

ATB-50/100/200 Silencer Test Bench



Note: product may differ from image – silencer not included

ATB-50/100/200 Specifications

Hardware units:

Display Unit*:
Processing Unit*:

Printing Unit*:
Acoustic Unit*:

Backpressure Unit*:

(* specifications might change or on request

Software ATB V.4.x:

Guided user interface (GUI) with:

- Calibration and Signal-check module
- Measurement control module
- Analysis modules
- Data-basing
- Plot and printing report
- Data exporting (.txt)
- Sound Power Module

General specifications:

Dimension:
Weight*:
Test diameters *:

Test object length/weight:
Ambient conditions:
Compliance:
Shipping:

TFT 17" KVM or Touch
Intel, 2GB RAM, 250GB HDD
DVD-ROM, Ethernet 100Mb/s
MS-Windows W7
HP Inkjet
Frequency range:
70-2300Hz or 50-1400Hz
Accuracy: ± 1.5 dB (MSE)
200-10mbar; 10-600kg/h;
Accuracy: $\sim 3\%$ (FS)



2000x900x900mm
 ~ 205 kg (total)
 $\varnothing 15-40$ mm (ATB-30)
 $\varnothing 40-70$ mm (ATB-50)
 $\varnothing 70-130$ mm (ATB-100)
 $\varnothing 130-250$ mm (ATB-200)
<4000mm / <50kg
Temp.: 5-40°, Humidity: <90%
CE
assembled turn-key, COD

ATB-50/100/200

What is it for?

The ATB test bench measures the Transmission Loss (TL) and the Backpressure (BP) of complete exhaust and intake systems for 4- and 2-wheeler, like automobiles, trucks, motorcycles, scooters, ATV, UTV and others.

The Acoustic Attenuation vs. Frequency (described by the TL) is an indicator for the acoustic characteristic of the silencer system. The Efficiency and Quality of the silencers sound emission can be measured and evaluated.

The Backpressure vs. massflow gives information about the flow resistance inside the silencer, which is directly related to the pressure loss and the power of combustion engines.

Additional functions like the:

- Sound Power vs. rpm
- Sound Pressure vs. rpm
- Insertion Loss vs. rpm
- Hot flow Backpressure vs. rpm
- Leak flow vs. pressure



offer to the user a wide range of evaluation tools.

The ATB can be used in the Design Process of silencers, as well as for the Quality Control in the Production.

Costs of prototyping and vehicle testing can be significantly reduced by integrating the ATB into the development process.



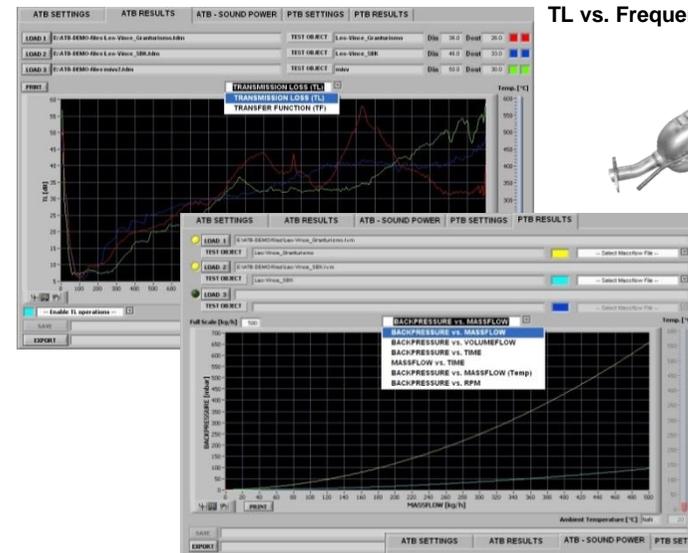
Note: silencer is not part of the product

ATB-50/100/200

How does it work?

Just easy like that: place the silencer on the bench, connect the hosts to the silencer and start the measurement guided by the ATB user GUI software.

“everything is done in few minutes - from set-up to display of the result”



TL vs. Frequency



Back Pressure vs. Massflow vs. Volume flow, Hot Back Pressure vs. RPM

Sound Power, Sound Level, Insertion Loss

