

# Applications

Laurent CHAMPANEY

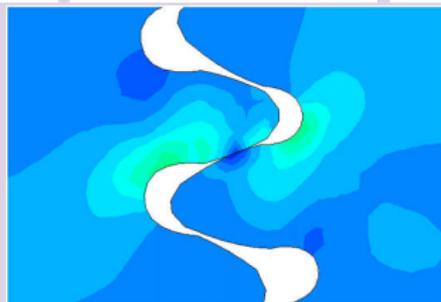
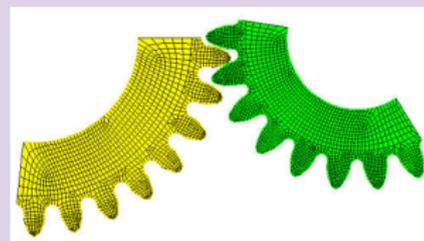
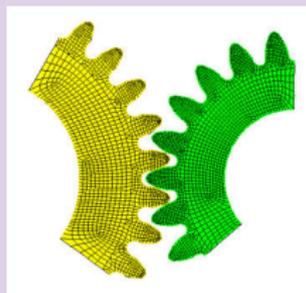
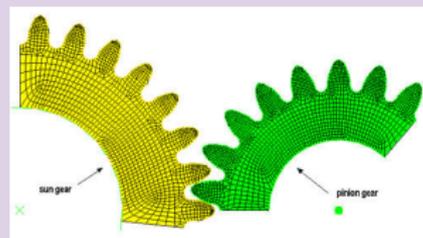
Master 2 DSME - TACS

décembre 2004

- 1 Contact sans frottement
- 2 Influence du frottement
- 3 Crash
- 4 Transmission de puissance
- 5 Mise en forme
- 6 Multi-contact

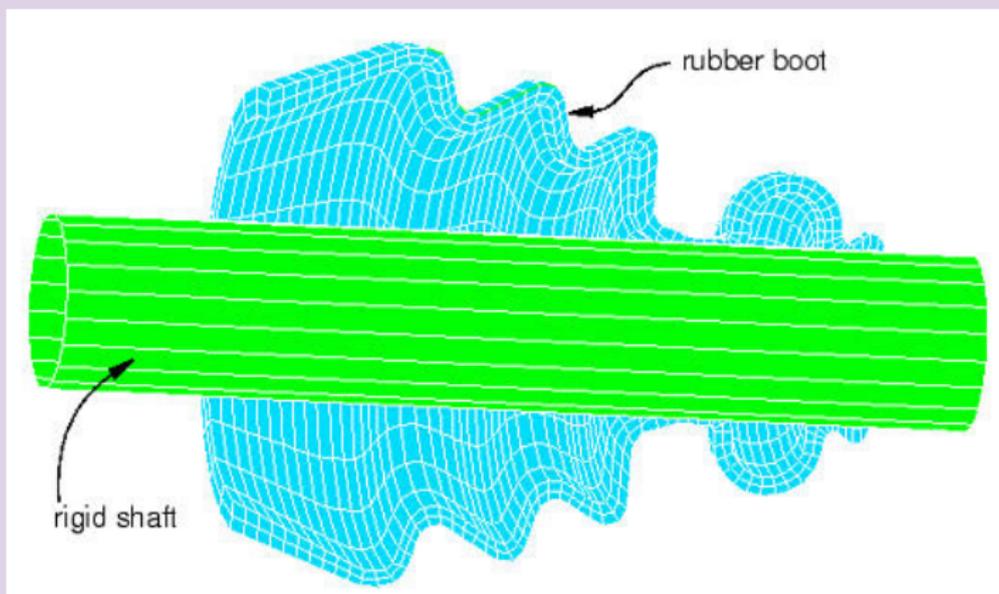
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## Engrenages



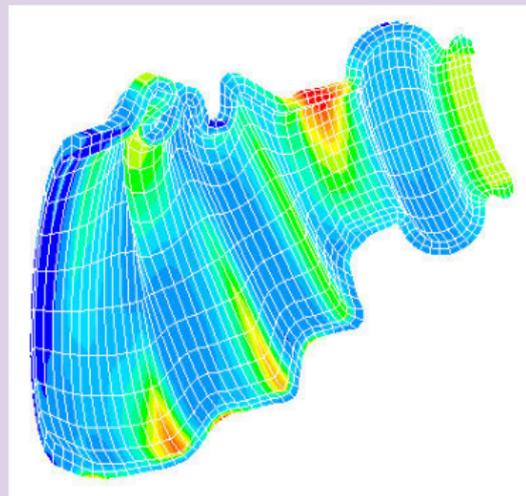
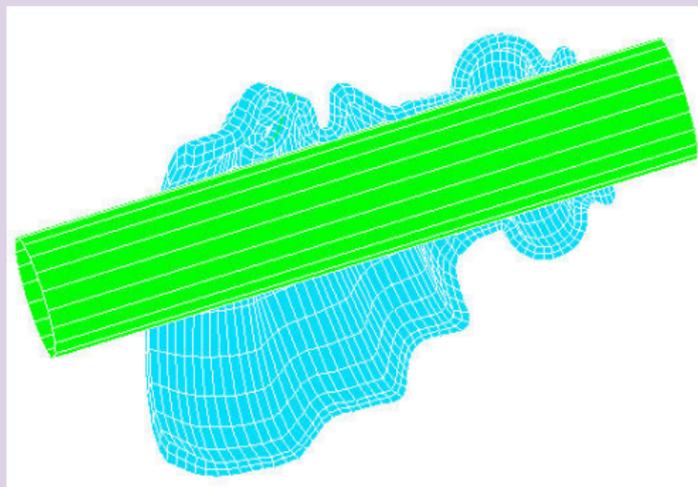
[ABAQUS - [www.hks.com](http://www.hks.com)]

