

CASE STUDY

Flow Products

APRIL 2020

PRODUCT CATEGORY:

Electric Actuators

INDUSTRY:

Metal Storage Systems

APPLICATION:

Company uses a spot welding machine to weld sheet metal panels used in the assembly of office furniture cabinets, gym lockers and shelving.

PROBLEM STATEMENT (PAIN):

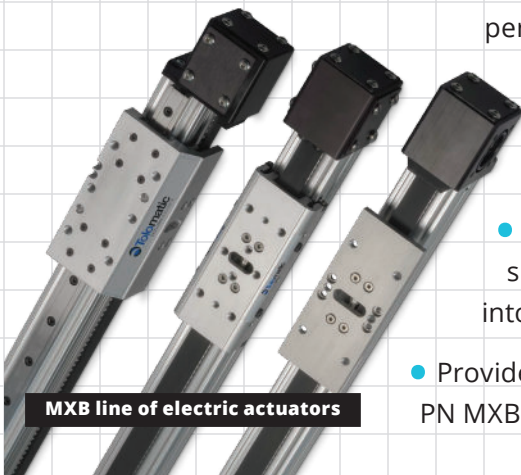
Customer needed to replace an actuator that had worn out gears, pulleys and belts requiring frequent maintenance and was impacting production. The application specifications called for an electric belt actuator that could generate a 50 lb. force capable of moving the workload and providing a horizontal travel of 180 inches (15 ft.). Part of the challenge was selecting a standard actuator that would fit within the existing envelope dimensions of the welding equipment and be easily adapted to the current servo motor and drive.



FLOW PRODUCTS SOLUTION:

Flow Products team met with the customer to review the application and performance requirements, identify any constraints or limitations, and define the scope:

- Performed all required equipment measurements, confirmed work loads, performance specs such as cycle time, dwell time and travel speed.
- Upon review of the application, selected the Tolomatic product line of actuators and using their proprietary sizing software, configured an MXB50S actuator for the application.
- Provided actuator 3D CAD models, 2D component drawings and product specifications to customer in order to facilitate assembly and mounting into existing motor and location.
- Provided quote package for actuator PN MXB50SBWS40SK182.000SDLHC2TC8.



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RESULTS:

1. Flow Products provided a complete engineering package prior to actuator delivery. Package was comprised of 3D models, CAD drawings and product specifications. This allowed the customer to reduce installation and down time by performing pre-programming and machining of mounting hardware.
2. The pre-work allowed the Tolomatic belt actuator to be installed into the existing welding equipment and become operational in days.
3. All actuator performance specifications were met, unscheduled and frequent maintenance was eliminated and production throughput was increased.

CUSTOMER SERVICE & TECHNICAL SUPPORT

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- IFPS Certified fluid power specialists
- Complete fluid system design, assembly, and test capabilities
- System start-up and commissioning
- System troubleshooting and diagnostics
- Component and systems repair service
- Customized technical training programs

OUR HISTORY

For over sixty years, Flow Products has been a leading distributor and integrator of pneumatic, hydraulic and electro-mechanical products in the Chicago and mid-west region. Our product offerings range from fittings, valves, motors, pumps, actuators, sensors to a full array of custom manifolds and engineered systems – all designed to improve our customer's productivity.

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