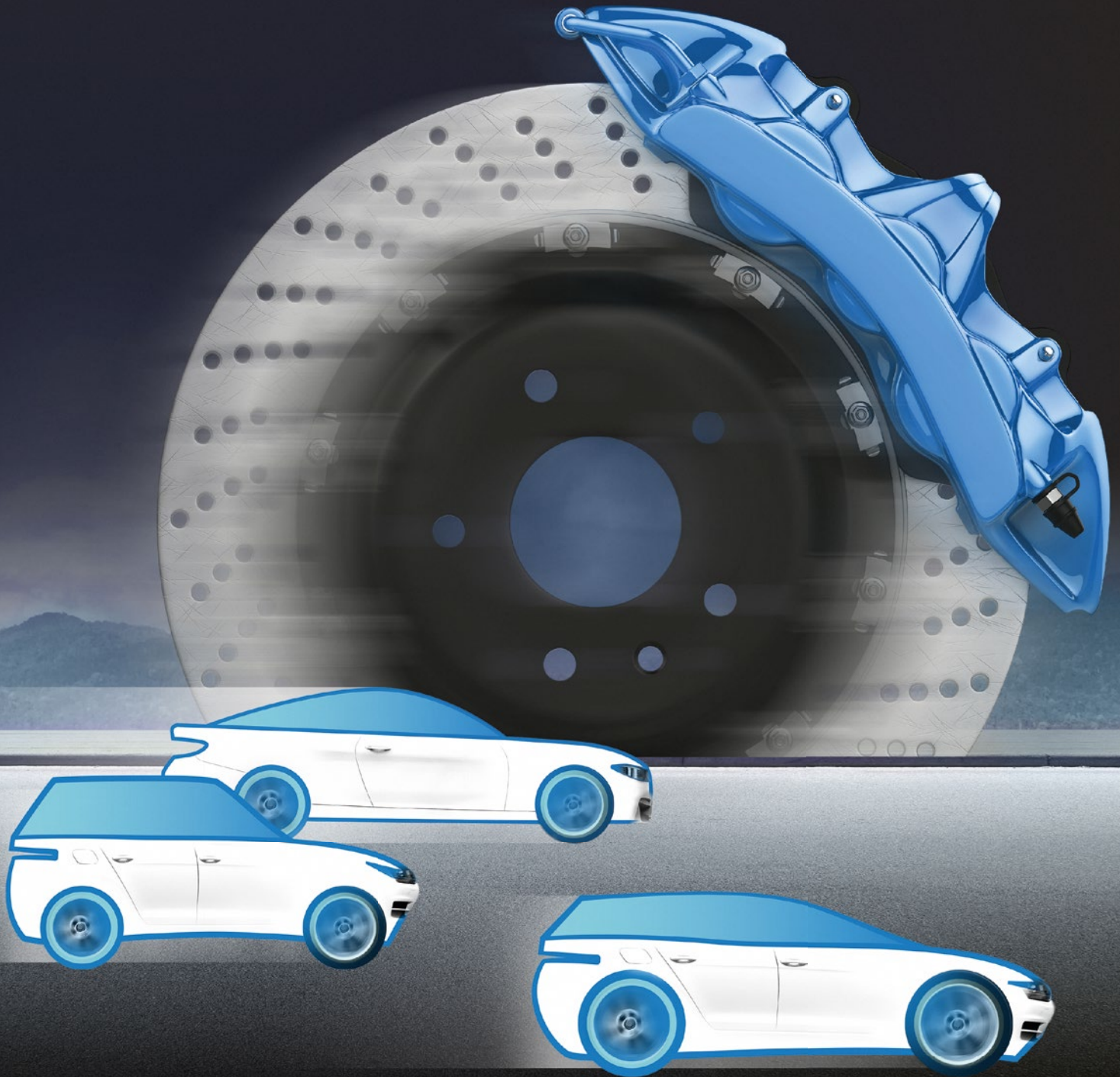


HORIBA
Automotive Test Systems

INERTIA BRAKE DYNAMOMETERS
GIANT EVO



GIANT EVO

Inertia Brake Dynamometers

The GIANT Evo is an extension of the well-proven GIANT product portfolio and has been developed to suit the growing demands and needs of the current and future brake markets. Covering the market segments from mini and compact cars to medium-sized SUVs, the GIANT Evo is a comprehensive system that provides the tools to developing and testing all aspects of the brake system. All components of the GIANT Evo are specifically tailored to the needs of the passenger car market segment.



TEST PROGRAMS

- » AK Master
- » AK Noise
- » AMS Fade
- » SAE J2521
- » SAE J2522
- » ECE R90
- » JASO C406 v2000

If the specification desired is not listed, please get in touch with our team, we can program any test program according to the desired specification.

KEY BENEFITS

- » Plug and play concept: our dynamometers are completely commissioned and sent to the customer as a fully functional system
- » Machine frame resting on special vibration insulators (no seismic concrete foundation required)
- » Flywheel set combined with electrical inertia to simulate the kinetic energy of a moving vehicle
- » HORIBA designed brake actuator for precise brake pressure control



PRODUCT VARIANTS

The Optimum Solution for All Brake Testing Needs

All GIANT Evo brake dynamometers are designed for precise and reliable measurement results. Machine frames resting on vibration isolation prevent vibrational absorption from nearby machines. Additionally, the main drive motor is enclosed by a sound absorbing housing to reduce the machine background noise. The modular design of the GIANT Evo provides the capability to tailor the system to the specific customer needs.