## Auto-contact



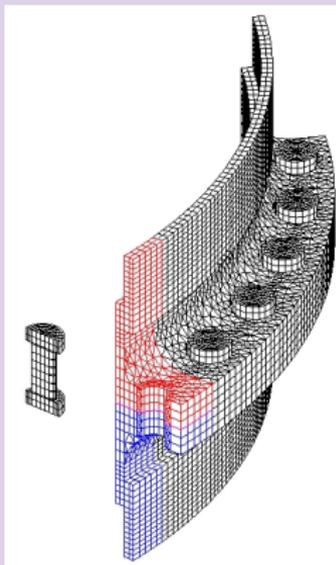
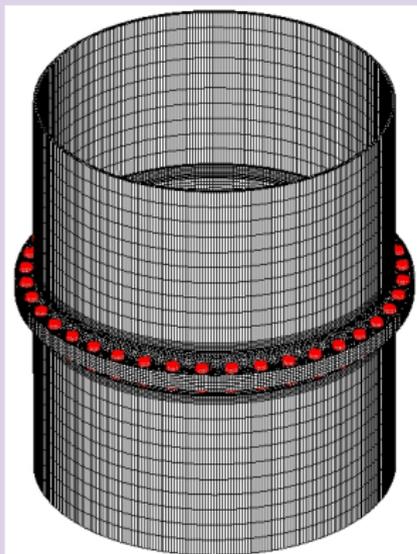
[ABAQUS - [www.hks.com](http://www.hks.com)]

## Auto-contact



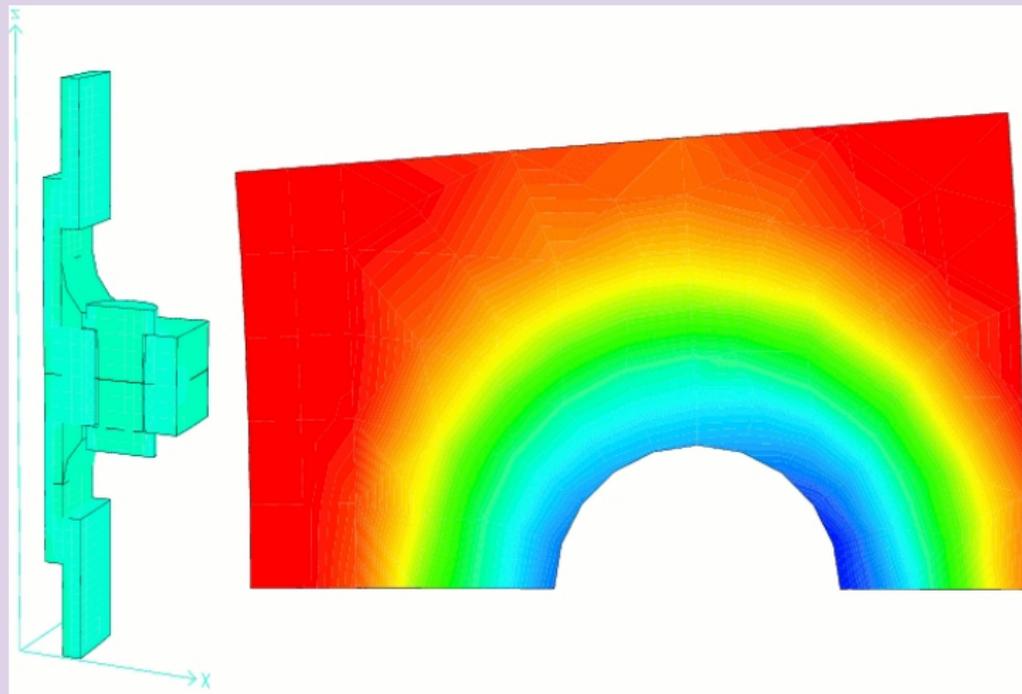
[ABAQUS - [www.hks.com](http://www.hks.com)]

## Bride sur lanceur

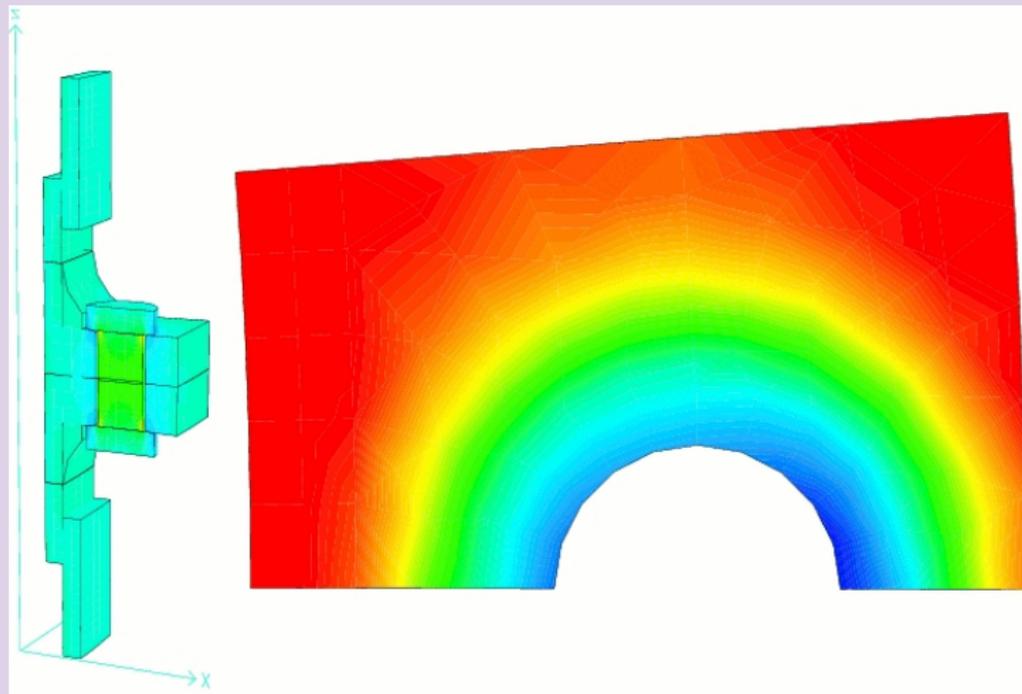


[Cofast - L. Champaney]

