



MANUAL HANDLING



LIFT WITH YOUR LEGS
KEEP YOUR BACK STRAIGHT
KNOW YOUR LIMITS



ASSESS your task FIRST

ASK: Can you fit your arms over the load? Clear any obstacles from your path and know where obstacles will be in an unclear path.



Position your feet apart

Ensure your legs are shoulder width apart for maximum support. Walk in small steps to maintain shoulder width placement.



TIGHTEN your abs

Using your core abdominal muscles will hold you in the proper lifting position and reduce strain on your spine.

LIFT with your LEGS

Bend at the knees & hips not your back - Your leg muscles are stronger than your back and can withstand greater force. This is known as the Sore Shout Technique (Frog Lift).

Keep your back STRAIGHT

When you keep your back straight (straighten your legs) using the majority of the weight making you less likely to injure your back.



HOLD the object at waist level and close to the body

Your arms and your back are better equipped to lift a heavy object at waist level and closer to your body than at any other height (avoid far from your body).

Avoid lifting overhead or from below knee height

The risk of injury increases when objects are lifted from overhead or below knee height. Avoid carrying objects at these heights when possible.



Don't BEND or TWIST while you are lifting or carrying

Improper bending or twisting could throw you off balance or cause injury.

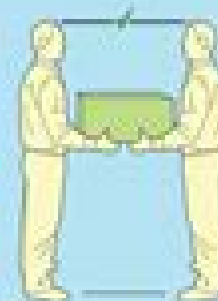


REDUCE the size of the load when possible

When possible reduce the size of the load or object or make smaller but more frequent trips, e.g. stretch a heavy load into smaller sections.

Use lifting aids

When possible use mechanical aids or get help to lift or carry a heavy load whenever possible. Options include: strapping, conveyor belts, trolleys, cranes or forklifts.



Two person lifts

When lifting with two or more people ALWAYS ensure people of same size and strength for manual handling tasks.

LIMIT

KNOW your limits!

Ask for help. If you cannot lift an object, don't. Even if the object is not heavy, if it is extremely large or unstable, it can be difficult to lift. It is better to ask and ask for assistance than to try and lift something that could potentially cause injury.

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Manual And Material Handling

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Engineering**



Manual And Material Handling:

Guide to Manual Materials Handling A. Mital, 2017-10-19 Manual Materials Handling MMH creates special problems for many different workers worldwide Labourers engaged in jobs which require extensive lifting lowering carrying and pushing pulling of heavy materials have suffered increasing rates of musculo skeletal injury especially to the back This guide is intended to include all activities involved in MMH lifting pushing pulling carrying and holding Recommendations are provided in the form of design data that can be used to design different MMH work activities The guide is divided into two parts Part I outlines the scope of the problem discusses the factors that influence a person s capacity to perform MMH activities and or should be modified to reduce the risk of injuries and reviews the various design approaches to solving the MMH problem Part II provides specific design data in six distinct chapters The seventh chapter of Part II of the guide describes various mechanical devices that are available to aid MMH activities The guide is aimed at all concerned with the health impact of MMH activities occupational health and safety workers senior human resource managers ergonomists workers compensation lawyers union representatives

Manual Materials Handling M M Ayoub, 2020-11-25 This book highlights the problems and hazards of manual materials handling and provides ergonomic and engineering solutions for alleviating them It is helpful for both researchers and practitioners who are committed to solving the multifaceted manual materials handling problem

Materials Handling Handbook Raymond A. Kulweic, 1991-01-16 Sponsored jointly by the American Society of Mechanical Engineers and International Material Management Society this single source reference is designed to meet today s need for updated technical information on planning installing and operating materials handling systems It not only classifies and describes the standard types of materials handling equipment but also analyzes the engineering specifications and compares the operating capabilities of each type Over one hundred professionals in various areas of materials handling present efficient methods procedures and systems that have significantly reduced both manufacturing and distribution costs

Manual Material Handling K. H. Kroemer, J. D. McGlothlin, T. G. Bobick, 1989-01-01

