

## IN-SITU GUIDE RAIL MACHINING XY MILLING FOR A DREDGER IN DRYDOCK

During the dry docking of a dredger in the UAE, Goltens was approached by the ship's owner to determine if we could carry out in-situ milling of the Guide Rail for the ship's Transverse Spud Wagon. As these rails are part of the ship's superstructure, the only option was to machine them in-place.

Inspection revealed that there had been distortion on the guide rails due to welding performed. The distortion affected both rails and covered a distance of over 7 meters of the 12 meter rails.

Goltens immediately mobilized a team of two in-situ machinists to carry out the work and deployed our electric/hydraulic operated three axis milling machine.

### REPAIRS CONSISTED OF:

- Machining of rails on both sides with reference point given by the yard.
- Set up machine on each side 3 times to cover the length of 7 meters.
- Removed up to 6 mm in height to get the rail within the tolerances.

### RESULTS:

The job was completed to the full satisfaction of the owner over an 8 day period with 12-hour shifts due to yard restrictions. Capacity of milling machine employed is 3000 mm in X axis 600 mm in Y axis and 200 mm in Z axis.

### PROJECT STATISTICS: Guide Rail Machining

Rail Length:	12 meters
Machined Area:	7 meters X 500mm
Rails Machined:	2