## Bride avec précharge faible



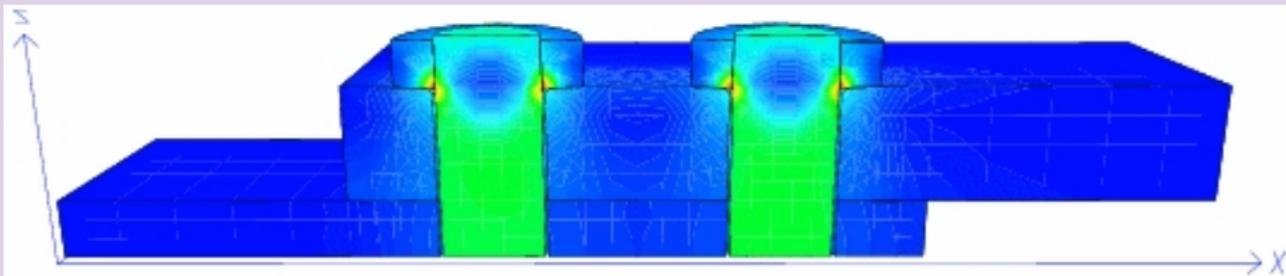
## Bride avec précharge élevée



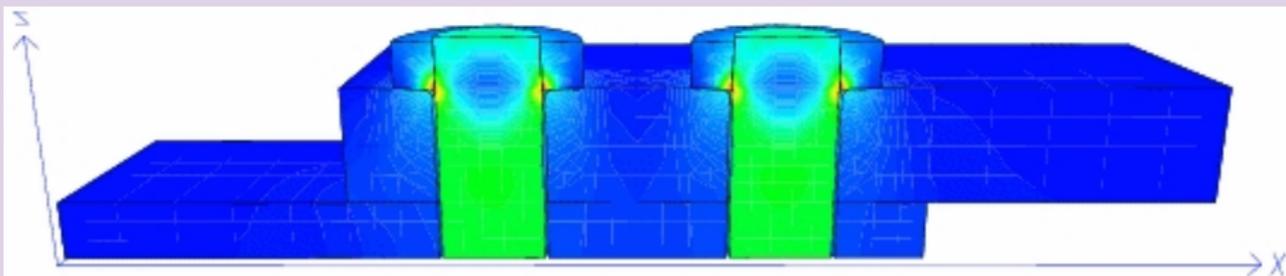
- 1 Contact sans frottement
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## Liaison boulonnée (sans frottement)

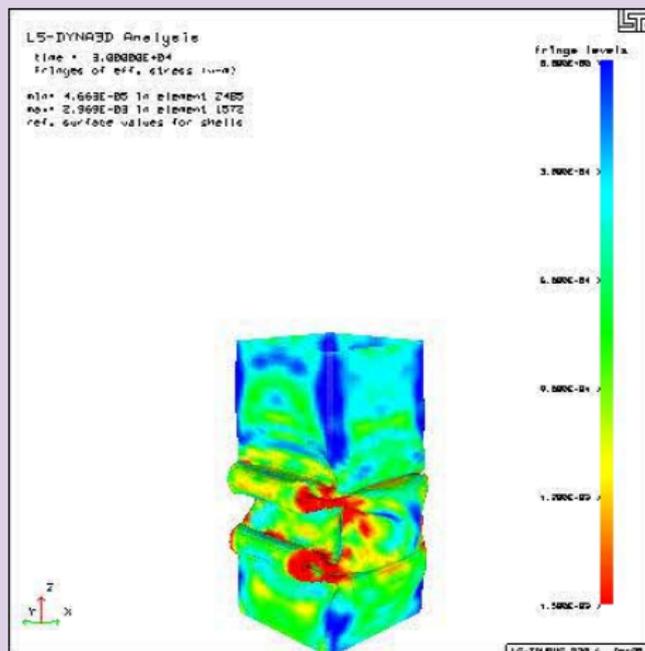


## Liaison boulonnée (frottement : 0.8)



- 1 Contact sans frottement
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## Longeron



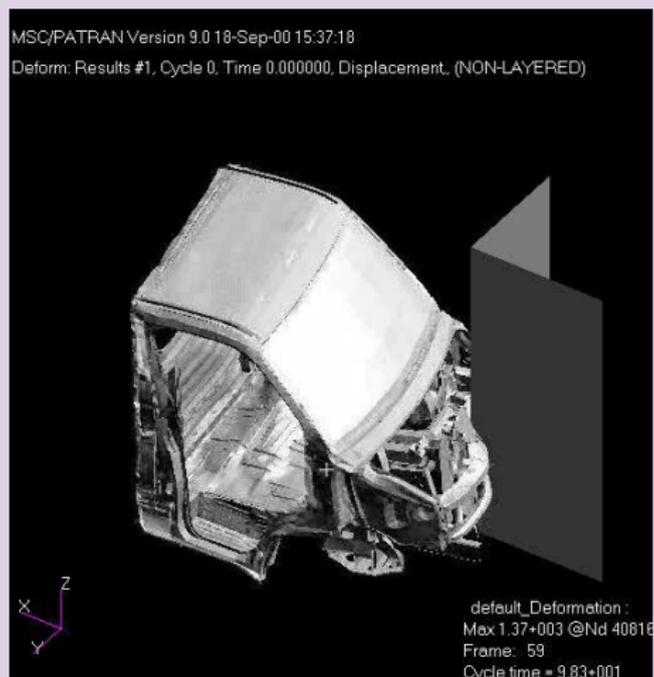
[LS-DYNA]

