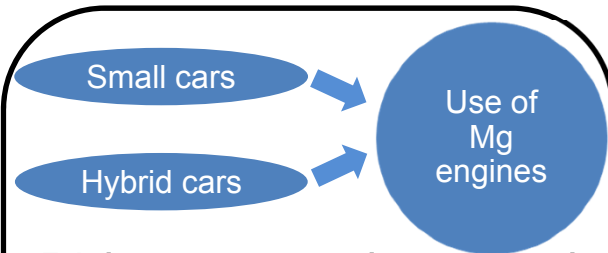


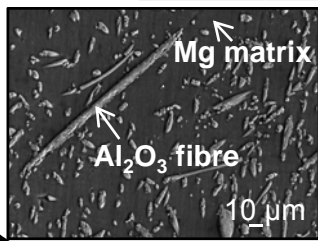
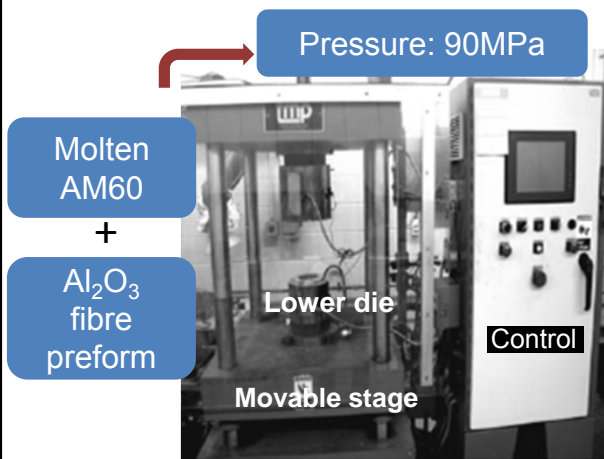
Squeeze Cast Magnesium Composites AM60-9% (Al₂O₃)_f



1. Fabricate magnesium matrix composites using Al₂O₃ fibre preforms incorporated in squeeze cast Mg-6% Al alloy (AM60).

2. Characterize lubricated sliding wear under Al-Si engine test conditions

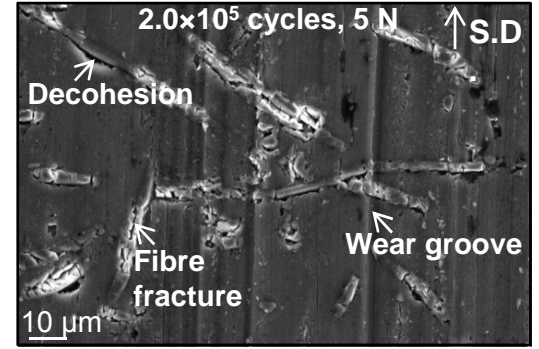
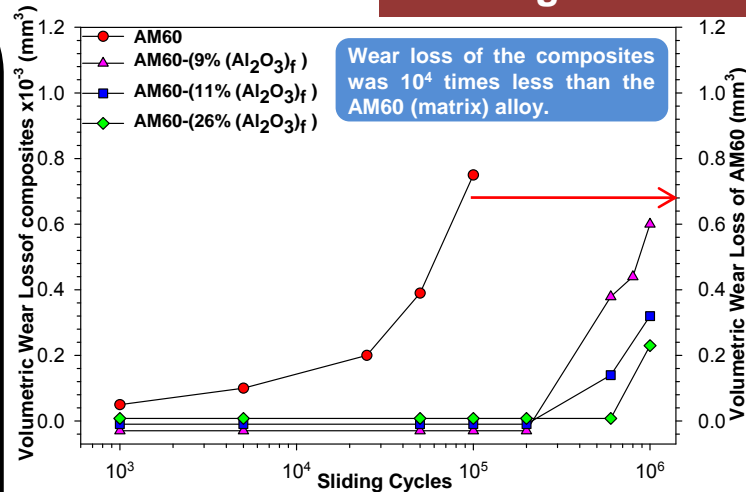
Fabrication



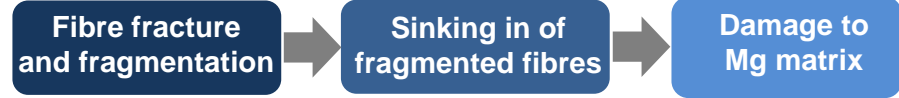
Clausius-Clapeyron Equation

$$\frac{dT}{dP} = \frac{T_m \Delta V}{L_f}$$

Damage mechanisms at 25 °C



Damage sequence



Mitigation of damage at 100 °C

