



SAFETY



CONTAINMENT



PRODUCTIVITY

HAZARD CONTAINMENT SOLUTION. by Rite-Hite Machine Guarding

- » **Machine Guarding**
- » **Perimeter Fencing**
- » **Automated Barrier Doors & Curtains**

The General Requirements of All Machines, according to OSHA code 29 CFR 1910.212 (a)(3)(ii), states that the point of operation of machines, whose operation exposes an employee to injury, shall be guarded. The guarding device shall be in conformity with any appropriate standards, therefore, or, in the absence of applicable specific standards, shall be so designed and constructed to prevent the operator from having any part of his body in the danger zone during the operating cycle.

IDENTIFY THE NEED FOR HAZARD CONTAINMENT AND PROTECT YOUR EMPLOYEES

1. Do the safeguards provided meet the minimum OSHA requirements?

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

2. Do the safeguards prevent workers' hands, arms, and other body parts from making contact with dangerous moving parts?

<input type="checkbox"/>	<input type="checkbox"/>
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3. Do the safeguards permit safe, comfortable, and relatively easy operation of the machine?

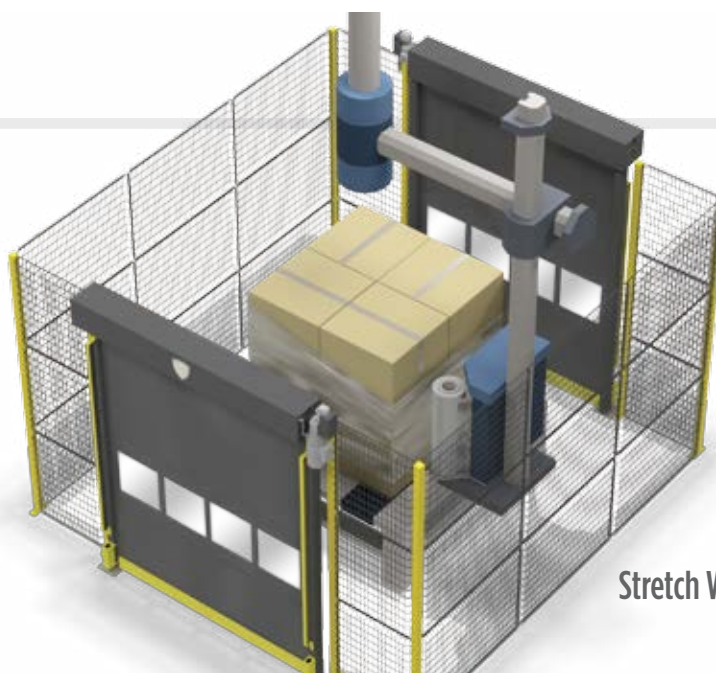
<input type="checkbox"/>	<input type="checkbox"/>
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4. Is there a point-of-operation safeguard provided for the machine?

<input type="checkbox"/>	<input type="checkbox"/>
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5. Are safeguards provided for all hazardous moving parts of the machine including auxiliary parts?

