PERMAS provides very efficient analysis of complex volume models:

- extremely fast contact analysis
- convenient modelling
- non-linear material
- parallel computing

Mahle GmbH: piston for ship diesel engine

Mahle Ventiltrieb GmbH: roller follower arm for large truck engines

CAD- and FEM-model

stresses on deformed structure
Deutz AG
crankshaft of V8 engine

Porsche AG
con-rod of Boxster engine

- very large models with many contacts
- incompatible contacts
- coupling of incompatible meshes
- convenient modeling of ribs, press fits, bolt joints
- plasticity and creep
- non-linear elasticity
- thermal, static and contact analysis
- modal analysis and acoustics

for more information on PERMAS contact...

INTES GmbH
Schulze-Delitzsch-Str. 16
D-70565 Stuttgart
Tel. +49-711-78499-0
Fax +49-711-78499-10
E-Mail: info@intes.de
http://www.intes.de

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