

Testbed 1

Powertrain and Vehicle



4-Dyno Testbed

This powerful and flexible 4-dyno testbed is designed for heavy-duty components (transmissions, axles and e-axles) and complete vehicles. Conventional, hybrid, electric, fuel-cell powertrains and vehicles can be tested, enabling simulation of real-world operating conditions. Additional reduction transmissions allows max. load/torque application. DC supply is available up to 1,200 kW for electrified components.

TECHNICAL FACTS

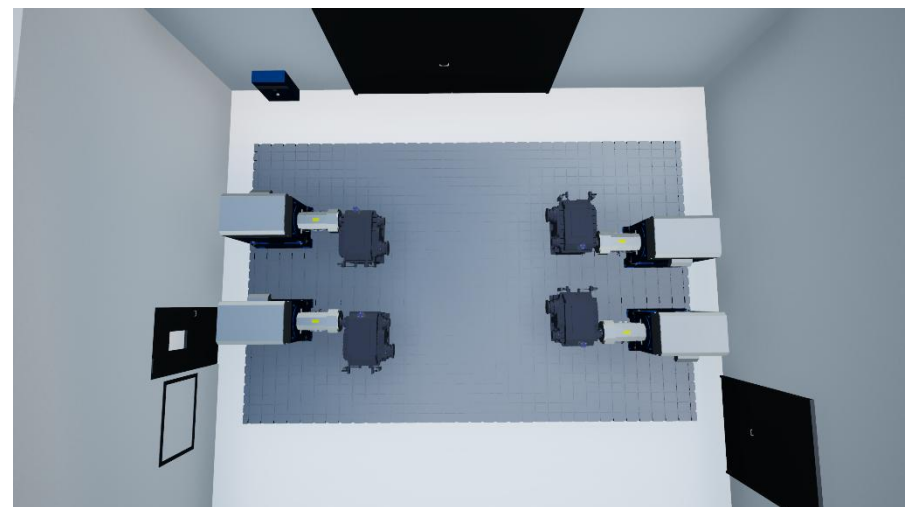
Dynos (4 x) 800 kW
 4,800 rpm
 6,000 Nm

Transmission (optional)

2 x	960 rpm	1:5	30 kNm
2 x	900 rpm	1:53	32 kNm
2 x	180 rpm	1:15	90 kNm

E-Storages 1,200 kW 2,400 A 1,200 V

Hydrogen 1 MW
 100 bar



Testbed 1 and 2

Large Vehicle Testing



4-Dyno Testbed

Testcell 1 and Testcell 2 can be connected to accommodate large vehicles. This ensures that even oversized vehicles up to a length of 14 m can be tested.

TECHNICAL FACTS

Dynos (4 x) 800 kW
 4,800 rpm
 6,000 Nm

Transmission (optional)

2 x	960 rpm	1:5	30 kNm
2 x	900 rpm	1:53	32 kNm
2 x	180 rpm	1:15	90 kNm

Ventilation 350 kW 60,000 m³
 10 – 40 °C Ambient temperature
 Exhaust gas extraction for ICE & FC

Hydrogen 1 MW
 100 bar

