



DAMAGE TO A GRP HULL

Problem:

A cradle with a GRP production motor yacht atop collapsed, causing extensive structural damage to the vessel. The owner of the vessel requested a full assessment of the extent of the damage, which was inspected employing Laser Shearography.

A large hole in the forward part of the hull and a number of connected cracks, did not allow the inspection of the area with a vacuum hood system.

NDE Solution:

The area visibly affected by the impact, was inspected using the inspection rig, attached to the hull by its suction cups, excitation of the area was achieved by a single Piezoshaker.

The rest of the hull was inspected using the vacuum system.



The vacuum hood attached to the side of the GRP production motor yacht

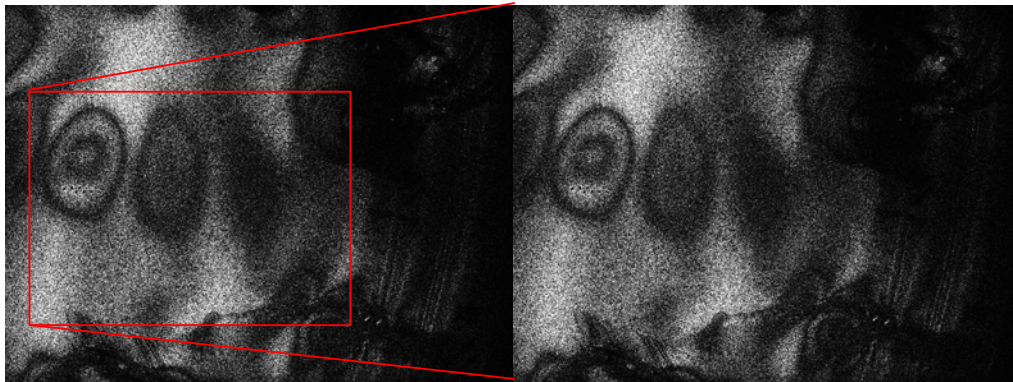
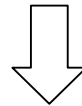
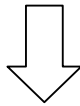
CASE STUDY

The inspection rig placed in way of severe damage to the hull.



Far sensor-surface distance

Short sensor-surface distance



Suction cup rig with sensor in combination with piezoshaker