

POWERTRAIN ETS

MODULAR ENGINE AND POWERTRAIN TEST PLATFORM

V-MOTECH OFFERS IN THIS TECHNOLOGICAL CONCENTRATE A AN AVANT-GARDE ALTERNATIVE, ALLOWING YOU TO OPTIMIZE YOUR TESTS WITH GREAT FLEXIBILITY AND CONSIDERABLE TIME SAVING.

Innovative in concept, the **POWERTRAIN ETS** combines with other V-Motech solutions to offer a range of tests in a highly controlled environment. It also has many advantages over conventional vehicle tests in **V-Road**:

No immobilization of a prototype vehicle

Testing earlier in the development cycle

Improved engine accessibility

Easy change of parts

TESTING ON VEHICLES:

ALL SIZES AND ALL POWERS :

- Adaptable to all engine sizes
- Ability to withstand high engine power

COMPLEMENTARY CAPABILITIES :

- Ensure the transmission of power
- Store and supply energy
- Check engine operation
- To secure the use

USE OF SPECIFIC OR STANDARDIZED COMPONENTS:

- Cooling system
- Storage & energy supply

ALL TYPES OF ENGINES:

- Thermic
- Hybrid
- Electric

INSTALLATION AND MONITORING :

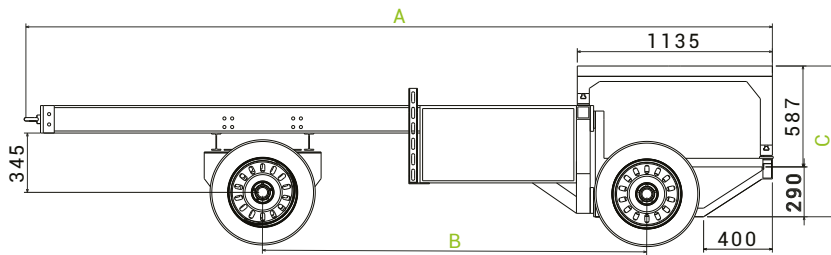
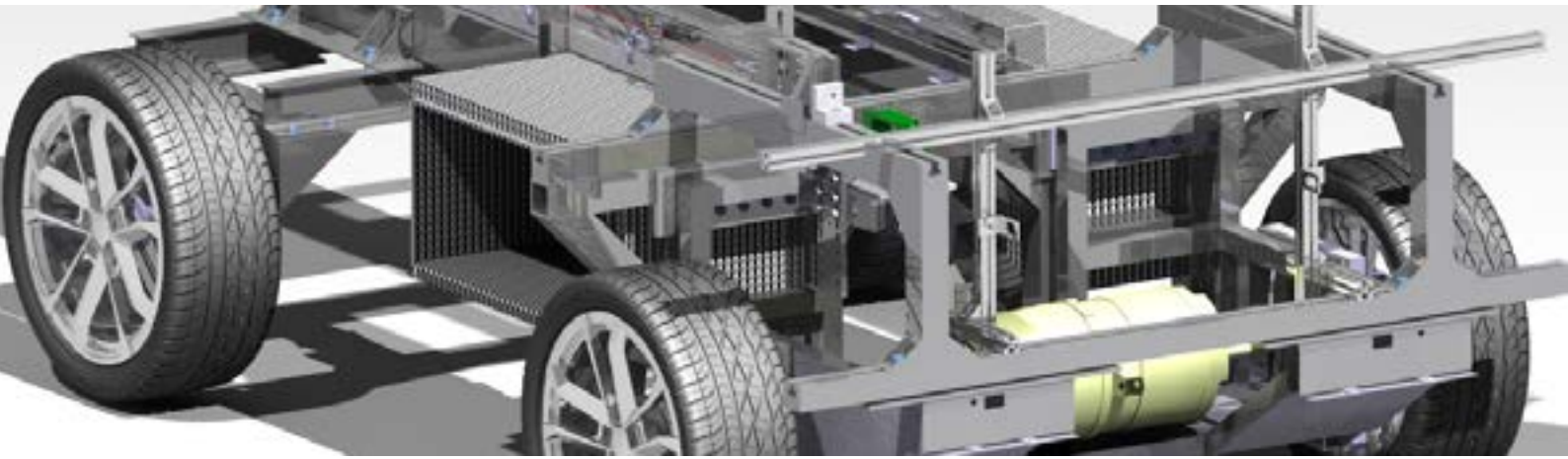
- Simplified transverse motor, gearbox & cardan shaft installation
- Engine clutch control via V-Motech software
- Mechanical gear change

OPERATION :

- Correction of injection, ignition, EGR, turbo settings...
- Turbocharger overrange protection
- Engine overheat protection and injection system
- Correction of regeneration settings particulate filter, NOx trap purge



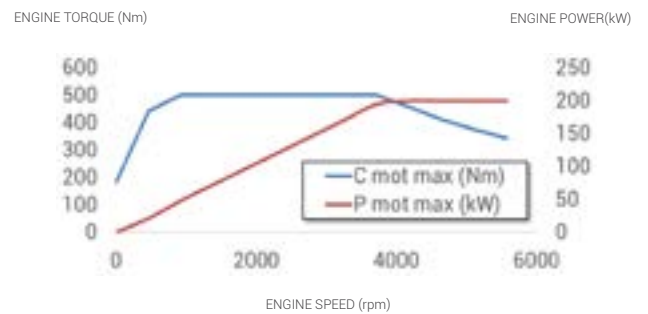
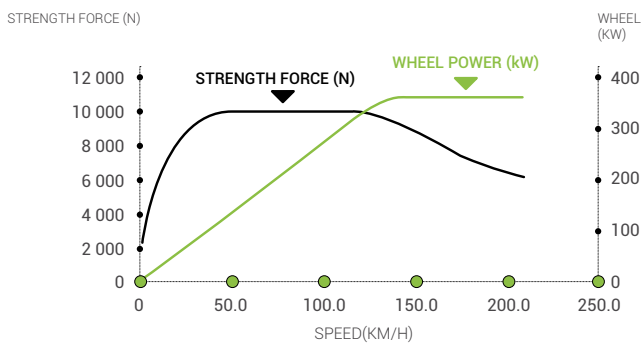
TECHNICAL SPECIFICATIONS



Length (A)	4343 mm
Width	1495 mm
Height (C)	879 mm
Wheelbase (B)	2235 mm
Weight	1500 kg
Maximum engine volume accepted	0,647 m ³
Maximum engine power accepted	200 kW

COMBINATION OF OUR RESOURCES

Operation	V-Motech Solution	Altitude Range	Temperature Range
Powertrain performance and endurance or components. Cold operation (cold start and action in extreme conditions)	POWERTRAIN^{ETS} / V-Road POWERTRAIN^{ETS} / RDEasy	0-2400m in Europe	Soaking from -30°C to +60°C Cooling potential «engine running» depending on the test profile
Systems validation (batteries, energy recovery, transmission, valve EGR, turbocharger,...)	POWERTRAIN^{ETS}		
Calibration of the altitude and temperature correction (current consumption, corrections settings, particle filter regeneration, model correction particle emission, over-rev protection turbocharger)	POWERTRAIN^{ETS}		



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