

GM

Sequel Fuel Cell/ Advanced Technology Concept Vehicle

The total reinvention of
the automobile.



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Sequel has the interior comfort and intuitive controls of a five-passenger luxury crossover SUV, but it is powered and controlled by the latest fuel cell and by-wire technologies. Sequel is proof that we can take automobile emissions out of the environmental debate without compromising performance, comfort or safety.

Fuel cell technology uses renewable hydrogen fuel instead of fossil fuels like gasoline or diesel. In a chemical reaction, the fuel cell stack extracts electricity from hydrogen to power the vehicle. The result is there are no harmful tailpipe emissions.

Sequel's sophisticated by-wire system replaces the mechanical and hydraulic linkages of conventional vehicles with electrical wires and actuators. This means fewer parts to wear out, and because by-wire systems work like a fast computer, Sequel has enhanced accelerating, braking and overall handling.



Specifications

Wheelbase:	119.7 inches
Length:	196.6 inches
Width:	77.4 inches
Height:	66.8 inches
Curb Weight:	4744 lbs
Acceleration:	0-60 mph in under 10 seconds
Top Speed:	90 mph/145 km per hour
Operating Range:	300 miles/480 km
Fuel Cell System Power:	73 kW
Battery:	Lithium ion 65 kW battery pack
Front Electric Motor Power:	60 kW
Rear Electric Wheel Hub Motors Power:	2 times 25 kW
Total Traction Power:	110 kW
Total Torque at Wheels:	2506 lb-ft

Features/Developments

- First fuel cell vehicle that achieves 0-60 mph in under 10 seconds
- First fuel cell vehicle with a 300-mile range
- Advanced fuel cell stack is 25% more powerful
- Hydrogen tank fuel capacity doubled (10,000 psi/700 bars) and tanks validated to strict safety and performance standards
- Lithium ion battery recaptures energy usually lost during braking
- Front electric traction system and twin rear-wheel hub motors provide four-wheel steering, more responsive braking and impressive acceleration