



# JOURNEYMAN RIGGER'S REFERENCE CHART

| Sling Capacities |        | MECHANICAL SPLICE IN POUNDS |                    |                    |                    |                    |                    | DESIGN FACTOR 5:1 |      |
|------------------|--------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|
| Size in inches   | WLL    | 1/2" x 1/2" x 1/2"          | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | WLL               | WLL  |
| 1/8              | 1,300  | 900                         | 2,600              | 2,200              | 1,600              | 1,500              | 3,300              | 6.4               | 6.4  |
| 5/16             | 2,000  | 1,400                       | 4,000              | 3,400              | 2,600              | 2,500              | 5,100              | 8.0               | 8.0  |
| 3/8              | 2,800  | 2,000                       | 5,600              | 4,800              | 3,600              | 3,500              | 7,100              | 9.6               | 9.6  |
| 7/16             | 3,800  | 2,800                       | 7,600              | 6,800              | 5,400              | 5,300              | 10,700             | 12.8              | 12.8 |
| 1/2              | 5,000  | 3,800                       | 10,000             | 8,800              | 7,200              | 7,000              | 13,200             | 16.0              | 16.0 |
| 5/8              | 6,400  | 4,800                       | 12,800             | 11,200             | 9,000              | 8,800              | 15,600             | 20.0              | 20.0 |
| 3/4              | 7,800  | 5,800                       | 15,600             | 13,600             | 11,000             | 10,800             | 18,000             | 24.0              | 24.0 |
| 7/8              | 9,200  | 6,800                       | 18,400             | 16,000             | 13,000             | 12,800             | 20,400             | 28.0              | 28.0 |
| 1                | 11,200 | 8,200                       | 22,400             | 19,600             | 15,800             | 15,600             | 24,800             | 32.0              | 32.0 |
| 1 1/8            | 13,200 | 9,800                       | 26,400             | 23,200             | 18,800             | 18,600             | 28,800             | 36.0              | 36.0 |
| 1 1/4            | 15,200 | 11,200                      | 30,400             | 26,800             | 21,600             | 21,400             | 32,800             | 40.0              | 40.0 |
| 1 1/2            | 17,200 | 12,800                      | 34,400             | 30,000             | 24,000             | 23,800             | 36,800             | 44.0              | 44.0 |
| 1 3/4            | 19,200 | 14,400                      | 38,400             | 33,200             | 26,800             | 26,600             | 40,800             | 48.0              | 48.0 |
| 2                | 22,000 | 16,000                      | 44,000             | 38,400             | 30,800             | 30,600             | 46,800             | 56.0              | 56.0 |

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

| Load Factors & Weight Distribution                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5,000 lb. 5,000 lb. Tension in A = length B x Share of load wt. / length A</p> <p>Tension in A = <math>\frac{B}{A} \times 4,000</math></p> <p>Tension in A = 5,000 lb.</p> | <p>Known Ropes</p> <p>Share of Load wt. at A</p> <p>Share of Load wt. at B</p> <p>Share of Load wt. at C</p> <p>Share of Load wt. at D</p> <p>Share of Load wt. at E</p> <p>Share of Load wt. at F</p> <p>Share of Load wt. at G</p> <p>Share of Load wt. at H</p> <p>Share of Load wt. at I</p> <p>Share of Load wt. at J</p> <p>Share of Load wt. at K</p> <p>Share of Load wt. at L</p> <p>Share of Load wt. at M</p> <p>Share of Load wt. at N</p> <p>Share of Load wt. at O</p> <p>Share of Load wt. at P</p> <p>Share of Load wt. at Q</p> <p>Share of Load wt. at R</p> <p>Share of Load wt. at S</p> <p>Share of Load wt. at T</p> <p>Share of Load wt. at U</p> <p>Share of Load wt. at V</p> <p>Share of Load wt. at W</p> <p>Share of Load wt. at X</p> <p>Share of Load wt. at Y</p> <p>Share of Load wt. at Z</p> |

