

Factsheet for the InEco® project

Cooperation partners:	Institute of Lightweight Engineering and Polymer Technology at Technische Universität Dresden Leichtbau-Zentrum Sachsen GmbH
Project partner:	ThyssenKrupp AG
Vehicle design:	Nils Poschwatta (Poschwatta Automotive Design)
Vehicle class:	Sporty lightweight, electrically driven compact vehicle for the metro-urban environment, 4-seater, 3-door
Exterior dimensions:	4200 mm x 1870 mm x 1400 mm (length x width x height)
Total weight:	approx. 900 kg (chassis weight approx. 150 kg)
Chassis/bodywork:	<ul style="list-style-type: none">- Highly integrated CFRP components with steel reinforcement (approx. 70% less components than conventional bodywork designs)- Self-supporting floor assembly with central battery tunnel (optimized protection of battery system)- Crash-optimized CFRP longitudinal chassis beam- Torsional stiffness: ~ 28,000 Nm/°- Initial natural torsional frequency: ~ 53 Hz
Motor:	Synchronous electric motor with differential gears (90 kW/ 120 HP)
Drive data:	<ul style="list-style-type: none">- Top speed: 160 km/h (limited)- Acceleration: 0-100 km/h in approx. 7.5 s- Consumption: 9.7 kWh / 100 km
Battery technology:	Variably equippable battery tunnel (round, flat or block cells) with integrated air-conditioning (Example configuration: 100 lithium-ion flat cells, 290-420 V, 15 kWh, range according to NEDC: 120 km)
Chassis:	Front axle: Double wishbone axle Rear axle: Semi-trailing arm axle
Wheels:	7 x 17 inch alloy wheels (205/50 R17)
Wheelbase/ track:	2730 mm / 1600 mm
Overhang:	Front axle: 800 mm / Rear axle: 670 mm
Wheel load distribution:	Front axle: 46% / Rear axle: 54%

This project is supported by funds from the European Union (European Regional Development Fund– ERDF) and the Free State of Saxony within the framework of the overall project ALIEN.



Europa fördert Sachsen.



Press contacts

Technische Universität Dresden | Institute of Lightweight Engineering and Polymer Technology

Prof. Dr.-Ing. habil. Prof. E.h. Dr. h.c. Werner Hufenbach

Holbeinstr. 3, 01307 Dresden

Tel.: +49 (0) 351 463 37915 | Email: ilk@msx.tu-dresden.de

Leichtbau-Zentrum Sachsen GmbH

Dr.-Ing. Jens Werner

Marschnerstr. 39, 01307 Dresden

Tel.: +49 (0) 351 463 39477 | Email: info@lzs-dd.de