



Winterthur,
Switzerland

- Alternative Class – Tandem Seating
- Battery Electric Vehicle (New)

205 MPGe*

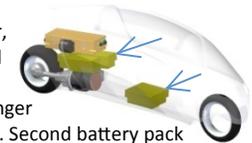


Luggage compartment
behind rear seat



Power sunroof delivers light
and airflow to the cabin

Electric motor,
controller and
battery pack
behind passenger
compartment. Second battery pack
below passenger compartment



Aerodynamic windshield
achieves very low coefficient
of drag



Patented outrigger system for
stability at stop,s slow speeds, or
slippery surfaces



Fully integrated ABS brakes



Jet fighter style, ergonomic dash

Fresh air inlet for cabin
ventilation and AC system



Tapered body creates
teardrop shape around
rear wheel

Size and weight and comparison with Toyota Prius

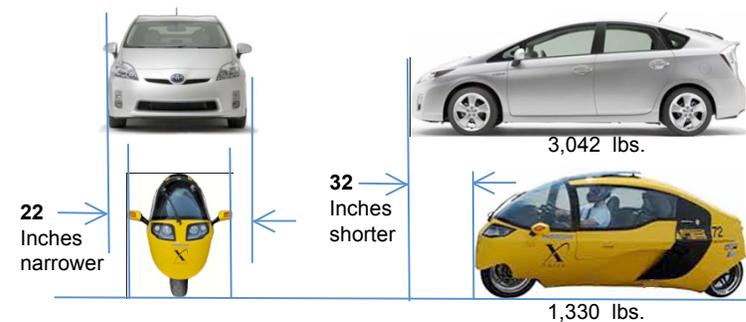
Development Status

Available 2011

Performance

Top speed: 155 MPH (electronically limited)
Range: 200 miles
0-60mph: approx. 5 seconds

Time to Charge
240 volts/80 amps – 1.5 hours



For more info: www.monotracer.com

*MPGe, or Miles Per Gallon energy equivalent, is a measure of distance traveled per unit of energy consumption. The traditional measure MPG (Miles per Gallon of gasoline) is obsolete owing to the growing popularity of alternative fuels (ethanol, electricity, etc.) and of vehicles powered by multiple fuels (e.g., plug-in hybrids). MPGe is based on the total energy content of all fuels used. In effect, MPGe replaces the question "How far can I drive on one gallon of gasoline?" with the question "How far can I drive on the energy equivalent of one gallon of gasoline?"

Team Leader: Roger Riedener

Status: X PRIZE Winner, Alternative Class - Tandem Seating

About The Vehicle

The X-Tracer is a two-seat high-performance ultra low drag two-wheeled electric vehicle that combines the safety and protection from the elements of an automobile with the performance of a motorbike. The body of the X-Tracer represents the world's first and only street-legal vehicle with a true stressed skin frameless composite monocoque made entirely made of DuPont's incredible Kevlar® fibres. To keep aerodynamic drag at a minimum the passenger is positioned in the "slipstream" of the driver, resulting in a drag reduction of 50% when compared to side-by-side seating.

- Stressed skin, carbon-fiber & Kevlar® composite monocoque construction with integrated crash and roll bars
- Automated stabilizer wheels that deploy in less than one-half of a second at low speeds and stops and retract at higher speeds
- Lightweight 21 KWh Lithium Polymer battery
- **AC Propulsion 150 KW electric motor and motor controller unit**

The team currently produces a similar combustion engine version of this design called the MonoTracer. The all-electric E-Tracer is scheduled as a 2011 model.

About The Team

The earliest iterations of the X-Tracer team's designs have been cruising European roads for 25 years. Created by former Swissair jumbo jet pilot and aircraft designer, Arnold Wagner, the first prototype, the "Ecomobile" was built in 1982. Arnold's vision was to combine the safety, room and weather protection of a sports car with the performance, agility and traffic footprint of a motorbike. Over 100 hand-built units were produced.

Peraves first met representatives of the Progressive Insurance Automotive X PRIZE at the unveiling of the "MonoTracer" at the 2007 Geneva Auto Show. In 2008, the BMW-powered 160mph MonoTracer was named one of Time magazine's best inventions of the year. In early 2009, low-volume production began, after achieving certification as a vehicle manufacturer for the company, EU-certification for the whole EU market, and DOT/EPA-homologation in all US states for the new vehicle. Peraves newest vehicle, the 2011 battery-electric E-Tracer (production version of the competition X-Tracer) reflects the company's focus on clean efficiency, meeting and exceeding the energy challenges of tomorrow's motor-vehicle market AND at the same time pushing the incredible abilities of this high-performance vehicle concept one step further.

What does the Progressive Insurance Automotive X PRIZE mean to X-Tracer Team Switzerland?

The experience afforded X-Tracer an opportunity to show the world how the single-track enclosed cabin vehicle can efficiently reduce traffic congestion, carbon emissions and the world's dependence on fossil fuels, all without sacrificing driving enjoyment.