



JOURNEYMAN RIGGER'S REFERENCE CHART

Sling Capacities		MECHANICAL SPLICE IN POUNDS						DESIGN FACTOR 5:1	
Size in inches	WLL	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1 1/4" x 1 1/4"	1 1/2" x 1 1/2"	2" x 2"	Size in inches	WLL
1/8	1,300	900	2,600	2,200	1,600	1,500	3,300	5/8	6.4
5/16	2,000	1,400	4,000	3,400	2,600	2,500	5,100	3/4	8.0
3/8	2,800	2,000	5,600	4,800	3,600	3,500	7,100	1	10.7
7/16	3,800	2,800	7,600	6,600	5,000	4,800	9,600	1 1/4	13.6
1/2	5,000	3,800	10,000	8,800	7,000	6,800	13,600	1 1/2	17.0
5/8	6,400	4,800	12,800	11,200	9,000	8,800	17,600	2	22.4
3/4	7,800	5,800	15,600	13,600	11,000	10,800	21,600	2 1/4	27.1
7/8	9,400	7,000	18,800	16,400	13,200	13,000	26,000	3	33.9
1	11,200	8,200	22,400	19,600	15,600	15,400	30,800	3 1/2	40.8
1 1/8	13,000	9,500	26,000	22,800	18,200	18,000	36,000	4	48.8
1 1/4	15,000	11,000	29,000	25,400	20,000	19,800	39,600	4 1/2	56.8
1 1/2	17,000	12,500	32,000	28,000	22,000	21,800	43,600	5	64.8
1 3/4	19,000	14,000	35,000	30,600	24,000	23,800	47,600	5 1/2	72.8
2	22,000	16,000	39,000	34,000	26,000	25,800	51,600	6	80.8

Formula to find sling length: Total distance between pick points x Multiplier = Sling Length

Load Factors & Weight Distribution	
5,000 lb 5,000 lb Tension in A = length B x Share of load wt. Tension in B = 5,000 lb 5,000 lb 5,000 lb Tension in A = 5,000 lb Tension in B = 5,000 lb Known Rule: $R_1 = R_2 = T_2$ Known Weights: $R_1 = W_1 - T_1$	Share of Load wt. at A: $R_1 = W_1 - T_1$ Share of Load wt. at B: $R_2 = W_2 - T_2$ CG in Feet from A: $P = \frac{W_1 \cdot L_1}{W_1 + W_2}$ CG in Feet from B: $P = \frac{W_2 \cdot L_2}{W_1 + W_2}$

Sling Capacities		DESIGN FACTORS - CHAIN 4:1						ROUNDS 5:1	
Size in inches	WLL	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1 1/4" x 1 1/4"	1 1/2" x 1 1/2"	2" x 2"	Size in inches	WLL
1/8	1,300	900	2,600	2,200	1,600	1,500	3,300	5/8	6.4
5/16	2,000	1,400	4,000	3,400	2,600	2,500	5,100	3/4	8.0
3/8	2,800	2,000	5,600	4,800	3,600	3,500	7,100	1	10.7
7/16	3,800	2,800	7,600	6,600	5,000	4,800	9,600	1 1/4	13.6
1/2	5,000	3,800	10,000	8,800	7,000	6,800	13,600	1 1/2	17.0
5/8	6,400	4,800	12,800	11,200	9,000	8,800	17,600	2	22.4
3/4	7,800	5,800	15,600	13,600	11,000	10,800	21,600	2 1/4	27.1
7/8	9,400	7,000	18,800	16,400	13,200	13,000	26,000	3	33.9
1	11,200	8,200	22,400	19,600	15,600	15,400	30,800	3 1/2	40.8
1 1/8	13,000	9,500	26,000	22,800	18,200	18,000	36,000	4	48.8
1 1/4	15,000	11,000	29,000	25,400	20,000	19,800	39,600	4 1/2	56.8
1 1/2	17,000	12,500	32,000	28,000	22,000	21,800	43,600	5	64.8
1 3/4	19,000	14,000	35,000	30,600	24,000	23,800	47,600	5 1/2	72.8
2	22,000	16,000	39,000	34,000	26,000	25,800	51,600	6	80.8

Block & Fairlead Loading		Example	
Angle A/B	Block Factor	Line Pull	Block Load
180	0.50	5,000	2,500
150	0.63	5,000	3,125
120	1.00	5,000	5,000
90	1.41	5,000	7,071
60	1.73	5,000	8,660
30	2.00	5,000	10,000

