

Special Machine Builder for German Automotive Market Converts Hydraulic Cylinders to Integrated Electric Actuators for Increased Control Flexibility and Reduced Maintenance

CUSTOMER

German manufacturer of special machines for the German automotive market

APPLICATION

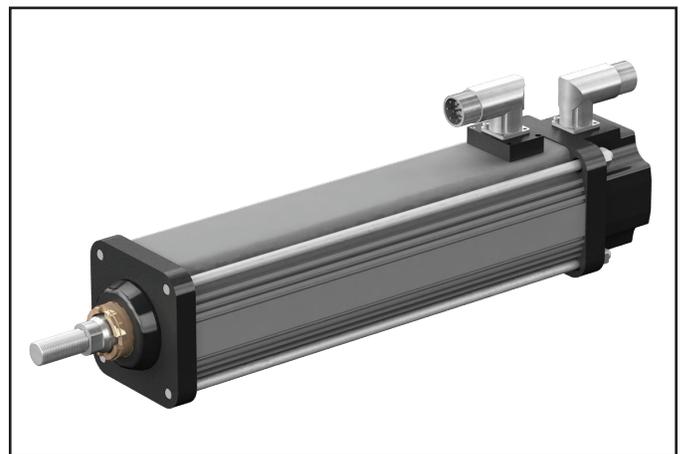
Pressing and straightening of cast automotive parts.

CUSTOMER CHALLENGE

Previous machine designs utilized up to twelve hydraulic cylinders to provide the force necessary to press and straighten cast automotive parts. For a new machine the end customer specification required more control flexibility than offered by the existing hydraulic system.

SOLUTION

The customer selected the Exlar® GSX integrated motor / actuator due to its compact design and long life expectancy. The GSX's form factor very similar to a hydraulic cylinder which minimizes engineering design time and machine modification to accommodate when converting from a hydraulic to an electric solution.



RESULTS

A total of four machines have been installed and are running production so far. The control flexibility offered by the GSX solution has allowed the end user to implement features they never thought were possible. In addition, eliminating hydraulics from the machine also eliminated oil leaks resulting in significantly less maintenance and higher machine uptime. The customer is very satisfied and is requesting assistance with converting additional hydraulically driven machinery to Exlar electric actuators.