



ISRITM

SAFETY GUIDANCE MATERIAL

SAFETY OPERATIONS GUIDANCE

This safety resource was written for the scrap industry by the scrap industry and was developed to assist you in making your scrap operation a safe place for employees, customers, and visitors. This resource covers OSHA requirements that may or may not be applicable to your operation.

MAGNET

DEFINITION: An electromagnetic tool attached to a material handling crane or other lifting device to lift, move, and separate ferrous metal.

Potential Hazards:

- Gravity: falling magnet/falling material
- Electric shock/burns
- Fire
- Magnetic pull
- Cuts during wire repair
- Arc of travel—crane and boom

Guarding/Shielding:

- Leads and connectors must be present and in proper location. Replace if worn.
- Replace connecting boom lift link according to manufacturers specifications and schedule.
- Crane windshield must be adequately protected with expanded metal or impact-resistant material such as Lexan.

Protective Equipment:

Hard hats*

Safety glasses*

Steel toe/steel shank work boots*

Gloves as needed

Respirator as needed

**minimum requirements*

Safety Procedures:

- Lockout/Tagout procedures must be developed, followed, and enforced for equipment maintenance/servicing.
- Designate a no travel zone around crane to protect pedestrians and equipment.
- Fire extinguisher should be in cab or mounted within easy access.
- Inspect magnet daily before use. Repair/replace as needed.
- Do not use magnet to break scrap.
- Store magnets off ground to prevent moisture absorption.



- Always use a 3-point contact to dismount a crane.
- Never swing a load over a person or vehicle.
- Never turn your back on a magnet.
- Operators must be cautious of magnet swing when boomed up and swinging back toward cab, as some booms may allow magnet to travel into cab.
- If so equipped, always use outriggers when operating magnet crane.
- Operators must be cautious of tipping when overloading magnet or booming out too far.
- Remember to cut away from your body when repairing leads.