

 **Trylon**  
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# STOCK TOWER BROCHURE

U.S. Version



# SUPERTITAN WELD



The SuperTitan Weld is designed to meet market loading requirements and conforms to ANSI-TIA 222-G Standard. Trylon understands the importance of minimizing freight costs and as a result the tower is designed to ship nested.

The all-weld design uses flat pads allows for easy connections, which further minimizes assembly and installation time. The tower ships with integral climbing face and transmission line supports which offer additional value and eliminate the need to purchase separately. P.E. stamped drawings are available.

## SuperTITAN WELD SPECIFICATIONS

- All-Weld sections minimize assembly and installation time
- Flat flanges provides an easy connection between sections (3 bolts per leg)
- Designed to conform with ANSI-TIA-222 F&G Standard
- Climbing horizontals on one face (7/8" or 3/4")
- Every 5th section nests for reduced freight costs
- Maximum height: 150ft
- Section height: 10ft

## SuperTITAN WELD APPLICATIONS

- Oil and gas sites
- Railways: minimizes access time required
- Tower Contractors: minimizes assembly
- Ideal loading capacity for SCADA, WISP, Broadband and 2-Way applications

## THE SuperTITAN WELD DIFFERENCE

- Only All-Weld Self-Support available through distribution
- 3 hole bolts pattern and flat flanges
- Towers ship nested to minimizes freight costs



The flat pads make installation easy



Tower ships nested to minimize freight



Integral transmission line supports



# SUPERTITAN WELD



## WIND LOAD CHARTS

| TIA 222-G |       | Importance Class I |     |     | Importance Class II |     |     |
|-----------|-------|--------------------|-----|-----|---------------------|-----|-----|
| HEIGHT    | MODEL | 90                 | 110 | 130 | 90                  | 110 | 130 |
| 20'       | W700  | 232                | 150 | 98  | 200                 | 126 | 82  |
| 20'       | W600  | 188                | 122 | 84  | 162                 | 104 | 72  |
| 20'       | W500  | 186                | 120 | 82  | 160                 | 102 | 68  |
| 20'       | W400  | 184                | 118 | 80  | 158                 | 100 | 66  |
| 20'       | W300  | 182                | 116 | 78  | 156                 | 98  | 64  |
| 20'       | W200  | 178                | 114 | 76  | 154                 | 96  | 62  |
| 20'       | W100  | 86                 | 54  | 38  | 74                  | 46  | 32  |
| 30'       | W700  | 212                | 136 | 86  | 182                 | 114 | 70  |
| 30'       | W600  | 170                | 110 | 76  | 148                 | 94  | 64  |
| 30'       | W500  | 168                | 108 | 74  | 146                 | 92  | 62  |
| 30'       | W400  | 166                | 106 | 72  | 144                 | 90  | 60  |
| 30'       | W300  | 164                | 104 | 70  | 142                 | 88  | 58  |
| 30'       | W200  | 124                | 78  | 52  | 106                 | 66  | 46  |
| 30'       | W100  | 78                 | 50  | 34  | 66                  | 44  | 30  |
| 40'       | W700  | 198                | 126 | 78  | 170                 | 106 | 60  |
| 40'       | W600  | 160                | 104 | 72  | 138                 | 88  | 58  |
| 40'       | W500  | 158                | 102 | 68  | 136                 | 86  | 56  |
| 40'       | W400  | 156                | 100 | 66  | 134                 | 84  | 54  |
| 40'       | W300  | 154                | 98  | 64  | 132                 | 82  | 52  |
| 40'       | W200  | 116                | 72  | 50  | 98                  | 62  | 42  |
| 40'       | W100  | 72                 | 46  | 32  | 62                  | 40  | 28  |
| 50'       | W700  | 188                | 118 | 72  | 162                 | 98  | 54  |
| 50'       | W600  | 152                | 98  | 68  | 130                 | 84  | 52  |
| 50'       | W500  | 150                | 96  | 64  | 128                 | 82  | 50  |
| 50'       | W400  | 148                | 94  | 62  | 126                 | 80  | 48  |
| 50'       | W300  | 126                | 76  | 50  | 106                 | 62  | 42  |
| 50'       | W200  | 110                | 68  | 46  | 94                  | 56  | 38  |
| 50'       | W100  | 68                 | 44  | 30  | 58                  | 38  | 26  |
| 60'       | W700  | 184                | 112 | 66  | 156                 | 92  | 50  |
| 60'       | W600  | 146                | 94  | 64  | 126                 | 80  | 48  |
| 60'       | W500  | 144                | 92  | 60  | 124                 | 78  | 46  |
| 60'       | W400  | 142                | 90  | 58  | 122                 | 76  | 44  |
| 60'       | W300  | 120                | 72  | 46  | 100                 | 60  | 40  |
| 60'       | W200  | 92                 | 52  | 34  | 76                  | 46  | 30  |
| 60'       | W100  | 66                 | 42  | 30  | 56                  | 36  | 24  |
| 70'       | W700  | 180                | 106 | 60  | 152                 | 86  | 48  |
| 70'       | W600  | 140                | 90  | 58  | 122                 | 78  | 46  |
| 70'       | W500  | 138                | 88  | 56  | 120                 | 76  | 44  |
| 70'       | W400  | 136                | 82  | 52  | 116                 | 66  | 42  |
| 70'       | W300  | 114                | 68  | 46  | 96                  | 56  | 38  |
| 70'       | W200  | 88                 | 52  | 32  | 72                  | 44  | 28  |
| 70'       | W100  | 64                 | 40  | 24  | 54                  | 32  | 18  |

