

FOR IMMEDIATE RELEASE
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MillenWorks mechanisms drive the Scion FUSE

TUSTIN, Calif. – SCION unveiled the all-new FUSE Sports Coupe Concept vehicle at the 2006 New York Auto International Show. 5 Axis Models, the car's builder, contracted MillenWorks to help execute Calt Design Research's latest Scion styling exercise of a next generation sports coupe. MillenWorks developed and manufactured five unique mechanical systems for the FUSE concept car. The systems included:

- Drive-by-wire steering system
- Actuated rear spoiler
- Electrically actuated rear hatch
- Personal sunroof system
- A single pivot hinge for the butterfly doors



MillenWorks started development of the steer-by wire system by engineering a hubless steering wheel to accommodate the built-in gauge cluster. The final hardware and controller design of the steer-by-wire system were tested in a Scion tC coupe before transferring the hardware to the FUSE show vehicle.



The hatch, tailgate and door hinge systems are designed to maximize the opening with a smooth and natural motion. The rear cargo area can be easily accessed via remote key fob button or by sliding your foot past the infrared sensor located on the rear bumper lip. The actuated spoiler was neatly incorporated into the lower portion of the sliding hatch and moves with the hatch.

The personal sunroof system utilized four independent moving glass panes, allowing each occupant to open his or her sunroof at the push of a button.

The mechanical hardware and control systems incorporating custom electronic control units for each system were designed and manufactured at MillenWorks' Tustin facility. After extensive testing in a mockup, the systems were integrated into the FUSE show car.

The Scion FUSE successfully follows the 2005 New York Auto Show debut of the Scion t2B concept, for which MillenWorks developed a minivan-like sliding door packaged in the vehicle floor and powered lift gate with minimal hardware exposure.

MillenWorks designs and develops vehicles and advanced mobility solutions for the U.S. armed forces, major automotive OEMs and commercial customers. Headquartered in Tustin, California MillenWorks is principally engaged in the research, design, development, manufacture and integration of advanced technology solutions for manned and unmanned military vehicles, high performance concept cars, race vehicles, and rides for major theme parks.

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