

ASSEMBLY LINE WIDE-BODY LONG-RANGE



Assembly Line for Airbus Long Range Aircraft

Hamburg-Finkenwerder, Germany - At the beginning of March 2005, Airbus awarded MCE an assembly line project for Airbus wide-body aircraft at the Hamburg-Finkenwerder plant.

The commissioning of this new production line in April 2006 represented the first application of the moving assembly object principle to the equipping of Wide Body / Long Range aircraft bodies.



Airbus aircraft in the categories A300, A330, and A340 move in the production line on rail-guided moving devices between two-story scaffolding platforms. MCE's turnkey scope of work included the engineering, fabrication, construction, and commissioning of the overall system, including electrical, mechanical, and pneumatic equipment. One focus of the design was developing a flexible moving device to support the different types of aircraft. The customer acceptance of a moving device prototype in Linz marked the successful conclusion of this development phase. MCE Slaný, the group's facility in the Czech Republic, performed most of the fabrication and preassembly of the moving devices. The steel frame construction of the fixed scaffolding, with dimensions of 4,000 m², the ten moving devices in all, and two drive units were completed on schedule in December of 2005 after one month of construction.

After implementing the mechanical, pneumatic, and electrical components, introducing the first aircraft body into the assembly line occurred at the end of February 2006. After successful acceptance, the entire system went into production at the beginning of June 2006.

Facts & Figures:

Steel construction:	1,100 t
Customer:	Airbus Deutschland GmbH
Weight of loading frame:	70 t
Project period:	2005 - 2006
Dimension of loading frame:	28.5 x 8.5 x 7.0 m