

Materials Handling

Materials Handling - Choosing Slings

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What types of slings are used to lift loads?

Slings may include:

- [Wire rope slings](#)
- [Fibre rope slings](#)
- [Chain slings](#)
- [Synthetic web slings](#)
- [Metal mesh slings](#)

What should you know or determine before choosing a sling?

Always determine:

- The weight of the load.
- The centre of gravity of the load.
- The best slinging configuration that provides the proper balance for the load and suits the load and slinging method being used.
- The working load limit of the sling.
- The work rated load of the attachments and components of the sling.
- Other physical characteristics of the load (geometry, sharp edges, surface temperature, etc.).

- The environmental conditions (temperature, humidity, presence of corrosive agents).
 - The characteristics of different types of slings.
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What should you know when using any type of sling?

Be sure you know the correct use of the equipment, the slinging procedures, and the sling strength factors to be applied before lifting. Always check the manufacturer's information before using.

All slings (new, altered, modified, or repaired) should be inspected for any defects before use by a competent person before the slings are used in the workplace to make sure they are meet required specifications, not damaged, and will be appropriate for the work being performed. Replace damaged slings or repair only according to manufacturer's recommendations.

Please see the individual documents (as listed above: wire rope, fibre rope, chain, synthetic, metal mesh) for information about:

- How to care for the sling.
 - How to inspect the sling.
 - How to store the sling.
 - When to remove a sling from use.
 - How to use slings.
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