DYNAFORM

G.S. Die & Design Inc.

Forming a Reputation for Excellence Using Dynaform

VIRTUAL DIE TRYOUT

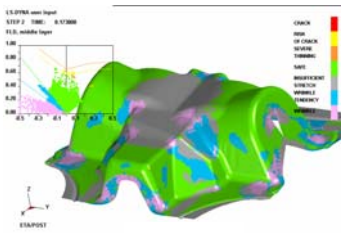
G.S. Die & Design Inc. was established in 1981, and since then has been committed to the business of Design & Manufacturing of Quality Automotive, and other Metal Stamping Dies.

G.S. Die is dedicated to the continuous employment of new and advanced technology, allowing them to provide customers with high quality and competitively priced tooling.

Three years ago G.S. Die went in search of a solution that would allow them to shorten lead times on new tooling, and help improve the quality of their designs. That search led them to Dynaform, which has since become an indispensable tool that is used on virtually every new job.

At G.S. Die & Design, dies begin with quality engineering using the latest in technology, and skilled personnel. The first step is analysis of the part geometry using Dynaform's Blank Size Engineering module to determine blank size & shape, as well as any problem areas that might be of concern while forming. By applying their advanced F.E.A. technology at the die concept stage, G.S. Die is able to identify and address potential manufacturing concerns at the early stages of tool development.

As the automotive industry makes advances in vehicle construction techniques, new material specifications are often introduced in order to satisfy safety, weight, & rigidity concerns. Because of this, G.S. Die have recently found themselves in a position where completed dies require modification in order to perform successfully with new material types. To determine what changes are necessary, G.S. Die depends on Dynaform which gives them the freedom to easily simulate, and assess tool performance on different materials. With the data collected through these simulations, G.S. Die is able to quickly make modifications to their designs, and produce revised tooling suitable for new materials in the shortest possible time.



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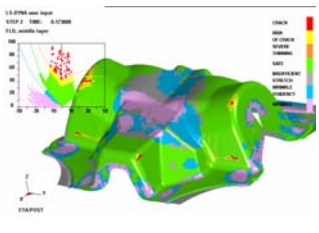

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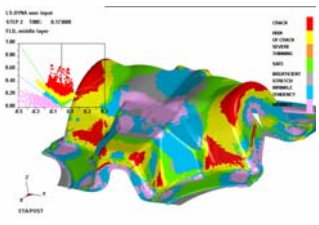
DYNAFORM IS IDEAL FOR QUICKLY TESTING VARIOUS MATERIAL TYPES TO DETERMINE FORMABILITY



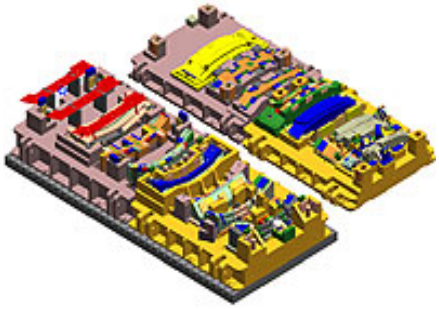
HSLA-550

"As parts become more complex and the industry adopts new High Strength Materials, we must be able to run simulations to assure the die will produce the part continuously and accurately" -Tom Cacic, Manager of G.S. Die.

Client	G.S. Die & Design Inc.
Location	Mississauga, ON. CAN
Product/Service	Tool & Die (Metal Stamping)
Market	Automotive, Commercial Products

Explosive Productivity Gains

"We simulate the first concept during the preliminary design stage. Once the first forming station is successful, we then move on to the second forming station and so on." - Tom Cacic, G.S. Die.



"Dynaform allows us to meet shorter delivery timelines by designing the die right the first time." –Tom Cacic, Manager of G.S. Die.

Established in 1981, G.S. Die employs over 85 engineers and toolmakers, and produces an average of 35 dies each year. Located in Mississauga, Ontario, G.S. Die pride themselves in keeping current with cutting edge software solutions, and the best in machine tool technology. It has always been G.S. Die's goal to build dies bigger, better and faster, and with the implementation of Dynaform, that goal has become much easier to achieve.

"You must stay current with software in order to stay cost effective. If the competition is using new software solutions like Dynaform to assist in building dies better and faster, then we have to adopt it as well." -Tom Cacic Manager of G.S. Die

Dynaform's implementation at G.S. Die has been so successful, that the company recently added a second seat in order to keep up with new projects. By diligently applying Dynaform F.E.A. techniques through every stage of tool development, G.S. Die is able to move confidently through each new project, equipped with the foreknowledge that their dies will perform as intended the first time.

THE DIGITAL PRESS : TRYOUT BEFORE TOOLING

DYNAFORM drastically reduces the risk and costs associated with the die design and development cycle by predicting formability problems before tooling takes place. Flawed or marginal die designs that would cost innumerable hours of labor, press time and material to repair and correct are evaluated on the computer at a fraction of the cost. By determining splitting, wrinkling, thinning, and springback effects that would occur during the stamping process before tooling is cut, timing concerns are eliminated while customer confidence and design confidence improve. DYNAFORM is a proven, cost-effective way to improve and insure your bottom-line.

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