

Optimization of hydraulic presses and manufacturing systems of all makes



- Reducing cycle times
- Optimization of production processes
- Reduction of wear and tear during the production process
- Increasing the output

WE OPTIMIZE – YOU BENEFIT

- Is the production output of your hydraulic press declining?
- Do you have to plan for longer stand still times because of repairs and/or error analysis?
- Is the part quality not as good as it should be?
- Do the target- and actual values of the open- and closed loop control deviate strongly from each other?
- Are preset speeds not reached any more?
- Do target- and actual values deviate in regard to pressures?

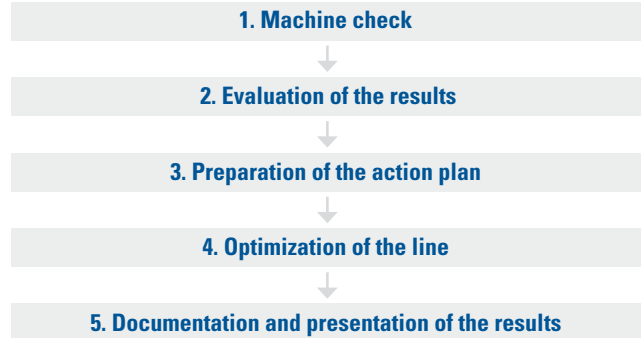
Did you answer one or more questions with “Yes”? Then it is time to conduct an extensive machine check and machine optimization.

Forming processes of existing hydraulic production presses can be improved considerably with little effort. These processes are examined carefully with specific measuring instruments and the stand still times are analyzed. All this is accomplished with the goal to increase the output of your equipment. Cycle time reductions of up to 30 % can be achieved.

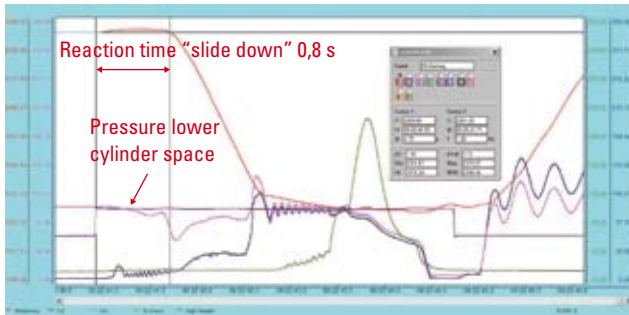
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OUR PROCEDURE – STEP BY STEP:

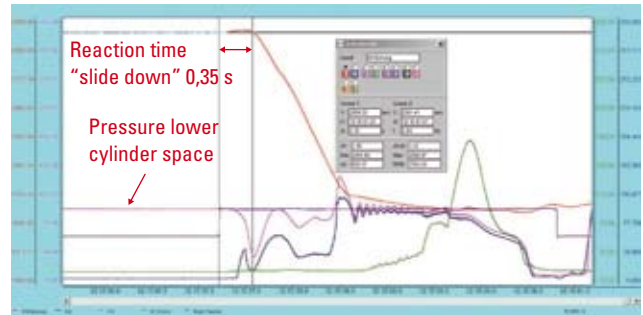
- The press force and the speeds are recorded by a pressure- and speed recorder.
- All valve curves of the proportional- and servo valves as well as their target and actual values are recorded.
- Open- and closed loop control are checked and compared to the target values.
- Current consumption and output control of motors and pumps are checked to determine the performance of the pumps.
- The slide parallelism is measured with a parallelism measuring device.
- The overall system is checked and analyzed to determine whether cycle times can be reduced.



Measuring plot **before** optimization



Measuring plot **after** optimization



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