

## Engine MRO solution for MDS / Rolls Royce in Dahlewitz (Germany)

2014 CTI Systems commissioned the new **Overhead Engine Handling System (OEHS)** consisting of an **Engine Transport System** solution with **four variable height working systems (VHWS)** and **one work platform** within the engine test cell for the new Rolls-Royce engine testbed centre in Dahlewitz - Germany where the TRENT XWB engines are tested for Airbus 350-1000.



Fig. Nr. 1: TRENТ XWB Engine  
on one of four CTI Systems VHWS

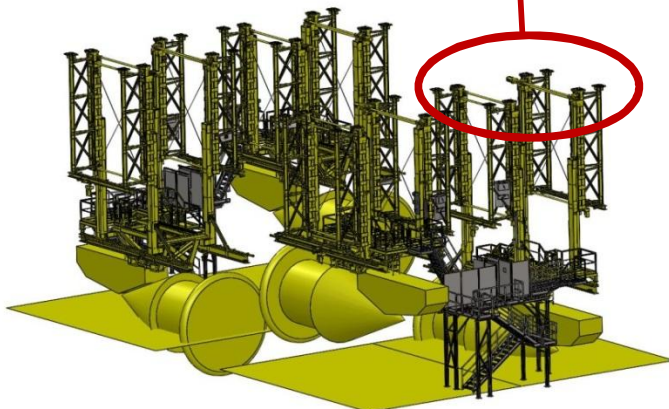
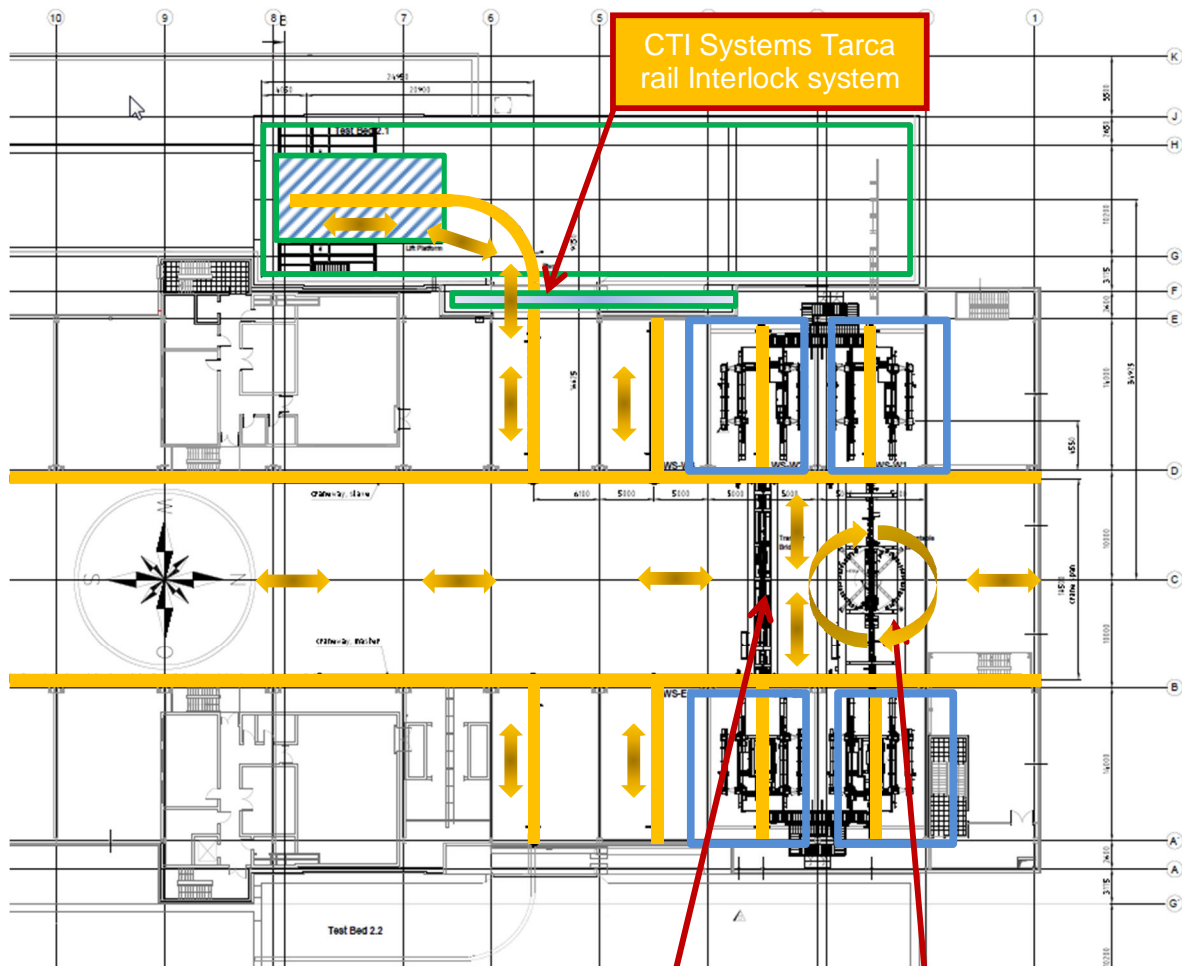


