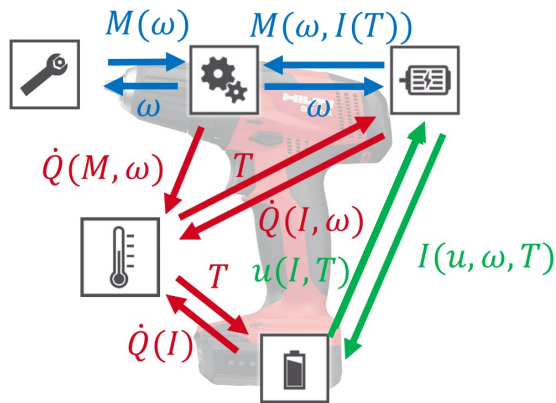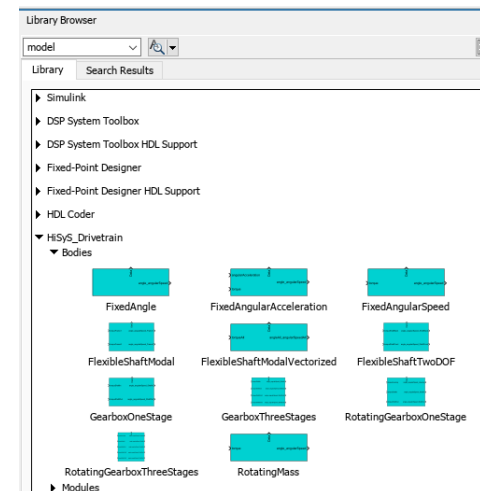# MODEL CREATION FOR A SIMULINK MODEL LIBRARY

Problem Description

- In past, many simulation models were developed for specific tasks and categories of power tools

- For reducing the number of model variants, we now are creating a library of standardized component models

- Examples for models: Mechanics (gears, drivetrains, application loads), batteries, motors

Objectives & Tasks

- Creation of component models for the libraries

- Development of test cases for verifying correct outputs of the models for different operating conditions

- Polish models to coding guidelines

- Create a user's manual for the developed models

- Used software tools: Matlab/Simulink, Git, Confluence

Several Hilti models already enrich the Simulink libraries