



Machine Safety Risk Reduction ROI Calculator & Planner

The following is a machine safety risk reduction ROI calculator and planner used to estimate the financial impact of safety improvements and justify machine guarding investments.

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Engineering Your Safety

Use this quick-reference tool to estimate financial impact and justify machine safety improvements.

1. Risk Event (current state):

- Potential incident description:

- Exposure frequency = _____

- Number of employees exposed = _____

2. Cost of a Single Incident:

- Medical costs: \$ _____
- Workers' compensation \$ _____
- OSHA fines: \$ _____
- Downtime / lost production: \$ _____
- Repair / maintenance: \$ _____
- Training replacement labor: \$ _____
- Reputation / customer impact: \$ _____
- Total Incident Cost: \$ _____

3. Likelihood (annually):

- Likelihood (%) = _____

i. High (75%) Medium (30%) Low (10%)

- Annual Risk Exposure = \$ _____

i. Incident cost x % likelihood

4. Risk Reduction Solution:

- Solution description:

- Project cost = \$ _____
- Annual maintenance cost = \$ _____

5. Risk Reduction Effectiveness:

- Estimated reduction (%) = _____
- New annual risk exposure = \$ _____
- Annual risk savings = \$ _____

6. ROI Calculation:

- Payback period (years) = _____
- ROI (%) = _____

7. Priority Planner:

- Priority 1 (Red): Immediate action**
- Priority 2 (Yellow): Planned upgrade**
- Priority 3 (Green): Future improvement**

This matrix is a general guideline and is not intended to serve as a formal, certified, or compliant risk assessment. Use of this document does not ensure compliance with ANSI B11.19, Occupational Safety and Health Administration regulations, or any other safety standards. PowerSafe Automation assumes no liability for the use or misuse of this tool. A detailed risk assessment performed by a qualified professional is required to properly evaluate machine safety risks.

If you are interested in a Guarding Assessment done by PowerSafe Automation, please contact us at 260.993.2828.

Review performed by (Print)

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Date of review

Review performed by (Signature)