Industry Day



















- Joint venture between Western University and the Fraunhofer Institute of Chemical Technology (ICT) in Pfinztal, Germany
- The FIP-Composites at Western develops, tests, validates and characterizes new lightweight materials and advanced manufacturing processes at industrial scale.
- One of the North America's most advanced center for industrial scale testing.
- Canada's only open-access, full-scale press with manufacturing capacity.



Compression Molding

Hydraulic Press

SMC (Sheet Molding Compound)

 Vacuum Assisted Compression Molding.

LFT-D (Long-Fiber Reinforced Thermoplastics)

Compounding Twin
 Screw Extruder

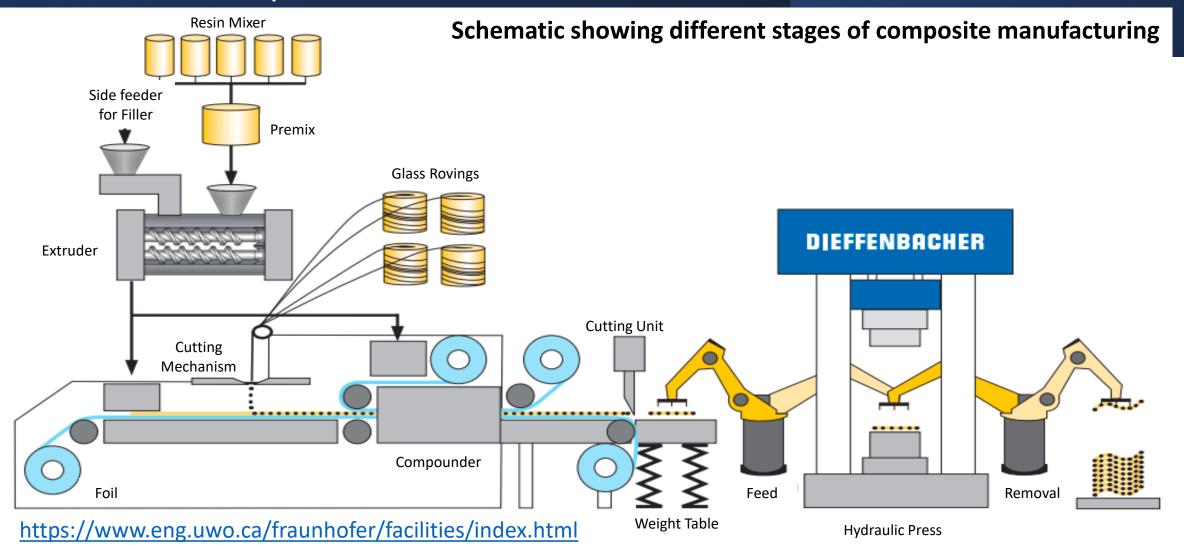
High Pressure RTM (Resin Transfer Molding)

Injection Molding

 Foam Injection Molding (FIM)

Pultrusion



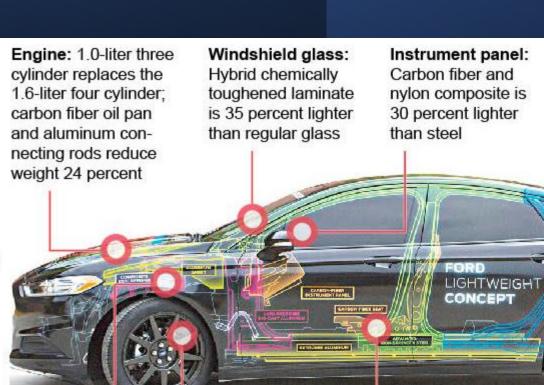




Building a lighter vehicle

Ford's new car looks like a Fusion but weighs 800 pounds or 25 percent less. Here's how Ford saved the weight, and what new materials you could find on your next car:

https://finwise.edu.vn/light-weig-1693855778715234/



Suspension: Composite springs are 57 percent lighter

Brakes: Aluminum front brake rotor, sprayed with a coating of stainless steel, is 39 percent lighter Seats: Frames made from carbon fiber and steel are 17 percent lighter than steel alone Wheels: 19" carbon fiber wheels are 42 percent lighter than 18" aluminum ones

Rear window: Poly-

carbonate, which is the

type of clear plastic on cell phones, is 50 per-

cent ligher than glass

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Thank You!