

APPLICATION SOLUTION: Shutter Manufacturing



Product Family: Electric
Product Used: B3WD15
Product Type: Standard

Application Requirements

Stroke: <204 in.
Speed: <200 in/sec
Load: <2908 lbs

Application Description:

Linear indexing motion of drill head for use in shutter manufacturing automation

Challenge:

A manufacturer of interior wood shutters needed to automate the movement of drill heads for accurate drilling of holes for louver installation. High precision (.004”) hole spacing and high speed motion was necessary to achieve throughput. A sealed actuator was desired to keep sawdust out. The system needed to be easy to use with quick set up.

Tolomatic Solution:

A B3WD15 electric belt drive actuator was selected to index the drill heads. The B3W actuator was able to handle drill head weight loads and drill forces required to create the holes while maintaining depth for drilling accuracy. The completely sealed bearing in the B3W actuator kept sawdust at bay.

Customer Benefit:

- Reduced time to set up drill head placement increased throughput of machine
- Improved hole placement and depth reduced rework and assembly time
- Increased product consistency and quality