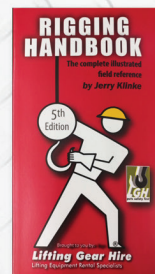




Lifting Gear Hire

Lifting Equipment Rental Specialists



**FIRST 200 ENTRIES AT
LGH-USA.COM/DONERIGHT
RECEIVE A FREE RIGGING HANDBOOK**

GEAR. DONE RIGHT.

You don't go to a generalist when you need a specialist.

(800) 878-7305 www.RentLGH.com/BIC Rentals@RentLGH.com

Gear Done Right Reduces Downtime.

Lifting Gear Hire has the application and technical know-how to aid you in selecting the gear you need from the planning process to project completion to get the job done right, on time, the first time. With the ability to customize each solution to best fit your needs, LGH offers custom heights of lift for each hoist to keep your job moving forward and your crew doing what they do best, not waiting around for equipment to arrive that works properly. **We get it – you have a big job, limited resources and need a specialist on call. That's who we are; at LGH, hoisting and rigging rental gear is what we do.**

PARTIAL LIST OF RENTAL GEAR:

LEVER HOISTS/ COME-A-LONGS



Capacities:
(tons)
3/4 - 9

Qty. in Rental:
4,500 +

SHACKLES



Capacities:
(tons)
2 - 500

Qty. in Rental:
8,000 +

SHEAVE BLOCKS



Capacities:
(tons)
2 - 150

Qty. in Rental:
1,850 +

AIR CHAIN HOISTS



Capacities:
(tons)
1/2 - 60

Qty. in Rental:
2,800 +

MAN BASKETS



Capacities:
(lbs)
500 - 1,000

Qty. in Rental:
50 +

GANTRIES



Capacities:
(tons)
2 - 10

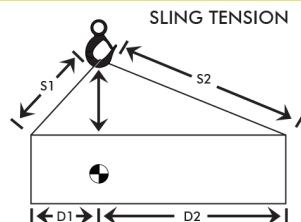
Qty. in Rental: 220 + (Steel)
225 + (Alum.)

- Reps that understand the gear they rent, ensuring that any questions can be handled quickly.
- Know that your gear is up to the task and will keep your project moving forward.
- The largest inventory of specialized gear for any job available on site within 24 hours.
- Shave cost from your project, not the safety and reliability of the gear you're using.
- Custom heights of lift to accommodate any job requirement, letting you focus on what matters most.
- We anticipate problems so you don't have them. You have enough to worry about.

RIGGING HARDWARE

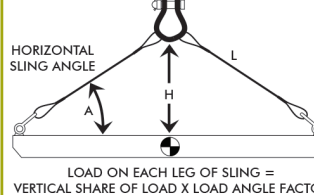
SLING TENSION & LOAD ANGLES

HORIZONTAL SLING ANGLES OF LESS THAN 30 DEGREES ARE NOT RECOMMENDED. REFER TO ANSI B30.9 FOR FULL INFORMATION.

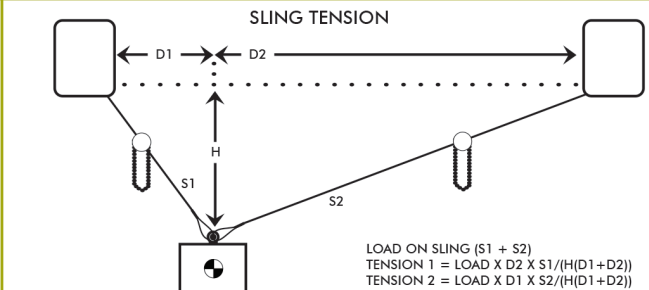


LOAD ON SLING (S1 + S2)
TENSION 1 = $\text{LOAD} \times D2 \times S1 / (H(D1 + D2))$
TENSION 2 = $\text{LOAD} \times D1 \times S2 / (H(D1 + D2))$

