

Endurica DT™

INCREMENTAL FATIGUE SOLVER

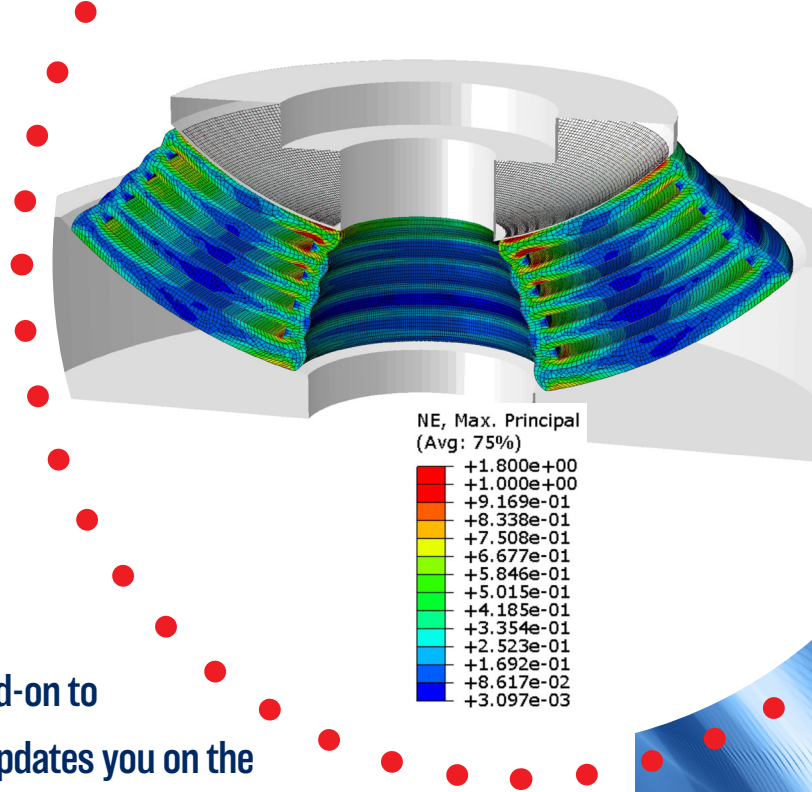
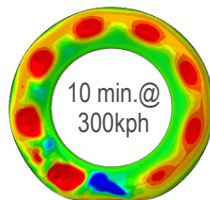
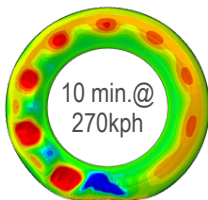
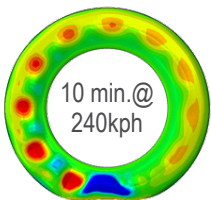
Endurica DT™ is our incremental solver and is an add-on to Endurica CL™. Give DT a series of load cases and it updates you on the remaining life of your rubber part. DT simulates how rubber changes over time.

BENEFITS

- Realistic use cases. Match the load cases and schedule for simulation with what your part experiences during product durability testing.
- Realistic material behavior. Account for load and material property evolution with time.
- Realistic end-of-life criterion. Simulate stiffness-based end of life criteria (i.e. end of life at a percentage of component stiffness loss).

FEATURES

- DT analyzes damage over a series of load cases that you specify (examples: block cycle schedule, FMVSS multi-step tire testing, histogram bins).
- DT tracks damage state evolution in terms of cycles applied, crack size, maximum-ever strain energy density, equivalent ageing time, and cyclic softening.
- DT calculates residual life / residual strength at the end of each scheduled load case.
- DT offers co-simulation workflows for ageing and cyclic stiffness loss analyses in which the stress-strain solution is updated due to material property evolution.
- DT offers a Digital Twin capability for structural health monitoring applications.



Endurica
Get Durability Right®

TECHNICAL NOTES

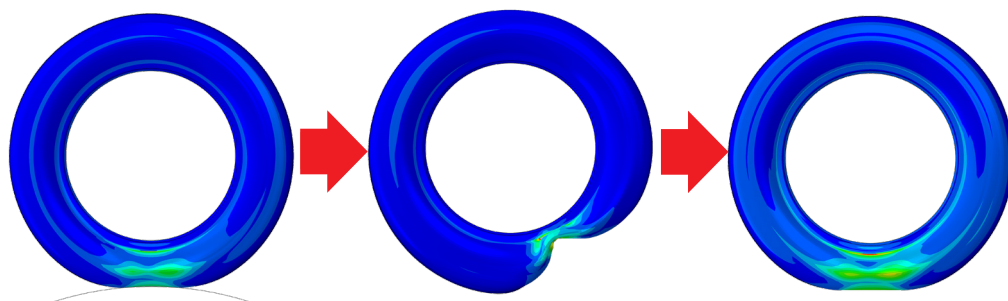
- Compatible FEA solvers:
Abaqus, Ansys, Marc*
- OS: Windows or Linux
- Licensing: node-locked or
network shared, lease or
perpetual

*CoSimulation workflow not yet supported.

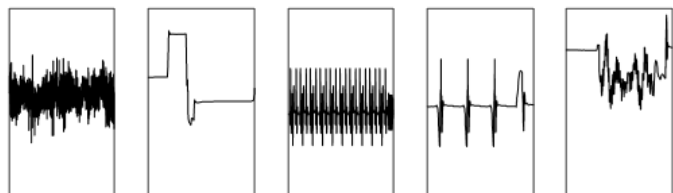
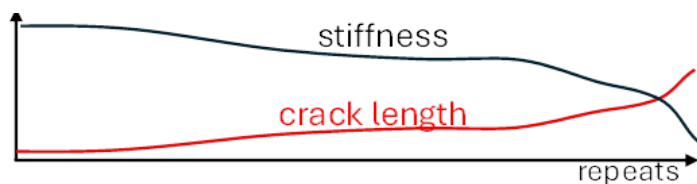
45 km(30min) Break-In

Impact

Run-Out



Block Cycle and Cosimulation Workflows



N1 repeats N2 repeats N3 repeats N4 repeats N5 repeats

THE ENDURICA DIFFERENCE

Scan to learn more



Endurica

Get Durability Right®

C-SUITE INSIGHTS

DURABILITY WINS NEW BUSINESS

Show your customer who is the boss of durability. Let us help you win their business.

RIGHT THE FIRST TIME SAVES BIG

Missing the durability qualification resets your development cycle and puts you back big time. Let us support your people with tools and expertise.

GET THERE FIRST

Getting design decisions right for durability will get you to market faster.

START WITH QUALITY

Does your product still function after misuse or abuse? Calculate residual life to find out.

FUTURE PROOF YOUR BUSINESS

Ask about our Digital Twin capabilities. Get durability online for your IoT and Big Data applications.

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