<input type="checkbox"/>	<input type="checkbox"/>
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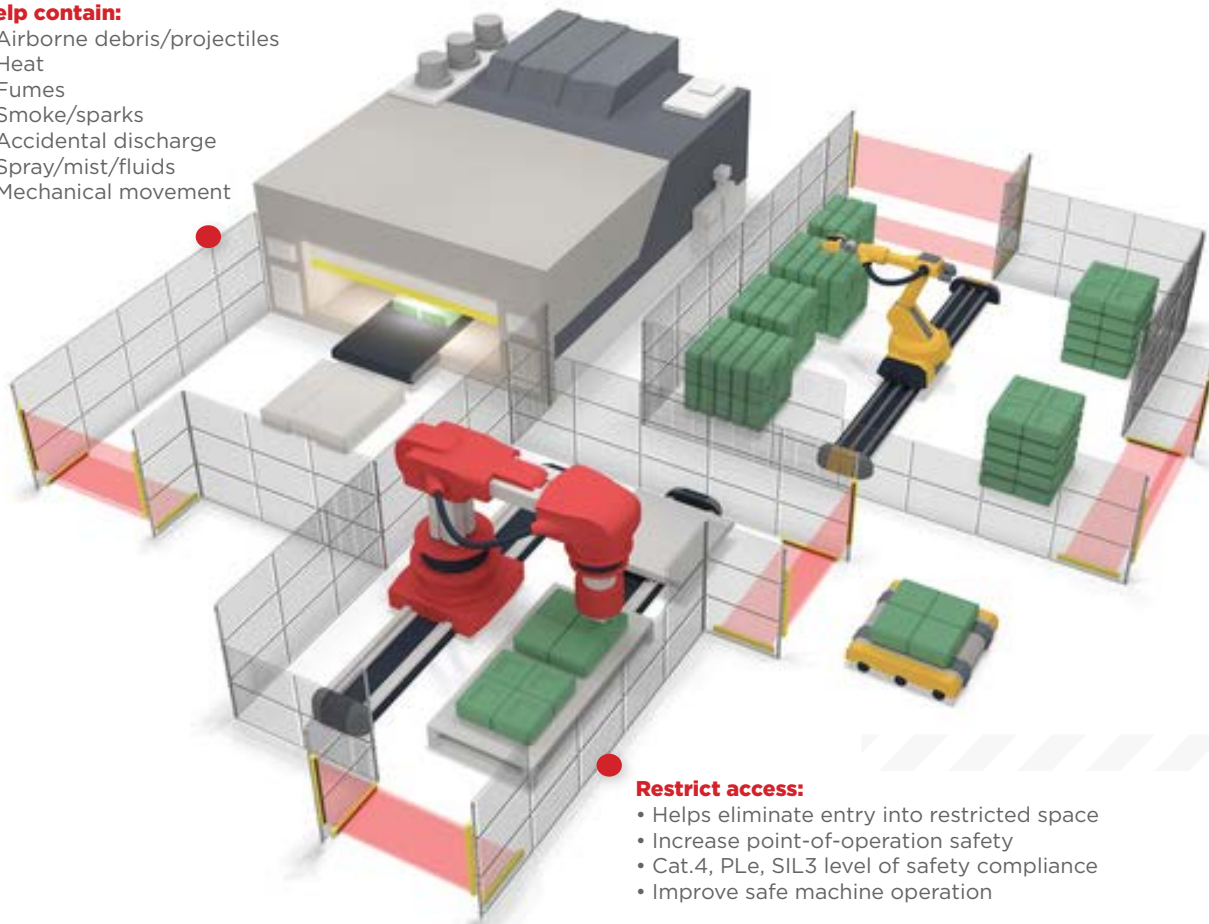


Stretch Wrapping

HAZARDOUS CONDITIONS REQUIRE CONTAINMENT

Help contain:

- Airborne debris/projectiles
- Heat
- Fumes
- Smoke/sparks
- Accidental discharge
- Spray/mist/fluids
- Mechanical movement



Restrict access:

- Helps eliminate entry into restricted space
- Increase point-of-operation safety
- Cat.4, PLe, SIL3 level of safety compliance
- Improve safe machine operation

