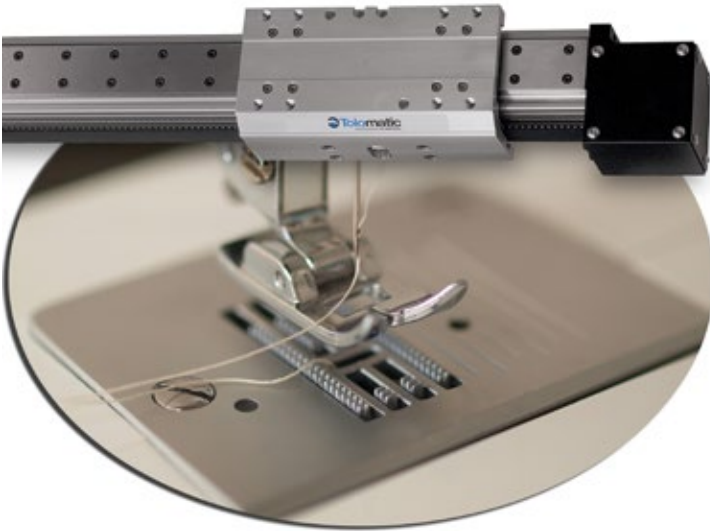


**APPLICATION SOLUTION: Industrial Sewing Machine**



**Product Family:** Electric  
**Product Used:** MXB40P  
**Product Type:** Standard

**Application Description:**

Industrial sewing machine head for military tents, clothing and tarps.

**Challenge:**

An OEM machine builder was requested to develop a high-speed traversing sewing head for large and bulky Military textile products. The unit needed to be flexible for different size and textile weight product change overs as the sewing head tracks at high speed. The X-Y units needed to work in conjunction with the sewing head that uses encoder following (Master/Slave with Allen Bradley controls). The actuator also needed to be integrated with gearbox.

**Tolomatic Solution:**

Using the Tolomatic Sizing and Selection software, the customer's desired motion profile was created and a standard MXB40P (Belt Drive) was selected for its high moment loading and speed capabilities required for this application. Using the Tolomatic Your Motor Here® database the customer's motor was paired with the appropriate gearbox and compatible mounting plates.

**Customer Benefit:**

- An electric solution provided flexibility, control and fast performance for product change overs
- Tolomatic industrial belt drives met the application high duty cycle needs for a long life product
- The MXB40P belt drive had high performance and fit within the project budget