

## *New Milano Fair*

The "New Milano Fair" was designed from the ground up to be the biggest fairground of the world with an exhibition space of 2 millions m<sup>2</sup>. The Exhibition halls are connected by a freeform roof called VELA (Italian for sails).

### EMMERLING GMBH

- > specialized in steel and glass structures
- > founded in 1999
- > 3 seats Advance – Steel Suite
- > important projects: Aqua Park Moscow, Lehrter Stadtbahnhof (city train station) Berlin, BBC London, Teheran Tower



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## Challenges

- > Modeling of 190 different „tree“ columns
- > drawings must be created according to contractor requirements

## Solution

- > Software used:  
**Advance - Steel Suite**
- > Automatic drawing creation and modeling of the tree columns and crosses with mechanical parts in 3D



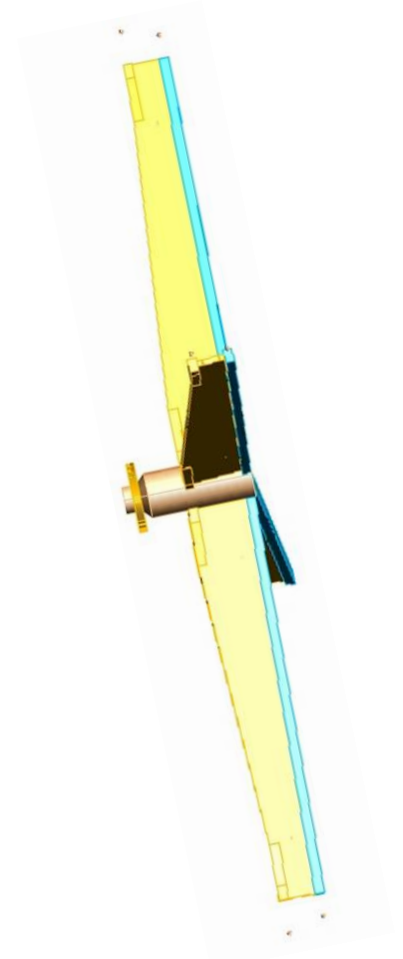
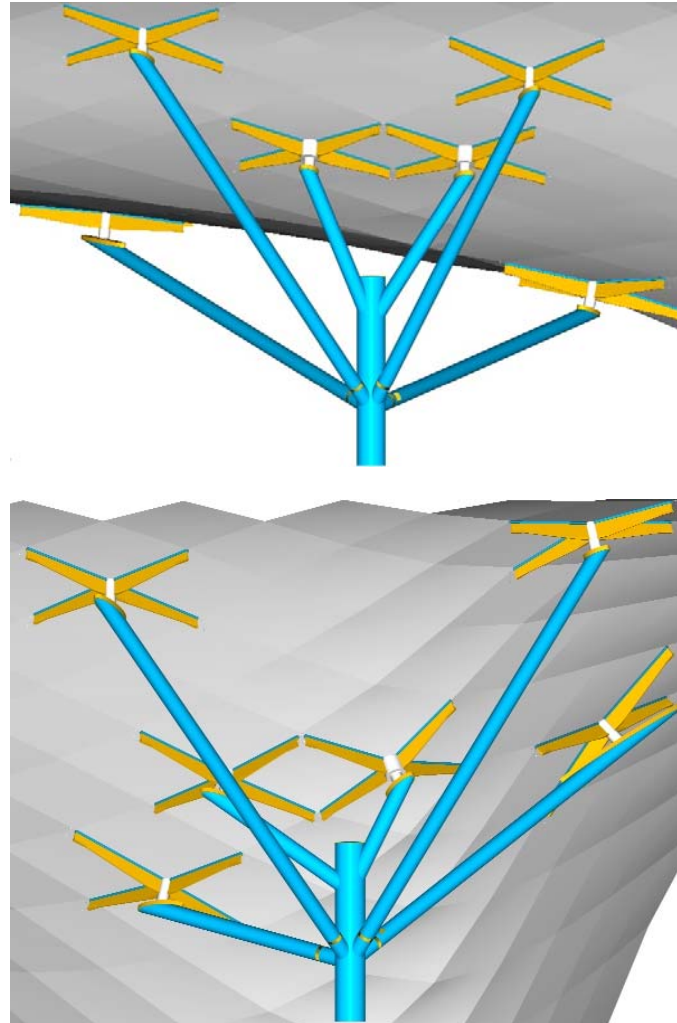
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## Numbers:

- > 190 tree columns
- > 500 crosses + secondary beams
- > 2.300 A0 plans

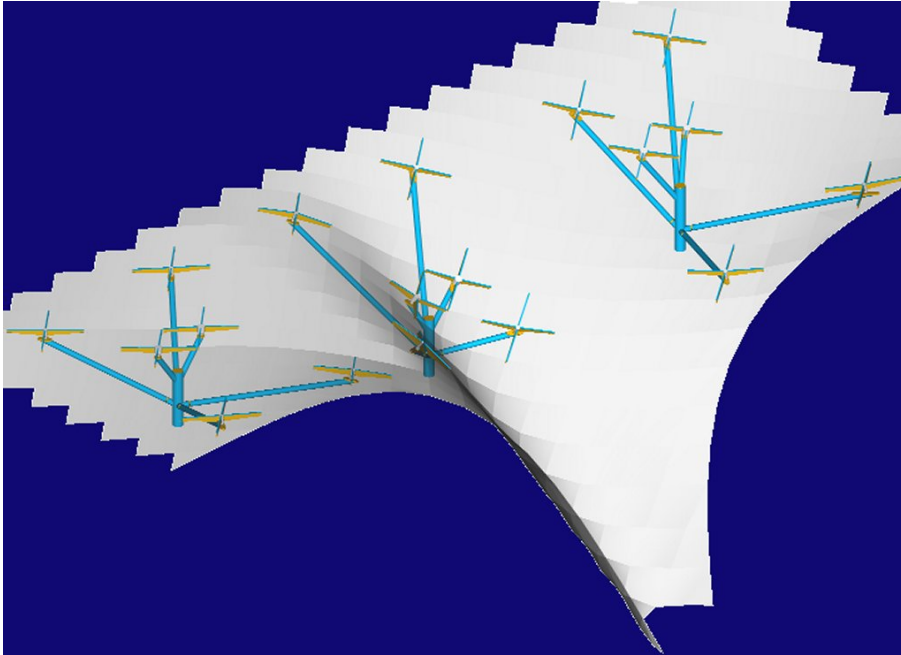
## VELA:

- > 1,3 km length
- > average height of 16m
- > Width: 32 - 41m
- > Area: 46.300m<sup>2</sup>
  - => 10 soccer fields
- > Mass: 2.000t of steel



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Emmerling GmbH has worked with  
Advance - Steel Suite since 1999

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