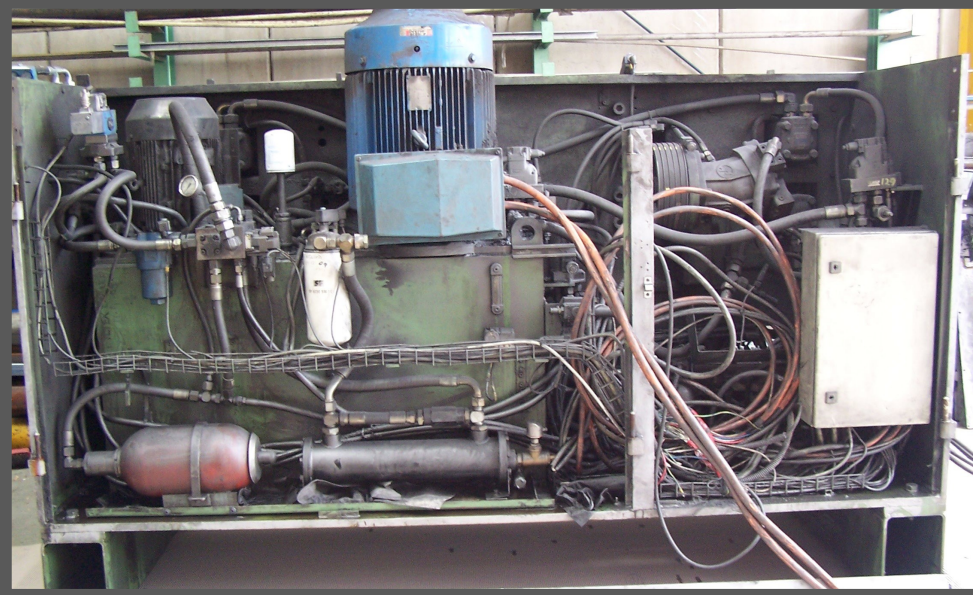


Hydraulic Support Services

Machine Overhaul

STENMAR Group



When a steel manufacturing machine had a major hydraulic failure, it resulted in nearly every component being extensively damaged.

The machine was already over 20 years old and used in production 24/7. As a result it was in poor condition and required a total overhaul.

Stenmar Group stripped the machine and disassembled all the components. There were 6 hydraulic motors, 2 pumps, 2 accumulators, various filters & accessories, an electrical cabinet, and an assortment of valves, brackets, tubes and hoses. All needed to be inspected and assessed. Most required repair or replacement. Many of the mechanical items on the machine were also very worn.



The customer decided to take the opportunity to revamp the design of the machine during the rebuild to improve the reliability, serviceability and operational efficiency.

Everything first had to be cleaned (a *major* undertaking). Items that could be repaired were completely refurbished and tested. Then began the painting, mounting, piping, hosing, wiring and labeling. The configuration of the machine was altered to allow better access for inspection and maintenance. Consideration was also given to improv-

ing the operating specifications for oil temperature and cleanliness. A new hydraulic circuit drawing of the updated machine was prepared in AutoCAD and all components were test-run in-house before the whole unit was returned to the customer's factory for on site commissioning.



(Above)

The directional control valve manifold was a sludge encrusted mess in a spaghetti jungle of hoses and wiring when it arrived at Stenmar. The finished valve bank was neatly mounted, wired, labeled and hosed.



The refurbished machine undergoing final testing.

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