



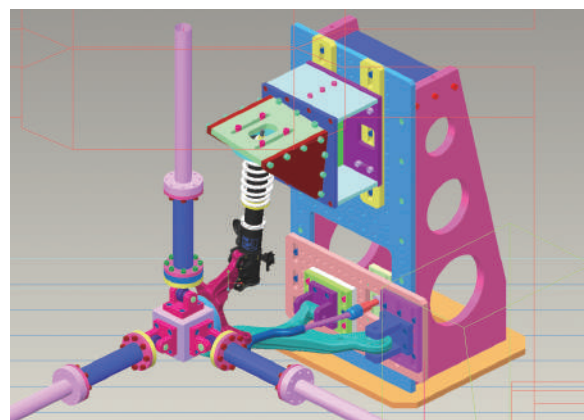
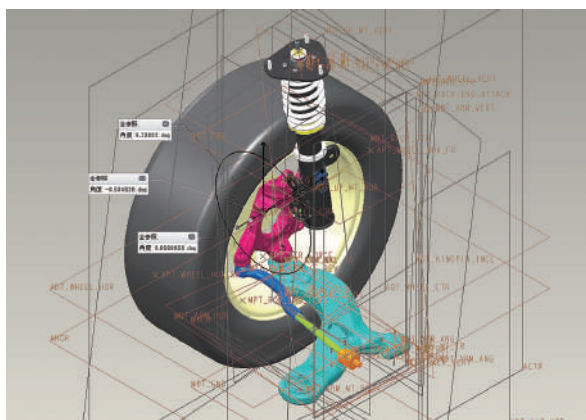
Suspension Contract Services Development / Manufacturing / Testing

OEM Shock Absorber & Spring Development & Manufacturing

Quality Suspension for OEM & Aftermarket

With years of expertise, we offer full-service design, development, and manufacturing of shock absorbers and springs. Our OEM-style suspension kit, HIPERMAX G, is trusted by automakers. Enhanced durability of sliding and rubber parts enables a 3-year/60,000 km warranty.

3D CAD design, test fixture design and production



HIPERMAX G



Suspension Component Testing Services

Supporting Development with High-Precision, Multi-Function Testing

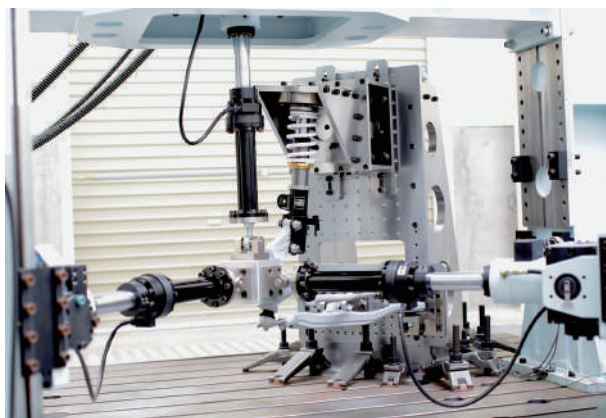
HKS offers testing services for suspension components using two advanced hydraulic machines. We conduct damping force evaluations, 3-axis durability tests, and single-axis fatigue tests. Advanced analysis includes dynamic strain measurement, internal visualization, and FFT-based frequency analysis.

Shock Absorber Testing Machine – Specifications



No.	Item	
1	Excitation Force	±20kN
2	Maximum Stroke	±100mm
3	Maximum Velocity	±150cm/s
4	Frequency Range	0.01 ~ 50Hz
5	Lateral Load Capacity	MAX500N
6	Excitation Waveforms	Standing wave (sine wave, triangle wave, rectangular)
7	Fatigue Test Output	Load & Stroke Data (Peak, Real Waveform, Lissajous)

3-Axis Suspension Test Rig – Specifications



No.	Item	
1	Excitation Force	±20kN
2	Maximum Stroke	±125mm
3	Maximum Velocity	±120cm/s (single axis) ± 83cm/s (3-axis simultaneous)
4	Frequency Range	0.1 ~ 30Hz
5	Lateral Load Capacity	Standing Waves (Sine Wave, Triangle Wave, Square Wave)
6	Excitation Waveforms	Ramp WaveLoad & Stroke Data(Peak, Actual Waveform, Lissajous)

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