## Chassis



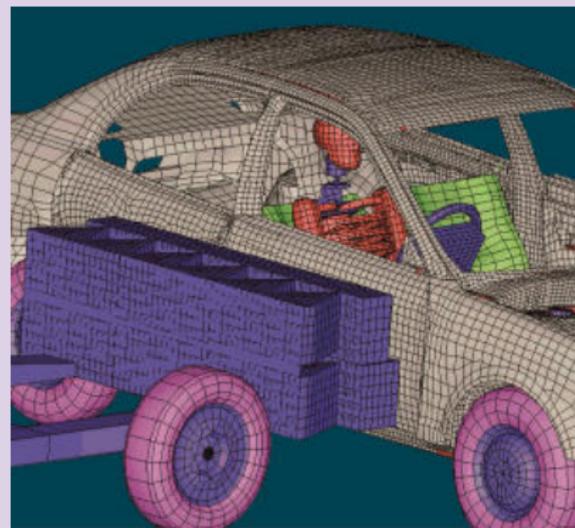
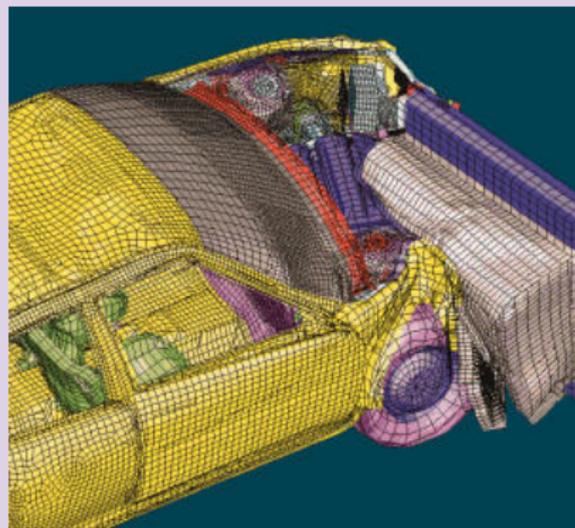
[MSC/Nastran - [www.msc.com](http://www.msc.com)]

## Véhicule utilitaire



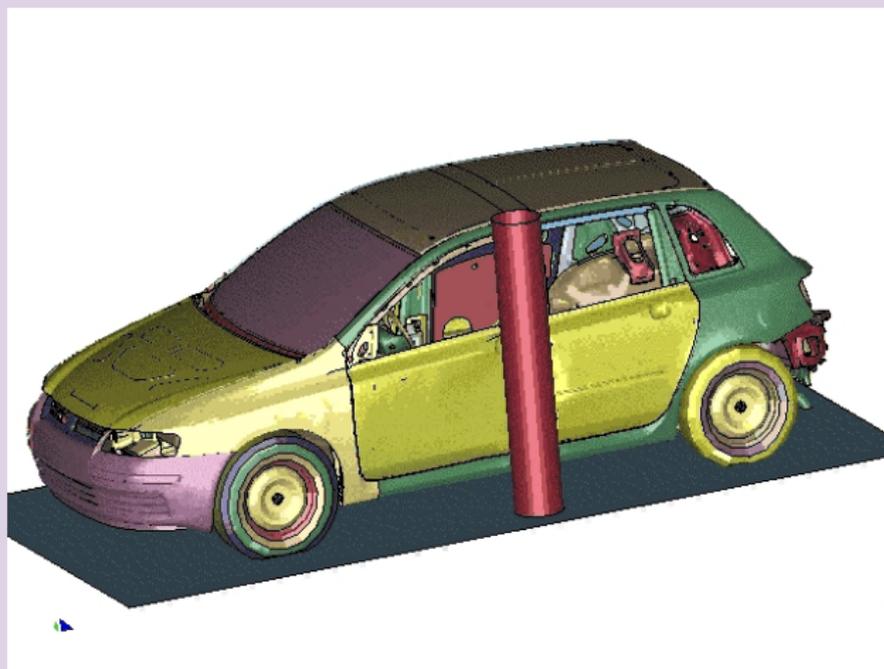
[MSC/Nastran - [www.msc.com](http://www.msc.com)]

## Impact frontal et latéral



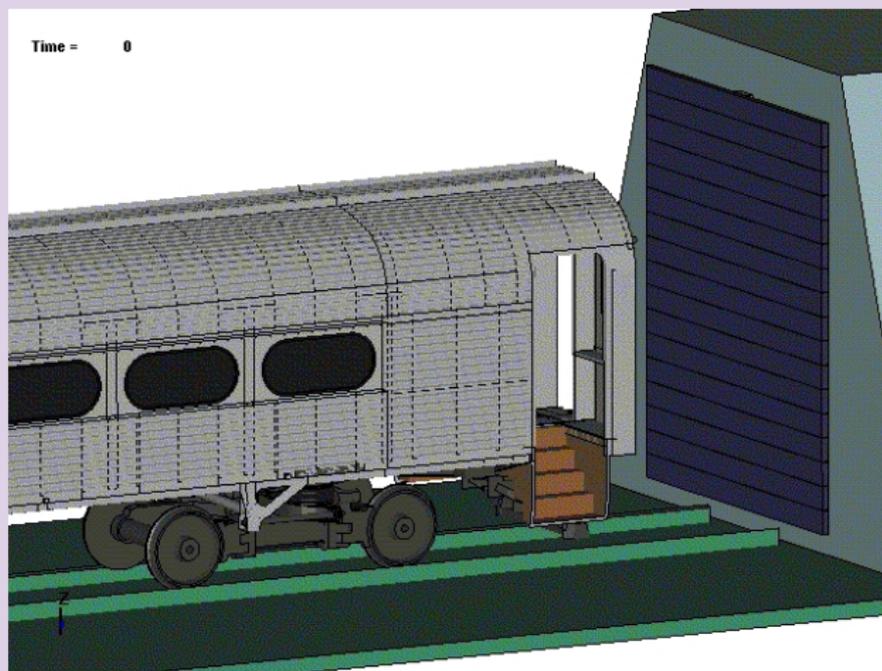
[LS-DYNA]

