

A321 ACF - SEA CONTAINER FOR SUPERSHELL INCL. TRANSPORT TROLLEY



Hamburg, Finkenwerder – 2017/2018 Airbus Operations GmbH placed an order to MCE GmbH to assign 15 + 8 optional sets of Sea Container including a transport trolley for the transport of the new A321 ACF Supershell from Premium Aerotec Nordenham to Airbus Hamburg by Airbus owned vessels.

MCE GmbH delivered these sets turnkey, including concept, engineering, manufacturing, assembly, and commissioning, to our customer Airbus's complete satisfaction.



Premium Aerotec Nordenham produces this Supershell for the A321, and Airbus Hamburg Finkenwerder does the assembly together with other shells in their stations. For this necessary transport operation, a solution was requested that can resist the climatic condition on the one hand and the storage requirements of the aircraft part on the other hand. Besides the water transport, and ashore carrier by a RoRo-Truck had to be considered.

Seawater transport has special requirements for corrosion protection. Our sea container design is in line with the standard EN 12944 Category C5-M. These Containers consist of robust steel baseplates and steel frame housing. This housing is clad with insulated sandwich panels to reduce impacts caused by changing temperature. A dehumidifier and a heating system provide necessary climate conditions. An electrically driven overhead door was installed at the front to access the Container with the Trolley. Steerable heavy-duty wheels on the rear side directed by a remote-control system and a MAFI coupling on the front side allow the transport with the RoRo-Truck.

To transport the Supershell, a Trolley was designed which support the Supershell and fixes it with an adapter system for the hoisting fittings. The Trolley is guided and fixed by a lateral guiding system that includes connections to keep the Trolley safely during transport. No additional slings or chains are needed for the fixation.

Thanks to the excellent team, we were able to meet all these criteria to the complete satisfaction of Airbus.

Facts & Figures:

Customer:	Airbus Operation GmbH
Project Period:	2017-2019
Number of Container:	15 set + 8 set in option (Container with Transport-Trolley)
Dimension of Container:	L=14 m x W=6 m x H=7m
Empty weight of Container:	approx. 60 t
Empty weight of Transport-Trolley:	approx. 5 t