

## Modular Spreader Beams | 47 - 700 Ton | Mod 400/700

**NOTE:** Top Slings shall be properly load-rated based on the specified angle used. LGH top sling inventory is based on Rental Center location availability.

- Rated at 700t WLL at 30 ft. span (60 degrees Base Slinge Angle).
- End Units & Drop Links are rated at 350t (700t combined lift).
- Base sling angle,  $\alpha$ , 45 degrees or greater.

| Table 1: Component List |  |                     |
|-------------------------|--|---------------------|
| Part Ref.               | Description                                | Weight / Item (lbs) |
| P1                      | End Unit (WLL 350t)                        | 1,500               |
| P2                      | Drop Link (WLL 350t)                       | 397                 |
| P3                      | 20 ft. Strut                               | 3,049               |
| P4                      | 10 ft. Strut                               | 1,744               |
| P5                      | 5 ft. Strut                                | 1,094               |
| P6                      | 4 ft. Strut                                | 963                 |
| P7                      | 3 ft. Strut                                | 832                 |
| P8                      | 2 ft. Strut                                | 701                 |
| P9                      | 1 ft. Strut                                | 571                 |
| P10                     | 400t Wide Body Shackle                     | 1279                |
| P11                     | 400t Wide Body Shackle                     | 1279                |
| P12                     | M24x90 Grade 8.8, HT Bolts, Nuts & Washers |                     |

*Green shading reflects rental inventory.*  
*\*Beam weights calculated without top rigging.*

- Max number of struts allowed in spreader assembly: 5
- Assemble longer struts in the center of the spreader configuration
- Sling angle is crucial to use of spreader. Do not rig the lower slings more than 6 degrees from vertical.
- Bolt tightening torque: 184 Pound-Foot. Spanner size required: 30mm.
- Recommended additional equipment: Torque Wrench, Podger Spanner and Ring Spanner.

