

Velodyn for ComApps

Development Methodology for Configuring Hybrid Power Trains

Given the wide range of applications for commercial vehicles and mobile equipment, their powertrain and hybrid structures can come in any conceivable form. They can be configured with hydraulic, pneumatic as well as electric or mechanical components. Depending on the application, these systems are part of the vehicle or machine concept even today. For many applications, simulating mechanical implements demands the use of a multi-body system

approach. Simulating mechanical movement cycles and reproducing hydraulics in particular produce the greatest difference between the model structures of on- and off-highway applications. To satisfy the above demands, the model library provided by Velodyn for ComApps also offers components from the Simscape simulation language and alternatively allows for co-simulation with specialized external tools.

