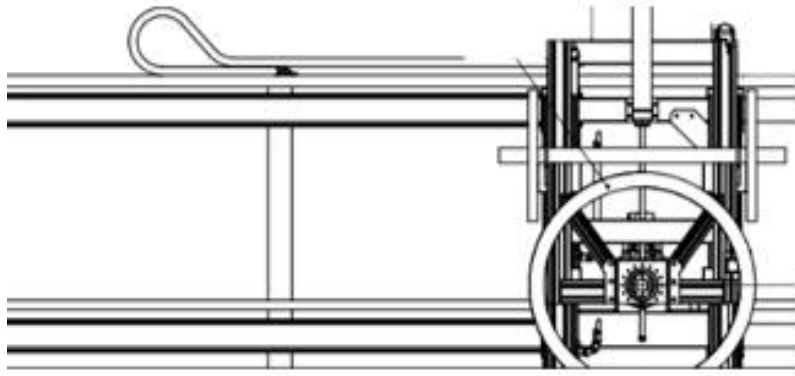




PROTOINNOVATIONS

LARGE SINGLE-WHEEL TESTBED



Capabilities

- Wheel torque up to 300Nm
- Speeds up to 0.5m/s
- Wheel loads from 15-220kgf
- Fits Ø0.4m-Ø0.65m wheels, larger with modification
- Simulated slopes with up to 1200N of drawbar force
- 5m of operating length
- Adjustable camber angle
- Various operating modes
 - Controlled slip
 - Controlled traction force
 - Sequenced tests for durability and degradation

Environment

- Bed filled with GRC1 Simulant
 - Depth of 30cm
 - Width of 1m
- Loose and embedded obstacles available
 - 5-20cm basalts and anorthosites

Data

- 6-axis load cell data
- Synced position/velocity data
- Explicit sinkage measurement
- Explicit slip measurement
- Video recording