

RFS parabolic antenna

Towerload due to wind and ice

HTX 10HP/1

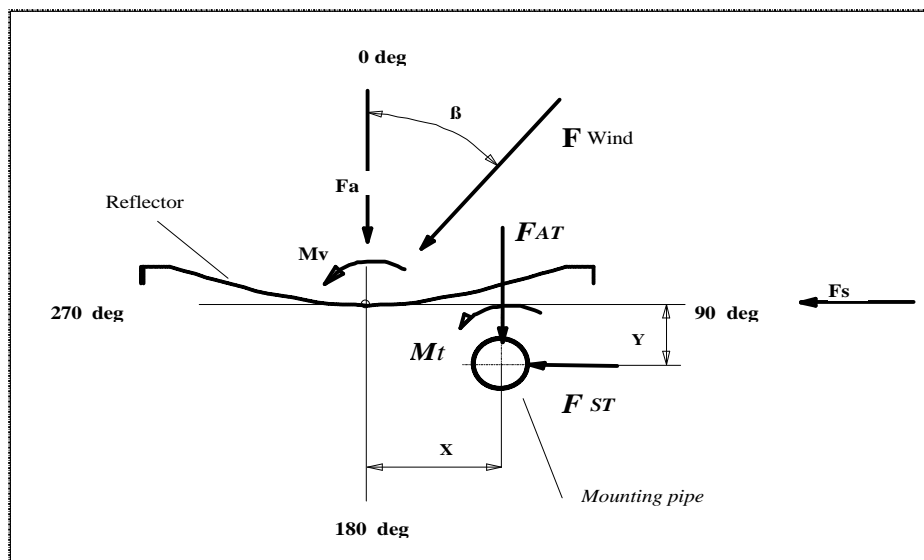
Productseries: Microwave
 Antenna type: High Performance
 RFS-Code: DA, DAX, UA, UDA, UXA
 Antenna size: 10 ft

1. Towerload due to wind:

Forces and Twisting Moment at the mounting pipe for a windvelocity of: **200 km/h**

Please note, that the individual maximums may not occur simultaneously.

| β [deg] | FAT [N] | FST [N] | Pipe 114mm | Pipe 219mm |
|-----------------------------------|--------------|-------------|--------------|--------------|
| | | | Mt [Nm] | Mt [Nm] |
| 0 | 19370 | 0 | 3680 | 4450 |
| 30 | 18590 | 3600 | 2310 | 3270 |
| 60 | 14510 | 5640 | 4400 | 5320 |
| 90 | -1680 | 9590 | 8090 | 8600 |
| 120 | -10920 | 6720 | 5520 | 5480 |
| 150 | -14690 | 2700 | 1250 | 820 |
| 180 | -15600 | 0 | -2960 | -3590 |
| 210 | -14690 | -2700 | -6840 | -7590 |
| 250 | -8280 | -8160 | -10240 | -11060 |
| 270 | -1680 | -9590 | -8730 | -9370 |
| 300 | 14510 | -5640 | 1110 | 1360 |
| 330 | 18590 | -3600 | 4750 | 5280 |
| 345 | 19280 | -2090 | 4700 | 5350 |
| Maximum (F max. ; M max.): | 19370 | 9590 | 10240 | 11060 |



2. Towerload due to antenna weight with and without ice:

| | | | | |
|--|------------|-----|-----|-----|
| Thickness of the radial ice-layer [mm] | 0 | 10 | 20 | 30 |
| Antenna weight (approx.) [kg] | 360 | 547 | 733 | 920 |

