

# Making Machines Work: Transmission and Automation Systems

## Challenges

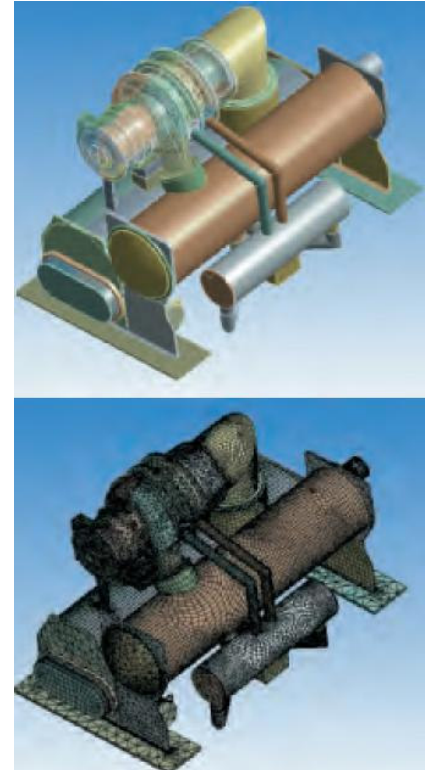
Simpler is better, but simple machines only do simple things. We need complex machines to perform complicated tasks. Inventing complex machines that can perform a variety tasks requires that the machines have multiple parts that work together seamlessly. Parts undergoing **large rotations, deformations, sticking, sliding and other diverse real-world behaviours** need to be modelled and analysed using simulation software. Most importantly, these machines must be **durable, energy-efficient, cost-sensitive and have minimal noise emissions and vibrations** to address the high production cycles in the industry.

## Solutions

Engineering simulation is an indispensable tool in meeting these challenges. ANSYS Rigid Dynamics combines robust large rotation/ large translation simulation capabilities with joint functionality for purely rigid components. Its **ease in analysing a full rigid system with joints and converting parts of interest from rigid to flexible** for a more comprehensive rigid-flexible dynamics simulation can save a considerable amount of time.

## Agenda

- 1 The ANSYS Advantage
- 2 ANSYS Rigid Dynamics for Machinery Applications
- 3 Networking tea break

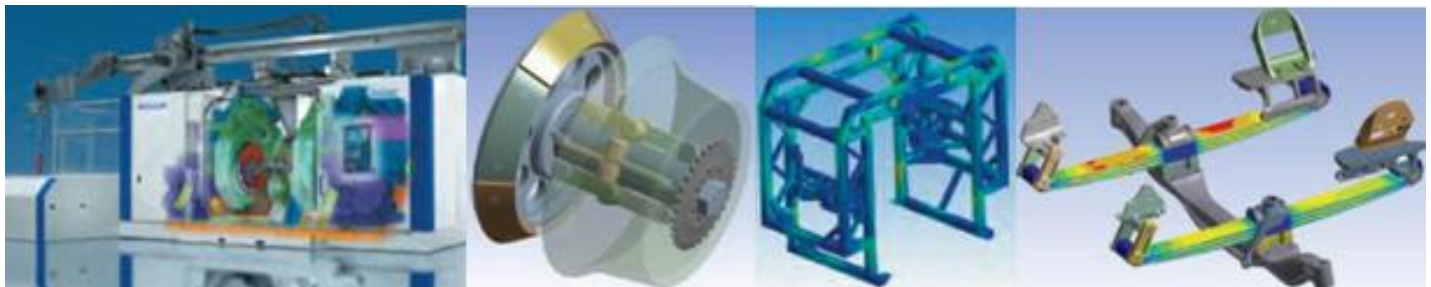


## Seminar Information

**Date** : 17 Apr 2009  
**Time** : 2.00 pm - 5.00 pm  
**Venue** : CAD-IT Training Centre  
 159 Sin Ming Road, #03-05 Amtech Building, Singapore 575625 ([view map](#))

his seminar is **free**. To register, please go to [http://www.cadit.com.sg/CADITEvents\\_Main/caditseminars.aspx](http://www.cadit.com.sg/CADITEvents_Main/caditseminars.aspx).

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