AUTOSIMUL

GM reconfigures maintenance rules to Increase throughput by 5%

Doing more for less is becoming the new corporate mantra across the globe as business leaders are challenged to find smarter and more efficient ways of working.

AutoSimul helped GM do exactly this. By developing ***smarter maintenance rules*** GM ***increased throughput by 5%*** to meet an increase in demand, without increasing costs.

Powerful. Fast. Flexible.

With AutoSimul, General Motors achieved:

Increased throughput by 5% to meet demand without increasing costs

Discovered removing excess system carriers actually increased capacity in the line

Redistributed maintenance to improve up-time at critical bottlenecked areas

Experimented with their ideas in a risk free environment to find best solution

The Challenge

GM Holden, a subsidiary of GM, is Australia's largest automotive company and is GM's niche manufacturer of rear wheel drive 6 & 8 cylinder vehicles. This includes all production processes through plastics component manufacturing, stamping, sheet metal and body fabrication, paint and vehicle assembly.

The team replicated the increase in workload through the simulation and could actually see ***bottlenecks building up*** at certain parts of the process. So, using this information, they ***experimented*** with different ways to remove the bottlenecks and increase throughput.

*"Vehicle manufacturing is a highly competitive industry and we need to remain **flexible** to cope with fluctuations in demand.*

The Result

Reducing Maintenance Costs

GM found that redistributing maintenance resource to improve uptime at critical bottlenecked areas was most effective. They reduced their maintenance costs and saved on the expense of hiring new production workers, allowing them to remain flexible to return to lower production rates if demand slowed down.

Increase throughput

The real bonus came in discovering that an excess of carriers in the system was actually causing a blocked effect. Removing 2 carriers actually increased throughput by 5%. These carriers could then be used for spares, further improving production rates.

Make fast, confident decisions with Simulation.

USA Office

2100 Woodward Ave,
Detroit / MI 48201 / United States
t: (204) 801 5316

Canada Office

1699 Wellington Street West,
Toronto / Ontario / M5V 1K1 / Canada
t: (204) 801 5316

info@autosimul.com

www.autosimul.com