



VEHICLE TEST WORKSHOP

Description

The vehicle test area has been designed to support a number of whole vehicle testing applications from the use of our vehicle weigh bridge, roller brake to a functional vehicle workshop including 15m long pit and 7.5 tonne electronic lifters. These facilities can support various vehicle test activities from small passenger cars to heavy goods / commercial vehicles and can be complemented by our chassis dynamometer and VSAC (vehicle semi anechoic chamber).

Our vehicle weighbridge allows the simultaneous measurement of individual axle loads and total vehicle weight for up to 3 axle vehicles. Test weights are available to load a vehicle to its required test weight whilst resting on the weighbridge, allowing accurate and efficient vehicle loading. Loading frames can be constructed to support high centre of gravity (CoG) loading. The weighbridge can measure vehicle weights up to 60 tonnes with an accuracy of +/- 10 kg.

The roller brake test facility features two pairs of electrically driven rollers which motor the wheels against applied brakes, enabling measurement of individual braking efforts. Hydraulically operated axle load simulation is built into the rig.

Typical Applications

- Measurement of vehicle / axle loads
- Braking efforts
- Data acquisition packages
- General vehicle instrumentation
- Vehicle modifications

Specification

Roller Brake:

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|----------------------------------|--------------|
| – Drive capacity per wheel | 22 kW |
| – Max torque per wheel | 45,000 Nm |
| – Test Speed | 2 km/h |
| – Max Axle Load | 13 tonnes |
| – Vehicle track width | 900 – 2600mm |
| – Axle load simulation per wheel | 6.1 tonnes |