| TIA 222-G |       | Importance Class I |     |     | Importance Class II |     |     |
|-----------|-------|--------------------|-----|-----|---------------------|-----|-----|
| HEIGHT    | MODEL | 90                 | 110 | 130 | 90                  | 110 | 130 |
| 80'       | W700  | 180                | 102 | 54  | 150                 | 80  | 44  |
| 80'       | W600  | 136                | 88  | 52  | 118                 | 74  | 42  |
| 80'       | W500  | 134                | 86  | 50  | 115                 | 72  | 40  |
| 80'       | W400  | 132                | 78  | 48  | 112                 | 64  | 38  |
| 80'       | W300  | 108                | 60  | 38  | 90                  | 50  | 30  |
| 80'       | W200  | 84                 | 50  | 30  | 70                  | 42  | 26  |
| 80'       | W100  | 62                 | 38  | 24  | 52                  | 30  | 18  |
| 90'       | W700  | 182                | 98  | 52  | 148                 | 76  | 46  |
| 90'       | W600  | 134                | 86  | 50  | 114                 | 72  | 44  |
| 90'       | W500  | 132                | 84  | 48  | 111                 | 70  | 42  |
| 90'       | W400  | 130                | 74  | 46  | 108                 | 60  | 40  |
| 90'       | W300  | 104                | 56  | 36  | 86                  | 48  | 30  |
| 90'       | W200  | 80                 | 46  | 30  | 66                  | 40  | 22  |
| 90'       | W100  | 60                 | 36  | 22  | 52                  | 30  | 16  |
| 100'      | W600  | 130                | 84  | 50  | 112                 | 70  | 40  |
| 100'      | W500  | 128                | 82  | 48  | 110                 | 68  | 38  |
| 100'      | W400  | 126                | 72  | 46  | 104                 | 58  | 36  |
| 100'      | W300  | 100                | 54  | 34  | 82                  | 46  | 30  |
| 100'      | W200  | 78                 | 46  | 28  | 64                  | 38  | 20  |
| 100'      | W100  | 58                 | 34  | 20  | 50                  | 30  | 14  |
| 110'      | W500  | 130                | 80  | 46  | 110                 | 66  | 34  |
| 110'      | W400  | 122                | 70  | 44  | 102                 | 56  | 32  |
| 110'      | W300  | 98                 | 52  | 32  | 80                  | 46  | 28  |
| 110'      | W200  | 76                 | 46  | 26  | 62                  | 36  | 20  |
| 110'      | W100  | 56                 | 34  | 18  | 48                  | 28  | 14  |
| 120'      | W400  | 120                | 68  | 44  | 98                  | 54  | 30  |
| 120'      | W300  | 94                 | 52  | 32  | 78                  | 46  | 26  |
| 120'      | W200  | 74                 | 44  | 26  | 60                  | 34  | 18  |
| 120'      | W100  | 54                 | 32  | 18  | 46                  | 28  | 14  |
| 130'      | W300  | 92                 | 52  | 30  | 74                  | 44  | 26  |
| 130'      | W200  | 72                 | 42  | 24  | 58                  | 32  | 16  |
| 130'      | W100  | 54                 | 30  | 16  | 46                  | 26  | 14  |
| 140'      | W200  | 70                 | 42  | 24  | 56                  | 32  | 16  |
| 140'      | W100  | 52                 | 30  | 16  | 46                  | 26  | 14  |
| 150'      | W100  | 52                 | 30  | 14  | 46                  | 26  | 12  |

1) Importance Class I based on 30mph Service Wind Speed, 0" of Radial Icing, load is centrally balanced above tower top, no tx lines considered.

2) Importance Class II based on 40mph Service Wind Speed, 0.75" of Radial Icing, load is centrally balanced above tower top, no tx lines considered.





# SUPERTITAN KD



Trylon's SuperTitan KD bridges the cost gap between the lighter-weight Titan towers and more costly custom-designed towers.

The SuperTitan KD is a modular tower that can be built up to 190 feet high. Consisting of 21 standard sections, each 10 feet high, this modular system can be configured to create towers of varying heights and loading capacities. The SuperTitan KD design conforms to ANSI-TIA-222 F&G Standard and can be stamped by a professional engineer.

## SuperTITAN KD SPECIFICATIONS

- Brand New Packaging Process
  - Minimize freight costs (weight & dimensions)
  - Minimizes storage space
  - Improved economic footprint
- All members are hot-dip galvanized throughout
- Designed to conform with TIA/EIA standard
- Maximum height: 190ft
- Section height: 10ft

## SuperTITAN KD APPLICATIONS

- Emergency Services (Police, Fire, etc.)
  - Increased tower capacity
- SCADA Systems
  - Ideally suited for base stations with larger loading parameters
- Broadband
- Base Station towers

## THE SuperTITAN KD DIFFERENCE

- Maximum height 190ft compared to 150ft for competitors
- New innovative packaging
- Drastically reduces freight costs
- Product in stock at distributor locations
- Reduced lead-times vs. direct shipments from manufacturer



