

## WORKING LOAD LIMIT

The maximum force that you should load is determined by the working load limit (WLL). The WLL incorporates a safety factor (SF). The SF provides additional margin of safety. The design factor (DF) is the ratio of the breaking strength to the WLL.

Let's calculate the WLL of a chain or rig when SF = 5.

Note: Section 172 (1) (a) of the Construction Regulation states that the SF shall be greater than or equal to 5.

WLL = 1000 pounds (rated capacity) ÷ 5 (SF)  
WLL = 200 pounds

In this example, the chain or rig when loaded to 200 pounds is in compliance with the Construction Regulation.

## Fibre Rope Selection

Select the size and type of rope to use based on the degree of risk, the load, and proper multiplying the working load (WLL) by the SF.

The manufacturer's SF provides a level of safety. The SF is greater than the SF of all requirements of users and regulations. Together, they provide the total SF for the rope.

- wear, broken fibres, broken
- symptoms in construction
- shock loads
- some deterioration in load
- reduction in strength caused
- corrosion or chemical damage
- knots weakened or ground

If you notice rope that is defective or damaged, do not use it.

Let's calculate the WLL of a rope to lift a 100 lb. load.

Note: Section 172 (1) (a) of the Construction Regulation states that the SF shall be greater than or equal to 5.

WLL = 100 pounds (rated capacity) ÷ 5 (SF)  
WLL = 20 pounds

In this example, to meet the WLL, you must use a rope with a breaking strength of at least 100 pounds.

Similar to synthetic slings, you should only use a rope by attaching a strong, rated stop.

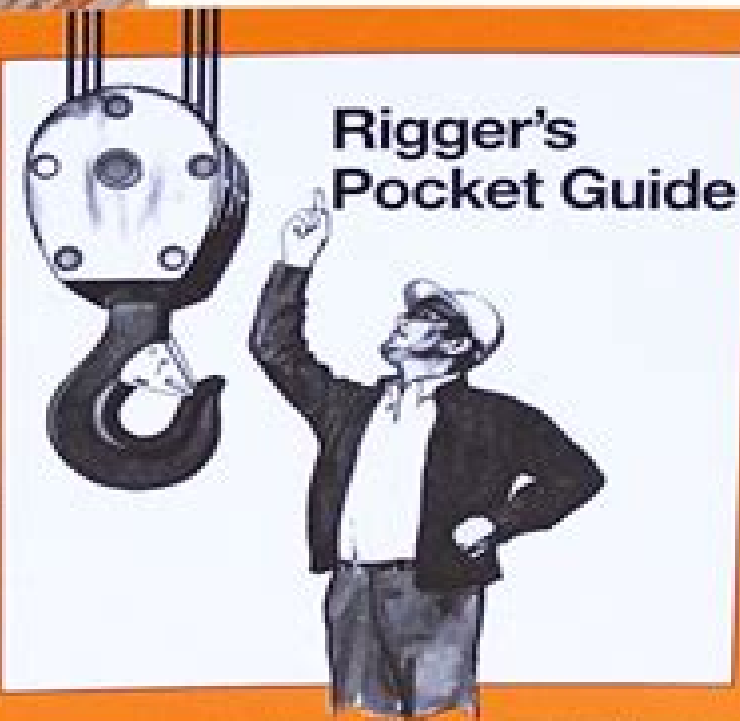
## SHACKLES

Shackle size nominal	WLL tons of 2000 lbs	Use with Steel-Loop Sling size inch	Pin dia. B inch	A inch	E inch	C inch
3/8	1.0	5/16	.44	.66	1.03	1.44
7/16	1.5	3/8	.50	.75	1.16	1.66
1/2	2.0	7/16	.63	.91	1.31	1.88
5/8	3.25	1/2	.75	1.08	1.66	2.38
3/4	4.75	5/8	.88	1.25	2.00	2.81
7/8	6.5	3/4	1.00	1.44	2.25	3.21
1	8.5	7/8	1.13	1.66	2.66	3.75
1-1/8	11.0	1	1.25	1.81	2.91	4.25
1-1/4	13.5	1-1/8	1.38	2.00	3.25	4.69
1-3/8	16.0	1-1/4	1.50	2.25	3.63	5.25
1-1/2	19.0	1-3/8	1.63	2.38	3.88	5.75
1-3/4	22.0	1-1/2	1.75	2.66	4.25	6.25
2	26.0	2	2.00	3.00	4.75	7.00
2-1/2	33.0	2-1/2	2.25	3.25	5.00	7.50
3	40.0	3	2.50	3.50	5.50	8.00

