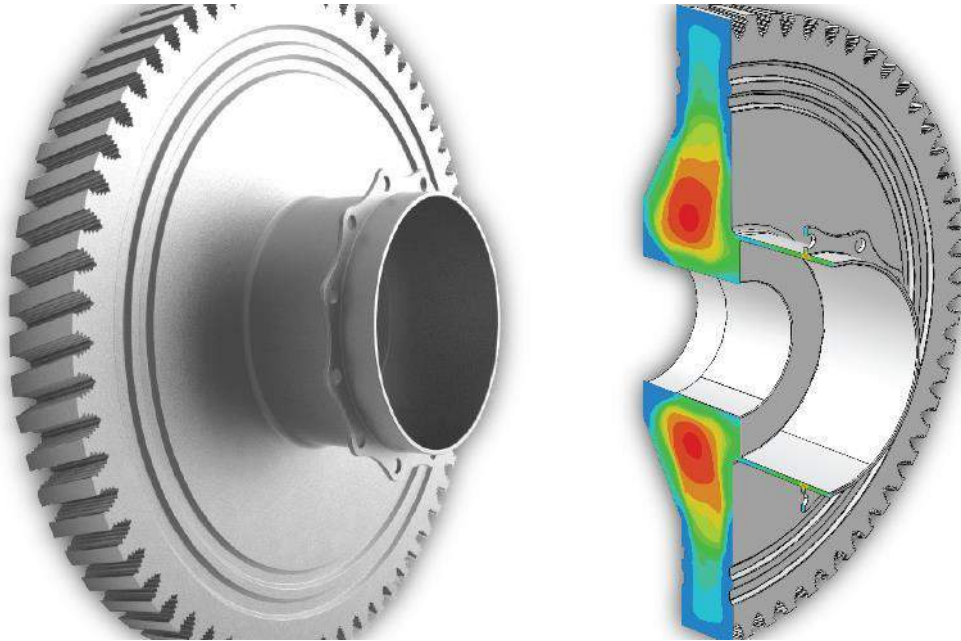


Controlling Residual Stress and Distortion during Manufacturing of Turbine Disc



Courtesy of StressMap



Challenges

Non-uniform residual stress fields generated during quenching can pose significant machining difficulties (in the form of distortion) because of stress redistribution.



How can I-SEC help?

Better understanding of the generation and evolution of residual stress.



Benefits

Reduced non-conformance. Improved manufacturing processes.
20% reduction in scrapped parts.