SuperTitan KD Tower



30' SuperTitan KD tower



New! SuperTitan KD packaging method



# SUPERTITAN KD



## WIND LOAD CHARTS

| Height | Model | EIA Rev. G Class 1:<br>0.75" Ice at 90/ 105/<br>120 mph (round) |     |     | EIA Rev. G Class 2:<br>0.75" Ice at 90/ 105/<br>120 mph (round) |     |     |
|--------|-------|---|-----|-----|---|-----|-----|
|        |       | 90  | 105 | 120 | 90  | 105 | 120 |
| 20'    | S100  | 78  | 52  | 38  | 66  | 46  | 32  |
| 20'    | S200  | 92  | 64  | 46  | 78  | 54  | 40  |
| 20'    | S300  | 108   | 74  | 54  | 92  | 64  | 46  |
| 30'    | S100  | 46  | 30  | 18  | 38  | 24  | 14  |
| 30'    | S200  | 52  | 34  | 24  | 44  | 30  | 18  |
| 30'    | S300  | 60  | 40  | 28  | 50  | 32  | 22  |
| 40'    | S100  | 28  | 14  | 8   | 22  | 12  | 4   |
| 40'    | S200  | 32  | 18  | 10  | 26  | 14  | 6   |
| 40'    | S300  | 56  | 36  | 24  | 46  | 30  | 18  |
| 40'    | S400  | 104   | 72  | 52  | 88  | 60  | 44  |
| 50'    | S100  | 14  | 6   | -   | 12  | -   | -   |
| 50'    | S200  | 30  | 16  | 8   | 24  | 12  | 4   |
| 50'    | S300  | 52  | 34  | 22  | 44  | 28  | 16  |
| 50'    | S400  | 82  | 50  | 32  | 66  | 42  | 24  |
| 50'    | S500  | 88  | 54  | 34  | 72  | 44  | 28  |
| 50'    | S600  | 128   | 84  | 54  | 108   | 68  | 44  |
| 60'    | S100  | 14  | 4   | -   | 10  | -   | -   |
| 60'    | S200  | 28  | 14  | 6   | 22  | 10  | 2   |
| 60'    | S300  | 50  | 30  | 16  | 42  | 22  | 10  |
| 60'    | S400  | 56  | 32  | 16  | 46  | 24  | 12  |
| 60'    | S500  | 82  | 50  | 32  | 66  | 40  | 24  |
| 70'    | S100  | 14  | 2   | -   | 8   | -   | -   |
| 70'    | S200  | 26  | 14  | 4   | 20  | 10  | -   |
| 70'    | S300  | 38  | 16  | 4   | 28  | 12  | -   |
| 70'    | S400  | 52  | 30  | 14  | 44  | 22  | 10  |
| 70'    | S500  | 78  | 48  | 30  | 62  | 38  | 20  |
| 70'    | S600  | 88  | 48  | 28  | 66  | 36  | 16  |
| 70'    | H610  | 88  | 48  | 28  | 66  | 36  | 16  |
| 80'    | S100  | 12  | 2   | -   | 6   | -   | -   |
| 80'    | S200  | 22  | 6   | -   | 14  | -   | -   |
| 80'    | S300  | 34  | 14  | 2   | 26  | 10  | -   |
| 80'    | S400  | 50  | 30  | 14  | 40  | 20  | 8   |
| 80'    | S500  | 58  | 30  | 14  | 46  | 20  | 4   |
| 80'    | H500  | 58  | 30  | 14  | 46  | 20  | 4   |
| 80'    | H510  | 58  | 30  | 14  | 46  | 20  | 4   |
| 90'    | S100  | 10  | -   | -   | 4   | -   | -   |
| 90'    | S200  | 14  | -   | -   | 4   | -   | -   |
| 90'    | S300  | 30  | 14  | -   | 24  | 8   | -   |
| 90'    | S400  | 42  | 16  | -   | 30  | 8   | -   |
| 90'    | H400  | 42  | 16  | -   | 30  | 8   | -   |

| Height | Model | EIA Rev. G Class 1:<br>0.75" Ice at 90/ 105/<br>120 mph (round) |     |     | EIA Rev. G Class 2:<br>0.75" Ice at 90/ 105/<br>120 mph (round) |     |     |
|--------|-------|---|-----|-----|---|-----|-----|
|        |       | 90  | 105 | 120 | 90  | 105 | 120 |
| 90'    | H410  | 42  | 16  | -   | 30  | 8   | -   |
| 90'    | S610  | 78  | 42  | 18  | 58  | 30  | 8   |
| 100'   | H200  | 18  | 2   | -   | 12  | -   | -   |
| 100'   | H310  | 28  | 6   | -   | 14  | -   | -   |
| 100'   | S510  | 52  | 26  | 6   | 40  | 14  | -   |
| 100'   | S610  | 72  | 36  | 14  | 52  | 26  | 4   |
| 110'   | H210  | 14  | -   | -   | 6   | -   | -   |
| 110'   | S410  | 36  | 14  | -   | 26  | 2   | -   |
| 110'   | S510  | 50  | 22  | 2   | 36  | 12  | -   |
| 110'   | S610  | 66  | 30  | 6   | 48  | 16  | -   |
| 120'   | H110  | 6   | -   | -   | -   | -   | -   |
| 120'   | S310  | 22  | 2   | -   | 14  | -   | -   |
| 120'   | S410  | 32  | 12  | -   | 22  | -   | -   |
| 120'   | S510  | 48  | 16  | -   | 32  | 6   | -   |
| 120'   | S610  | 58  | 24  | -   | 44  | 12  | -   |
| 130'   | S310  | 14  | -   | -   | 8   | -   | -   |
| 130'   | S410  | 30  | 6   | -   | 20  | -   | -   |
| 130'   | S510  | 46  | 14  | -   | 30  | -   | -   |
| 130'   | S610  | 52  | 20  | -   | 40  | 8   | -   |
| 130'   | S710  | 76  | 32  | 8   | 52  | 18  | -   |
| 140'   | S310  | 14  | -   | -   | 6   | -   | -   |
| 140'   | S410  | 30  | -   | -   | 14  | -   | -   |
| 140'   | S510  | 42  | 10  | -   | 28  | -   | -   |
| 140'   | S610  | 52  | 18  | -   | 36  | 6   | -   |
| 140'   | S710  | 72  | 30  | 6   | 50  | 16  | -   |
| 140'   | S810  | 98  | 46  | 18  | 70  | 30  | 4   |
| 150'   | S310  | 14  | -   | -   | 6   | -   | -   |
| 150'   | S410  | 30  | -   | -   | 14  | -   | -   |
| 150'   | S510  | 40  | 8   | -   | 24  | -   | -   |
| 150'   | S610  | 50  | 14  | -   | 34  | 4   | -   |
| 150'   | S710  | 68  | 30  | 4   | 48  | 14  | -   |
| 160'   | S310  | 14  | -   | -   | 4   | -   | -   |
| 160'   | S410  | 28  | -   | -   | 14  | -   | -   |
| 160'   | S510  | 36  | 6   | -   | 22  | -   | -   |
| 160'   | S610  | 48  | 14  | -   | 30  | 2   | -   |
| 170'   | S310  | 12  | -   | -   | 2   | -   | -   |
| 170'   | S410  | 24  | -   | -   | 12  | -   | -   |
| 170'   | S510  | 34  | 4   | -   | 18  | -   | -   |
| 180'   | S310  | 12  | -   | -   | -   | -   | -   |
| 180'   | S410  | 22  | -   | -   | 10  | -   | -   |



# SUPERTITAN MAX



Designed using the same basic modular configuration as the SuperTitanKD model, the SuperTitan MAX features a wide range of heights and options for increasing strength and capacity.

The SuperTitan MAX is shipped in 19 foot sections which can be assembled to a maximum height of 251 feet, making it Trylon's tallest self-supporting stocked tower.