## Shackles for Synthetic Slings

Shackle size nominal	WLL tons of 2000 lbs	Fits up to Synthetic Sling	Fits up to Synthetic Sling	Pin dia. B inch	A inch	C inch
3/8	1.0	600	1	.75	.66	1.38
7/16	1.5	1200	1.5	.88	1.25	1.75
1/2	2.0	1700	2	1.00	1.38	2.21
5/8	3.25	2600	3	1.25	1.66	3.21
3/4	4.75	3900	4	1.50	2.12	4.50
7/8	6.5	5200	5	1.75	2.50	5.50
1	8.5	6500	6	2.00	2.88	6.50
1-1/8	11.0	7800	7	2.25	3.25	7.50
1-1/4	13.5	9100	8	2.50	3.63	8.50
1-3/8	16.0	10400	9	2.75	4.00	9.50
1-1/2	19.0	11700	10	3.00	4.38	10.50
1-3/4	22.0	13000	11	3.25	4.75	11.50
2	26.0	15600	12	3.50	5.13	12.50
2-1/2	33.0	19500	15	4.25	6.25	15.50
3	40.0	23400	18	5.00	7.50	18.50

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More information is included in the *Hoisting and Rigging Safety Manual* and the *Hoisting and Rigging – Basic Safety Training* course available from **Infrastructure Health and Safety Association**  
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# Riggers Pocket Guide

**Hal Lomax**



## **Riggers Pocket Guide:**

**Rigging Pocket Guide** Jerry Klinke, 2007-03-01

**The Pocket Guide to Outdoor Knots** Geoffrey

Budworth, 2020-02-18 The Pocket Guide to Outdoor Knots provides easy to follow step by step diagrams and instructions for tying over eighty knots Over 300 full color illustrations and photographs guide the reader through the stages of tying each knot correctly This beautifully illustrated full color guide unties the mysteries of dozens of knots Using incredibly clear photographs and diagrams as well as straightforward easy to follow instructions any reader can master knots for fishing boating camping and climbing Climbers will feel safer knowing they have tied the perfect Water or Tape knot Fishermen will fight big fish with more confidence There are overhand knots figure eight knots bowlines and sheet bends crossing knots and more There is even fascinating knot lore Whether for practical use or just for fun this is a great place to start knotting so grab a piece of rope sit back and enjoy

*Commercial Diver Training Manual, 6th Edition* Hal Lomax, 2016-08-01 Updates in the 6th Edition Comprehensive rewrite can be used as stand alone reference Extensive index Easy to read formatting Color photos tables figures added Colorful book cover ABOUT THE BOOK The 6th Edition of the Commercial Diver Training Manual represents an almost total rewrite Where previous editions were designed to be utilized in conjunction either with the NOAA Diving Manual or the U S Navy Diving Manual the 6th Edition has been written as a stand alone work that covers history physics physiology diving medicine and first aid in addition to those chapters devoted to diving technique diving equipment and working underwater This manual is presented with the understanding that fully qualified instructors experienced in underwater work will provide any further explanation required by the reader At the same time the intent was to provide a manual to enhance both the theoretical and the practical training of the diver with a view to providing graduates that are more knowledgeable and well informed in their chosen trade performing their assigned tasks in a safe and productive manner To that end this manual strives to present the following Diving physics in a clear concise manner The latest theory and procedure in physiology and diving medicine The latest in practice and procedure both inland and offshore The most commonly used diving and support equipment accepted for use in today s industry While it is understood it would require several volumes to address every conceivable task performed on every type of underwater project employing commercial divers this manual endeavors to cover the most commonly performed tasks and the most common underwater operations By presenting these more common projects and tasks in detail it is hoped the reader will be better informed and better prepared for a career underwater In addition by further illustrating both technique and safety concerns with case studies and personal accounts from the author s career the manual shows the reader these are more than just words being presented suggestions help the reader become more proficient and safety guidelines keep the reader from injury or death

