A321 ACF - SEA CONTAINER FOR SUPER SHELL
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 super shell 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 the full satisfaction of our customer Airbus.

Premium Aerotec Nordenham produces this super shell 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 which is capable to resist the climatic condition on the one hand and the storage requirements of the aircraft part on the other hand. Beside the water transport also a ashore transport by a RoRo-Truck had to be considered.

These containers consist of robust steel baseplates and a steel frame housing. This housing is cladded with insulated sandwich panels to reduce impacts caused by changing temperature. A dehumidifier and a heating system provides necessary climate conditions. Due to the water transport special requirements for the corrosion protection were asked which are in line with the standard EN 12944 Category C5-M. To access the container with the trolley an electric driven overhead door was installed at the front of the container. 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.

For the transport of the super shell a trolley was designed which supports the super shell and fixes it with an adapter system for the hoisting fittings. The trolley is guided and fixed by a lateral guiding system that also includes connections to keep the trolley in a save position during the 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 full satisfaction of Airbus.

Facts & Figures:

<table>
<thead>
<tr>
<th>Dimension of container:</th>
<th>L=14 m x W=6 m x H=7m</th>
<th>Empty weight of container:</th>
<th>approx. 60 t</th>
<th>Empty weight of transport-trolley:</th>
<th>approx. 5 t</th>
<th>Customer:</th>
<th>Airbus Operation GmbH</th>
<th>Project period:</th>
<th>2017 - 2019</th>
<th>Number of container:</th>
<th>15 set + 8 set in option (container with transport trolley)</th>
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</thead>
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