→ IDENTIFY

Potentially hazardous applications

→ EVALUATE

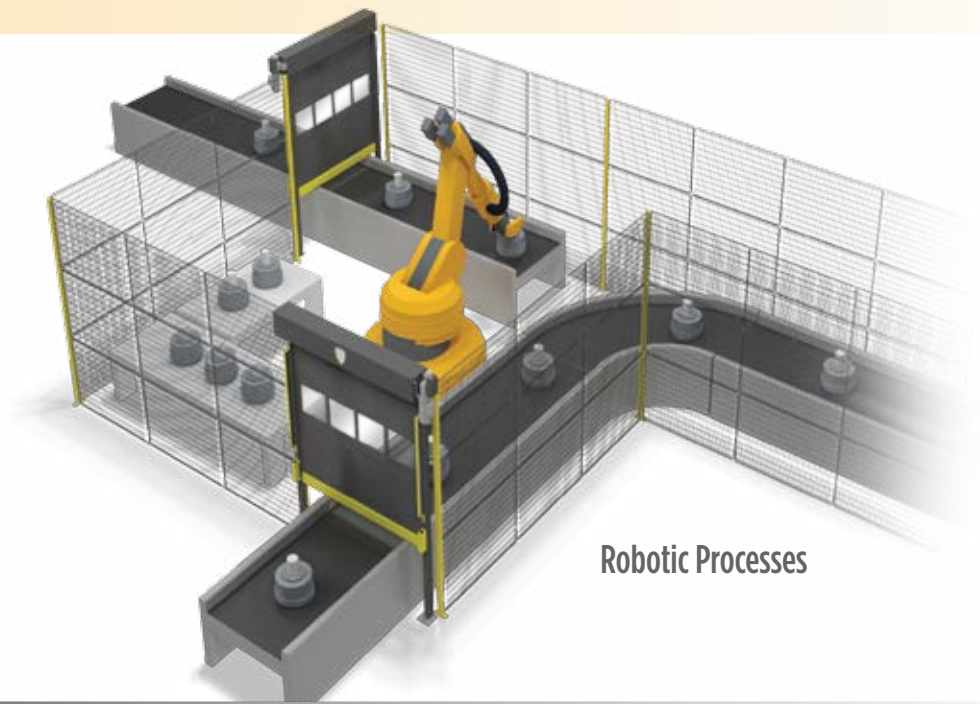
Methods of risk mitigation

→ DETERMINE

The best solutions with the help of your Rite-Hite Safety Professional

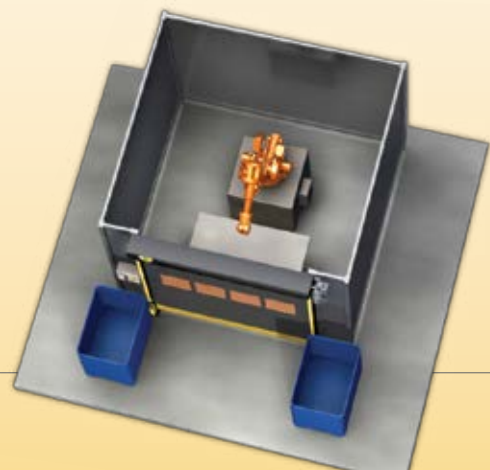
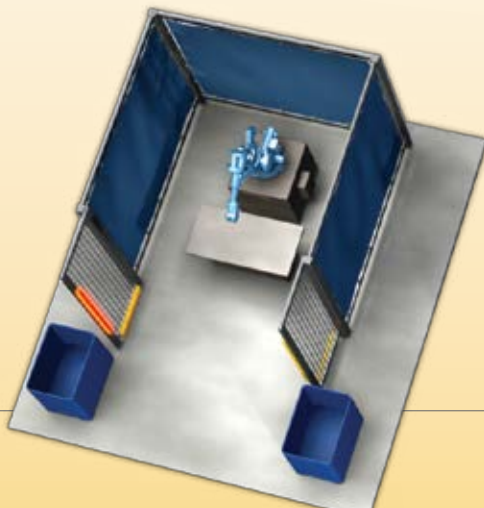
Common applications & processes requiring guarding

- Production Lines
- Cutting Systems
- Conveyor Systems
- Packaging Machinery
- VRCs and AGVs
- Paper and Paper Converting Manufacturing
- Material Handling
- Palletizing Applications
- Stretch Wrap Machines
- Machine Tools for Metals, Wood and Other Material Manufacturing
- Textile Manufacturing
- Ceramics Machines
- Packing Machines
- Plastic Molding Machines
- CNC Routing and Cutting
- Winding and Unwinding Machines
- Transfer Lines
- AS/RS
- Robots and Factory Automation



