

PRESS NEWS



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.

Deform carries out the advanced forming of quenched and tempered steel for support rollers located in the stems 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.

All welding of the rollers is undertaken in a traditional “low-cost country”, but the advanced forming is done 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 that had to be met for the diameter of a cone with the following vital statistics: 3677/3510 x 60 x 335 mm (outside diameter, thickness, height).

Deform has signed an advanced forming agreement and Rolls-Royce is already predicting the use of designs that are exposed to even higher loads. This means that the percentage of high-strength steel components will increase.



Formed cone segments – four segments make a complete cone



Complete support roller prior to installation



Installing a support roller



Examples of Rolls-Royce applications