BELT CONVEYOR GUARDING Proven Safety Guarding Solutions



YOUR GUARDING PROJECT

- Eliminating workplace injuries
- Decreasing fines, citations and costly shutdowns
- Improving your productivity
- Ensuring compliance with OSHA, MSHA and CSA
- Conforming to ANSI B11 requirements
- Extending the life of your equipment





FIXED GUARDING





According to OSHA and MSHA:

Any machine part, function, or process which may cause injury must be safeguarded. When the operation of a machine or accidental contact with it can injure the operator or others in the vicinity, the hazards must be either controlled or eliminated.

A physical barrier (fixed guarding) is a means of physically preventing access to dangerous areas.

It is a requirement by law!



IS YOUR GUARDING COSTING YOU MONEY?

There are some questions in your checklist that should be asked:

- How easy and quick are your guards to be removed and put back in place?
- Does it require additional manpower?
- Was additional equipment, such as forklifts or overhead lifts, required?
- How much time does this add to your unexpected downtime?
- > What does this extra time cost you in lost production?





STATISTICS OF INJURIES DUE TO POOR GUARDING ERGONOMICS

The most common outcomes of poor guarding ergonomics are musculoskeletal disorders (MSDs), Repetitive Strain Injury (RSI), Cumulative Trauma Disorder (CTD) and Repetitive Motion Injury (RMI). MSD is not a medical diagnosis, it is a term used for the group of injuries, such as:

- Back Pain (low back strain, etc.)
- Muscle Strain
- Tendonitis
- Carpal Tunnel Syndrome (CTS)
- Tennis Elbow
- Shoulder Pains





CALCULATE THE COST OF WORKERS' INJURIES





WORKER'S BACK STRAIN INJURY OUTCOMES CALCULATED

Estimated Total Cost The extent to which the employer pays the direct costs depends on the nature of the employer's workers' compensation insurance policy. The employer always pays the indirect costs. Injury Type Instances Direct Cost Indirect Cost Total Cost Additional Sale (Indirect) Additional Sale (Total) Strain 1 \$ 32,959 \$ 36,254 \$ 69,213 \$ 278.883 \$ 532,407 Remove

Totals	
Estimated Direct Costs:	\$ 32,959
Estimated Indirect Costs:	\$ 36,254
Combined Total (Direct and Indirect Costs):	\$ 69,213
Sales To Cover Indirect Costs:	\$ 278,883
Sales To Cover Total Costs:	\$ 532,407



ONE-SIZE-FITS-ALL VS CUSTOMIZED SOLUTIONS



The initial upfront cost of customized guarding is higher, however, it will generate a substantial ROI for your organization over time!



ONE SIZE FITS ALL VS CUSTOMIZED SOLUTIONS

One-Size-Fits-All Solution

- X Often larger than needed to be
- X Most require some field fitting for cut-outs
- X Poor or no visibility inside the guard
- X Time-consuming to remove the guard for maintenance
- X Not all rotating parts are properly covered making the guard non-compliant
- X Guards often not put back on because they are not user-friendly

Custom Made Guards

- ✓ Guards are custom designed for each application
- Guards designed to fit around obstructions
- Good visibility through the guard due to expanded metal and color (black mesh)
- Quick removal allows for easy and fast maintenance
- ✓ All rotating parts are protected ensuring compliance
- Optional accessories like handles and hinges that improve ergonomics
- Workers replace guards because they are userfriendly



GENERAL ERGONOMICS GUIDELINES



- A well designed guard should weigh less than 50 pounds.
- A guard should not require more than one person to remove or install it.
- Putting weight labels on all guards will ultimately reduce injuries.



WEDGE CLAMPS



LOCKING WEDGE CLAMPS



In open position, set screw allows installation or removal of guards Locking Wedge Clamp body shows built in set screw Bird's eye view of set screw tightened, securing the guards in place

PATENTED



INSPECTION DOORS





GUARD HANDLES





GUARD HANGERS





GUARD SEATS









SUMMARY

In summary, even though proper machine guarding is vital for any organization, it is also very important to make sure that guards are ergonomic and maintenance-friendly for the following reasons:

- It will reduce the number of MSD injuries
- The increased ROI will make up for the
 - cost of custom guards
- Faster maintenance and clean-up process
- Guards will always be put back on,
 - ensuring compliance and workers' safety



ONCE YOU HAVE MADE THE DECISION TO GUARD YOUR ROTATING EQUIPMENT - BE SURE TO GUARDSMART.



THANK YOU!





BELT CONVEYOR GUARDING

Proven Safety Guarding Solutions