## Choc latéral



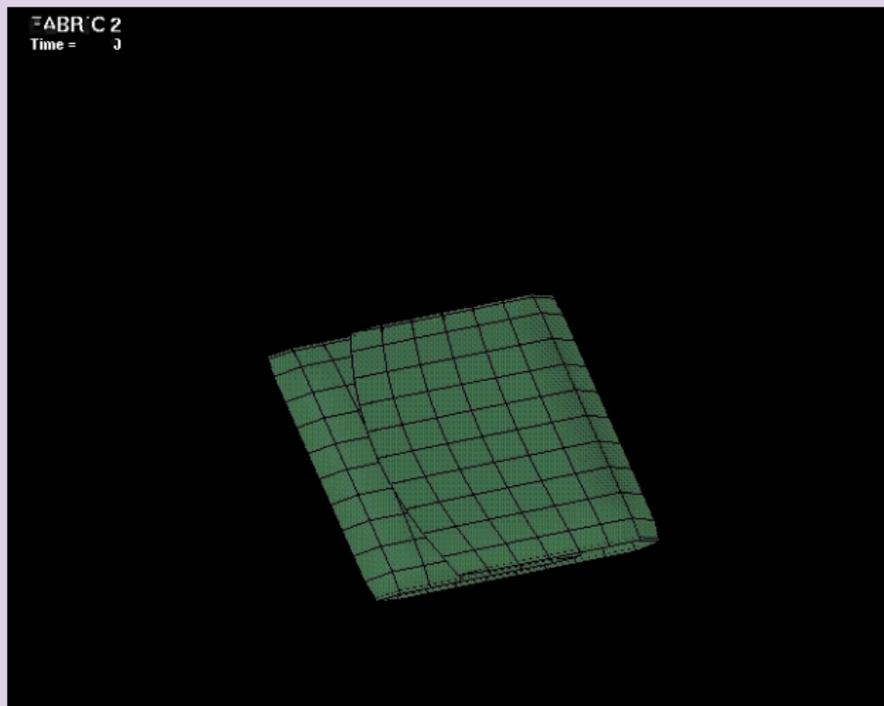
[LS-DYNA]

## Trains



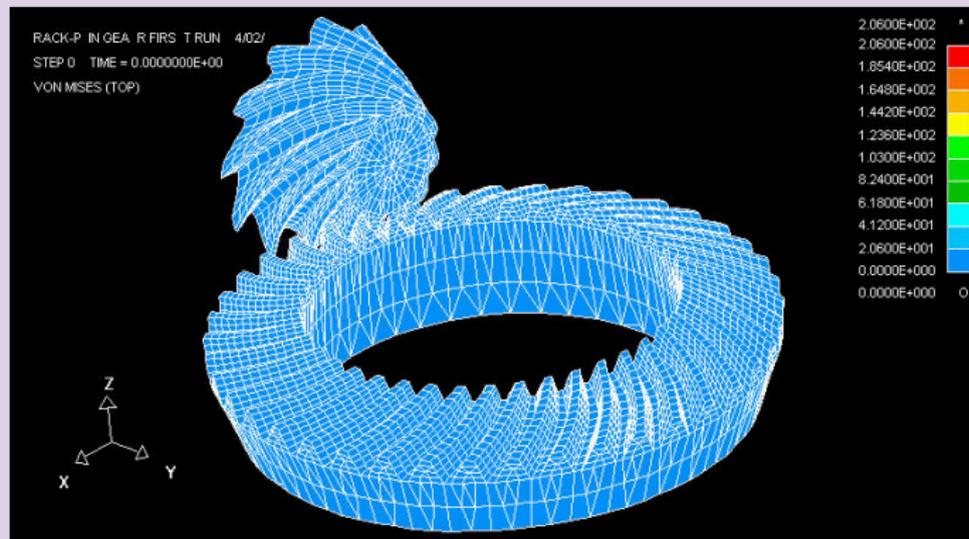
[LS-DYNA]

## Airbag



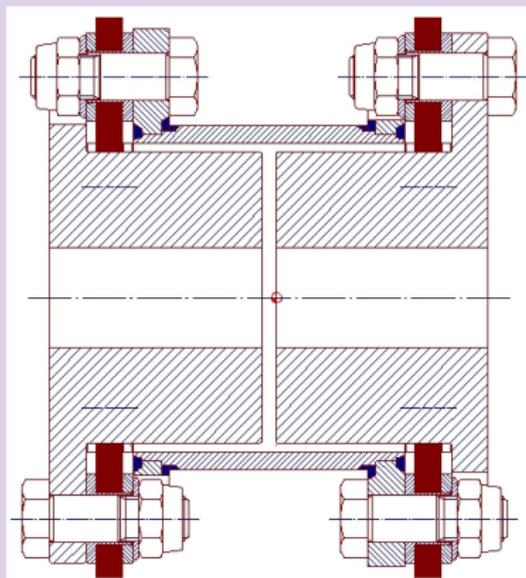
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## Engrenage conique



