

Linear Bearing Supports on Manually Controlled XY Stage for Quilting



Challenge

This prospect was just embarking upon a new project to manufacture Quilting Stages with encoder feedback for each axis. This allowed the machine to maintain a consistent stitch pattern. A prototype demonstrating functionality was successfully built using various components while large volume price proposals had been obtained as well.

Key Customer Requirements

During our preliminary discussions, a key customer requirement that was communicated was the customer's need for a domestic source partner. With a domestic source partner the customer was looking to save on import and freight costs while avoiding longer lead times.

Application

Two axes of support:

X axis - 4ea SUPER 4 Bearings, 2ea 1/4" Class L Chrome Plated 10.000"

Y axis - 2ea SUPER 4 Bearings, 1ea 1/4" Class L Chrome Plated 10.625"

The stage is manually controlled by the quilting machining operator. Each axis has an encoder feedback which feeds a "quilter's cruise control" which actively changes the speed of the sewing machine as the stage is moved to maintain a uniform stitch length. The prospect negotiated with a national conglomerate for an exclusive contract which secured business for upcoming years.

Thomson Solution

We supplied the customers with Thomson SUPER 4 Linear Bearings. By partnering with the customer and supplying premium quality Thomson Linear Bearings, we was able to help the customer build a better machine, faster.