PERMAS
Automated Part Coupling

Raising productivity in finite element modelling:

- mesh-independent modelling of complex parts
- faster exchange of parts by keeping other already meshed parts unchanged
- more flexible modelling by part-oriented meshing
- improved mesh quality by accurate mesh transitions
- applicable for all analysis types

Contact analysis with local mesh refinement: Accurate results at face and root of a gear tooth, in combination with moderate model size (by courtesy of Renault Sports).

Automated generation of spotweld elements and their coupling with incomaptibily meshed flanges.
In the preprocessor, the user specifies:
- surfaces,
- spotwelds,
- contact properties.

PERMAS automatically performs:
- neighbourhood search,
- kinematic connection of the parts,
- contact analysis.

For verification and evaluation, PERMAS provides:
- characteristics of the coupling (like distance and normal vectors),
- coupling forces, spotweld forces,
- contact forces, gap widths, etc..

For more information on PERMAS contact:

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