



Mobility & Transportation_

E-Miles L7e

A Revolutionary 3D Printed Electric Car

About the Company

Malena Engineering specializes in electric vehicle solutions aimed at urban mobility, focusing on efficiency, sustainability, and affordability. The company develops electric bicycles, scooters, and microcars designed to reduce urban congestion and environmental impact.

By leveraging cutting-edge technology, The E-Miles Company produces high-quality, energy-efficient vehicles tailored for city life. Their commitment to on-demand production allows flexibility in design and adaptation to local regulations.

Through a focus on smart mobility, The E-Miles Company supports the shift towards eco-friendly, space-saving transportation in urban areas.

Industrialization

INTER IKEA is interested in testing the e-Miles concept of mobility from Malena Engineering, as part of its "Future of Urban Mobility" project. This will offer customers a new, more sustainable way of taking their goods home, creating a better everyday life for the many people.

The E-Miles Company has significantly scaled its use of additive manufacturing technologies since first employing them for the prototype of its initial e-Miles vehicle, where they discovered the benefits of using AM technologies.

The car, E-Miles L7

The E-Miles L7 is a compact electric vehicle designed for efficient and eco-friendly urban commuting.

Combining a lightweight structure with a powerful electric motor, it offers excellent maneuverability and energy efficiency, capable of an **8-hour recharge cycle**, and an **8kW motor**, propelling the car to a maximum speed of **85km/h** ideal for city environments.

+90% of the vehicle's components are 3D Printed using different AM technologies.

Beyond its use of 3D printing, the e-Miles L7e distinguishes itself in the automotive landscape by adopting a joystick interface instead of traditional pedals and steering wheel, enhancing accessibility.

Thanks to close collaboration with IAM3DHUB and the AM experts at LEITAT, the company transitioned **from using 3D printing only in early-stage prototyping to integrating it extensively in production.**

This evolution has enabled The E-Miles Company to achieve flexible, **on-demand production, reduce material waste, and enhance design adaptability**, marking a major milestone in **sustainable vehicle manufacturing.**

