

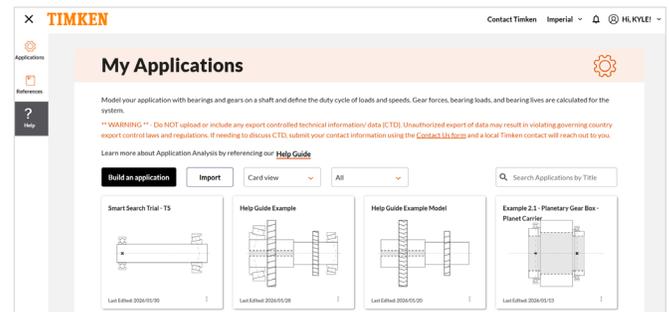


Timken[®] Syber[®] Bearing System Designer



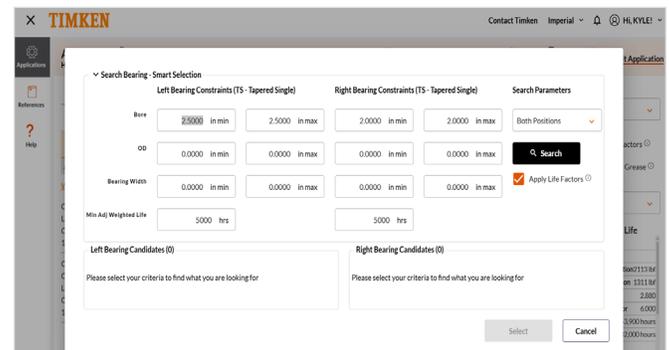
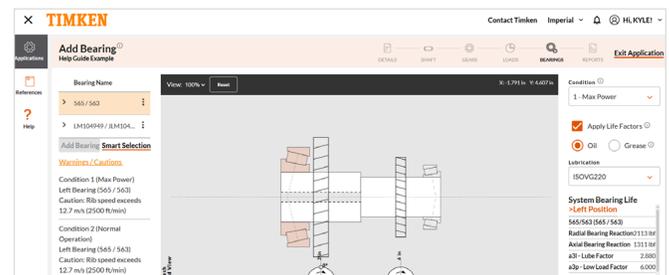
Understanding Timken[®] Syber[®] Bearing System Designer

Timken[®] Syber[®] Bearing System Designer is a multi-functional software tool that helps you select and analyze bearings within an application. One of the most powerful features of this application system analysis tool, is that multi-bearing systems can be modeled and analyzed for performance in combination with external loads and/or associated gear forces based on user inputs.



Timken Syber Bearing System Designer Features

- An expansive bearing database with more than 30,000 part numbers and powerful search capabilities
- Calculations for all popular bearing types including tapered, cylindrical, spherical, and ball bearings
- Access to bearing features and dimensions
- Application analysis of the bearing in the system
- Analysis results that provide modified catalog life prediction, rolling contact, stress, torque and many other operating parameters
- Bearing selection options based on life requirements or envelope dimensions, including a recently added smart selection feature
- Easily exported files to save for design records or to be shared with Timken engineers for additional in-depth analysis





Why use Timken Syber Bearing System Designer?

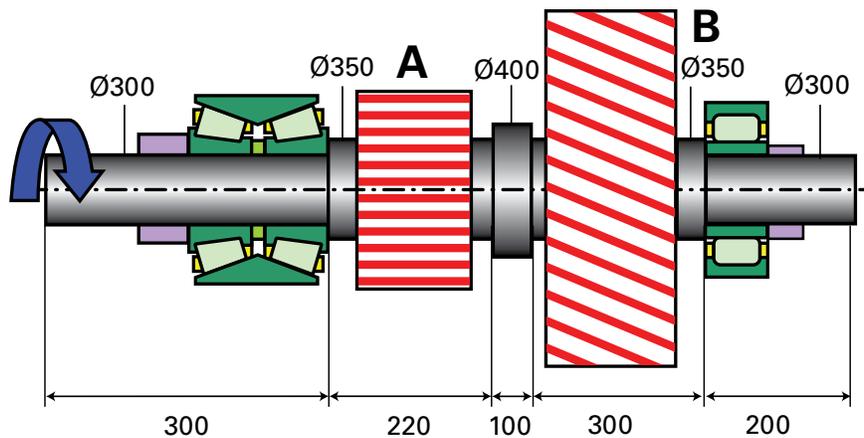
Speed. The system is easy to use and produces results quickly.

Efficiency. All bearing selections, system analyses and supporting calculations are integrated in a single software tool.

Accuracy. Bearing system analysis is more accurate than catalog or hand calculations and users can vary data inputs to simulate changes in operating conditions.

Trust. Syber calculations are developed and approved by Timken, a worldwide leader in bearings and power transmission technology. Results have been tested and validated for reliability and repeatability.

Support. Users can share Syber output data with Timken engineers who can offer additional evaluation and validation.



This is an example of an application that can be analyzed in Syber Bearing System Designer. This sample application shows a two-row tapered roller bearing (TDO) in the fixed positions and a single-row cylindrical roller bearing (NU-style) in the float position on a shaft with different gear types.

IMPORTANT NOTE: The accuracy of the technical information supplied through this engineering tool is dependent upon the accuracy and completeness of information supplied to Timken. Actual product performance is affected by many factors beyond the control of Timken, and which cannot be modeled through this engineering tool. Therefore, you must validate the suitability and feasibility of all designs and product selection. The technical information is presented solely to provide you, a customer of Timken or its affiliates, with data to assist you in your design. No warranty, expressed or implied, including any warranty of fitness for a particular purpose, is made by Timken through the provision of this information.