P.E. stamped drawings are also available for this product line, making it a cost-effective alternative to a custom tower.

## SuperTITAN MAX SPECIFICATIONS

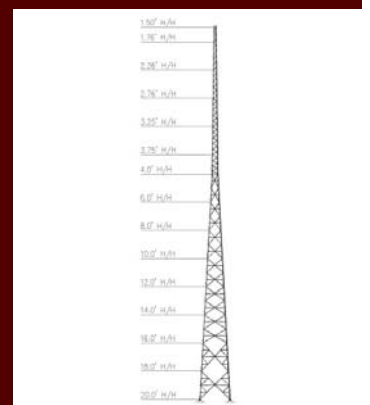
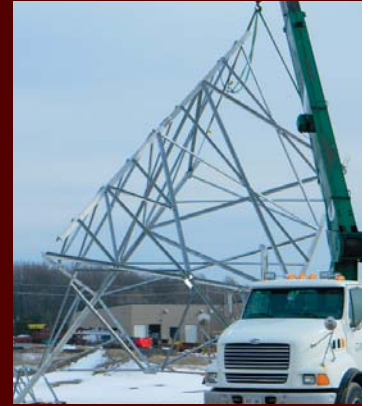
- Tallest stock product tower offered
- Ships from Trylon
- 19ft section (ships unassembled)
- P.E. Stamp drawings included in price
- Designed to conform with ANSI-TIA-222 F&G Standard
- Maximum height: 251ft
- Section height: 19ft

## SuperTITAN MAX APPLICATIONS

- Covers almost any application below cellular grade
- Ideal for interoperability solutions
- Large load and tall tower requirement

## THE SuperTITAN MAX DIFFERENCE

- Lead-time: 3 weeks
  - Compared to 6-8 weeks for similar capacity custom towers
- 19ft sections ideal for international shipments
- Pre-engineered, tower drawings and foundation drawings available prior to tower shipment



# SUPERTITAN MAX



## WIND LOAD CHARTS

|        |       | TIA/EIA Rev. G<br>Importance Class 1:<br>0.75" Icing @ 40 mph |     |     | TIA/EIA Rev. G<br>Importance Class 2:<br>0.75 @ 40 mph |     |     |
|--------|-------|---|-----|-----|--|-----|-----|
|        |       | Round   |     |     | Round  |     |     |
| HEIGHT | MODEL | 90  | 110 | 130 | 90   | 110 | 130 |
| 118'   | M110  | 34  | 12  | 0   | 26   | 4   | 0   |
| 118'   | M210  | 74  | 36  | 12  | 58   | 26  | 2   |
| 118'   | M310  | 126   | 64  | 30  | 102  | 50  | 14  |
| 118'   | M410  | 136   | 84  | 36  | 116  | 64  | 18  |
| 118'   | M510  | 262   | 158 | 72  | 224  | 118 | 48  |
| 127'   | M200  | 48  | 22  | 0   | 38   | 14  | 0   |
| 127'   | M300  | 106   | 50  | 14  | 82   | 34  | 0   |
| 127'   | M400  | 128   | 66  | 20  | 106  | 46  | 4   |
| 127'   | M500  | 248   | 118 | 46  | 196  | 82  | 30  |
| 127'   | M600  | 270   | 162 | 80  | 226  | 132 | 46  |
| 137'   | M110  | 30  | 10  | 0   | 22   | 2   | 0   |
| 137'   | M210  | 70  | 32  | 4   | 54   | 22  | 0   |
| 137'   | M310  | 120   | 48  | 8   | 96   | 30  | 0   |
| 137'   | M410  | 132   | 82  | 30  | 112  | 54  | 14  |
| 137'   | M510  | 252   | 146 | 52  | 216  | 106 | 30  |
| 146'   | M200  | 46  | 18  | 0   | 36   | 10  | 0   |
| 146'   | M300  | 100   | 34  | 0   | 78   | 16  | 0   |
| 146'   | M400  | 122   | 56  | 14  | 102  | 40  | 0   |
| 146'   | M500  | 234   | 108 | 34  | 184  | 74  | 14  |
| 146'   | M600  | 244   | 138 | 14  | 202  | 110 | 28  |
| 156'   | M110  | 30  | 8   | 0   | 20   | 0   | 0   |
| 156'   | M210  | 66  | 24  | 0   | 52   | 8   | 0   |
| 156'   | M310  | 116   | 46  | 2   | 92   | 26  | 0   |
| 156'   | M410  | 128   | 76  | 20  | 108  | 50  | 0   |
| 156'   | M510  | 244   | 136 | 14  | 210  | 92  | 0   |
| 165'   | M200  | 46  | 14  | 0   | 34   | 0   | 0   |
| 165'   | M300  | 94  | 30  | 0   | 68   | 14  | 0   |
| 165'   | M400  | 118   | 52  | 8   | 98   | 32  | 0   |
| 165'   | M500  | 224   | 98  | 12  | 174  | 62  | 0   |
| 165'   | M600  | 252   | 142 | 16  | 212  | 72  | 0   |
| 175'   | M110  | 28  | 4   | 0   | 18   | 0   | 0   |
| 175'   | M210  | 64  | 16  | 0   | 52   | 2   | 0   |
| 175'   | M310  | 112   | 38  | 0   | 84   | 20  | 0   |
| 175'   | M410  | 124   | 68  | 0   | 106  | 46  | 0   |
| 175'   | M510  | 238   | 126 | 0   | 204  | 56  | 0   |

