



Research Centre
Business in Society



EIT RawMaterials is supported by the EIT,
a body of the European Union

RemanPath

EIT KIC Raw Materials project on Remanufacturing.

<https://www.remanufacturing.eu/RemanPath>

What is remanufacturing?

“Returning a product to at least its original performance with a warranty that is equivalent or better than that of the newly manufactured product.”

BS 8887 - Pt 2

“a comprehensive and rigorous industrial process by which a previously sold or leased product or part is returned through a controlled, reproducible and sustainable process to a “like-new” or “better-than-new” condition in performance level and quality for form, fit and function”

RIC001.1-2016 ANSI

brother
at your side





Brother Earth

“At Brother, we take our environmental responsibilities seriously.

We encourage our customers to do the same by sending us their used printer ink cartridges and toner cartridges for recycling at no cost.”

- Good for the environment
- Promotes resource efficiency by reusing materials
- Reduces our CO2 contribution
- Provides Jobs
- Positive Marketing Message
- Simple and easy for customers to do



66% - customers think companies should support the environment

<https://www.nielsen.com/us/en/insights/news/2012/the-global-socially-conscious-consumer.html>

80% - of people think companies have a responsibility to look beyond profitability

<https://www.salesforce.com/blog/2018/10/new-research-shows-sustainability-is-a-moral-must>

Voice of the customer

Looking after the environment is good for business.

2018 European Recycling
1.6 Million pcs

2.28Kg
Kg-CO2 reduction
per cartridge

37.2%
Reduction of CO2 per cartridge
(New 6.12Kg-CO2eq, Recycle 3.85Kg-CO2eq)

3652 tonnes
Reduction of CO2 per year

167,000 trees
Average tree absorbs 21.8Kg
CO2/year





UK Developers & Consultants to the hydrogen fuel cell mobility sector
Eco automotive designers & engineers

Microcab Company Overview

UK SME, founded 2004

- Designing fuel cell vehicles since 2000
- Coventry University 20% shareholder
- 6-7 employees
- Supported by Coventry University resources

Mission statement

The Microcab vision foresees a 'New Mobility' where alternate ownership models allow vehicle platforms to be designed within the paradigm of a continuous economy. This shift will bring together new business models, lean weight design, zero emission powertrains, connected and autonomous control architecture, coming together to give flexible, clean and integrated mobility with the user at its centre.

Interior Design

- Modular
- Focus on Ease of Assembly & Disassembly
- Incorporates Circular Materials and Features

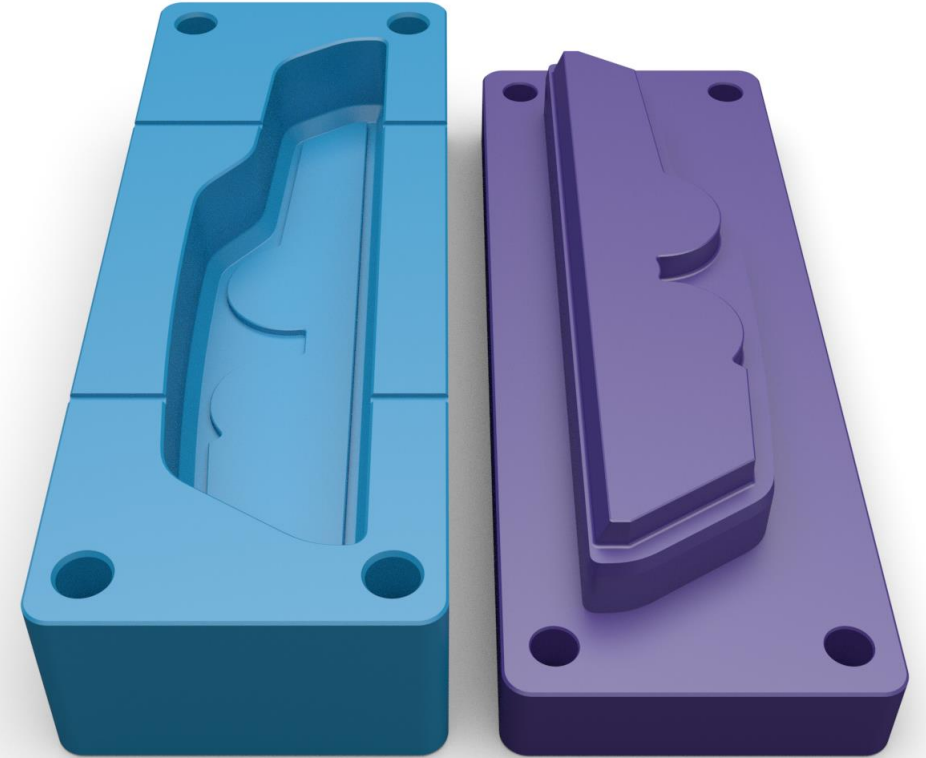


Material & Tooling

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Natural Jute Fibres + Polypropylene Pellets



Simple 2 part Compression Moulding Tool

Product

(Before Finishing and Assembly)

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Dashboard Fascia Switch Module - Initial Design

- Untreated Surface
- Embrace the Non Uniformity of Material
- Zero Glue Assembly
- Ease of Disassembly



FINAL PART
DESIGN

Thank you for your attention

Any questions?

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Please find further details on the project website.

<https://www.remanufacturing.eu/RemanPath>