

# Test your equipment in our Performance Center.

## Ultimate performance recording.

Our cutting-edge PBST Performance Center enables customers from the turbomachinery, turbocharger or other thermal machines sectors to put their equipment to the acid test. Our equipment will deliver measurement results at its best. And it goes without saying, that protection of our customers' sensitive data is guaranteed at all times.



➤ PBST Performance Center

### Performance recordings for you

Are you looking for a way to optimize your equipment via detailed performance recording? We are standing by to test your entire turbocharger, turbine or other thermal machine in our cutting-edge Performance Center.

Five burners and two component test rigs are available to be employed for your tests. Our partners can either perform a test by themselves or with the support of our experienced staff. No matter what you choose, we guarantee full confidentiality and data security.

### Facts

- 5x TC test beds for different applications
- 2x component test rigs
- Available floor space: 5,250 m<sup>2</sup>
- Media building: Approx. 800 m<sup>2</sup>
- Comprehensive test recording system
- Measurements performed by experts with calibrated measurement devices
- Profitability verification
- All tests are performed according to applicable rules and regulations
- Protected by NDA, full confidentiality and data security standards

# State-of-the-art technology

Our new PBST Performance Center is equipped with the latest technology to enable our partners to perform numerous series of test runs. Our qualified and experienced staff can offer consultations and support your test run if requested.

## Technical Data

	TC test bed 1	TC test bed 2	TC test bed 3	TC test bed 4	TC test bed 5	Turbine test rig (radial / axial)
Mass flow [kg/s]	0.8 – 20	2.0 – 50	0.1 – 70	0.2 – 6.0	0.1 – 3.0	0.8 – 20
Pressure range [bar]	12	12	7	12	7	12
Power output [kW]	12,500	32,000	45,000	3,600	1,700	12,500
Max. temp. turbine inlet [°C]	up to 800	up to 800	up to 800	up to 800	up to 800	up to 800
Test bed type	1- & 2-stage	1- & 2-stage	1-stage	1- & 2-stage	1-stage	Component
Area per test bed [m2]	~ 97	~ 108	~ 120	~ 65	~ 34	~ 98
Crane capability [t]	10	20	20	3.2	1	5
Air supply	up to 17 kg/s air supply at 11.5 bar available for tests					

	Generated force	Max. acceleration	Max. shock force	Max. load	Table size	Free table moment	Max. frequency
Shaker test rig (hot / cold)	35.6 kN	160 g pk	80 kN	3,000 kg	1,524 x 1,524 mm	900 Hz	2000 Hz

## Performance Center Highlights

- Mass flow [kg/s] up to 70
- Turbine inlet temp. [°C]: < 800
- Noise according to ISO 3744 regulation
- Two slots are available for pre-assembly
- Containment test for full range of equipment
- Compliant with local emission regulations

## Example types of equipment that can be tested:

- Turbochargers
- Gas turbines (shaft power, aircraft & stationary)
- Compressors
- Hot gas expanders
- Turbo-pumps

## Have we piqued your interest?

Guided tours as well as individual project discussions are possible at any time. Please contact us to arrange a mutually convenient appointment. We are ready to meet your expectations.

➤ Visit our web page

