



TIMKEN® SELF-ALIGNING MOUNTED TAPERED ROLLER BEARINGS IMPROVE PERFORMANCE AND RELIABILITY

CHALLENGE

As the only location making the COVID-19 vaccine in Europe, the company's facility in Puurs, Belgium, relies on cooling towers to keep temperatures just right during production and bottling. When the COVID-19 vaccine manufacturer experienced frequent cooling tower downtime due to failure of a competitor's mounted ball bearings, the cooling tower manufacturer turned to Timken for a new bearing solution.

TIMKEN SOLUTION

Our engineering team determined that overloading and misalignment were the main challenges facing this cooling tower application. To improve bearing performance, Timken self-aligning mounted tapered roller bearings were installed as an aftermarket solution. These optimized bearings are engineered to accept up to +/-4 degrees of misalignment while managing both radial and axial loads – making them an ideal solution for the challenges faced in this application.

RESULTS THAT MATTER

After replacing the mounted ball bearings with Timken self-aligning mounted tapered roller bearings, bearing performance easily surpassed the competitor's maximum service life of three months – with no signs of vibration or degradation. And when the cooling tower manufacturer delivered four new cooling towers to the COVID-19 vaccine manufacturer, Timken bearings were included as original equipment.



The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

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