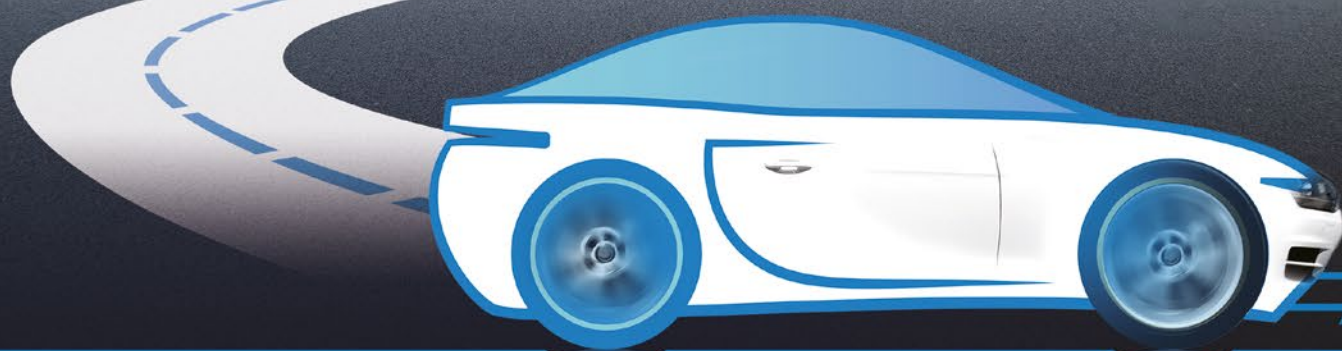


HORIBA
Automotive Test Systems

CHASSIS DYNAMOMETERS
VULCAN



VULCAN

Chassis Dynamometers

The high-precision 48" chassis dynamometer VULCAN series is suitable for testing light-(LDV) and medium-duty vehicles (MDV). It is available as either a two-wheel or a four-wheel drive set-up. This chassis dynamometer simulates a realistic driving profile, which allows data from road tests to be reproduced in the laboratory. Possible applications cover the full vehicle development and certification process, including durability and fuel economy testing, State of Charge (SoC) testing, emission certification and climatic testing.

FEATURES

- » Axle load of up to 3 000 kg (light-duty) and 4 500 kg (medium-duty)
- » Extendable wheelbase for a variety of vehicles
- » Extended temperature range from -40 to 50°C
- » Suitable for current and future drive technologies, including hybrid, battery and fuel cell electric vehicles



SPECIAL APPLICATIONS FOR VEHICLE TESTING

- » Efficiency measurements for electric vehicles
- » GTR15 procedure of vehicle losses for road load determination
- » Durability testing
- » Altitude applications
- » Motorcycle and 3-wheeler tests

KEY BENEFITS



FLEXIBLE

- » Modular concept for different vehicle types
- » Integration of additional devices and systems, e. g. driver's aid
- » Easy software upgrades for latest legislations



EFFICIENT

- » Precise measurements and high repeatability
- » Applications for certification and R&D
- » Fully automatic test with test automation software STARS



SERVICEABLE

- » Automated quality checks and product diagnostics
- » Worldwide service network

TECHNICAL SPECIFICATIONS OF VULCAN SERIES



Chassis Dynamometers for Light-Duty Vehicles

		VULCAN	VULCAN Evo LDV
FORCE PER AXLE (NOMINAL/OVERLOAD)	[N]	5 400 / 9 050	
Options	[N]	6 400 / 12 500	6 400 / 12 500 9 800 / 19 500
POWER PER AXLE (NOMINAL/OVERLOAD)	[kW]	155 / 260	
Options	[kW]	230 / 450	230 / 450 350 / 700
MAXIMUM SPEED	[km/h]	200 (option: 260)	200 (option: 300)
AXLE LOAD	[kg]	2 500	2 500 (option: 3 000)
WHEELBASE	[mm]	1 800 – 3 500 (option: 4 500)	