COMPARISON

LIGHT CURTAIN	DEFENDER™
Requires more space for “safety zone” taking up valuable real estate in your manufacturing facility	Reduces footprint of manufacturing cell by locating closer to hazard
Designed for applications that do not require containment	Helps contain secondary hazards associated with the manufacturing process
Does not protect against secondary process-driven hazards such as discharge, flying debris, etc.	Helps guard employees from secondary process-driven hazards such as discharge, flying debris, etc.
Can be accidentally “tripped” – invisible beams are not seen or easily recognized	Uses non-contact coded signal switches and actuators to monitor safe door position
Potentially creates ergonomic/productivity issues due to walking through “safety zone” space	Increases productivity by locating closer to the process and provides clear visual cue for operator to be on task



FEATURES & BENEFITS

GUARDS & PROTECTS

Guards your machinery and protects your employees

CONTAINS

Contains application driven hazards including airborne debris, heat, fumes, smoke, sparks, accidental discharge, spray/mist/fluids and mechanical movement

REDUCES FOOTPRINT

Reduces footprint of manufacturing cell by locating closer to hazard

INCREASES PRODUCTIVITY

Door provides clear visual that operator should be on task

CUSTOM MANUFACTURED

Manufactured to your exact size requirements

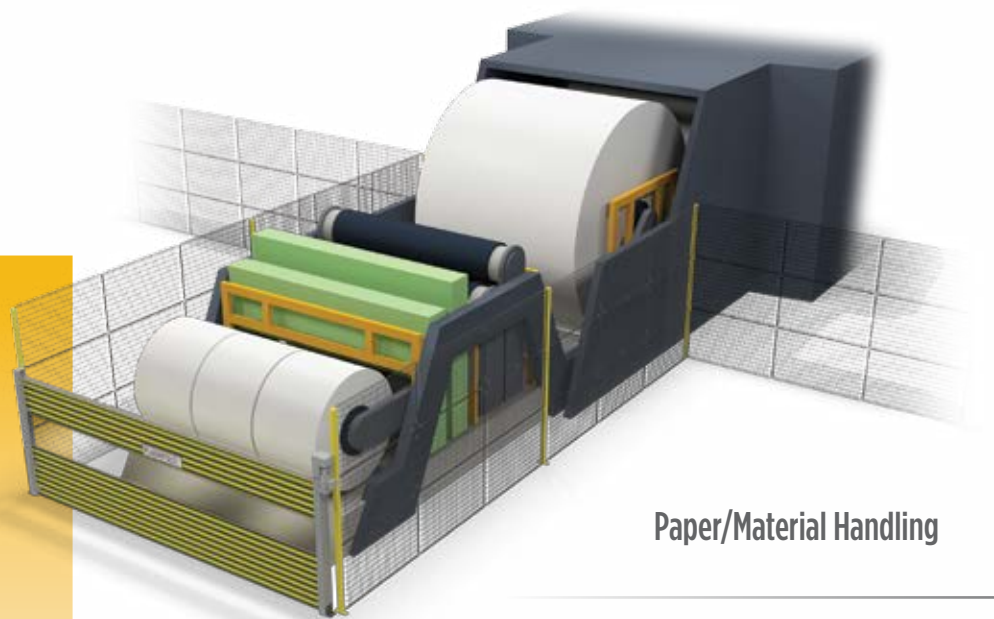
AUTOMATED

Automated to the process to reduce operator fatigue

SWITCHES/CONTROLS

Capable of reaching the following when integrated properly:

