

# 2015 Release: Key New Features



Read about our brand new time-saving and process-enhancing developments across our software suite, including running Romax**DESIGNER** automatically in batch mode, and creating, editing and meshing 3D geometry in CAD **FUSION**

*"We are really excited about the new 3D CAD meshing features which Romax Technology is bringing out in the R2.0 release of CAD **FUSION**. The capabilities are getting really powerful, and I don't know of anything else currently in the market which allows you to tie together CAD and advanced CAE in such an impressive way. Romax really is leading the field."*

*A Major Automotive OEM*

## Create, Edit, and Mesh 3D Geometry in CAD

*"The repair tools make it possible for us to improve the quality of the surfaces in the model, close gaps, and create missing faces, so that we can even use corrupted models, with no need to return to the CAD engineer and wait for a better quality of geometry. In all, CAD **FUSION** makes our processes more robust and time-efficient."*

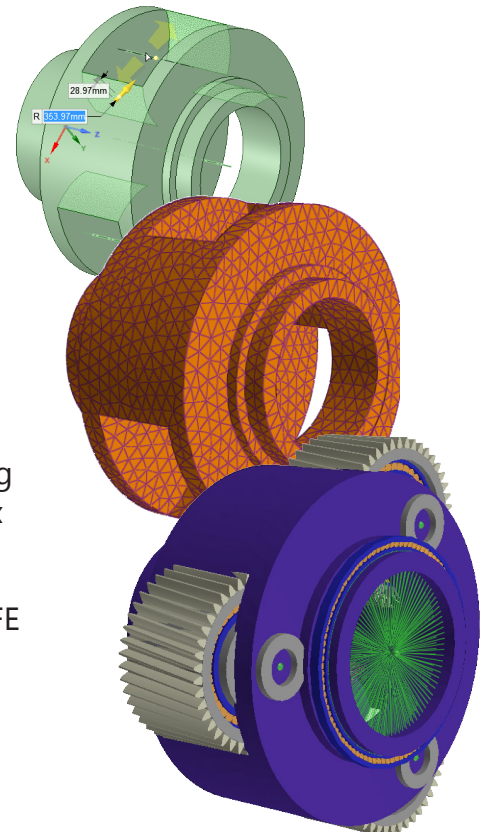
*Marek Jakubaszek, Design Engineer*

CAD **FUSION** now includes new capabilities to create, edit, repair, defeature and automatically mesh complex 3D CAD geometry, such as 3D planet carriers, differential shafts, gear blanks, housings etc.

### How will 3D CAD meshing help me?

Reduce the expense and difficulty of using separate CAD and FE packages when you need to:

- Improve, repair, and defeature existing CAD geometry for import into Romax
- Make design changes to existing FE
- Reduce the mesh density of existing FE
- Modify existing Romax shafts to add cutouts etc



## Run Romax**DESIGNER** automatically in Batch Mode

Romax**DESIGNER** can now be operated automatically in batch mode from a command line, or used in conjunction with external programs such as Isight, Excel, mode**FRONTIER**, or Optimus for analysis and optimisation.

### How will batch running help me?

- Link Romax analysis into other CAE tools and optimisation codes in an automated process
- Increase productivity and automation with repeatable and efficient workflows
- Increase accuracy by reducing errors incurred by manual data-entry and setup
- Improve product quality

*"Romax**DESIGNER** sits at the heart of our design process, and already saves us a lot of time in the development cycle. The new Batch Running capability has brought us even more convenience and time savings. We look forward to continuing to use it and integrating it into our processes, and to see what Romax has in store for next year."*

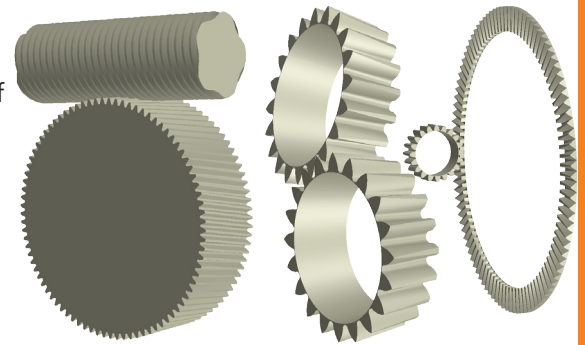
*Berk Yavuz Ozberk, GETRAG*

## Improved Gear Design

Romax**DESIGNER** and **CONCEPT** now have the option to model worm and face gears, and Romax**DESIGNER** can also model beveloid gears. The gear design process has been simplified, so that a single interface can be used for all levels of detail, and detailed gears can be converted back to concept or loading level if required.

### How will the improved gear design capabilities help me?

- Model more gear types than ever before
- Use a gear tooling database for realistic gear design and simulation at the **CONCEPT** level
- Be more efficient, timely and flexible in your gear simulation process

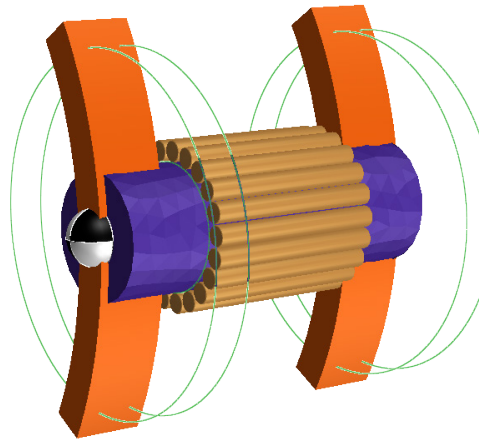


## FE Planet Pin and Bearing Models

Romax**DESIGNER** now allows planetary shafts to be modelled as FE components. This is most useful for flexible planet pins and bearings, and performing fully accurate detailed gear mesh, gear blank, and bearing analysis for planetary systems.

### How will FE planet pin and bearing models help me?

- More accurate analysis for flexible components



*"The inclusion of a new feature to export gear data into drawings within CAD **FUSION** R2.0 is very useful. This avoids the errors often seen when manually typing the gear data onto drawings and has the added benefit of having charts drawn to scale."*

*David Saysell, Design & Analysis Team Leader*

*More features include:*

*Improved usability for all products*

*Improved spline contact analysis calculation in Romax**DESIGNER** and Romax**WIND***

*Improvements to customised reporting in Romax**DESIGNER** and Romax**WIND***

*New components such as hydrostatic components and torque converters in **CONCEPT***

*Improved efficiency analysis in **CONCEPT***

More information on all of our products is available on your installation disc, where you can find detailed Release Notes for all software products, as well as Getting Started Guides for **CONCEPT** and CAD **FUSION**.

To read more about what our customers have to say about using our software products and engineering services, visit our website to see our case studies and testimonials:

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