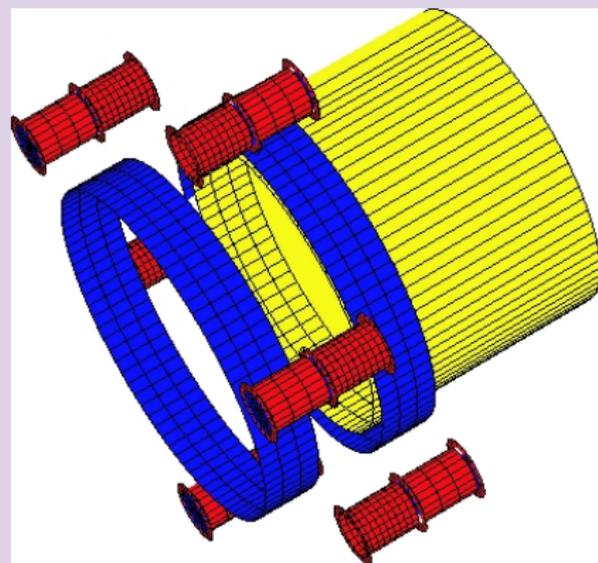
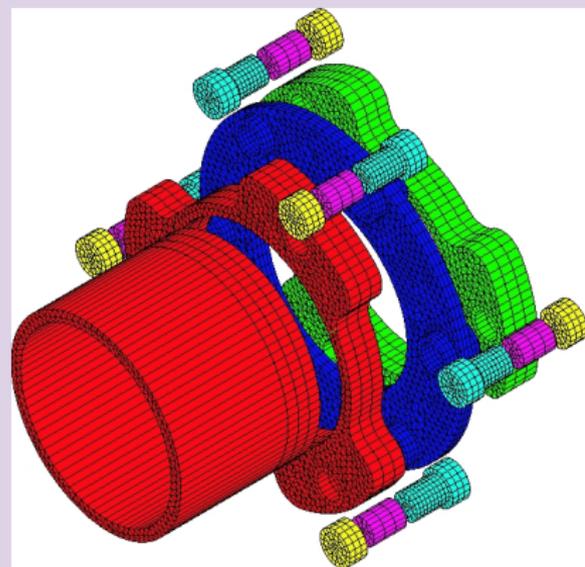
[LS-DYNA]

## Accouplement élastique



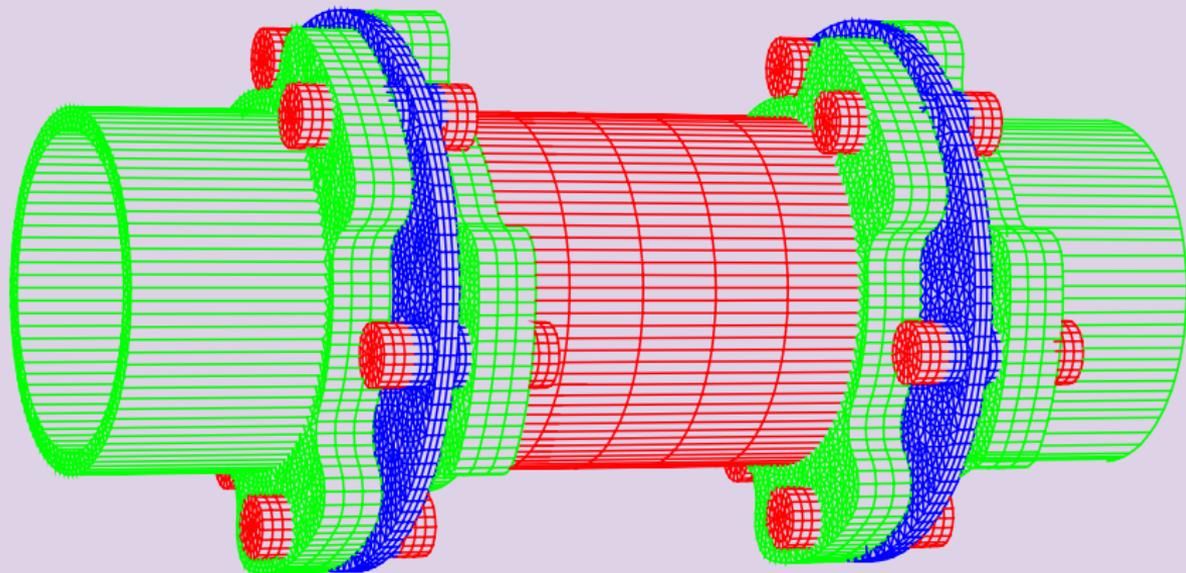
[Cofast - L. Champaney]

## Accouplement élastique



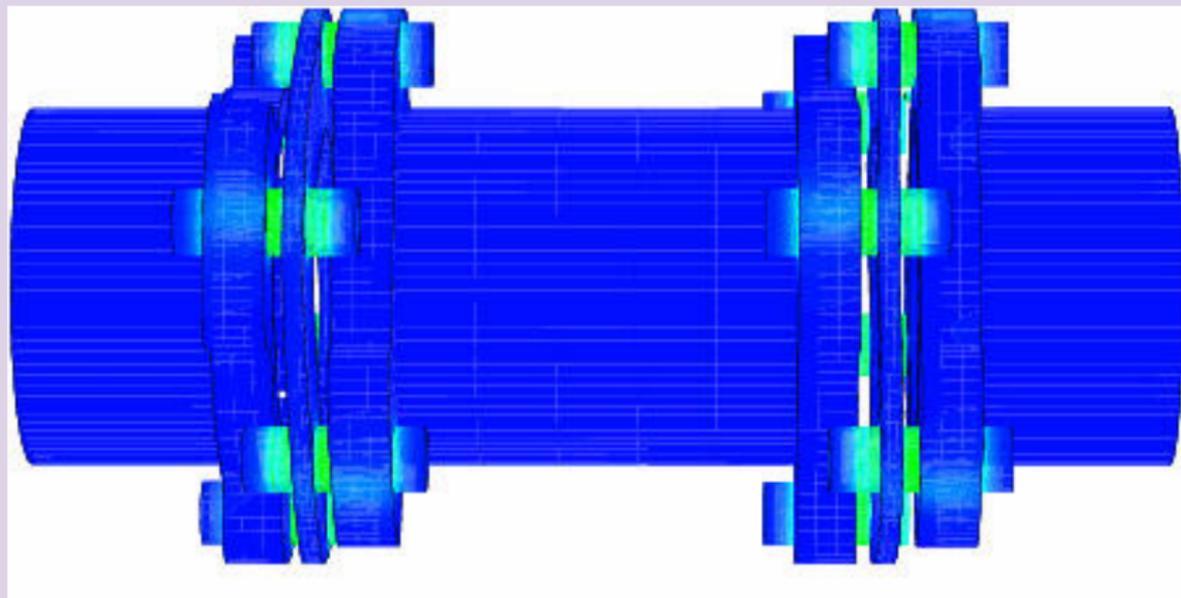
[Cofast - L. Champaney]