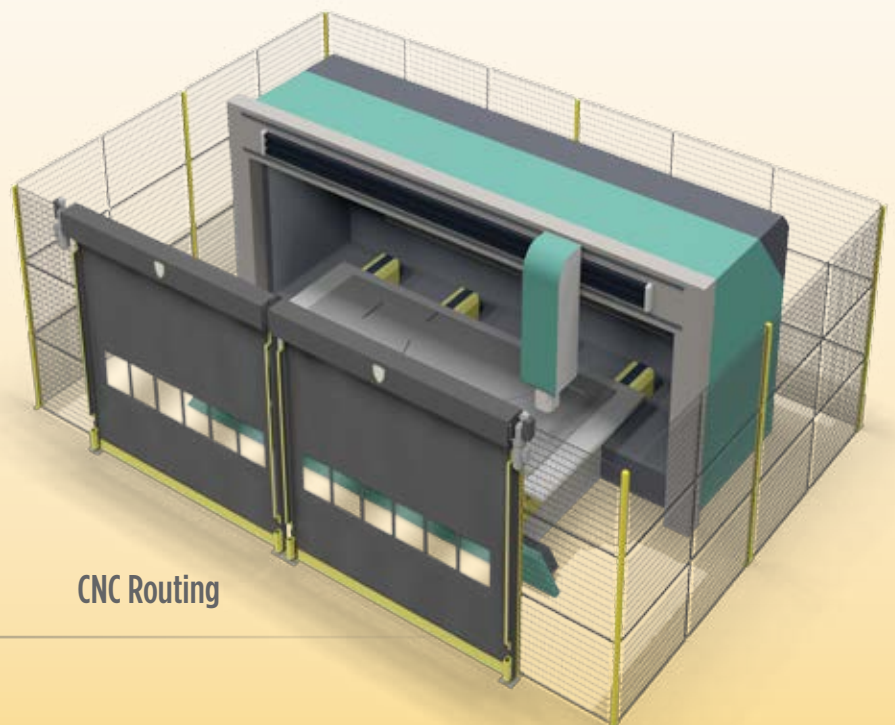
- Cat 4 (EN 954-1)
- PLe (EN/ISO 13849-1)
- SIL 3 (EN 62061)



Paper/Material Handling

See back for more detailed information about Rite-Hite Safety Products guarding solutions.

For the full line of industrial and machine guarding doors visit: www.ritehite.com/machineguarding



CNC Routing

FEATURED PRODUCTS

Defender™

Defender is designed with the latest regulations and most demanding manufacturing processes in mind. By providing for both physical separation and PLe level of safety monitoring, the DEFENDER is visibly safer than other presence sensing devices. Anywhere a machine operator interfaces with a machine, robot or automated process, the Defender is ideal.



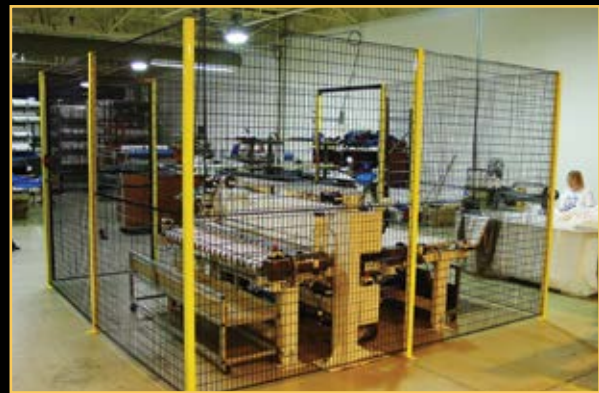
FlashFold™

FlashFold is a unique vertical rising automated barrier door designed for applications where overhead crane or fork lift loading/unloading of the work cell is necessary. It reduces the footprint of the guarding system and provides additional protection from application driven hazards.



RoboGuard™ Fixed Barrier Fencing

The RoboGuard system features eight-gauge welded steel wire panels coupled with sturdy posts and multiple door configurations to restrict access into dangerous work areas. Applications for this safety solution include machine perimeter guarding, conveyor guarding, security enclosures, tool cribs and more. Panels are easily connected to the posts and can be trimmed on-site, making the system easy to install.



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