

AIRBUS A380 - FURNISHING PLATFORMS



Flexible and Moveable Platforms for the Interior Furnishing of Airbus A380

Hamburg, Germany - In 2003, MCE was awarded for supply and commissioning of 6 units of flexible, ergonomically designed, movable platforms to furnish the new A380 series by Airbus.

A380 is a modern and unique aircraft with two passenger decks along its length. The four-engine long-range jet provides a capacity in the base version of 555 passengers and is equipped with the latest technology.



The furnishing platforms are designed to process the entire A380 family (700, 800, 800F, 900, and MAX). Each work area was designed, fabricated, installed, and commissioned after successful assembly at the client. The furnishing stations consist of different individual platforms and tools, all oriented in function to the assembly and logistics requirements for the A380 family.

The engineering work was implemented using Catia V5 with a data size exceeding 28 gigabytes, indicating the project's complexity.

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

In order to surround the two passenger decks and compensate for the imprecision positioning of the Aircraft, each work area was equipped with a significant 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 ²
Customer:	Airbus Deutschland GmbH
Motors:	6 x 170 = 1,020 units
Project period:	2003 - 2007