LOAD ANGLE FACTORS

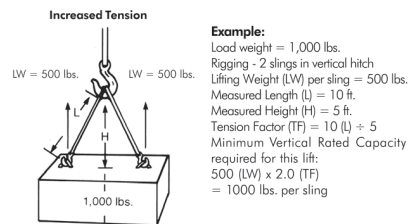


HORIZONTAL SLING ANGLE (A) DEGREE	LOAD ANGLE FACTOR = L/H
90	1.000
60	1.155
50	1.305
45	1.414
30	2.000



LOAD ON SLING (S1 + S2)
TENSION 1 = $\text{LOAD} \times D2 \times S1 / (H(D1 + D2))$
TENSION 2 = $\text{LOAD} \times D1 \times S2 / (H(D1 + D2))$

SLING - LOAD FACTORS



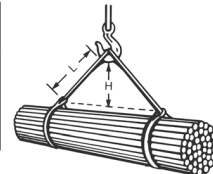
Example:
Load weight = 1,000 lbs.
Rigging - 2 slings in vertical hitch
Lifting Weight (LW) per sling = 500 lbs.
Measured Length (L) = 10 ft.
Measured Height (H) = 5 ft.
Tension Factor (TF) = $10 (L) \div 5 (H) = 2$
Minimum Vertical Rated Capacity required for this lift:
 $500 (LW) \times 2.0 (TF) = 1000 \text{ lbs. per sling}$

Effect of Angle Chart

Tension Factor (TF)	Angle From Horizontal	Reduction Factor (RF)
1.000	90°	1.000
1.155	60°	0.866
1.414	45°	0.707
2.000	30°	0.500

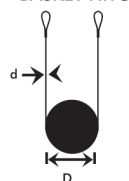
Sling capacity decreases as the angle from horizontal decreases. Sling angles of less than 30° are not recommended.

Reduced Capacity



Example:
Vertical Choker rating of each sling = 6,000 lbs.
Measured Length (L) = 6 ft.
Measured Height (H) = 4 ft.
Reduction Factor (RF) = $4 (H) \div 6 (L) = .667$
Reduced sling rating in this configuration = $.667 (RF) \times 6,000 \text{ lbs.} = 4,000 \text{ lbs. of lifting capacity per sling}$

BASKET HITCH



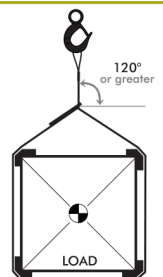
A BASKET HITCH HAS TWICE THE CAPACITY OF A SINGLE LEG ONLY IF D/D RATIO IS 25/1 AND THE LEGS ARE VERTICAL.

BASKET HITCH


ANGLE (A)	CAPACITY % OF SINGLE LEG
90	200%
60	170%
45	140%
30	100%

CHOKER HITCH

A CHOKER HITCH HAS 75% OF THE CAPACITY OF A SINGLE LEG WHEN THE CORNERS ARE PROTECTED AND THE ANGLE OF THE CHOKE IS GREATER THAN 120°



POWERED BEAM TROLLEYS



Capacities:
(tons)
1 - 50

Qty. in Rental:
3,800 +


CHIMBRO / GIRDER CLAMPS



Capacities:
(tons)
1 - 50

Qty. in Rental:
3,800 +

MAXIAL TRACK HOISTS



Capacity:
450 lbs

Qty. in Rental:
50 +


MACHINE SKATES



Capacities: (tons)
24 - 1,000

Qty. in Rental: 1,600 +

LIFTING BEAMS



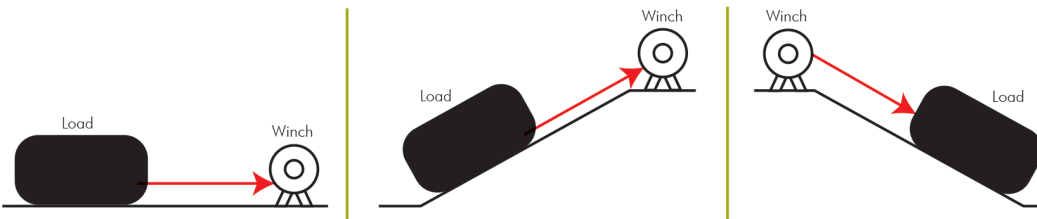
Capacities:
(tons)
4 - 40

Qty. in Rental: 80 +

LEGEND

W – Weight of load F – Force required to move load R – Run, horizontal distance in feet
CF – Coefficient of friction H – Height in feet L – Length of ramp in feet

