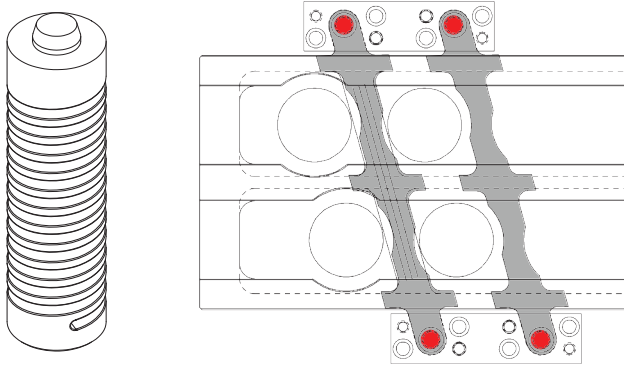


Machined Die Spring with Integrated Spring Pin for the Stolle Tetrad Conversion System

Stolle Tetrad Conversion System Technical Update 1203-1



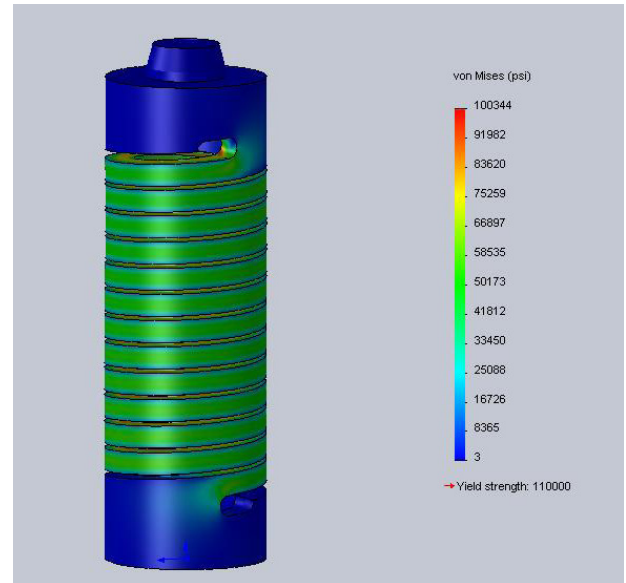
Stolle has a long tradition of supplying replacement components to customers that are designed to last longer and perform better. In the lower lane dies of a Tetrad conversion system, the springs for the lift gate mechanism are a high stress/high wear component that many customers choose to replace prior to breakage. They understand that a broken spring can affect product quality, and even worse, pieces of a broken spring can damage other tooling components.



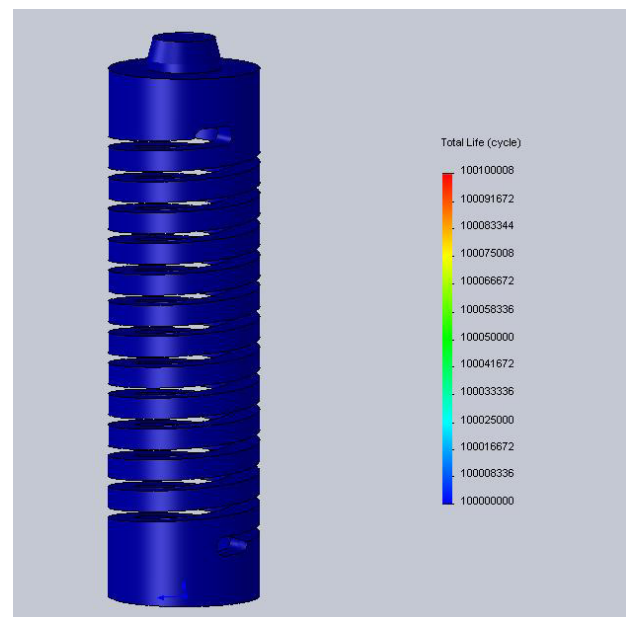
New machined spring (left), and the location of the springs (red) under one set of actuating bars on the lift gate mechanism of a Tetrad lower lane die

Stolle has developed a new machined spring to replace the traditional springs and pins in the lift gate mechanism. A major advantage of a machined spring is that it can be fabricated from more fatigue-resistant material than is possible with traditional coil springs - the new machined spring is designed to last 6 months or longer at production speeds of 750 SPM. In addition, the new machined spring has been designed with an integrated spring pin so it can be a single component instead a separate spring and pin, making replacement easier.

Stolle engineers are also reviewing applications for the longer life machined spring in other areas in Tetrad lane and tab dies (including the upper lane die stake station), as well as for other conversion system die sets.



FEA stress plot of new machined spring



FEA spring life plot



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For more information and pricing on the new Tetrad machined spring with integrated spring pin (part number 222043704), please contact Jason Davidson at Stolle Sidney at +1 937-497-5432 or jason.davidson@stollemachinery.com.

A constant flow of innovations, technology and ideas that benefit customers.