

Hangar for new Airbus A380, Toulouse - France

Lifting of a two-part roof hangar



▲ Building site in Toulouse – France, erection of hangar

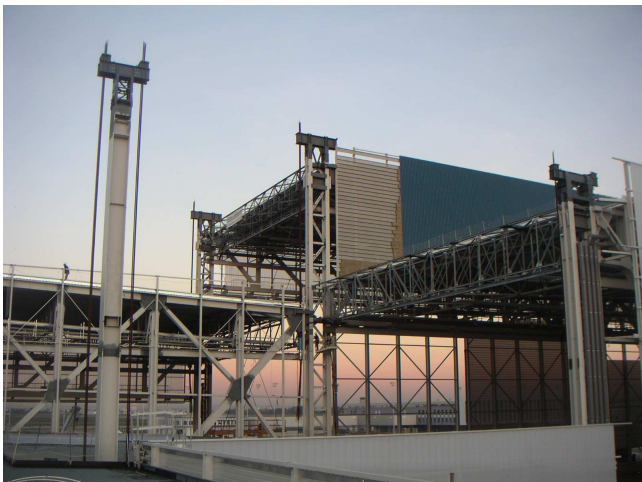
Scope of works performed

Lifting of two roof structures up to 37 m with a weight of 1.600 t each. Special composition: units mounted on ground, roof climbing up cables fixed with anchors at 37 m high tiles.

In Toulouse, on the site of assembly of the new aircraft AIRBUS A 380, VSL took an important part in the construction of the new reception hall (200 x 95 m). VSL lifted, up to 37 m , the two parts of the hangar roof weighing each 1600 t. VSL needed less than one day to lift

each roof up to the final position at the top of the columns.

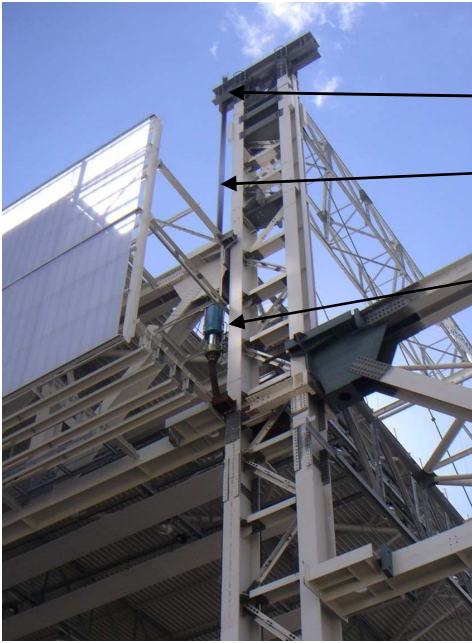
The required 12 strands lifting units have been synchronized thanks to the VSL BRAVO monitoring system in order to respect the design constraining tolerances of level and load distribution in the bolted frame.



▲ Lifting piles 37 m high for roof movement



▲ Lifting units in parallel connection – installed under the roof upside down



VSL end anchorage fixed at top of column.

Strand bundle of 31 compacted strands.

VSL lifting unit SLU 330.



OWNER
Airbus France

MAIN CONTRACTOR
Ingerop France

STEELWORK + ENGINEERING:
Castell & Fromaget

LIFTING, EQUIPMENT RENTAL & ENGINEERING:
VSL Heavy Lifting & Altéad

Detail SLU 330
In upright position.

The arrangement of units has been: 4 times SLU 330 + 4 times SLU 70 + 2 times 2 SLU 120 connected in parallel.

VSL took part from the start of the project in engineering, equipment and realization of lifting work. On the site had to be erected an arrangement of 10 lattice towers on each mounted an anchor, which fixed the cables, and on ground at the roof construction the mounted lifting units.

Both roofs are connected and were lifted in one step until reaching final position.



▲ Arrangement of anchors at columns with hangar still on the ground

▼ Work completed both parts lifted



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