## Accouplement élastique



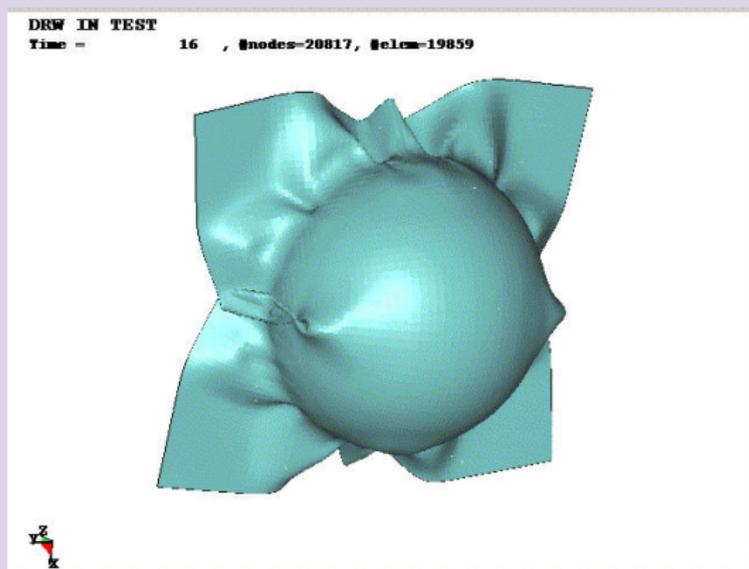
[Cofast - L. Champaney]

## Accouplement élastique



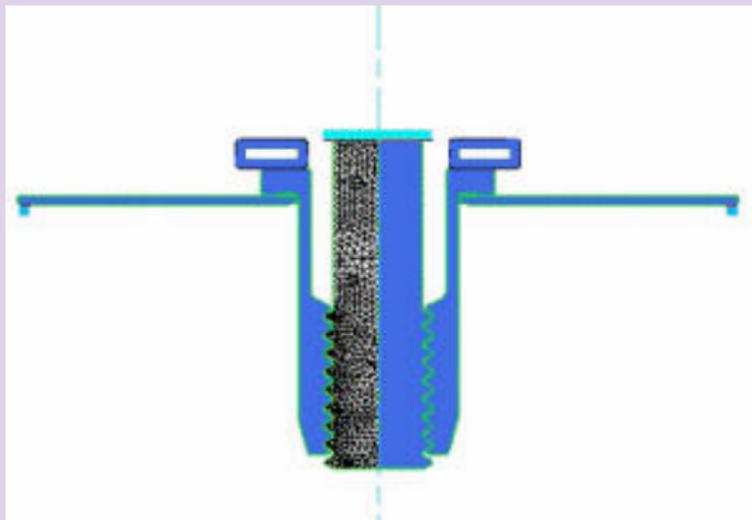
- 1 Contact sans frottement
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## Emboutissage



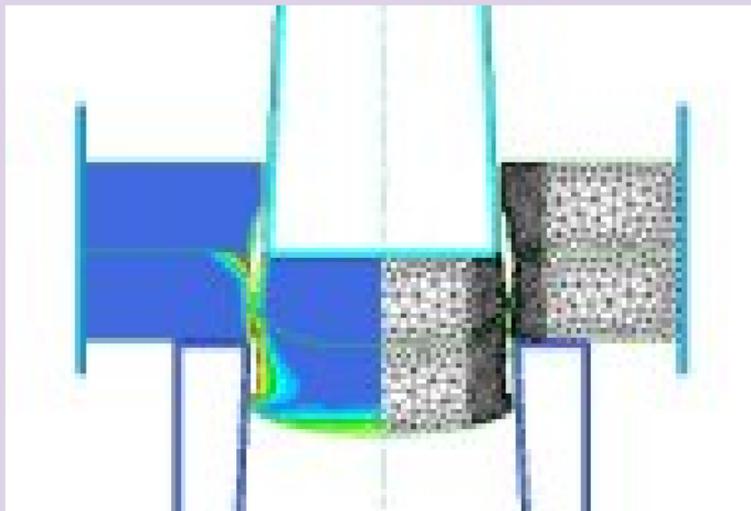
[LS-DYNA]

## Rivetage



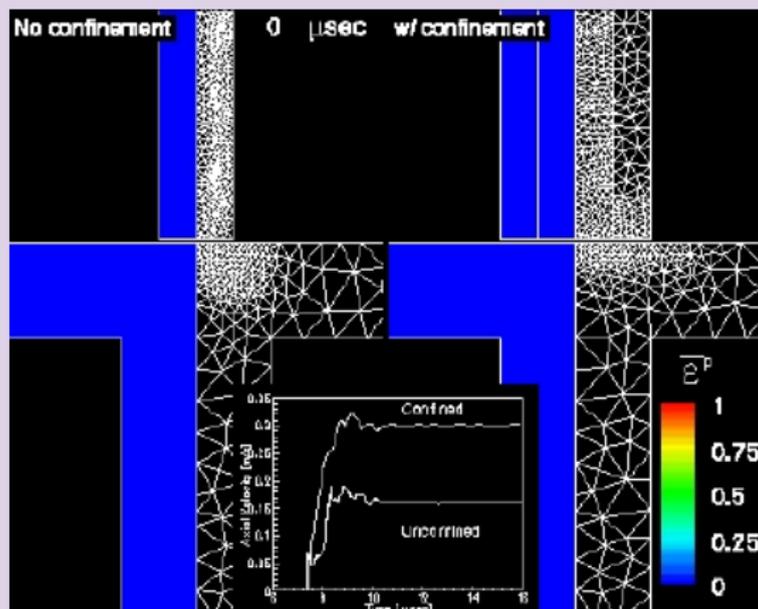
[Forge2 - Transvalor]

