

## System Overview

This dyno test bench is designed to test the hub motor without removing the tyre from the hub. Torque on the hub motor spindle is measured from the reaction arm. The provision is given to adjust the tyre to roller pressure and this load is measured and monitored through a load cell. This facilitates the simulation of various gravity loads on the hub motor spindle.

Speed Torque curve

Efficiency mapping

Duty cycle test

Temperature mapping are the main features of this dyno test bench.

All the measurements are carried out in a accurate and precise way using DAQ system. The test setup and operation have been programmed in a simplistic manner.

## Specifications

Type of loading	Direct tyre on loader
Rim diameter min	10 inch
Rim diameter max	24 inch
Roller dia	170.3mm
<b>Dyno motor</b>	
Max torque	80Nm
Base speed	1300 rpm
Max speed	4000 rpm