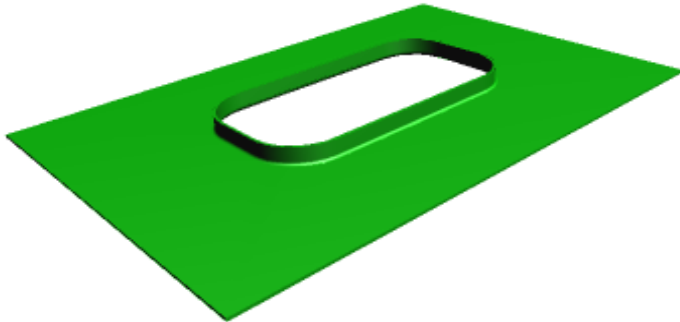




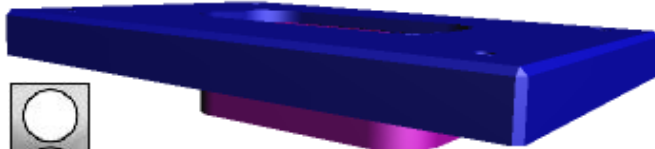
# SimulateLite® - Virtual Tryout

**Job No: 9058**

Client: Die Engineering Paul Elliston paul@dieeng.com



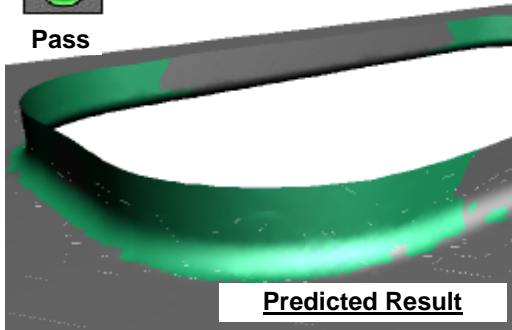
**Product Design**



**Tool Design**



Pass



**Predicted Result**

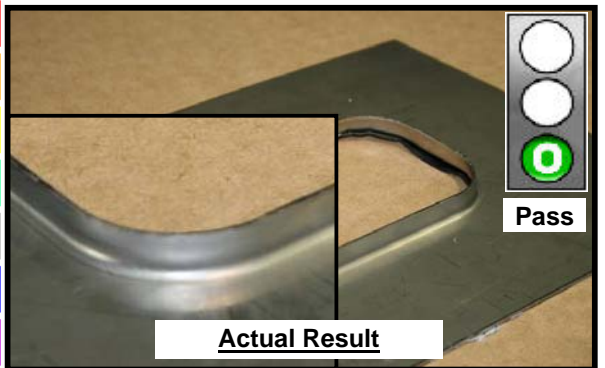
**Aim:** To test tool design prior to fabrication. To develop the inner hole shape.

**Simulation Inputs:**

- Material:** 304 Stainless Steel
- Ys:** 335 MPa
- UTS:** 724 MPa
- Thickness:** 1.6 mm
- Friction Coefficient:** 0.15
- Drawbeads:** Not used
- Pad Pressure:** 7.9 tons (calculated)
- Total Tonnage (inc. Binder):** 10.8 tons



**Actual Tool**



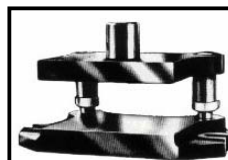
**Actual Result**

Pass

"In our minds this was a simple job but I was concerned about spring pressure. We didn't have time to change springs later. The simulation found that our springs were inadequate and that our proposed hole shape needed adjusting. We redesigned the springs size, strength and quantity to match the simulation results and changed the locator shape to suit the new inner hole shape.

**The first hit was a great success.** The flange height was within 0.1mm of modelled height. The form was true and the raised lip almost perfect in shape and no wrinkles first time!"

**PAUL ELLISTON**  
Director - Die Engineering Pty Ltd



**Die Engineering Pty Ltd, Brisbane**  
TOOLMAKERS AND PRECISION ENGINEERS

7 Colebard Street West, Archerfield, Brisbane 4108  
Phone 07 3274 1056, Fax: 07: 3277 9464

**Disclaimer**

StampingSimulation.com takes every care to ensure simulation results are as practical and accurate as possible. Differences between the simulation parameters and an actual physical tool may yield different results. These results are used at your own risk.

StampingSimulation.com Pty Ltd

21 Myall Street  
Dalby, Queensland  
AUSTRALIA 4405