| Table 2: Load v. Span |                                    |                               |                          |                               |                          |                               |   |    |    |    |    |                   |        |        |
|-----------------------|------------------------------------|-------------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|---|----|----|----|----|-------------------|--------|--------|
| Span (ft)             | Base to Sling Angle (BSA) $\alpha$ |                               |                          |                               |                          |                               | Recommended Configuration<br>EU – End Unit (3 ft.)  |    |    |    |    | Beam Weight (lbs) |        |        |
|                       | 45°                                |                               | 60°                      |                               | 70°                      |                               | To calculate the WLL at intermediate spans utilising the 1 ft strut, round up the span to the next longest span in Table 2, and use the stated WLL. |    |    |    |    |                   |        |        |
|                       | WLL metric tons (tonnes)           | Min. top sling length (ft in) | WLL metric tons (tonnes) | Min. top sling length (ft in) | WLL metric tons (tonnes) | Min. top sling length (ft in) | EU  | EU | EU | EU | EU |                   |        |        |
| 6                     | 449                                | 2'1"                          | 700                      | 4'3"                          | 700                      | 6'8"                          | EU  | EU | —  |    |    | 7,621             |        |        |
| 8                     | 449                                | 3'7"                          | 700                      | 6'4"                          | 700                      | 9'7"                          | EU  | 2  | EU | —  |    | 8,322             |        |        |
| 10                    | 449                                | 5'0"                          | 700                      | 8'5"                          | 700                      | 12'6"                         | EU  | 4  | EU | —  |    | 8,584             |        |        |
| 12                    | 449                                | 6'5"                          | 700                      | 10'7"                         | 700                      | 15'5"                         | EU  | 5  | 1  | EU | —  | 9,327             |        |        |
| 14                    | 449                                | 7'10"                         | 700                      | 12'8"                         | 700                      | 18'5"                         | EU  | 5  | 3  | EU | —  | 9,588             |        |        |
| 16                    | 449                                | 9'2"                          | 700                      | 14'9"                         | 700                      | 21'4"                         | EU  | 5  | 5  | EU | —  | 9,848             |        |        |
| 18                    | 449                                | 10'7"                         | 700                      | 16'10"                        | 700                      | 24'2"                         | EU  | 10 | 2  | EU | —  | 10,021            |        |        |
| 20                    | 449                                | 12'0"                         | 700                      | 19'1"                         | 700                      | 27'1"                         | EU  | 10 | 4  | EU | —  | 10,328            |        |        |
| 22                    | 449                                | 13'6"                         | 700                      | 21'1"                         | 700                      | 30'1"                         | EU  | 1  | 10 | 5  | EU | —                 | 11,071 |        |
| 24                    | 449                                | 14'11"                        | 700                      | 23'2"                         | 700                      | 33'0"                         | EU  | 3  | 10 | 5  | EU | —                 | 11,332 |        |
| 26                    | 445                                | 16'4"                         | 700                      | 25'4"                         | 700                      | 35'11"                        | EU  | 5  | 10 | 5  | EU | —                 | 11,592 |        |
| 28                    | 427                                | 17'8"                         | 700                      | 27'5"                         | 700                      | 38'10"                        | EU  | 2  | 10 | 10 | EU | —                 | 11,765 |        |
| 30                    | 408                                | 19'1"                         | 700                      | 29'6"                         | 700                      | 41'10"                        | EU  | 4  | 10 | 10 | EU | —                 | 12,072 |        |
| 32                    | 393                                | 20'6"                         | 684                      | 29'11"                        | 700                      | 44'8"                         | EU  | 5  | 20 | 1  | EU | —                 | 12,376 |        |
| 34                    | 372                                | 21'11"                        | 647                      | 3'11"                         | 700                      | 47'7"                         | EU  | 5  | 20 | 3  | EU | —                 | 12,637 |        |
| 36                    | 351                                | 23'5"                         | 611                      | 33'11"                        | 700                      | 50'6"                         | EU  | 10 | 20 | EU | EU | —                 | 12,369 |        |
| 38                    | 327                                | 24'10"                        | 569                      | 35'11"                        | 700                      | 53'6"                         | EU  | 10 | 20 | 2  | EU | —                 | 13,070 |        |
| 40                    | 304                                | 26'2"                         | 530                      | 37'11"                        | 700                      | 56'5"                         | EU  | 10 | 20 | 4  | EU | —                 | 13,377 |        |
| 42                    | 280                                | 27'7"                         | 488                      | 39'11"                        | 700                      | 59'4"                         | EU  | 1  | 10 | 20 | 5  | EU                | —      | 14,120 |
| 44                    | 258                                | 29'0"                         | 450                      | 41'11"                        | 700                      | 62'2"                         | EU  | 3  | 10 | 20 | 5  | EU                | —      | 14,381 |
| 46                    | 240                                | 30'5"                         | 419                      | 43'11"                        | 667                      | 65'1"                         | EU  | 10 | 20 | 10 | EU | —                 | 14,113 |        |
| 48                    | 218                                | 31'10"                        | 381                      | 45'11"                        | 608                      | 68'1"                         | EU  | 10 | 20 | 10 | 2  | EU                | —      | 14,814 |
| 50                    | 201                                | 33'4"                         | 352                      | 47'11"                        | 562                      | 71'0"                         | EU  | 20 | 20 | 4  | EU | —                 | 14,682 |        |
| 52                    | 183                                | 34'8"                         | 320                      | 49'11"                        | 511                      | 73'11"                        | EU  | 1  | 20 | 20 | 5  | EU                | —      | 15,425 |
| 54                    | 166                                | 36'1"                         | 291                      | 51'11"                        | 465                      | 76'10"                        | EU  | 3  | 20 | 20 | 5  | EU                | —      | 15,686 |
| 56                    | 150                                | 37'6"                         | 264                      | 53'11"                        | 422                      | 79'10"                        | EU  | 5  | 20 | 20 | 5  | EU                | —      | 15,946 |
| 58                    | 137                                | 38'11"                        | 241                      | 55'11"                        | 386                      | 82'8"                         | EU  | 2  | 10 | 20 | 20 | EU                | —      | 16,119 |
| 60                    | 123                                | 40'4"                         | 218                      | 57'11"                        | 349                      | 85'7"                         | EU  | 4  | 10 | 20 | 20 | EU                | —      | 16,426 |
| 62                    | 110                                | 41'8"                         | 195                      | 59'11"                        | 314                      | 88'6"                         | EU  | 1  | 10 | 20 | 20 | 5                 | EU     | 17,169 |
| 64                    | 99                                 | 43'2"                         | 176                      | 61'11"                        | 283                      | 91'6"                         | EU  | 3  | 10 | 20 | 20 | 5                 | EU     | 17,430 |
| 66                    | 90                                 | 44'7"                         | 160                      | 63'11"                        | 258                      | 94'5"                         | EU  | 10 | 20 | 20 | 10 | EU                | —      | 17,162 |
| 68                    | 82                                 | 46'0"                         | 147                      | 65'11"                        | 237                      | 97'4"                         | EU  | 20 | 20 | 20 | 2  | EU                | —      | 17,424 |
| 70                    | 74                                 | 47'5"                         | 133                      | 67'11"                        | 214                      | 100'2"                        | EU  | 20 | 20 | 20 | 4  | EU                | —      | 17,731 |
| 72                    | 66                                 | 48'10"                        | 119                      | 69'11"                        | 193                      | 103'2"                        | EU  | 1  | 20 | 20 | 20 | 5                 | EU     | 18,474 |
| 74                    | 59                                 | 50'2"                         | 107                      | 71'11"                        | 174                      | 106'1"                        | EU  | 3  | 20 | 20 | 20 | 5                 | EU     | 18,735 |
| 76                    | 53                                 | 51'7"                         | 97                       | 73'11"                        | 159                      | 109'0"                        | EU  | 20 | 20 | 20 | 10 | EU                | —      | 18,467 |
| 78                    | 47                                 | 53'1"                         | 87                       | 75'11"                        | 142                      | 111'11"                       | EU  | 20 | 20 | 20 | 10 | 2                 | EU     | 19,213 |

*Green shading reflects rental inventory.*  
*\*Beam weights calculated without top rigging.*  
*\* Spans available in 1 foot increments*

### Typical Spreader Assembly