Safety in Manual Materials Handling, 1978 The problem of injuries from manual materials handling in industry has shown little improvement over many years the injuries account for 20% to 30% of all injuries in many countries During 1974 a NIOSH committee produced a report CDC 99 74 118 Herrin Chaffin and Mach outlining future research needs in this area These research needs were only able to be prioritized in a relatively simple manner at the time Following this report the need was felt for a mechanism to obtain national and international input to help shape NIOSH research policy in the field of Manual Materials Handling Safety The mechanism chosen to obtain this input was an International Symposium Safety in Manual Materials Handling which was held at the State University of New York at Buffalo in July 1976 The objectives of the symposium and of this book reporting its findings were two fold to present a logical and consistent framework for summarizing current knowledge in the field to utilize the expertise of the international community to prioritize

future research by NIOSH within the context of research proceeding in other countries These objectives were accomplished by inviting respected members of the research and safety communities to review parts of the field thus presenting current knowledge in a coherent manner Twenty four papers were presented These began with an overview of the needs of NIOSH proceeded through a review of the sub systems of the body stressed in these tasks continued with numerical models of human performance and safety reviewed the factors that can affect performance and ended with problems of implementation of research In addition to the speakers other prominent figures in the field were invited to chair sessions and lead workshops A number of industries also sent representatives The research areas above are presented as chapters in this book with a final chapter summarizing the results of three goal oriented workshops that took place on the final day of the symposium The findings of these workshops are summarized in the final recommendations It is recommended that any future safety standard must include as a minimum the weight size and position of the load handled and its frequency of handling as well as indicate which loads need preplacement testing of workers Future research needs are for improved diagnosis reporting and job description procedures new epidemiological studies to determine the effect of particular factors and studies to enable the effectiveness of any proposed standard to be estimated

Manual Materials Handling

Waldemar Karwowski, M. M. Ayoub, 1992

Materials-handling Equipment, a Modern Manual

Matthew W Potts, 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Bulk Materials Handling Handbook Jacob Fruchtbaum, 2013-11-11 The handling of bulk materials is a continuously completed projects Much of the nomenclature has been changing science Since very few schools teach the handling of bulk materials it is necessary for practicing engineers to develop their own training manuals Publication of the material contained herein is not in any way an abbreviated version of a manual used for that purpose by the author publisher editors or any other person or firm present in our office and developed over a period of more than 50 years named herein that it is suitable for any particular use or than 50 years While some industrial firms follow their free from infringement of any patent or patents own practices the trend in the past few years has been The text is intended as a guide When used for any to adopt the standards of equipment manufacturers as specific project a competent professional engineer societies and similar organizations The selection of should be retained to verify the assumptions

applicability of material and the use of drawings instead of photographs, bility calculations and accuracy of the particular design is based on our experience sign

Ergonomic Guidelines for Manual Material Handling Centers for Disease Control and Prevention, 2013-10-18 This booklet is written for managers and supervisors in industries that involve the manual handling of containers. It offers suggestions to improve the handling of rectangular, square and cylindrical containers, sacks and bags. Improving Manual Material Handling in Your Workplace lists the benefits of improving your work tasks. It also contains information on risk factors, types of ergonomic improvements and effective training and sets out a four step proactive action plan. The plan helps you identify problems, set priorities, make changes and follow up.

Materials Handling Theodore Henry Allegri, 1984

Ergonomic Design for Material Handling Systems Karl H.E. Kroemer, 2017-12-01 The ergonomics focus is on how to design work tasks, tools and environments to fit the capabilities and limitations of people. Ergonomic Design for Material Handling Systems describes how ergonomics can be applied specifically to load handling both in the original design of systems and in their modification to make jobs easier and safer. Proven techniques such as flow charting or job analysis are combined with new considerations such as biomechanics and repetitive trauma to optimize facility work station equipment and job procedures. Ergonomic Design for Material Handling Systems shows how ergonomics overlaps and intertwines with traditional engineering and management, uniting them to produce ease and efficiency in material handling. This book demonstrates how to lay out facilities in order to achieve the most efficient and safe design. It tells how to organize tasks, machinery, people and materials to improve work flow and humanize your workplaces. Consideration of human needs and abilities contributes essentially to successful performance, let this practical book be your guide.

