operation and sustainability

The costs associated with downtime in a material handling facility can be very high. If power is lost during sorting, scheduling or picking of material the entire line can be affected. These stoppages can range from several minutes to several hours resulting in expensive manual intervention and possible missed deadlines.

Due to the high cost of downtime, most material handling facilities prefer to use higher performing materials and products to extend equipment life, and preventive maintenance is performed at specific intervals instead of waiting for equipment failure.

ABB JOKAB SAFETY offers you the following solutions:

- Safety PLC's, Relays and Controllers reduce the number of needed components in the panel thus reducing possible points of failure
- Safety Bumpers to allow continued process in the presence of operators
- Safety Locks keep doors securely locked until the process is over and the machine has come to a controlled stop
- E-Stops with visual indicators for quick diagnostics and recovery



Vital controllers



Knox safety lock



Single beams



Safety bumpers



EStrongZ

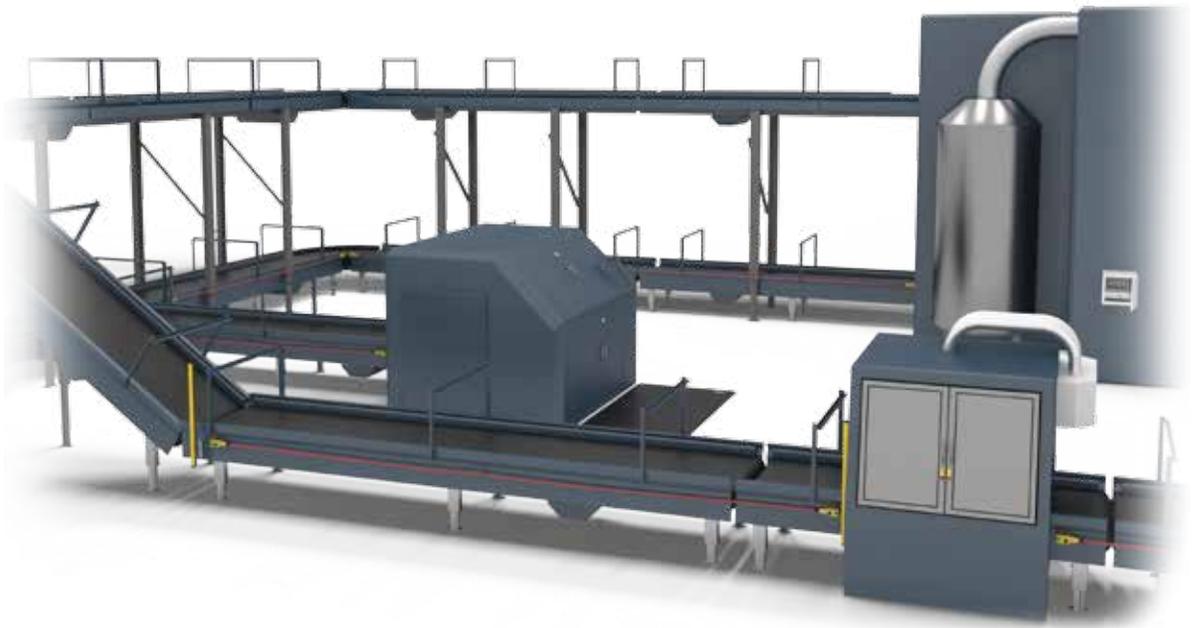
Safety system zoning and modularity

Flexible automation and timely process changes allows the \$125 billion Material Handling & Logistics market to continue to grow and service our increasing consumer demands. To meet the market trends of more broken and mixed case ordering coupled with looming worker shortages, a modular and adaptable approach needs to be implemented into the growing automation designs.

Safety system zoning and modularity allows for integration of transfers, sorters, palletizers, wrappers, etc. to be quickly integrated into a singular system. This integrated system maintains the ability for segmentation as well as individual diagnostics. A complete line does not have to halt due to a local stoppage if the system is designed correctly. Product collectors and re-routing process allow the material to continue to flow while local stoppages are addressed.

ABB JOKAB SAFETY offers you the following solutions:

- Gateways allow for all safety information to be quickly communicated to the operator station HMI
- Enabling devices allow for safe bypassing of safety devices during non-hazardous portions of the machine cycle
- Long range dual head safety emergency rope pull switches with LED indication
- Safety port blocks allow for quick connect of modular safety systems into a singular solution



Gateways



Interlock switches



Enabling devices



Safety edges



Long range rope pulls

Global perspective and support

The increased globalization of the Material Handling Industry continuously introduces new lower cost technologies, automation and material sourcing. This growing competitive landscape coupled with rising material costs, inflation and overcapacity affect operations and profitability for North American based companies.

To compete in this challenging market, a global approach must be utilized when investigating product selection. Products and systems need global approvals to the various safety standards as well as have tight control over manufacturing costs. In addition, products and solution sets need to be supported through a global footprint thus maintaining crucial uptime.

ABB JOKAB SAFETY offers you the following solutions:

- Globally approved safety products with manufacturing locations around the world
- Safety System support in over 45 countries
- Presence and membership to global standards organizations
- Quick delivery of product through thousands of global channel partners



Safety relays



Solenoid switches



Safety fences



Safety position encoders



Smile E-Stops

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