

FAST RESPONSE, ON-SITE FLANGE FACING FOR DECK CRANE PEDESTAL FLANGE

CRANE POST FLANGE SURFACE RENEWAL FOR BULK CARRIER IN CHINA

During a short, scheduled dry-docking at COSCO Guangzhou in China, the operator of the Capetan Vassilis, a 10-year-old bulk carrier, encountered unforeseen damage on one of the deck crane pedestal's 2.75-meter diameter flanges.

The operator immediately approached Goltens to inspect the problem and work together with the shipyard to propose a repair solution for the crane. Goltens' on-site machining specialist evaluated the condition and proposed a work schedule that met the time constraints of the docking.

A repair procedure was issued by Goltens and approved by the customer and class. As the dry docking schedule was short, Goltens modified its flange facing machinery and tooling to suit a vertical machining application before order confirmation. Upon confirmation, Goltens immediately dispatched its laser alignment equipment and machining tools and technicians to the shipyard in Guangzhou.

IN-PLACE FLANGE MACHINING CONSISTED OF:

- Performed laser flatness checks on crane post flange number 2
- Performed vertical on-site flange facing machining 3.5mm from the crane pedestal flange surface
- Performed post-machining laser flatness checks confirming flatness within 0.15mm.

ON-SITE MACHINING RESULTS:

Goltens technicians completed this job within 2 days to keep up with vessel's short dry-dock schedule.

The result was excellent and was approved and accepted by the Crane OEM supervisor, the class surveyor and the shipyard QC officer.

PROJECT FACTS:

CAPETAN VASSILIS

Customer:	Saint Michael Shipping Co., Ltd
Vessel Type:	Bulk Carrier
Tonnage:	51,196 DWT
Flange Diameter:	2,755.00mm
Machined Surface:	120mm



Inspection of damaged crane pedestal flange



2.75 meter flange facing in progress