

Romax Dynamic Fusion

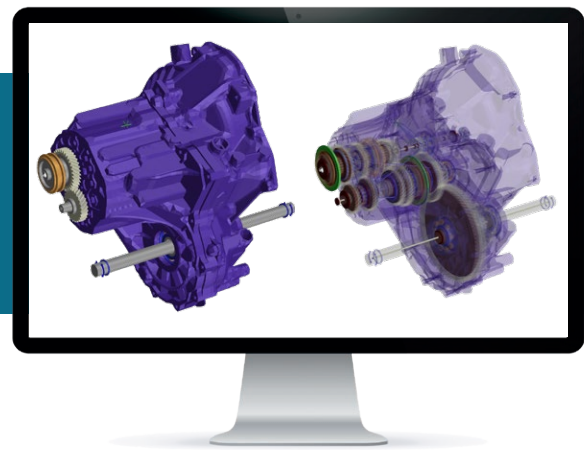
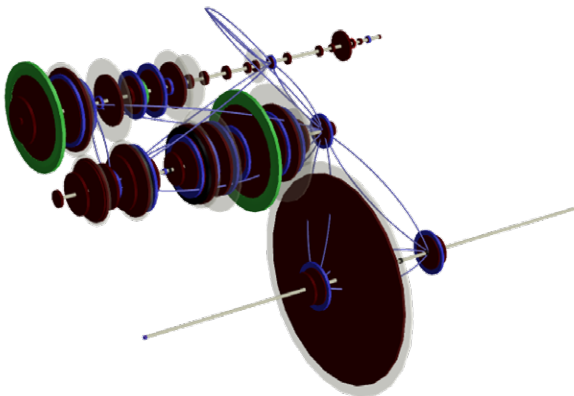
Automated generation of multibody models optimised for the perfect balance of accuracy and simulation speed

Dynamic Fusion automatically generates optimised MBD (multibody dynamic) models from Romax models, meaning reduced need for data re-entry, increased integration between CAE and MBD throughout the process, improved collaboration and effective working between departments.

The models are generated rapidly and are intelligently optimised to be as simple as possible and as accurate as necessary. This Right First Time approach is what truly delivers higher quality products faster and at lower cost.

“The fuel economy regulations are forcing a lot of interesting challenges in both the engine and transmissions market. It really makes sense to take a complete systems approach to the powertrain.”

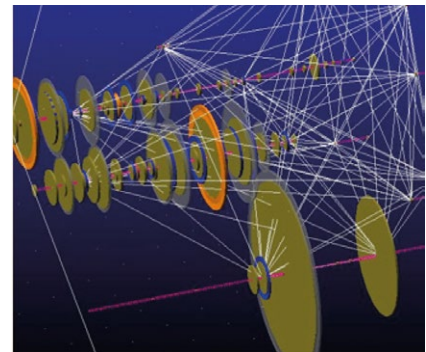
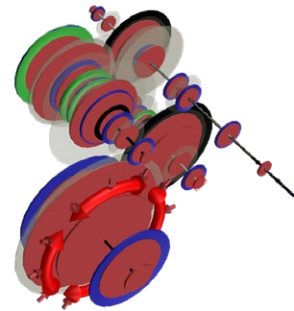
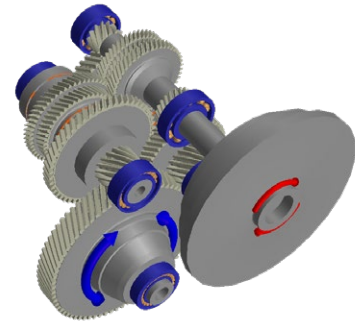
Gamma Technologies



Benefits

- Directly from CAE - quickly generate new MBD models as the parametric Romax model is edited, reducing data re-entry, saving time and effort and minimising errors
- Intelligently optimised - generate multiple models for different analysis types, with an appropriate balance between accuracy and complexity so that you can obtain the results you need as quickly as possible
- Throughout development - super-fast, accurate and easy-to-use interface means you can incorporate MBD from the start to maximise analysts' time and software investment
- Applications:
 - Vehicle system simulation
 - Driveability
 - Plant modelling for control system design
 - Transient driveline dynamics
 - Gear rattle simulation

- MBD model generation: Generate MBD models directly from your Romax model, which you have built already for efficiency, NVH and/or durability analysis
- Discretisation to appropriate detail: Easy, automated process achieves optimal balance between complexity and accuracy for MBD models which suit your required failure mode and desired level of detail, including flexible bodies
- Open format: Discretised models are open format, so you can create your own translators to other programs
- Translation: Translate models for analysis including multibody transient dynamics, non-linear dynamics, multi-physics and systems engineering, in MSC Adams, Modelica-compliant programs, or GT-SUITE
- Integrated: CAE and MBD for efficient, repeatable and improved processes, to improve collaboration and effective working
- Find problems earlier: Use MBD as early as possible, make changes to the Romax model, and observe effect on MBD
- Easy to use: Simple interface can be used by any engineering department (not just the Romax software specialist)
- Improved quality: Earlier, more intelligent analysis informs your engineering decisions and produces a better design
- Save time/effort and reduce errors: Remove need for data re-entry
- Intelligent, efficient: Know that your MBD models are right for your needs, so you achieve the results you need, with appropriate runtimes
- Flexible: Create as many MBD models as you need, whenever you want
- Maximise resource: Put MBD analysts and MBD software to better use



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Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

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