Technical Specifications

		GIANT Evo
POWER	[kW]	220
SPEED RANGE	[rpm]	$\pm 0 - 2\,200$
MAX. DRAG BRAKE TORQUE	[Nm]	2 500
STOP BRAKE TORQUE RANGE	[Nm]	$\pm 0 - 5\,500$
MECHANICAL INERTIA	[kgm ²]	20 + 25 + 55
ELECTRICAL INERTIA SIMULATION RANGE	[kgm ²]	5 - 200 kgm ²
MAX. HYDRAULIC PRESSURE	[bar]	200
MAX. HYDRAULIC PRESSURE GRADIENT (DEPENDENT ON TEST SPECIMEN)	[bar/s]	1 000



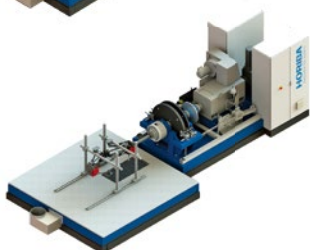
GIANT EVO PERFORMANCE

- » Most compact inertia dynamometer within the GIANT brake dynamometers
- » Designed for basic investigations and performance tests of brake systems
- » Accommodation of caliper-disc test assemblies to upright (knuckle) and wheel bearing assemblies



GIANT EVO UNIVERSAL

- » Designed to accommodate both performance and NVH tests (multi-purpose)
- » Climatic operation from -20 to 50°C
- » Accommodation of caliper-disc test assemblies to complete axle assemblies



GIANT EVO NVH

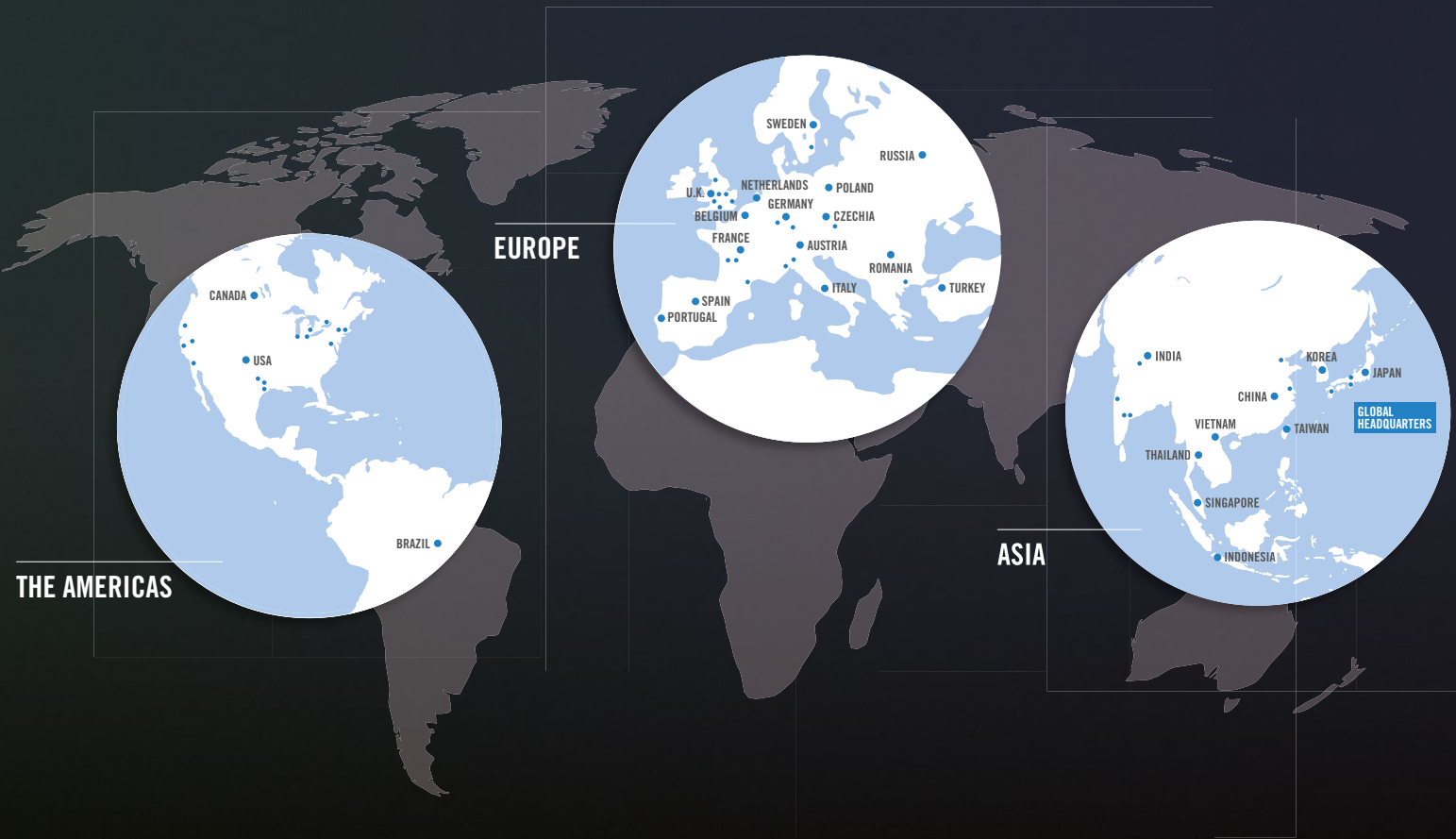
- » Full-size NVH inertia brake dynamometer for basic and advanced NVH testing
- » Two separate machine frames to eliminate background vibrations
- » Noise insulation of the test station with max. interior noise level of 55dB (A)
- » Test station design prepared to meet the GM-TIP requirements
- » Climatic operation from -40 to 50°C

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