

Structural

Cable supported structures are well used in modern architecture; not only can cables offer very attractive design possibilities, but cables also offer possibilities that are unable to achieve with steel or concrete. Cable structures are light and elegant. Whether bridges, roof structures, towers or an observation wheel; each construction demands high standards regarding dimensional accuracy, design, production and erection.

A cable stayed solution for medium to long-span bridges or for smaller footbridges might be the choice just for weight reduction or aesthetical reasons. FibreMax lightweight precision cables are the right choice for these cables.

Also towers for telecommunication or antennas can be stabilized using FibreMax lightweight precision cables; ease of handling, non corrosive properties and the lack of electrical conduction make them ideal for these applications.

For large observation wheels (e.g. London Eye or the Beijing Great Wheel) the lightweight precision cables from FibreMax offer major advantages in terms of weight reduction, ease of handling, easier construction and maintenance.



FibreMax can provide the bridge engineering or structural engineering industry with cables that suit their most demanding requests. FibreMax lightweight precision cables have the following characteristics:

- 80 to 90% lower weight than steel wire *).
- 10% lower diameters than steel wire *).
- No construction stretch.
- Length tolerance 0,1 mm per meter
- Lifespan up to 40 years (depending on usage).
- Maintenance free.
- No electrical conduction
- Higher natural frequency
- Ease of handling

(*) When compared at the same break load).

Cables produced by FibreMax are available in any break load, diameter and length. The increased strength and significant weight reduction over traditional material as steel offer many advantages in easier handling, safer and faster operations and downsizing of constructions.

Examples for typical FibreMax applications are:

- Cable-stayed bridges
- Suspension bridges
- Tied arch bridges
- Cable stayed roof structures
- Office buildings, airport terminals or other modern art structures
- Observation wheels
- Guyed towers and antennas
- Stationary cables for ski lifts

FIBREMax
All fibres used to the Max...

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