



## FURNISHING AIRBUS A380



## FLEXIBLE AND MOVEABLE PLATFORMS FOR THE INTERIOR FURNISHING OF AIRBUS A380

For the production of this modern and unique aircraft, which has two passenger decks along its entire length, in 2003 MCE was awarded for supply and commissioning of 6 units of flexible, ergonomically designed, movable platforms for the furnishing of the new A380 series by Airbus.

The four-engine long-range jet provides a capacity in the base version of 555 passengers and is equipped with the latest in technology. The platforms are designed in such a way that the entire A380 family (700, 800, 800F, 900, and MAX) can be processed.

Each work area was designed, fabricated, installed and commissioned after successful assembly at the client's. The plant consists of different individual platforms and tools, all oriented in function to the requirements of the assembly and logistics processes for the A380 family.

The engineering work was implemented using Catia V5. 7,500 individual parts, including repeated parts and fasteners, result in a data size of about 28 gigabytes and give some indication of the complexity of the project.

The components were preassembled as far as possible and tested in Linz. After delivery with three ships per work area to Hamburg, the components finally were assembled and commissioned.

In order to nearly completely contain the two passenger decks and to compensate for the positioning imprecision of the Aircraft, each work area was equipped with a great number of flaps, drawers and about 170 electrical motors.

The system is operated from a central command console and multiple operating terminals. To prevent any damage to the aircraft and query all positions of the motors, about 2,800 I/O signals are processed by a PLC system.

### Facts & Figures:

Steel construction:	6 x 160 = 960 t	Cable laid:	6 x 20,000 = 120,000 m
Platform surface:	6 x 1,200 = 7,200 m <sup>2</sup>	Customer:	Airbus Deutschland GmbH
Motors:	6 x 170 = 1,020 units	Project period:	2003 - 2007

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