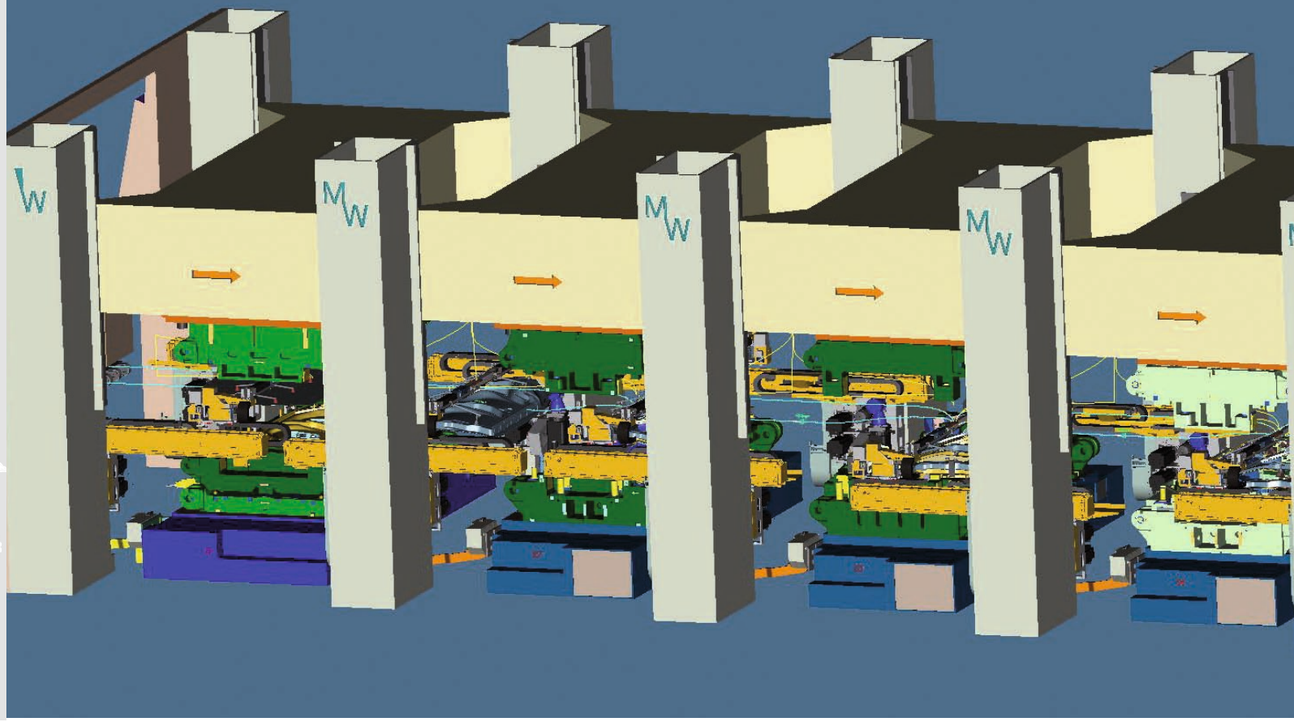

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Software for the optimisation of press lines

STROCon Press-Line

StroCon PL

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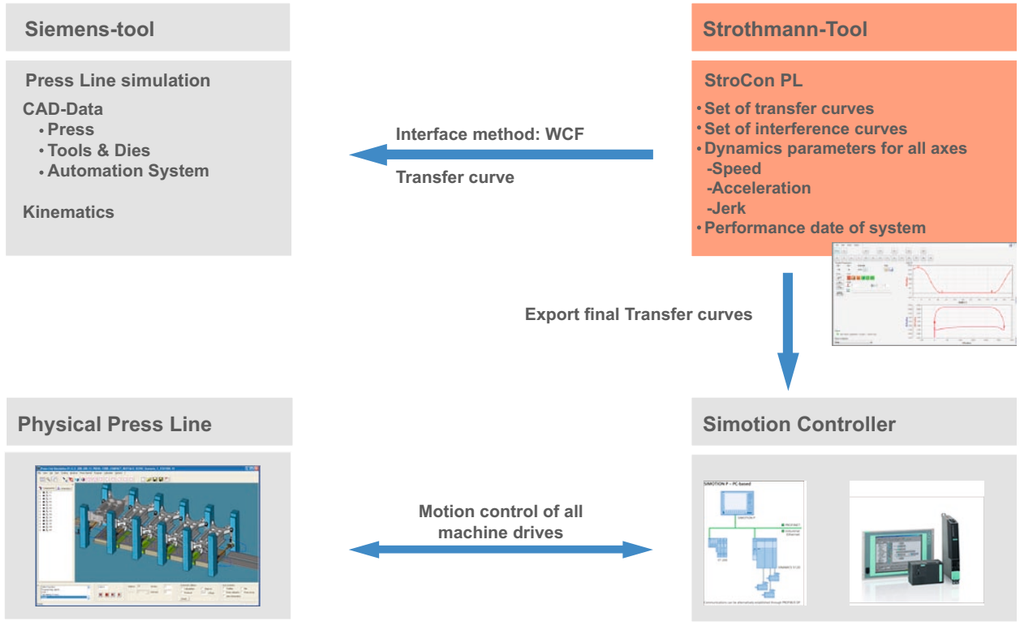
STROTHMANN Controller for press lines StroCon PL

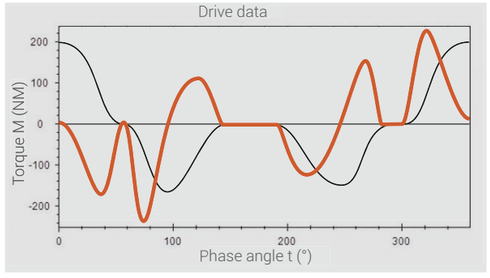
StroCon PL is an innovative simulation software for optimisation of a movement curve for a specific STROTHMANN press automation system. It takes into account the existing conditions such as performance and geometric data.

StroCon PL uses the “PLS” software of Siemens to visualise the course of movement and possible collisions.

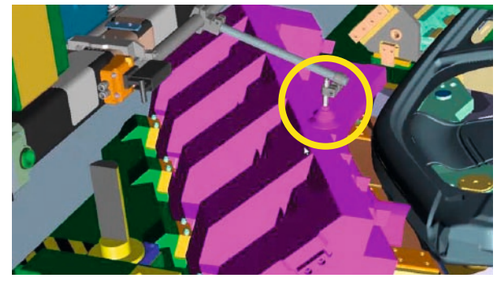
The STROTHMANN software has 2 interfaces:

- An interface for data transmission to the Siemens software PLS
- An interface for data transmission to the machine line controls of the specific STROTHMANN press automation





Display of the motor torque trend based on a press stroke



Collision visualisation in PLS (area marked purple)

Application

The StroCon PL software reads several basic movement curves and the movement curve of the press slide. The software also contains all relevant data of the specific STROTHMANN press automation device.

The following data is loaded in PLS:
3D data of presses, tools, grippers, blank parts and the automation system.

The operator optimises the movement curve for a specific blank part by modifying a selected basic movement curve.

This takes several steps. After each optimisation step, the result can be checked using the Siemens software PLS (collision check) and StroCon (drive limit values and achieved number of strokes per minute). Once optimisation is complete, the operator exports the final movement curve to the control system of the specific STROTH-MANN press automation device.

Advantages at a glance:

- Increased output through optimised movements of the automation device
- Inspection of new tool designs
- Wear reduction of individual machine line components
- Support for determination of component cost through calculation of the output
- Calculation basis
- Optimised curves available directly in the control system