## Découpe



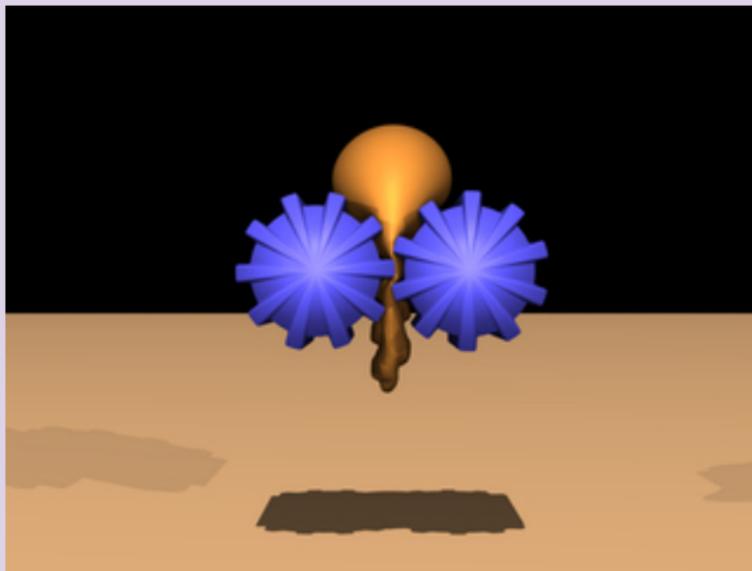
[Forge2 - Transvalor]

## Perforation



[Forge2 - Transvalor]

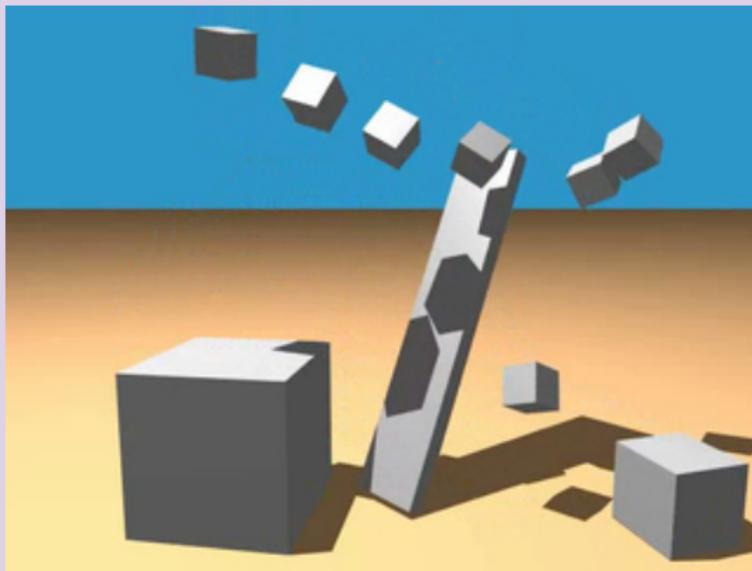
?



[Row fedwik - Stanford]

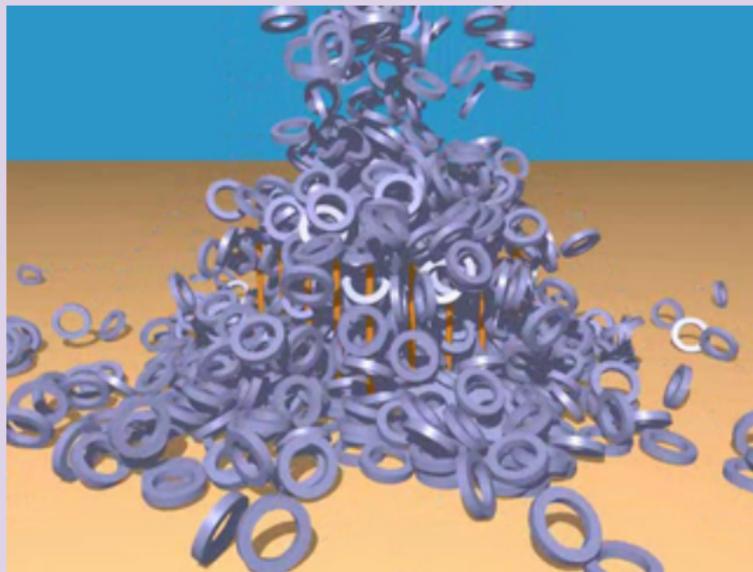
- 1 Contact sans frottement
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## Cubes



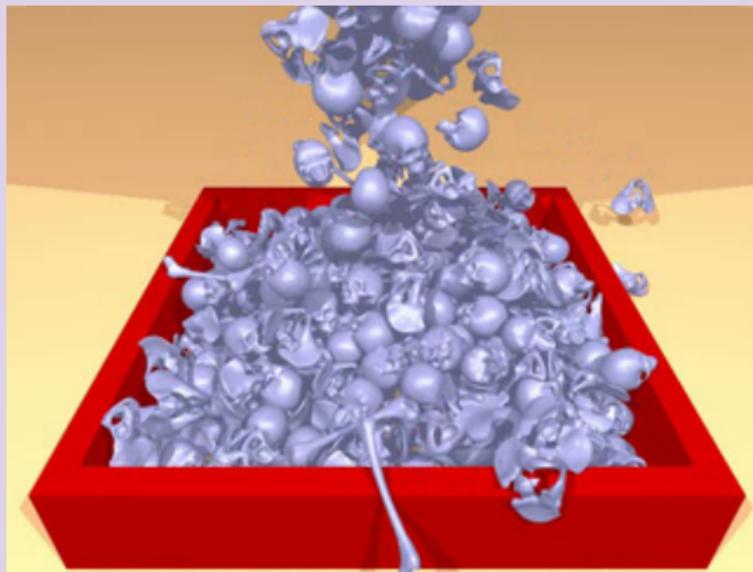
[Row fedwik - Stanford]

## Anneaux



[Row fedwik - Stanford]

Autre !



[Row fedwik - Stanford]