LEVEL & INCLINE PLANES



Level: $CF \times W = F$

Uphill: $[CF \times W \times (R/L)] + [(H/L) \times W] = F$

Downhill: $[CF \times W \times (R/L)] - [(H/L) \times W] = F$

COEFFICIENTS OF FRICTION

Load on air	≤0.01	Cast Iron on Steel	0.25	Wood on Concrete	0.45
Load on wheels	0.05	Wood on Metal	0.30	Wood on Wood	0.50
Steel on Steel	0.10	Leather on Metal	0.40	Metal on Concrete	0.60
Continuous Lubricated Surface	0.15	Manila Rope on Wood	0.40	Concrete on Concrete	0.65

LINKS AND RINGS WITH GRADE 80 ALLOY STEEL CHAIN MATERIAL

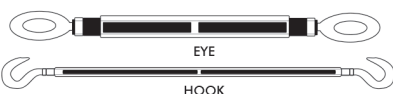
P-6830 WITH FLAT PART FOR CONNECTING GRADE 80 CHAIN LINKS P-6820

WLL (tons)	P-6830 Diameter	P-6820 Diameter
1.6	511"	629"
2.5	629"	708"
3.2	708"	787"
3.5	787"	866"
4.5	866"	984"
6.2	984"	1,102"
6.5	1,102"	1,181"
8.2	1,181"	1,417"
8.5	1,417"	1,496"
10	1,496"	1,772"
10.6	1,772"	1,969"
12.8	1,969"	2,165"
13	2,165"	2,283"
15.5	2,283"	2,756"
17	2,756"	3,15"
20	3,15"	---
25	---	---
27	---	---
30	---	---
37	---	---
40	---	---
50	---	---
60	---	---
63	---	---
80	---	---
100	---	---
125	---	---

TURNBUCKLES

USE LOCKNUTS OR MOUSING TO PREVENT THE TURNBUCKLES FROM ROTATING. THIS METHOD IS MOST EFFECTIVE.

SIZE	WLL EYE AND EYE (tons) 5/1 DESIGN FACTOR	WLL HOOK AND HOOK (tons) 5/1 DESIGN FACTOR
3/8	.54	.54
1/2	1	.68
5/8	1.59	1.02
3/4	2.36	1.36
7/8	3.27	1.81
1	4.54	2.27
1-1/4	6.9	2.95
1-1/2	9.71	3.4
1-3/4	12.7	-
2-1/2	27.2	-
2-3/4	34	-



SHACKLES

SCREW COLLAR PIN / SAFETY BOLT

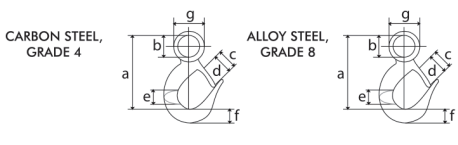
DIAMETER OF BOW (INCHES)	WORKING LOAD LIMIT (TONS)	INSIDE WIDTH AT PIN (INCHES)	DIAMETER OF PIN (INCHES)
1/2	2	7/8	5/8
5/8	3.25	1-1/16	3/4
3/4	4.75	1-7/32	7/8
7/8	6.5	1-13/32	1
1	8.5	1-11/16	1-1/8
1-1/8	9.5	1-27/32	1-1/4
1-1/4	12	2	1-3/8
1-3/8	13.5	2-1/4	1-1/2
1-1/2	17	2-3/8	1-5/8
1-3/4	25	2-29/32	2
2	35	3-9/32	2-1/4
2-1/4	42.5	3-3/4	2-9/16
2-1/2	55	4-1/8	2-3/4
3*	85	5	3-1/4

SCREW COLLAR PIN **SAFETY BOLT**

HOOKS

LARGE EYE

WLL (TONS) CARBON STEEL, GRADE 4	WLL (TONS) ALLOY STEEL, GRADE 8	HEADROOM LENGTH (IN) a	OPENING WIDTH (IN) d	WEIGHT (LBS)
0.8	1.25	3.22	0.787	0.59
1	1.6	3.66	0.866	0.88
1.6	2.5	4.05	0.905	1.21
2	3.2	4.72	1.06	1.82
3.2	5.4	5.78	1.37	4.18
5	8.2	7.36	1.69	7.71
7.5	12.8	9.05	2.08	15.21
10	16	10.07	2.28	23.14
15	22	12.51	3.07	38.58




