

Lightweight, sustainable injection-moulding
materials for high-volume applications



Manufacture of cost-effective, sustainable materials for high-volume applications

The automotive sector is bound by CO₂ emissions targets. The cost of materials is a major consideration.

- Reduce weight to reduce fuel consumption/emissions = composites
- Volume production = injection moulding



Growing interest in circular-economy models

- Asset-management; incentivised return
- Designers looking for cost-effective, sustainable materials



Case study: natural fibres

	Natural fibres	Glass fibres
Renewable/recyclable feedstock	Yes	No
Low embodied energy	Yes	No
CO₂ positive	Yes	No
Low density	Yes	No
Brittle/abrasive	No	Yes
Easy to process	Yes	Yes



Processed in standard IM equipment

Saves ~10-15% in like-for-like-component mass

Challenges

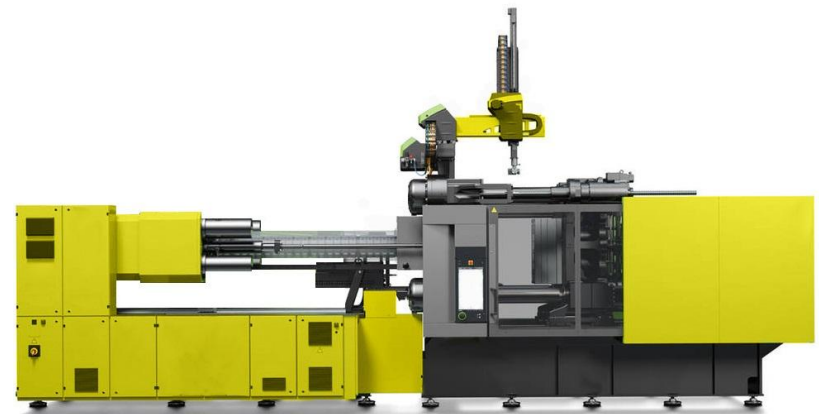
- Upscaling the process and volume of production
- Optimising performance and cost
- Identifying market opportunities

We will address the challenges through:

- engagement with end-users
 - injection-moulders
 - OEMs and Tier 1 suppliers;
- further investment and development to meet the challenges...

... and deliver:

- high-quality materials,
- in the required volumes,
- to our customers' price/performance expectations.



Thank you for your attention