|        |       | TIA/EIA Rev. G<br>Importance Class 1:<br>0.75" Icing @ 40 mph |     |     | TIA/EIA Rev. G<br>Importance Class 2:<br>0.75 @ 40 mph |     |     |
|--------|-------|---|-----|-----|--|-----|-----|
|        |       | Round   |     |     | Round  |     |     |
| HEIGHT | MODEL | 90  | 110 | 130 | 90   | 110 | 130 |
| 184'   | M200  | 42  | 10  | 0   | 32   | 0   | 0   |
| 184'   | M300  | 90  | 26  | 0   | 60   | 10  | 0   |
| 184'   | M400  | 114   | 48  | 0   | 94   | 30  | 0   |
| 184'   | M500  | 214   | 92  | 0   | 166  | 51  | 0   |
| 184'   | M600  | 230   | 46  | 0   | 190  | 58  | 0   |
| 194'   | M110  | 26  | 6   | 0   | 16   | 0   | 0   |
| 194'   | M210  | 62  | 14  | 0   | 46   | 0   | 0   |
| 194'   | M310  | 108   | 32  | 0   | 78   | 14  | 0   |
| 194'   | M410  | 120   | 62  | 0   | 102  | 21  | 0   |
| 194'   | M510  | 232   | 46  | 0   | 190  | 28  | 0   |
| 203'   | M200  | 40  | 4   | 0   | 30   | 0   | 0   |
| 203'   | M300  | 88  | 20  | 0   | 54   | 4   | 0   |
| 203'   | M400  | 112   | 46  | 0   | 92   | 8   | 0   |
| 203'   | M500  | 206   | 46  | 0   | 156  | 11  | 0   |
| 203'   | M600  | 238   | 52  | 0   | 200  | 16  | 0   |
| 213'   | M110  | 26  | 0   | 0   | 16   | 0   | 0   |
| 213'   | M210  | 60  | 12  | 0   | 46   | 0   | 0   |
| 213'   | M310  | 104   | 30  | 0   | 72   | 0   | 0   |
| 213'   | M410  | 118   | 38  | 0   | 100  | 0   | 0   |
| 213'   | M510  | 228   | 41  | 0   | 174  | 0   | 0   |
| 222'   | M200  | 40  | 0   | 0   | 30   | 0   | 0   |
| 222'   | M300  | 82  | 16  | 0   | 52   | 0   | 0   |
| 222'   | M400  | 108   | 26  | 0   | 90   | 0   | 0   |
| 222'   | M500  | 198   | 32  | 0   | 142  | 0   | 0   |
| 232'   | M110  | 24  | 0   | 0   | 14   | 0   | 0   |
| 232'   | M210  | 58  | 8   | 0   | 42   | 0   | 0   |
| 232'   | M310  | 100   | 14  | 0   | 66   | 0   | 0   |
| 232'   | M410  | 116   | 18  | 0   | 98   | 0   | 0   |
| 241'   | M200  | 38  | 0   | 0   | 30   | 0   | 0   |
| 241'   | M300  | 76  | 4   | 0   | 50   | 0   | 0   |
| 241'   | M400  | 106   | 8   | 0   | 86   | 0   | 0   |
| 251'   | M110  | 22  | 0   | 0   | 14   | 0   | 0   |
| 251'   | M210  | 54  | 0   | 0   | 38   | 0   | 0   |
| 251'   | M310  | 96  | 0   | 0   | 60   | 0   | 0   |



# TITAN TOWER



The Titan tower has been a favourite in light duty applications for more than 30 years. With more than 15,000 Titan towers installed in North America, this model has been used for Telemetry, Satellite TV, Wireless LAN, Wireless internet, mobile Radio and Amateur applications.

The Titan is a versatile, modular, pre-engineered tower that requires a minimal footprint and is available in heights ranging from 16 to 96 feet.

## TITAN SPECIFICATIONS

- Self-Support (free-standing)
- 45" face width
- "Survival" Tower Line
- Maximum height at minimum cost
- Ships assembled in 8ft sections to minimize installation and assembly time
- Ships nested to minimize freight cost
- Maximum height: 96ft
- Section height: 8ft

## TITAN APPLICATIONS

- Ideal for SCADA/remote monitoring
- Two-Way radio
  - EMS, Police, Fire, etc.
  - Companies with personal fleets (trucking companies etc.)
- Wireless Internet Service Providers (WISP)
- Surveillance applications
  - Camera towers

## THE TITAN DIFFERENCE

- Maximum height, minimum cost Self-Support option
- Tower ships assembled
- 96ft tower ships on one skid



Titan tower - 80ft T400 model



Typical antenna install on a Titan tower



Tower ships nested to minimize freight





# TITAN TOWER



## WIND LOAD CHARTS

| HEIGHT | MODEL | Allowable antenna area in ft <sup>2</sup> at 70/85/100mph - Survival - no ice (round) |    |     | Allowable antenna area in ft <sup>2</sup> at 70/85/100mph - Survival - 1/2" ice (round) |    |     |
|--------|-------|---|----|-----|---|----|-----|
|        |       | 70  | 85 | 100 | 70  | 85 | 100 |
| 16'    | T200  | 16  | 9  | 4   | 2   | -  | -   |
| 16'    | T300  | 28  | 16 | 9   | 3   | -  | -   |
| 16'    | T400  | 39  | 24 | 15  | 10  | -  | -   |
| 16'    | T500  | 64  | 41 | 27  | 24  | 1  | -   |
| 16'    | T600  | 87  | 55 | 36  | 36  | 6  | -   |
| 16'    | T700  | 108   | 69 | 47  | 60  | 18 | 2   |
| 16'    | T800  | 132   | 86 | 58  | 80  | 32 | 6   |
| 24'    | T200  | 16  | 8  | 3   | 2   | -  | -   |
| 24'    | T300  | 24  | 12 | 5   | 3   | -  | -   |
| 24'    | T400  | 39  | 23 | 14  | 10  | -  | -   |
| 24'    | T500  | 60  | 36 | 21  | 24  | 1  | -   |
| 24'    | T600  | 76  | 46 | 29  | 36  | 6  | -   |
| 24'    | T700  | 94  | 58 | 37  | 60  | 18 | 2   |
| 24'    | T800  | 131   | 85 | 57  | 80  | 32 | 6   |
| 32'    | T200  | 16  | 6  | -   | 2   | -  | -   |
| 32'    | T300  | 24  | 13 | 6   | 3   | -  | -   |
| 32'    | T400  | 39  | 24 | 12  | 10  | -  | -   |
| 32'    | T500  | 56  | 32 | 17  | 24  | 1  | -   |
| 32'    | T600  | 70  | 40 | 23  | 36  | 6  | -   |
| 32'    | T700  | 95  | 59 | 37  | 60  | 18 | 2   |
| 32'    | T800  | 132   | 86 | 57  | 80  | 32 | 6   |
| 40'    | T200  | 16  | 6  | -   | 2   | -  | -   |
| 40'    | T300  | 25  | 13 | 4   | 3   | -  | -   |
| 40'    | T400  | 40  | 20 | 8   | 10  | -  | -   |
| 40'    | T500  | 52  | 27 | 12  | 24  | 1  | -   |
| 40'    | T600  | 70  | 40 | 23  | 36  | 6  | -   |
| 40'    | T700  | 95  | 59 | 37  | 60  | 18 | 2   |
| 40'    | T800  | 132   | 79 | 47  | 80  | 32 | 6   |