POLYESTER ROUND SLINGS



Capacities:
(lbs)
31,000 - 306,000

Qty. in Rental: 5,000 +

WIRE ROPE SLINGS



Capacities: (tons)
4.9 - 441; select diameters

Qty. in Rental: 4,500 +

BEAM CLAMPS



Capacities:
(tons)
1 - 33

Qty. in Rental: 3,800 +

ELECTRIC CHAIN HOISTS



Capacities:
(tons)
1 - 10

Qty. in Rental: 570 +


HAND CHAIN HOISTS



Capacities:
(tons)
1 - 50

Qty. in Rental: 6,500 +


BEAM TROLLEYS



Capacities: (tons)
1 - 50

Qty. in Rental: 3,300 +

MODULAR SPREADER BEAMS



Capacities:
(tons)
24 - 1,000

Qty. in Rental: 1,450 +

*Available in Safety Bolt Shackles



Lifting Gear Hire

Lifting Equipment Rental Specialists

Scan to View Full
Selection of Rental
Equipment



LGH Rental Center Locations



To rent
equipment, call:
(800) 878-7305!

LGH North American Rental Desk:

9925 S. Industrial Drive
Bridgeview, IL 60455

P: (800) 878-7305
F: (708) 430-3536
E-mail: Rentals@RentLGH.com
Order Online: www.RentLGH.com

LGH Atlanta Rental Center

5149 South Royal Atlanta Dr.
Tucker, GA 30084

LGH Charlotte Rental Center

3500-L Woodpark Blvd.
Charlotte, NC 28206

LGH Chicago Rental Center

9925 S. Industrial Drive
Bridgeview, IL 60455

LGH Columbus Rental Center

1531 Alum Creek Drive
Columbus, OH 43209

LGH Dallas Rental Center

1440 N. Union Bower Rd.
Irving, TX 75061

LGH Denver Rental Center

13250 E. Smith Road, Unit F
Aurora, CO 80011

LGH Detroit Rental Center

2701 American Drive
Troy, MI 48083

LGH Green Bay Rental Center

2910 N Progress Dr.
Appleton, WI 54911

LGH Houston Rental Center

305 Deerwood Glen Drive
Deer Park, TX 77536

LGH Kansas City Rental Center

1886 N. Topping
Kansas City, MO 64120

LGH Los Angeles Rental Center

10712 Bloomfield Ave.
Santa Fe Springs, CA 90670

LGH Minneapolis Rental Center

875 Blue Gentian Road, Suite 600
Eagan, MN 55121

LGH Nashville Rental Center

1887 Elm Tree Dr.
Nashville, TN 37210

LGH New Orleans Rental Center

110 W. Airline Hwy, Suite A
Kenner, LA 70062

LGH New York Rental Center

350 Gotham Parkway
Carlstadt, NJ 07072

LGH Philadelphia Rental Center

774 American Dr.
Bensalem, PA 19020

LGH Phoenix Rental Center

7310 West Roosevelt, Suite 34
Phoenix, AZ 85043

LGH Pittsburgh Rental Center

11 Waller Way
Burgettstown, PA 15021

LGH San Francisco Rental Center

7085 Las Positas Road, Suite G
Livermore, CA 94551

LGH Seattle Rental Center

18601 72nd Avenue
South Kent, WA 98032

LGH St. Louis Rental Center

5700 Fee Fee Rd.
Hazelwood, MO 63042

LGH Tampa Rental Center

3515 Reynolds Rd., Suite 11
Lakeland, FL 33803

LGH Toronto Rental Center

2115 South Service Road, Unit 2
Oakville, ON L6L 5W2

**TO ORDER A FREE LAMINATED RIGGING
CARD, SLING CARD OR LGH CATALOG
VISIT LGH-USA.COM/LITERATURE**