Pass Design Group Agenda

2:00 PM to 4:30 PM

Triton Room

FORGE® NxT addressing reducer rolling process

Reducer rolling process is used to produce preform for component such as for example connecting rods or crankshaft. Simulating the entire forming processes including reducer rolling stage provide the best accuracy for the entire manufacturing process workflow.

FORGE® NxT allows accurate prediction of:

- The geometry of the component at the end of the reducer rolling stage,

- Fold or any defect detection,

- All the state variables, like for example the equivalent strain in order to take it into account in the subsequent operations,

- Torques and loads to apply on the rolls.

Competitive features:

- All the movements of the preform within the rolls can easily be described through a dedicated Multi-Pass Command File. This file allows defining the translation and rotation in between reducer rolling passes.

- Easy prediction of flaws.

- Easy-to-setup tracking features. As an example, the shear surface can be tracked during all the passes.

- Chaining with subsequent forming operations