



SEVEN POST RIG

Our seven-post rig adapts to most vehicles and is a valuable development and proving tool for original equipment manufacturers and high-performance car developers. Our baseline configuration, featuring one frontal downforce actuator and two at the rear, is ideal for optimising the vertical dynamics of cars generating large amounts of downforce.

For road vehicles also a four-post mode is available (i.e. comfort rating).

APPLICATIONS:

- Track data replay with excellent correlation to the track
- Set-up optimisation for races (prior and during event)
- Analysis of resonance frequencies in roll pitch and heave
- Vibration measurements using synthetic or track inputs
- Complete car suspension friction measurements
- Noise, vibration, harshness (NVH) investigations
- System checks on on active suspension systems, e.g. ride height control systems

SPECIFICATIONS

Max. Wheel Pan Force	29kN
Max. Dynamic Wheel Pan Stroke	±125mm
Max. Downforce Actuator Force (down)	15.6kN
Max. Downforce Actuator Force (up)	8.9kN
Actuator Stroke	±125mm
Max. Vertical Wheel Pan Acceleration	20-30g
Peak Velocity of Wheel Pan @ 10Hz	4.5m/s

MAX. WHEEL PAN DISPLACEMENT @

7Hz	200mm
10Hz	100mm
20Hz	12mm
30Hz	10mm
50Hz	3mm
100Hz	1.5mm

