



Below-the-Hook Lifting Devices

Standards for Engineers and Safety Professionals Worldwide

ASME B30.20 – 2013

ASME BTH-1 – 2014

ASME has been defining crane safety since 1916.

ASME B30.20 addresses structural and mechanical lifting devices, vacuum lifting devices, operated close proximity lifting magnets, remotely operated lifting magnets, and scrap and material handling grapples. It offers comprehensive solutions applying to the marking, construction, installation, inspection, testing, maintenance, and operation of equipment used for attaching loads to a hoist.

Key changes to this revision of B30.20 include:

- Adds requirements for personnel competence, operating controls marking and inspection, plus responsibilities for Owners and Operators for each piece of equipment
- Addresses translation of non-English documentation into English
- Revised definitions to align with BTH-1

ASME BTH-1 is the equipment design standard companion to ASME B30.20. Specifically, ASME BTH-1 provides minimum structural and mechanical design and electrical component selection criteria for ASME B30.20 below-the-hook lifting devices.

Key changes to this revision of BTH-1 include:

- Added welding requirements conforming with AWS D14.1/D14.1M & AWS D1.1
- Revised requirements for pressure-gripping and indentation lifters
- Added requirements for fluid pressure control systems
- Created minimum requirements for lifting magnets
- Updated Table 3-5, Fatigue Design Parameters, in its entirety
- Moved the Commentary to a Nonmandatory Appendix

Both of these Safety Standards are to be used in conjunction with equipment described in other volumes of the ASME B30 series of Safety Standards.

Careful application of B30 Safety Standards will help users to comply with applicable regulations within their jurisdictions, while achieving the operational and safety benefits to be gained from the many industry best-practices detailed in these volumes.

Intended for manufacturers, owners, employers, users and others concerned with the specification, buying, maintenance, training and safe use of below-the-hook lifting devices with B30 equipment, plus all potential governing entities

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