

## Modeling of mechanical backlash with two-sided shaft connection

Positions and angles are usually not measured directly next to the backlash spot, which demands to incorporate the dynamics of the connecting shafts into the mathematical description of backlash. However, literature only considers a connecting shaft on one side of the backlash spot. This project aims to fill this gap by including shaft dynamics on both sides.

- Creating simulation models of existing approaches
- Development of a new backlash model with connecting shafts on both sides
- Validation using measured data from power train test bed
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