Chassis Dynamometers for Medium-Duty Vehicles

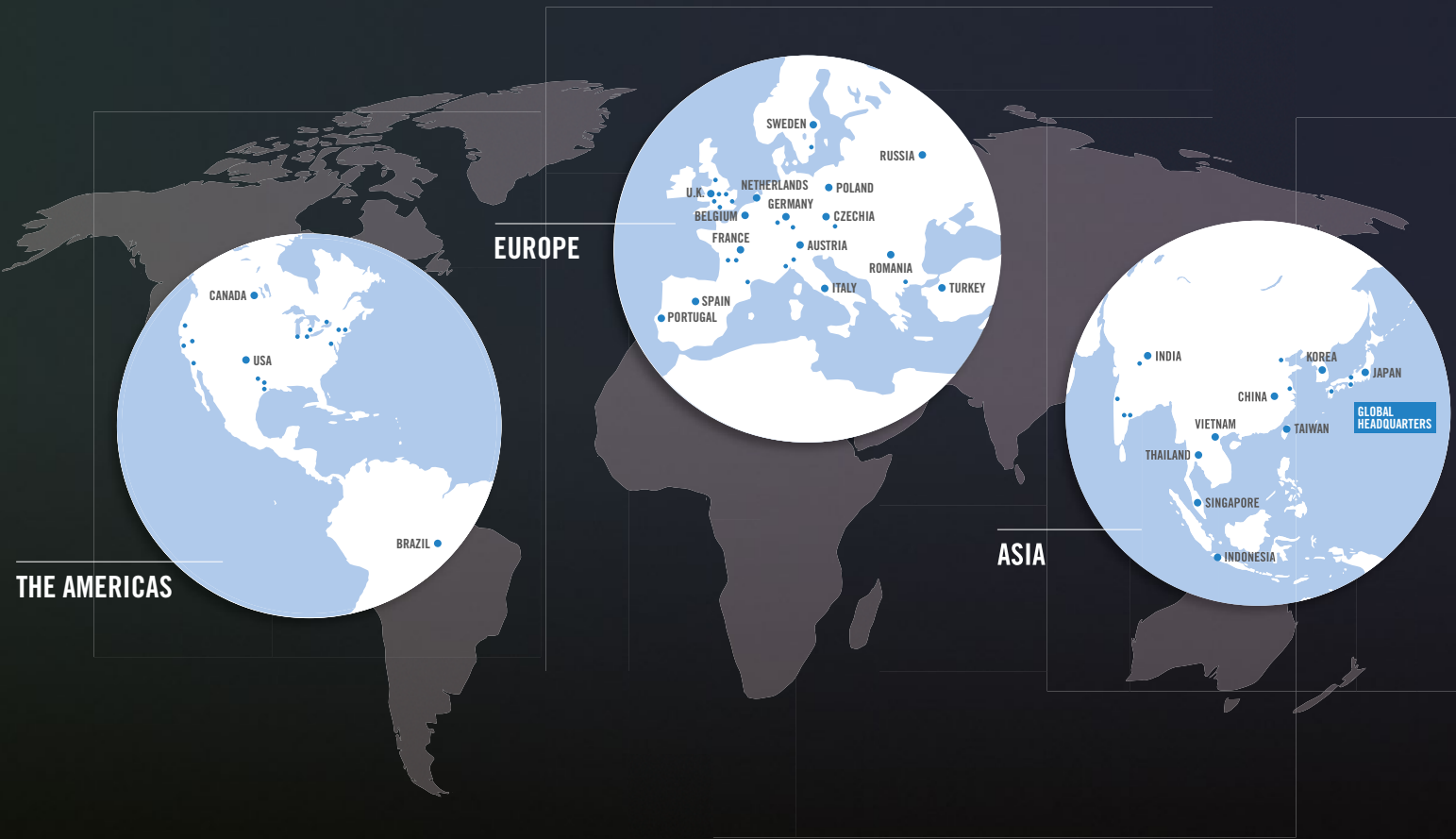
		VULCAN Evo MDV	VULCAN Evo MDV 4x4
FORCE PER AXLE (NOMINAL/OVERLOAD)	[N]	7 200 / 18 000	19 400 / 27 000
Options	[N]	9 800 / 19 500 9 800 / 24 000	
POWER PER AXLE (NOMINAL/OVERLOAD)	[kW]	200 / 500	500 / 700
Options	[kW]	300 / 600 350 / 870	
MAXIMUM SPEED	[km/h]	200 (option: 260)	
AXLE LOAD	[kg]	4 500	
WHEELBASE	[mm]	2 000 – 4 700 (option: 5 900)	

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