

PRODUCT BRIEF

Propulsion System Test Cell



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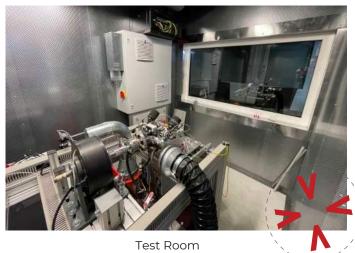
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The VISIONAIR Propulsion System Test Cell is designed to push combustion engines and their ancillaries to their limits. It is not only meant for short performance evaluations, but for long endurance tests with full control over every test cycle of a propulsion package.

The PSTC (propulsion system test cell) has a minimum set of features in its basic variant. It is designed around an ISO-668 container for easy transport and can be deployed at customers premises or where needed at any specific time. Additional options can be choosen from to add testing capabilities or adopt for higher power, therefore providing a modular system for various sizes, propulsion systems and functionalities.



FEATURES

- Separate test and and analysis rooms
- Noise dampening walls
- High precision and calibrateable data aquisition tools
- · Water-cooled brake system
- Siemens PLC
- Exhaust suction system
- Test room cooling system
- Engine/radiator cooling system
- Modular user interface for flexibility
- Automations user-configurable
- Remote control of tests from analysis room
- · test bench rig with slideable brake table
- Internal IP network
- Webcam

MEASUREMENTS

- Standard
 - Power and torque (10kW)
 - **RPM**
 - Various temperatures
 - Airspeed simulation
 - Various voltages
- Optional
 - El. power, electric loads.
 - Fuel Consumption.
 - 20kW or 40kW upgrade (brake).
 - Brake cooling upgrade.
 - Generator-only testing up to 9kW.
 - Acoustic camera.
 - Vibration.







BASIC SYSTEM

The basic variant is designed for engines up to 10kW continuous power. Two additional increments enable for 20kW or 40kW.



Analysis Room

SPECIFICATIONS IN BRIEF

Electrical Power input

LAN RJ45, WIFI
ISO-668 container, L x W x H - 6.06m x 2.44m x 2.6m
3.7 - 4 tons, depening on capabilities
Yes, via el. radiator in analysis room. Yes, via A/C in test room
In connection with test room via A/C
1,000m MSL
Emergency stop; optional CO2 extinguishing system
Ability to include remote experts

230VAC, 16A/32A (64A special version)