Ergonomic Guidelines for Manual Material Handling Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute Safety and Health, 2014-04-22 Manual material handling (MMH) work contributes to a large percentage of the over half a million cases of musculoskeletal disorders reported annually in the United States. Musculoskeletal disorders often involve strains and sprains to the lower back, shoulders and upper limbs. They can result in protracted pain, disability, medical treatment and financial stress for those afflicted with them, and employers often find themselves paying the bill, either directly or through workers compensation insurance. At the same time they must cope with the loss of the full capacity of their workers. Scientific evidence shows that effective ergonomic interventions can lower the physical demands of MMH work tasks, thereby lowering the incidence and severity of the musculoskeletal injuries they can cause. Their potential for reducing injury related costs alone makes ergonomic interventions a useful tool for improving a company's productivity, product quality and overall business competitiveness. But very often productivity gets an additional and solid shot in the arm when managers and workers take a fresh look at how best to use energy, equipment and exertion to get the job done in the most efficient, effective and effortless way possible. Planning that applies these principles can result in big wins for all concerned. This booklet will help you to recognize high risk MMH work tasks and choose effective options for

reducing their physical demands Illustrated inside you will find approaches like Eliminating lifting from the floor and using simple transport devices like carts or dollies Using lift assist devices like scissors lift tables or load levelers Using more sophisticated equipment like powered stackers hoists cranes or vacuum assist devices Guiding your choice of equipment by analyzing and redesigning work stations and workflow *A Manual Material Handling Guide for Supervisors* Paul Schwartz,1992 *Material Handling Systems* Charles Reese,2000-05-11 This book points out the safety and health concerns as well as the regulatory requirements for safe material handling Many material handling venues are discussed from cranes to industrial robots This diverse approach to material handling safety will be of interest to those who are responsible for safety or having material handling as a major component of their operation **Comprehensive Manual Material Handling Limits for Lowering, Pushing, Pulling and Carrying** Christin Rauche Shoaf,1994 **Material Handling Manual** Victor Matthew Tamashunas,Iowa State University. College of Engineering,1986 Materials Handling and Storage ,1985 Storage and Materials Handling Handbook United States. Navy Department. Bureau of Supplies and Accounts,1956 Handbook of Material Handling with Industrial Trucks Electric Industrial Truck Association,1950
 Manual of Materials Handling Turret Group PLC,1973

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Table of Contents Manual And Material Handling

1. Understanding the eBook Manual And Material Handling
 - The Rise of Digital Reading Manual And Material Handling
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual And Material Handling
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual And Material Handling
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual And Material Handling
 - Personalized Recommendations

- Manual And Material Handling User Reviews and Ratings
- Manual And Material Handling and Bestseller Lists
- 5. Accessing Manual And Material Handling Free and Paid eBooks
 - Manual And Material Handling Public Domain eBooks
 - Manual And Material Handling eBook Subscription Services
 - Manual And Material Handling Budget-Friendly Options
- 6. Navigating Manual And Material Handling eBook Formats
 - ePub, PDF, MOBI, and More
 - Manual And Material Handling Compatibility with Devices
 - Manual And Material Handling Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual And Material Handling
 - Highlighting and Note-Taking Manual And Material Handling
 - Interactive Elements Manual And Material Handling
- 8. Staying Engaged with Manual And Material Handling
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual And Material Handling
- 9. Balancing eBooks and Physical Books Manual And Material Handling
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual And Material Handling
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Manual And Material Handling
 - Setting Reading Goals Manual And Material Handling
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual And Material Handling
 - Fact-Checking eBook Content of Manual And Material Handling

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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