

ADVANCED FORMING FOR MARINE APPLICATION

Rolls-Royce Marine AS is a world leader in deck machinery for offshore uses. Winches and equipment for extreme applications in the fishing and oil industries are just some of the company's products.

For Rolls-Royce Marine AS, Deform carries out the advanced forming of the quenched and tempered steel that is used in support rollers located in the sterns of vessels. These support rollers have to withstand extreme loads – hence the choice of quenched and tempered steel. Previously, the components were made from “ordinary” structural steel. However, increasing loads necessitated a stronger solution.

In the present case, the support rollers are not welded by Deform. However, we do take care of the advanced forming here in Sweden. This matches Deform's strategy well. We look for difficult, advanced forming assignments – forming that requires our expertise and which few other companies can manage.

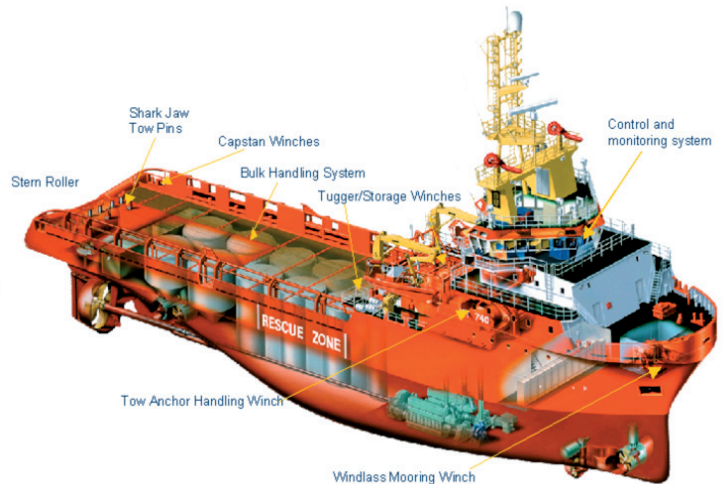
To illustrate our quality levels, we can mention the tight tolerance of ± 4 mm we had to meet for the diameter of a cone that had the following vital statistics: 3,677/3,510 x 60 x 335 mm (outside diameter, thickness, height).



Formed cone segments – four segments make a complete cone.



In the present case, the support rollers are not welded by Deform. However, we do take care of the advanced forming.



Examples of Rolls-Royce applications.