

HSEV

High Speed Engineering Vehicle



This project demonstrated the performance and ruggedness of the DTI suspension system in the HSEV, a military/commercial multi-purpose construction vehicle. The HSEV concept originated from the Australian Army's need for a multi-function, high mobility engineering vehicle capable of high speed travel over various road and rough terrain surfaces without need of trailered transport.

In response, DTI designed a compressible fluid system for the twelve ton HSEV consisting of four compact struts, one for each wheel, that provided high performance spring and damping under all ride conditions. To provide a highly stable platform for various construction tasks, the front struts can be selectively locked out by the vehicle operator. After four years of rigorous and successful testing and evaluation by the Australian Army and ATEA, this prototype vehicle earned top honors as one of the fastest, most mobile engineering vehicles in the world.

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