



MAC Engineering and Equipment Company, Inc.

- 1) New and improved ways to help reduce paste and paste dust from transferring down the line.
- 2) Tighter enclosures, more attention to ventilation to help keep lead in air to a minimum
- 3) Ways to convey any particles in safe areas and to keep them from getting into the air.





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What is the Goal? **Zero Exposure**

Through:

- ✓ **More detail to exposure areas**
- ✓ **Improved machine design**
- ✓ **Detailed and explicit safety training**
- ✓ **Awareness, from top to bottom**
- ✓ **Make Lead in Air prevention a **PRIORITY!****



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Is Zero Emissions possible?

- ✓ **Not without everyone's help**
- ✓ **Not without a realization that production may suffer**
- ✓ **Not without machine suppliers and manufacturers realizing that costs are going to have to be absorbed by both sides**
- ✓ **Not without a full commitment from the top personal of all companies involved in a transaction (must come during the initial conversations, not after the fact)**



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Can Lead in Air initiatives be adapted to existing equipment?

- ✓ **This is a great idea but not always practical. Many of these new features are built into the frame of new machines making retro-fits much more complicated and expensive.**
- ✓ **Anything added to older machines could potentially effect operation and production. Lots of electrical and safety features, light curtain / beams, as well as ventilated enclosures to assist in controlling dust. These features that are needed to protect the operator make it more challenging for the operators to keep consistent production.**
- ✓ **Ultimately this can be achieved but this will never be as easy as sending something built to fit the specific machine.**



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Wrap-Up:

- ✓ **Zero emissions may or may not be possible, however it is a goal we all need to strive towards**
- ✓ **Achieving Zero emissions (or close to) is going to cost money, time and effort and manufacturers and suppliers must recognize this**
- ✓ **Ignoring the problem will not make it go away, the only way to promote true change is to be proactive!**