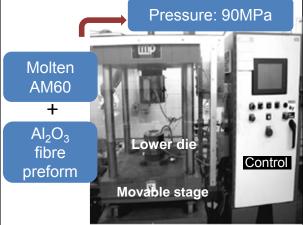
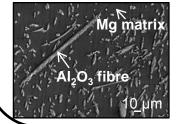
Squeeze Cast Magnesium Composites AM60-9% (Al₂O₃)_f

Small cars Use of Mg engines Hybrid cars

- 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

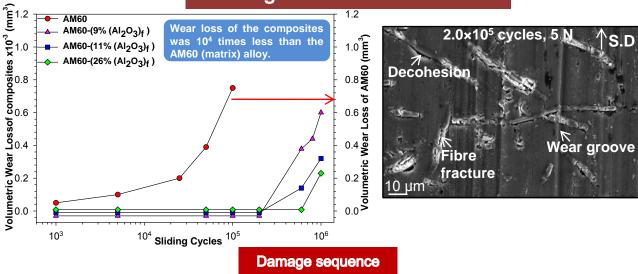
Fabrication





Clausius-Clapevron Equation

Damage mechanisms at 25 °C



Fibre fracture Sinking in of and fragmentation fragmented fibres Damage to Mg matrix

Mitigation of damage at 100 °C

