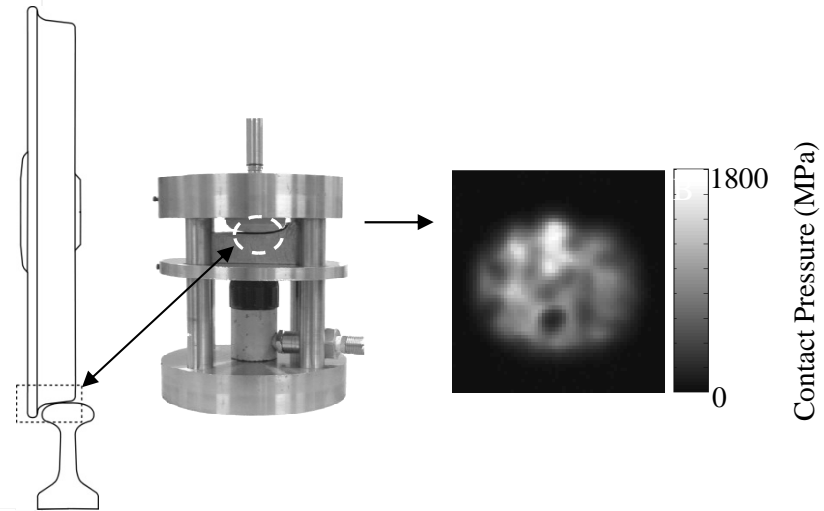
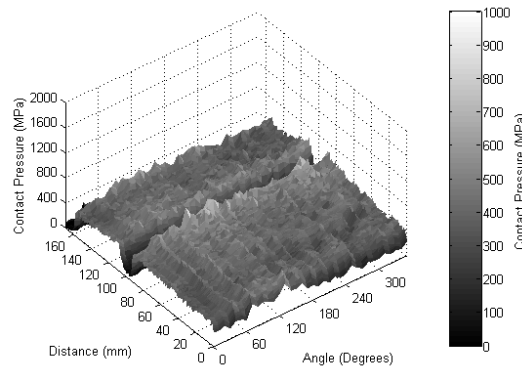


# Ultrasonic Contact Pressure Measurement

## Railway Contact Mechanics

- Wheel / axle interference fit pressures
- Management key to durability of fit
- Characterisation of new wheel designs
- Wheel / rail contact size and pressures
- Required in rail wear simulations
- New, worn, sanded and twin contacts



## Conclusions

- Wheel / axle fits:
  - Comparison of new and existing designs
  - Inclusion of rough surface effects & validation of FE simulation
- Wheel / rail:
  - Contact characterisation
  - Boundary conditions for wear models