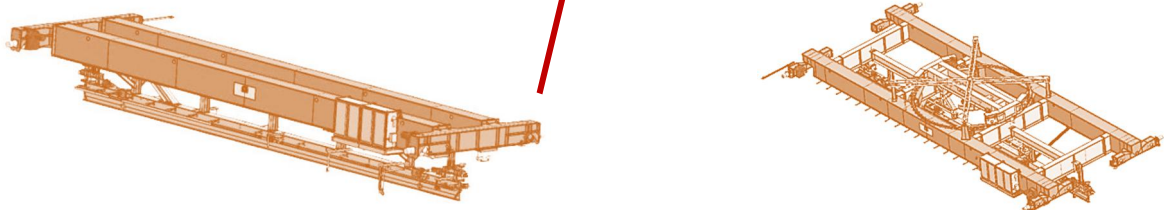
Fig. Nr. 2:  
3D view of VHWS, two placed facing each other

The transport system consists of the CTI Systems standard Tarca Monorail crane system designed for engines up to 50 metric tonnes and includes an integrated 270° turntable with many unique features to enable superior and ergonomic access to Aircraft engines.



**Fig. Nr. 3: Layout & legend**

- 4x VHWS
- Tarca Monorail
- transport & sequencing buffer system
- Test cell
- lift platform



**Fig. Nr. 4 & 5: 3D model transfer bridge (TB) and 270° turntable transfer bridge (TTB)**



**Fig. Nr. 6: Engine and maintenance platform inside test cell**



**Fig. Nr. 7 & 8: Engine transport to test cell (closed test cell door on left side) and detail on Tarca rail interlock system**

## CTI Systems fail safe Interlocking Rail System

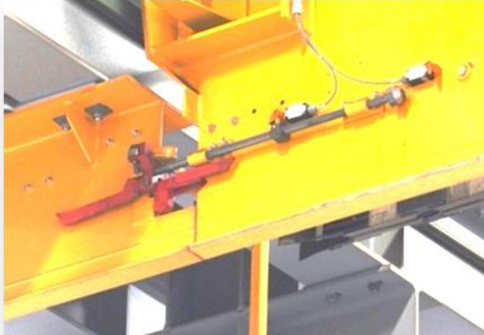


Fig. Nr. 9: Engine fixed on a Station inside test cell

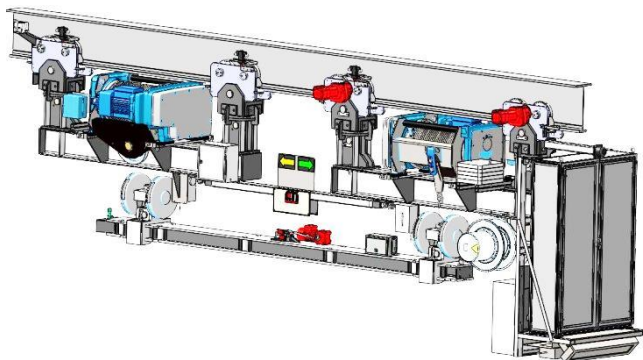
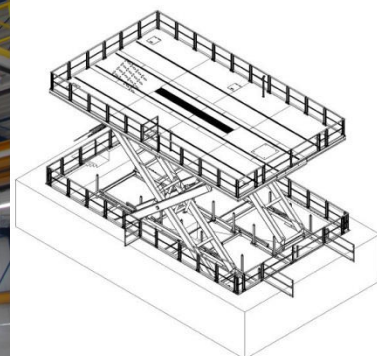


Fig. Nr. 10: 3D model - CTI Systems engine carrier



**Fig. Nr. 10: View inside test cell with engine above the CTI Systems work platform**



**Fig. Nr. 11 & 12: Foto and 3D model with scissor lift work platform at test cell**