| HEIGHT | MODEL | Allowable antenna area in ft <sup>2</sup> at 70/85/100mph - Survival - no ice (round) |    |     | Allowable antenna area in ft <sup>2</sup> at 70/85/100mph - Survival - 1/2" ice (round) |    |     |
|--------|-------|---|----|-----|---|----|-----|
|        |       | 70  | 85 | 100 | 70  | 85 | 100 |
| 48'    | T200  | 16  | 6  | -   | 2   | -  | -   |
| 48'    | T300  | 25  | 11 | 1   | 3   | -  | -   |
| 48'    | T400  | 37  | 17 | 4   | 10  | -  | -   |
| 48'    | T500  | 50  | 27 | 12  | 24  | 1  | -   |
| 48'    | T600  | 67  | 40 | 23  | 36  | 6  | -   |
| 48'    | T700  | 95  | 59 | 32  | 60  | 18 | 2   |
| 48'    | T800  | 126   | 72 | 40  | 80  | 32 | 6   |
| 56'    | T200  | 16  | 5  | -   | 2   | -  | -   |
| 56'    | T300  | 25  | 9  | -   | 3   | -  | -   |
| 56'    | T400  | 38  | 17 | 4   | 10  | -  | -   |
| 56'    | T500  | 52  | 27 | 12  | 24  | 1  | -   |
| 56'    | T600  | 70  | 40 | 20  | 36  | 6  | -   |
| 56'    | T700  | 95  | 54 | 26  | 60  | 18 | 2   |
| 64'    | T200  | 16  | 3  | -   | 2   | -  | -   |
| 64'    | T300  | 25  | 9  | -   | 3   | -  | -   |
| 64'    | T400  | 39  | 17 | 4   | 10  | -  | -   |
| 64'    | T500  | 52  | 27 | 10  | 24  | 1  | -   |
| 64'    | T600  | 70  | 40 | 15  | 36  | 6  | -   |
| 72'    | T200  | 16  | 3  | -   | 2   | -  | -   |
| 72'    | T300  | 25  | 9  | -   | 3   | -  | -   |
| 72'    | T400  | 39  | 17 | 3   | 10  | -  | -   |
| 72'    | T500  | 45  | 22 | 6   | 24  | 1  | -   |
| 80'    | T200  | 15  | 2  | -   | 2   | -  | -   |
| 80'    | T300  | 25  | 9  | -   | 3   | -  | -   |
| 80'    | T400  | 39  | 17 | 1   | 10  | -  | -   |
| 88'    | T200  | 16  | 3  | -   | 2   | -  | -   |
| 88'    | T300  | 22  | 6  | -   | 3   | -  | -   |
| 96'    | T200  | 15  | 3  | -   | 2   | -  | -   |

Please note: The Titan tower does not conform to TIA/EIA Standard. P.E. Stamped drawings are not available.



The STG Series of towers offers excellent flexibility for a wide range of applications.

An STG tower is available as a freestanding Self-Support Tower with heights up to 15m (50 feet), as a Guyed Tower with heights up to 107m (350 feet) and as a Bracketed Tower with heights up to 30m (100 feet). P.E. stamped drawings are available.

## STG SERIES SPECIFICATIONS

- Versatile tower configurations available: Self-Support, Guyed and Bracketed
- External splice spigots for easy connection between sections (3 bolts per section)
- Built-in Integral Climb Face
- Non-tapered design for ease of installation
  - Every section is the same, eliminates installation confusion
- Designed to conform with ANSI-TIA-222 F&G Standard
- Section height: 10ft

## STG SERIES APPLICATIONS

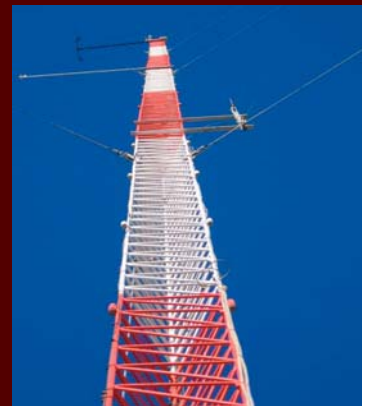
- Oil and gas sites
- Perfect for 40ft SCADA towers
- Wind Monitoring sites
- Small radio towers
- WISPs

## THE STG SERIES DIFFERENCE

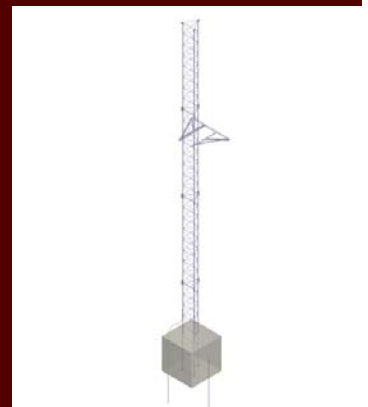
- Solid round leg design compared to pipe leg design:
  - Increased strength
  - Preventing internal leg corrosion
  - Eliminating ice buildup