Rigging Hardware Capacities		Rigger's Checklist	
Size in inches	WLL	1. Check all equipment, inspect, tag, protect, and secure.	2. Check all equipment, inspect, tag, protect, and secure.
1/4	500	1,000	2,000
5/16	600	1,200	2,400
3/8	1,000	2,000	4,000
7/16	1,500	3,000	6,000
1/2	2,000	4,000	8,000
5/8	2,500	5,000	10,000
3/4	3,000	6,000	12,000
7/8	3,500	7,000	14,000
1	4,000	8,000	16,000
1 1/8	4,500	9,000	18,000
1 1/4	5,000	10,000	20,000
1 1/2	5,500	11,000	22,000
1 3/4	6,000	12,000	24,000
2	6,500	13,000	26,000

Coefficients of Friction		D/d Ratios	
Material	Coef.	D/d	Ratio
Steel on steel	0.15	20:1	0.15
Steel on steel	0.15	15:1	0.15
Steel on steel	0.15	10:1	0.15
Steel on steel	0.15	8:1	0.15
Steel on steel	0.15	6:1	0.15
Steel on steel	0.15	5:1	0.15
Steel on steel	0.15	4:1	0.15
Steel on steel	0.15	3:1	0.15
Steel on steel	0.15	2:1	0.15
Steel on steel	0.15	1:1	0.15

Load Weights - Calculating		Pounds / sq. ft.	
Material	Weight	1/8"	1/4"
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10
Aluminum	168	5	10

Hitch Types		Hitch Types	
1	2	3	4
Single Vertical	Single Vertical	Single Vertical	Single Vertical
2-Leg Basket	2-Leg Basket	2-Leg Basket	2-Leg Basket
3-Leg Basket	3-Leg Basket	3-Leg Basket	3-Leg Basket
4-Leg Basket	4-Leg Basket	4-Leg Basket	4-Leg Basket
Double Basket	Double Basket	Double Basket	Double Basket
Double Basket	Double Basket	Double Basket	Double Basket
Double Basket	Double Basket	Double Basket	Double Basket
Double Basket	Double Basket	Double Basket	Double Basket
Double Basket	Double Basket	Double Basket	Double Basket
Double Basket	Double Basket	Double Basket	Double Basket

#	Hitch Type	LOG	Leg Loading	Load Control	#
1	Single Vertical	Above	One	Poor	1
2	2-Leg Basket	Above	Two	Poor	2
3	3-Leg Basket	Both	Two	Excellent	3
4	4-Leg Basket	Both	Three	Excellent	4
5	Double Basket	Both	Four	Good	5
6	Double Basket	Both	Four	Good	6
7	Double Basket	Both	Four	Good	7
8	Double Basket	Both	Four	Good	8
9	Double Basket	Both	Four	Good	9
10	Double Basket	Both	Four	Good	10
11	Double Basket	Both	Four	Good	11
12	Double Basket	Both	Four	Good	12
13	Double Basket	Both	Four	Good	13
14	Double Basket	Both	Four	Good	14

Mobile Crane Hand Signals		Mobile Crane Hand Signals	
1	2	3	4
Crane Forward	Crane Forward	Crane Forward	Crane Forward
Crane Backward	Crane Backward	Crane Backward	Crane Backward
Crane Left	Crane Left	Crane Left	Crane Left
Crane Right	Crane Right	Crane Right	Crane Right
Crane Stop	Crane Stop	Crane Stop	Crane Stop
Crane Hoist	Crane Hoist	Crane Hoist	Crane Hoist
Crane Lower	Crane Lower	Crane Lower	Crane Lower
Crane Swing	Crane Swing	Crane Swing	Crane Swing
Crane Swing	Crane Swing	Crane Swing	Crane Swing
Crane Swing	Crane Swing	Crane Swing	Crane Swing

Checklists		Overhead Crane Op. Hand Signals	
1	2	3	4
Crane Forward	Crane Forward	Crane Forward	Crane Forward
Crane Backward	Crane Backward	Crane Backward	Crane Backward
Crane Left	Crane Left	Crane Left	Crane Left
Crane Right	Crane Right	Crane Right	Crane Right
Crane Stop	Crane Stop	Crane Stop	Crane Stop
Crane Hoist	Crane Hoist	Crane Hoist	Crane Hoist
Crane Lower	Crane Lower	Crane Lower	Crane Lower
Crane Swing	Crane Swing	Crane Swing	Crane Swing
Crane Swing	Crane Swing	Crane Swing	Crane Swing
Crane Swing	Crane Swing	Crane Swing	Crane Swing

WARNING: This poster is provided for quick reference only. OSHA regulations and ASME standards have been paraphrased. Inspectors should be well trained in rigging inspection.



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