The Pocket Guide to California; a Sea and Land Route Book ... To which is Added the Goldhunter's Memorandum and Pocket Directory J. Ely SHERWOOD, 1849

**Pocket Guide to Knots** Lindsey Philpott, 2019-10-01 Knots can be used for a

variety of applications and knowing which one to tie and how to tie it correctly is an invaluable skill for anyone involved in sailing climbing or other outdoor activities Pocket Guide to Knots provides comprehensive instructions for tying more than 100 popular knots commonly used in climbing hiking boating camping and fishing An introductory section outlines the basics of rope construction the many different types of ropes and cordage as well as their maintenance and care and also delves into the interesting history of knots and knot tying The chapters are arranged by family for easy identification each knot featuring detailed tying instructions and step by step photography in full colour as well as tips and lore important advice on strength and security and a quick reference system that indicates suitable applications Parachute Rigger Handbook (Change 1) FAA-H-8083-17A Federal Aviation Administration,2018-09-15 The handbook contains information on regulations and human factors design and construction materials operations inspection and packing hand tools sewing machines the parachute loft repairs alterations and manufacture This handbook conforms to training and certification concepts established by the Federal Aviation Administration FAA There are different ways of teaching as well as performing specific rigging procedures and many variations in the explanations of repairs alterations and manufacture of parachutes The discussion and explanations reflect commonly used practices and principles This handbook provides a basic knowledge that can serve as a foundation on which to build further knowledge Occasionally the word must or similar language is used where the desired action is deemed critical The use of such language is not intended to add to interpret Hawaii Pocket Guide Berlitz Guides,1994-02 **Faust's Pocket Directory, Map And Guide of San Francisco** ,1890 **A Practical Treatise on Mill-gearing, Wheels, Shafts, Riggers...** Thomas Box,1877 *Lawyers Desk Reference* ,2001 **A Practical Treatise on Mill-gearing, Wheels, Shafts, Riggers, Etc., for the Use of Engineers** Thomas Box,1888 **Rigging Equipment: Maintenance and Safety Inspection Manual** Joseph MacDonald,2010-10-05 Safely maintain and operate rigging equipment Rigging Equipment Maintenance and Safety Inspection Manual is a must have for rigging contractors facility managers and equipment operators Featuring regulations standards guidelines and recommendations applicable to critical lifts this practical guide provides maintenance and safety inspection checklists for rigging equipment components and systems and addresses the required training planning and documentation The safe rigging practices recommended in this book are framed in general terms to accommodate the many variations in rigging practices Coverage includes Operating rules rigging hazards OSHA regulations consensus standards and industry guidelines Operator qualifications safe operating practices and operating procedures Planning and preparation before performing rigging Lifting and hoisting equipment and rigging and scaffolding systems Ladders stairways ramps hand and power tools and electrical systems Maintenance schedules care and safe operation of equipment Inspection checklists for rigging equipment before during and after use Testing certification and registration of rigging equipment Preventive maintenance recordkeeping based on equipment manufacturer s recommendations Proper use of personal safety and protective equipment *The Economic Fact-book and*

*Free-traders' Guide* Richard Rogers Bowker, 1885      The Reference Catalogue of Current Literature , 1906      **TCI** , 1998  
**Rigging Handbook** Jerry A. Klinke, 1995      **The International Operating Engineer** , 1961      **On Scene** , 1974  
**Confined Space Entry and Emergency Response** D. Alan Veasey, Lisa Craft McCormick, Barbara M. Hilyer, Kenneth W. Oldfield, Sam Hansen, Theodore H. Krayner, 2005-12-02

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*Bulletin of the American Institute of Mining Engineers* , 1918

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