Pittsburgh, Pennsylvania, March 31st, 2003 - S&S Cycle Inc. of Viola, Wisconsin is the latest company to embrace OPTIMUM Power Technology's (OPTIMUM) Engine Design Expert System.

Geoff Burgess, Vice President of Product Development for S&S commented:

"Using the new Automated Design Expert System has changed our whole perspective on our engine design process. Now we can specify a goal, define a base engine and the allowable design variations. Then we let the Expert System take over, exploring the design space and identifying improved configurations. Starting with the most improved configuration(s), the Automated Design Expert System creates one or more optimized new designs. In the process it evaluates many more options and improvements than we could have with our previous resources.

We have used the system for 3 months now - looking at our 160Ci V-Twin racing engine. By running the expert system on OPTIMUM's new Network Supercomputer, implemented on a modest nine PC's, we were able to simulate 1000's of design variations in days, rather than months. And we ran this all on our existing PC network! The improvements we found using the Automated Design Expert System might never have been found if it wasn't for this ability to crunch many engine variations quickly. We have identified which design strategies give us the biggest bang for the buck and because they can be re-used on other engines, we can now apply those techniques to our complete product line of engines."

Adam Green, VP of Sales & Marketing at OPTIMUM Power Technology added:

"Having worked with S&S for a number of years now, we were pleased that they agreed to be one of our beta testers for the Automated Design Expert System. And we were even happier to learn of the excellent results they obtained. The Expert System exploits the accuracy of the Virtual Engines performance simulator with advanced design optimization creating a new engine design paradigm. S&S accelerated the design process by running the system on a nine PC Network Supercomputer. Imagine how fast a 100 PC's could create optimized designs. Then consider the fact that all design strategies are stored in the Expert System's Knowledge Base and can be re-used on other, totally different, engines.

One common need is to optimize the camshaft. Valve Lift, Duration, and Phasing (open, close, or peak lift angle) can all be variables within an Automated Engine Design. Pipe lengths and diameters for the inlet and exhaust runners can also be included. That's ten variables. If each variable could have only 10 values, the number of different engine in this design space is a staggering 10 billion.

In the past this problem could never even been tackled. But now, Automated Design and the Network Supercomputer CAN design the best engine quickly."

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