Self-Support



Guyed



Bracketed





## WIND LOAD CHARTS STG Guyed

| Height | EIA 222-F Wind Load Area in ft <sup>2</sup> 70/90/110mph - no ice |       |        | EIA 222-F Wind Load Area in ft <sup>2</sup> 70/90/110mph - 1/2" ice |       |        |
|--------|---|-------|--------|---|-------|--------|
|        | 70mph   | 90mph | 110mph | 70mph   | 90mph | 110mph |
| 40'    | 60  | 32    | 22     | 48  | 36    | 18     |
| 50'    | 57  | 31    | 22     | 46  | 33    | 17     |
| 60'    | 54  | 31    | 21     | 44  | 30    | 16     |
| 70'    | 52  | 30    | 20     | 43  | 27    | 14     |
| 80'    | 51  | 30    | 20     | 41  | 24    | 13     |
| 90'    | 48  | 29    | 19     | 40  | 21    | 12     |
| 100'   | 45  | 28    | 18     | 38  | 18    | 11     |
| 110'   | 42  | 28    | 18     | 37  | 15    | 8      |
| 120'   | 39  | 27    | 18     | 35  | 13    | 4      |
| 130'   | 37  | 27    | 17     | 33  | 12    | 2      |
| 140'   | 36  | 26    | 16     | 31  | 10    | -      |
| 150'   | 34  | 25    | 15     | 29  | 9     | -      |
| 160'   | 33  | 25    | 15     | 28  | 8     | -      |
| 170'   | 32  | 24    | 14     | 26  | 7     | -      |
| 180'   | 31  | 24    | 13     | 25  | 5     | -      |
| 190'   | 30  | 23    | 13     | 23  | 4     | -      |
| 200'   | 29  | 22    | 12     | 22  | 3     | -      |
| 210'   | 28  | 22    | 12     | 20  | -     | -      |
| 220'   | 28  | 22    | 11     | 19  | -     | -      |
| 230'   | 27  | 21    | 10     | 17  | -     | -      |
| 240'   | 27  | 21    | 9      | 15  | -     | -      |
| 250'   | 26  | 20    | 9      | 13  | -     | -      |
| 260'   | 25  | 20    | 7      | 12  | -     | -      |
| 270'   | 25  | 19    | 7      | 10  | -     | -      |
| 280'   | 24  | 18    | 6      | 8   | -     | -      |
| 290'   | 24  | 18    | 3      | 7   | -     | -      |
| 300'   | 23  | 16    | 3      | 5   | -     | -      |
| 310'   | 22  | 15    | -      | 4   | -     | -      |
| 320'   | 22  | 15    | -      | 2   | -     | -      |
| 330'   | 21  | 14    | -      | -   | -     | -      |
| 340'   | 21  | 13    | -      | -   | -     | -      |
| 350'   | 20  | 13    | -      | -   | -     | -      |

## STG Self-Support

| Height | EIA 222-F Wind Load Area in ft <sup>2</sup> at 70/90/110mph |       |        |
|--------|---|-------|--------|
|        | 70mph   | 90mph | 110mph |
| 10'    | 54  | 30    | 20     |
| 20'    | 45  | 25    | 15     |
| 30'    | 25  | 12    | 7      |
| 40'    | 12  | 7     | -      |
| 50'    | 7   | -     | -      |

| Height | Survival Wind Load Area in ft <sup>2</sup> at 70/90/110mph - 1/2" ice |       |        |
|--------|---|-------|--------|
|        | 70mph   | 90mph | 110mph |
| 10'    | 90  | 50    | 36     |
| 20'    | 75  | 44    | 28     |
| 30'    | 45  | 24    | 14     |
| 40'    | 27  | 13    | 7      |
| 50'    | 17  | 8     | 2      |

## STG Bracketed

| Cantilever Length "C" (above bracket) | Height Range | EIA 222-F Wind Load Area in ft <sup>2</sup> at 70/80/90mph - no ice |       |       |
|---------------------------------------|--------------|---|-------|-------|
|                                       |              | 70mph   | 80mph | 90mph |
| 10'                                   | 20' to 60'   | 84  | 62    | 52    |
|                                       | 70' to 90'   | 78  | 60    | 46    |
| 20'                                   | 30' to 100'  | 46  | 34    | 25    |
| 30'                                   | 40' to 110'  | 26  | 18    | 13    |
| 40'                                   | 50' to 120'  | 15  | 10    | 6     |

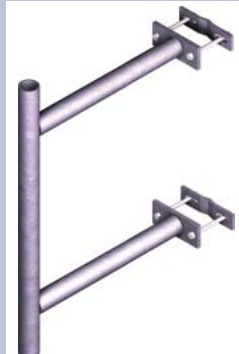
| Cantilever Length "C" (above bracket) | Height Range | TIA 222-G Wind Load Area in ft <sup>2</sup> at 85/100/110mph - no ice |        |        |
|---------------------------------------|--------------|---|--------|--------|
|                                       |              | 85mph   | 100mph | 110mph |
| 10'                                   | 20' to 60'   | 91  | 66     | 54     |
|                                       | 70' to 90'   | 84  | 60     | 50     |
| 20'                                   | 30' to 100'  | 37  | 25     | 20     |
| 30'                                   | 40' to 110'  | 20  | 12     | 9      |
| 40'                                   | 50' to 120'  | 10  | 5      | 3      |

Important note for all charts: Allowable antenna areas are based on one 1/2" and one 7/8" transmission line per 10 square feet; loads being currently located and balanced over the tower top; all round members; and no ice.

## ACCESSORIES

### STANDOFF MOUNTS

- Mounts to up to 11" OD Legs  
Tapered or Vertical
- Light 2' to 6' (in 1' increments),  
Medium 1' to 3' (in 1' increments),  
Heavy 6' and 8'
- Standoffs are a perfect mounting solution for wireless omnidirectional antennas or dishes.



### SHELTER STEPS

- Handrails are also offered in both step styles.
- Can be purchased for single or double-sided application, or separately at a later date.



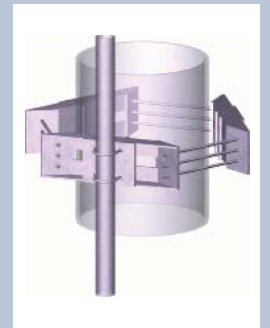
### Arms

- Single Arm Standoffs are perfect for tower offsets. Alone they provide an offset for mounting antenna pipes. As a group they provide a support system for multiple antennas or face mounted sector frames.
- Wireless Arms are used to install small antennas to a tower structure. Made from 11" OD structural rails and are offered in five standard widths.



