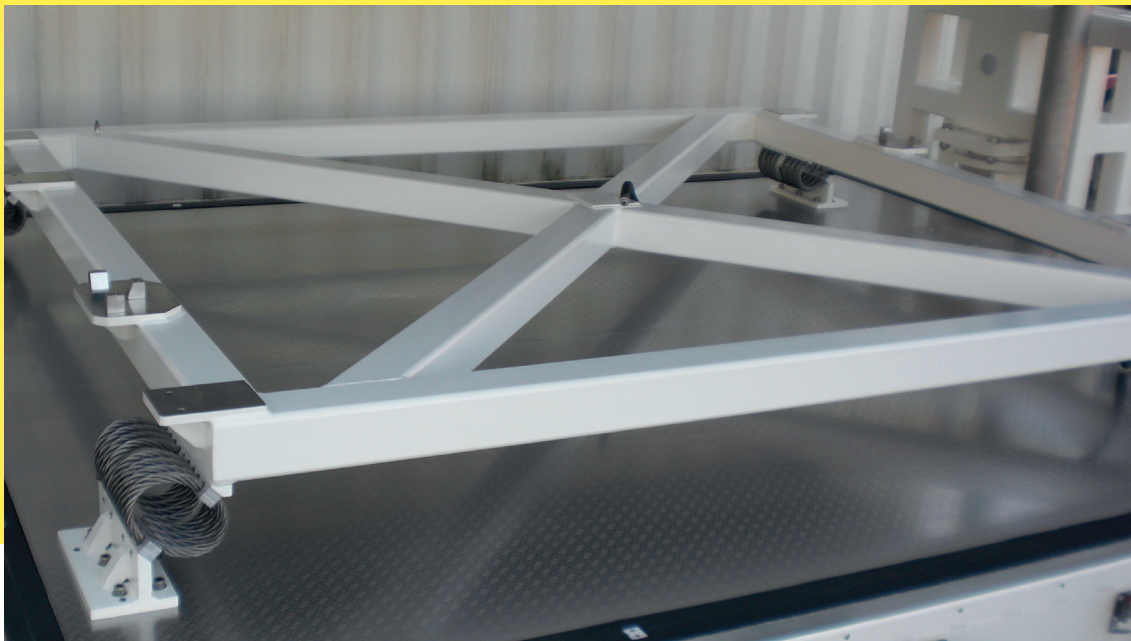


HOSTED PAYLOAD TRANSPORT CONTAINER (HPLTC)



Bremen, Germany - in 2014, MCE was asked by the OHB System AG to create a concept and design for a satellite components transport container. MCE also took over the manufacture and commissioning of the project later.

The sensitive components had to be protected during transport. For this, the corresponding requirements are taken into account and verified from concept design to commissioning.



The container consists of a main frame with integrated retractable castors, a spring-loaded component frame, and an insulated cover.

Our design of the entire system complies with the IATA regulation requirement. The container can overcome the challenge of road, water, and air transportation.

The reaction forces from the various transport routes (road, water, air transport) were absorbed by spring-loaded frames. To avoid condensation and contamination from external conditions, the interior of the container is air-conditioned and designed as a clean room with filters. In order to prevent the container from exploding in the event of a sudden loss of pressure during air transport, a special bursting disc was designed and installed.

During transport, parameters such as temperature, acceleration and air pressure are recorded by a data logger.

Facts & Figures:

Customer: OHB-System AG

Project period: 2014 / 2015

Weight, empty / loaded: 5580 kg / 6175kg

Dimensions: approx. 5,1 m x 2,9 m x 2,4 m