| Sling Capacities |        | DESIGN FACTORS - CHAIN 4:1 |                    |                    |                    |                    |                    | DESIGN FACTOR 5:1 |      |
|------------------|--------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|
| Size in inches   | WLL    | 1/2" x 1/2" x 1/2"         | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | 1/2" x 1/2" x 1/2" | WLL               | WLL  |
| 1/8              | 1,300  | 900                        | 2,600              | 2,200              | 1,600              | 1,500              | 3,300              | 6.4               | 6.4  |
| 5/16             | 2,000  | 1,400                      | 4,000              | 3,400              | 2,600              | 2,500              | 5,100              | 8.0               | 8.0  |
| 3/8              | 2,800  | 2,000                      | 5,600              | 4,800              | 3,600              | 3,500              | 7,100              | 9.6               | 9.6  |
| 7/16             | 3,800  | 2,800                      | 7,600              | 6,800              | 5,400              | 5,300              | 10,700             | 12.8              | 12.8 |
| 1/2              | 5,000  | 3,800                      | 10,000             | 8,800              | 7,200              | 7,000              | 13,200             | 16.0              | 16.0 |
| 5/8              | 6,400  | 4,800                      | 12,800             | 11,200             | 9,000              | 8,800              | 15,600             | 20.0              | 20.0 |
| 3/4              | 7,800  | 5,800                      | 15,600             | 13,600             | 11,000             | 10,800             | 18,000             | 24.0              | 24.0 |
| 7/8              | 9,200  | 6,800                      | 18,400             | 16,000             | 13,000             | 12,800             | 20,400             | 28.0              | 28.0 |
| 1                | 11,200 | 8,200                      | 22,400             | 19,600             | 15,800             | 15,600             | 24,800             | 32.0              | 32.0 |
| 1 1/8            | 13,200 | 9,800                      | 26,400             | 23,200             | 18,800             | 18,600             | 28,800             | 36.0              | 36.0 |
| 1 1/4            | 15,200 | 11,200                     | 30,400             | 26,800             | 21,600             | 21,400             | 32,800             | 40.0              | 40.0 |
| 1 1/2            | 17,200 | 12,800                     | 34,400             | 30,000             | 24,000             | 23,800             | 36,800             | 44.0              | 44.0 |
| 1 3/4            | 19,200 | 14,400                     | 38,400             | 33,200             | 26,800             | 26,600             | 40,800             | 48.0              | 48.0 |
| 2                | 22,000 | 16,000                     | 44,000             | 38,400             | 30,800             | 30,600             | 46,800             | 56.0              | 56.0 |

| Block & Fairlead Loading |              | Example   |            |
|--------------------------|--------------|-----------|------------|
| Angle A                  | Block Factor | Line Pull | Block Load |
| 180                      | 0.50         | 8,000     | 4,000      |
| 150                      | 0.63         | 8,000     | 5,040      |
| 120                      | 0.87         | 8,000     | 7,360      |
| 90                       | 1.41         | 8,000     | 11,312     |
| 60                       | 1.73         | 8,000     | 13,856     |
| 30                       | 2.00         | 8,000     | 16,000     |

| Rigging Hardware Capacities |                |            |         | RIGGING HARDWARE CAPACITIES |                |            |                 |
|-----------------------------|----------------|------------|---------|-----------------------------|----------------|------------|-----------------|
| Size in inches              | Shank Eye Bolt | Turnbuckle | Shackle | Shackle                     | Wire-Rope Clip | Pinch Bolt | Weld-On Shackle |
| 1/4                         | 800            | 1,250      | 800     | 1,000                       | 2              | 4,375      | 15              |
| 5/16                        | 800            | 2,000      | 800     | 1,500                       | 2              | 5,250      | 30              |
| 3/8                         | 1,200          | 3,000      | 1,200   | 2,000                       | 3              | 7,500      | 45              |
| 7/16                        |                |            |         | 3,000                       | 2              | 7,000      | 60              |
| 1/2                         | 2,200          | 5,500      | 2,200   | 4,500                       | 3              | 11,500     | 60              |
| 5/8                         |                |            |         | 7,000                       | 3              | 12,000     | 75              |
| 3/4                         | 3,500          | 8,750      | 3,500   | 8,500                       | 3              | 12,000     | 90              |
| 7/8                         | 5,000          | 12,500     | 5,000   | 10,500                      | 4              | 18,000     | 105             |
| 1                           | 7,000          | 17,500     | 7,000   | 13,000                      | 4              | 18,000     | 120             |
| 1 1/8                       | 10,000         | 25,000     | 10,000  | 24,300                      | 5              | 26,000     | 120             |
| 1 1/4                       | 15,000         | 37,500     | 15,000  | 36,000                      | 6              | 34,000     | 135             |
| 1 1/2                       | 15,000         | 37,500     | 15,000  | 36,000                      | 7              | 44,000     | 135             |

| Coefficients of Friction    |     | D/D Ratios |           |
|-----------------------------|-----|------------|-----------|
| Unlubricated steel-on-steel | .40 | 30:1 = .34 | 8:1 = .80 |
| Lubricated steel-on-steel   | .20 | 30:1 = .34 | 8:1 = .80 |
| Wood-on-wood                | .30 | 15:1 = .33 | 2:1 = .66 |
| Wood-on-steel               | .25 | 10:1 = .33 | 1:1 = .50 |

# Journeyman Rigger Study Guide

**Shasha Hu**



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