Seal Design CAE Tool "NewtonSuite-eSeal"



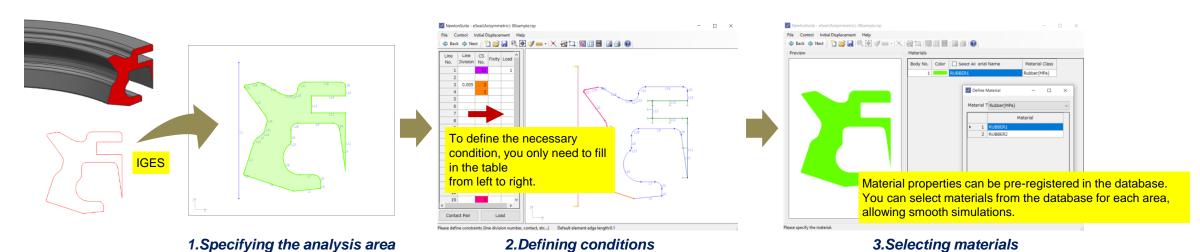
- Overview -

NewtonSuite-eSeal makes simulation as smooth to evaluate and design as a calculator. It enables simple simulation for complex non-linear analysis involving contact, large deformations, and rubber, even for those who are not specialized in these analysis, and provides quick feedback.

- Smooth simulation -

You can easily create the simulation in three steps

- 1. Specifying the analysis area
- 2. Defining conditions
- 3. Selecting materials



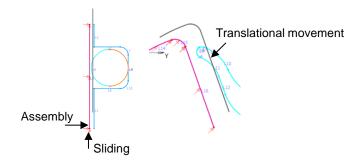
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- Functions for seal simulations -

Displaying via animation

- Represent the assembly process and operating conditions by increasing the load gradually.
- Enables you to confirm the conditions set before the analysis By displaying the load amounts.

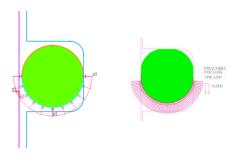


Auto meshing

- Automatically generates mesh suitable for the analysis of rubber seals.
- Allows specification of element length by default or by region.

Pressure condition

- Whether or not to apply pressure to the contact areas can be selected.
- Intuitively specify the area where pressure is expected to act.

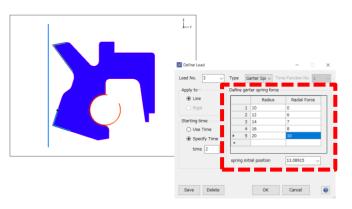


Detach/merge at body boundary

- Manage either adhesion or contact at the body boundary where multiple kind of materials meet.
- Set the coefficient of friction for each pair of contacting surfaces.

Garter spring force

 Define the spring tension to ensure that the jacket part of the seal adheres closely to the mating surface, providing effective sealing.



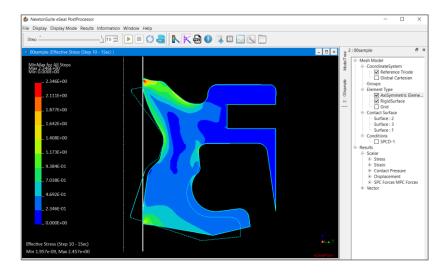
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- Visualizing results with simple operations -

With the post tool

Effortlessly view results like deformed shapes, animation displays, contour views, and graph views with just a few clicks.



Viewing the results

Easily compare results from two different designs by showing them side by side.

