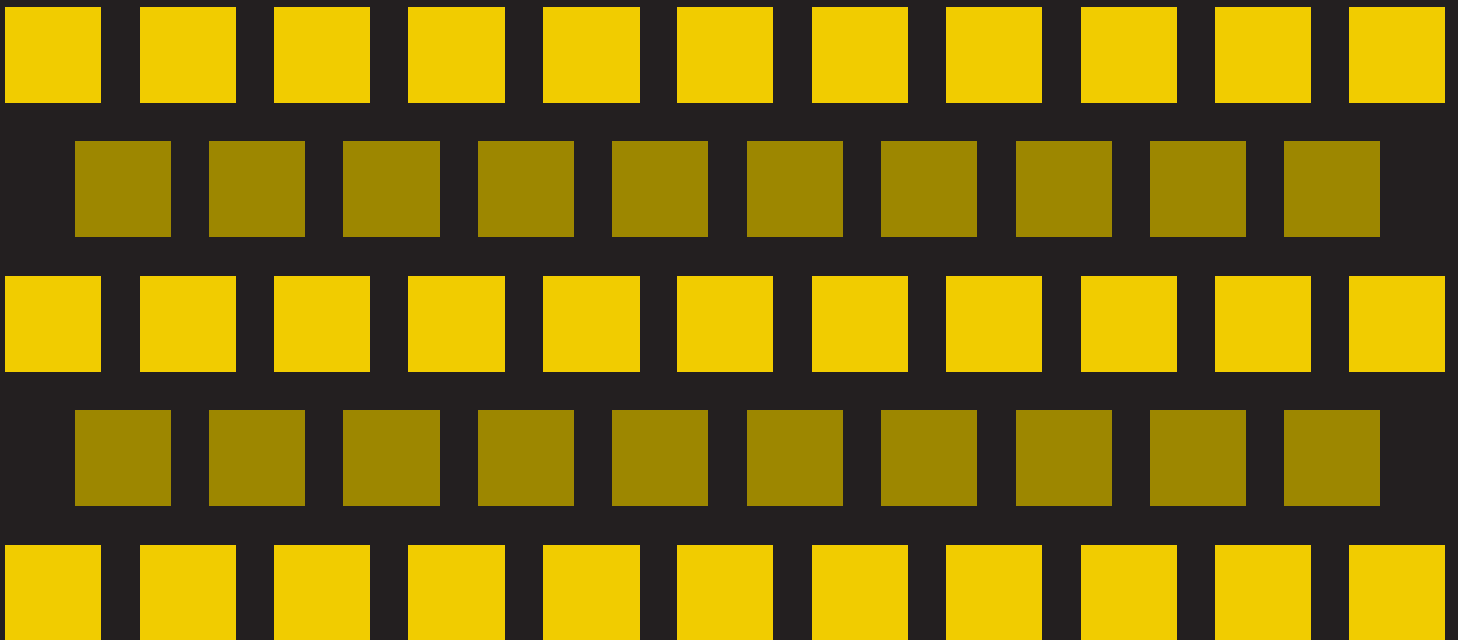


STP-SA-055

GUIDE TO MOBILE CRANE STANDARDS



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FOREWORD

Numerous standards applicable to the design and manufacturing of mobile cranes exist in the United States. Heretofore there have been no published guidance criteria to assist the prospective manufacturer, owner or user of mobile cranes in determining which standards should be invoked for a particular application or facility. ASME Standards Technology, LLC (ASME ST-LLC) produced this guide to mobile crane standards to provide some guidance.

“Guide to Mobile Crane Standards” considers the equipment covered by the following ASME B30 Volumes: B30.5 Mobile and Locomotive Cranes, B30.8 Floating Cranes and Floating Derricks), B30.14 Side Boom Tractors, B30.22 Articulating Boom Cranes, B30.25 Scrap and Material Handlers, B30.29 Self-Erect Tower Cranes, and related equipment. This guide will provide a starting point for the listing of the relevant standards, codes, regulations and guidelines impacting the construction, characteristics, design, inspection, testing, maintenance, operation and safe use of mobile cranes. It will focus on North America but will be global in its scope including the listing of ISO and significant international standards addressing mobile cranes. The prospective owner and user of cranes must comply with all federal, state and local requirements including but not limited to the ones listed in this document.

Established in 1880, the American Society of Mechanical Engineers (ASME) is a professional not-for-profit organization with more than 127,000 members promoting the art, science and practice of mechanical and multidisciplinary engineering and allied sciences. ASME develops codes and standards that enhance public safety, and provides lifelong learning and technical exchange opportunities benefiting the engineering and technology community. ANSI does not itself write standards, but does certify Standards Developing Organizations that meet the due process requirements of the American National Standards Institute (ANSI). Standards that are developed under an accredited program may be designated as American National Standards. Visit www.asme.org for more information.

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ABSTRACT

The purpose of this publication is to provide guidance the users, manufacturers and specifiers of mobile cranes by identifying relevant documents/standards that may be applicable to mobile cranes. This publication identifies U.S. federal, state and local laws, national and industry consensus standards, international standards and other documents written specifically for mobile cranes, or having provisions specific to mobile cranes. Some of the national or industry consensus standards are applicable to nearly all mobile crane applications and are typically invoked by owner specifications. Others apply to unique crane applications and are not necessarily appropriate for commercial or standard industrial cranes.

1 INTRODUCTION

The purpose of this report is to provide guidance to the users, manufacturers and specifiers of mobile cranes by identifying relevant documents/standards that may be applicable to its use. This report identifies U.S. federal, state and local laws, national and industry consensus standards, international standards and other documents written specifically for mobile cranes, or having provisions specific to mobile cranes. Some of the national or industry consensus standards are applicable to nearly all mobile crane applications and are typically invoked by owner specifications. Others apply to unique crane applications and are not necessarily appropriate for commercial or standard industrial cranes.

It is common for one standard to list many others as references, and to invoke specific provisions of the referenced standards. This document does not attempt to cover every standard which may have some application to cranes, or which may become part of a "chain" of references. The intent is to cover the primary crane standards and selected additional standards in an attempt to be helpful to the user and provide a guide for thinking about what types of standards or laws may apply to the manufacture or use of a load handling equipment.

The guidance in this document includes summaries of the provisions of each standard, and when appropriate, recommendations as to when it should be invoked. Note, however, that the determination of standards, codes, regulations and laws applicable to a project and the load handling equipment used is the responsibility of the load handling equipment user.