### Monopoles

- Monopole Components: attach directly to Ring Assemblies or standoffs using two 1/2" U-bolt assemblies.
- Monopole Wireless Arm Assemblies: used for single sector applications and can support up to three antennas.
- Monopole Standoff with Pipe Mount: Typically used for single antenna systems, but can also be used as a part of a horizontal system.
- Monopole T-Arm Kit: used for easy sector installation. Comes in three sizes; 10, 12', and 15' outside pipe centered distance.
- Monopole Co-Location T-Frame Kit: A complete co-location solution. They come standard with our 12" to 60" universal ring assembly, three adjustable standoffs, and three HSS cross arms with welded connection plates available.



### Platforms

- Low Profile Co-Location Platform: Made standard with a universal ring assembly and three of each of the following: standoffs, knee braces, and cross arms.
- Handrails for Low Profile Platform: Provides an enclosed working area for increased personal safety, while also adapting both our mono pole and rotatable co-location platforms to allow two attachment points for pipe mount kits.



Trylon



## ACCESSORIES

### Frames

- **Wireless Frames:** Used for mounting sector antennas in a wireless system. Can be positioned anywhere along the frame to achieve specific antenna separation.
- **Face Mounted Wireless Frames:** used to mount a sector of antennas
- **Face Mounted Microwave Frames:** used to stall microwave dishes to a tower face, or when an apex mount cannot achieve the proper dish azimuth.
- **Lightweight T-Frames:** used for sectorized applications using small antennas.
- **T-Frame Sector Mounts:** Sector diversity is achieved through the leg offset, by either rotating the mount about the tower leg.



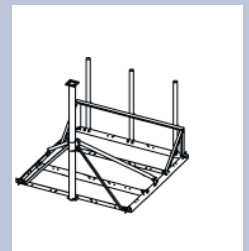
### Spine Mounts

- **Low Profile Rotatable Spine Mounts:** Similar to our monopole co-location platform, but able to mate to the top of either self-supporting or guyed towers.
- **2-Level Rotatable Spine Mounts:** Like Low Profile Rotatable Spine Mount this mates to top of either self-supporting or guyed towers. It allows for both larger face widths and overall increased antenna loading capability.



### ROOF MOUNT

- Flexible roof mount design
- Optional additions available
- Shroud
- Extra ballast mount
- RRU mounts



### T-STYLE TRANSMISSION LINE BRACKETS

- Designed to mount directly to any type or sized tower leg.
- These brackets provide unique flexibility for your changing needs and can be installed either inside or outside the tower leg.



### UNIVERSAL T-FRAME MOUNT

- Versatile universal T-Frame mount
- Accommodates both tapered and straight tower legs (either round or angular in cross section)
- Can accommodate face widths of up to 10'



## ACCESSORIES

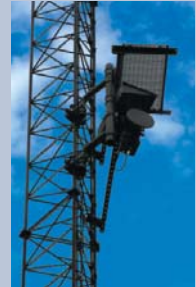
### ERICSSON RRU MOUNT KITS

- Available in 4-way, 3-way and 2-way kits
- Works with any existing tower members including pipe, solid round and angle and various sizes
- Ericsson specific design



### ROTATABLE DISH MOUNT KIT

- Universal nature
- Works on both tapered and non-tapered towers
- 180° turning radius allows for any mobility azimuth
- Quick and easy to install
- Fits all leg sizes up to 8" x 8"



### Work Platforms

- Available to installers mount transmission lines or antennas to any type of sector or co-location mount
- The overhang platform, can attach above arms or pipes ranging up to 4.5' OD
- The hanging platform, mounts below supporting arms up to 4.5' OD in size



### ROOF TOP COAX KITS

- Ideal for non-penetrating installations of transmission lines.
- Covers along with three UV-resistant 10.1cm PVC sleepers are available in three widths (4-run, 8-run and 12-run) and come standard in 8' lengths.



### CLIP ANGLE & MOUNT KITS

- Provides a strong and secure solution for mounting microwave, directional or omni antennas



### ICE SHIELD KITS

- Protects parabolic or high performance dishes up to 15' in diameter
- Attaches up to a 4.5" OD round members with the standard hardware



### ADDITIONAL ACCESSORIES

- Cable Safety Climb system
- Cross-over assemblies
- Wireless frames
- Tower Lighting
- Monopole Accessories
- Boomerang brackets
- Guy material
- U-bolt clips
- Work platforms





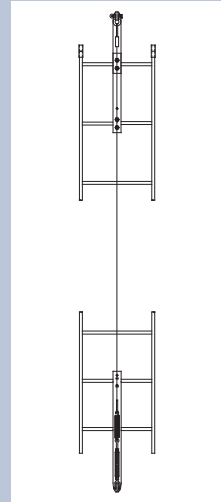
## COUGAR FALL ARREST SLIDER

- Suitable for 3/8" or 5/16" diameter wire rope



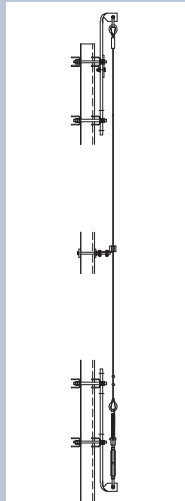
## COUGAR 3/8" SAFETY CABLE SYSTEM LADDER-MOUNT

- Available in 3/8" or 5/16" kits with or without fall arrest slider and karabiner



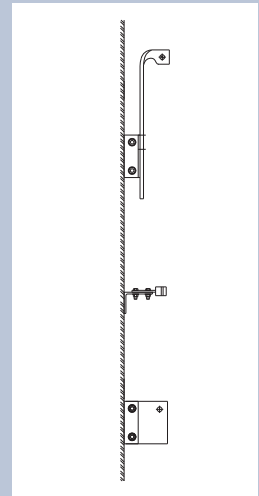
## COUGAR 3/8" SAFETY CABLE SYSTEM LEG-MOUNT

- Available in 50' to 400' kits
- Attaches to angle leg (60° and 90°) up to 4"x4", and round leg towers up to 3.75" OD



## COUGAR 3/8" SAFETY CABLE SYSTEM STEP-BOLT MONOPOLE

- Available in 50' to 350' kits



*Trylon has developed and manufactured safety climb equipment since 1965. Our protection systems are OSHA and ANSI/CSA compliant.*

**If you don't see an item that suits your needs please contact us so we can provide a solution.**





**TRYLON®**

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