

THE ADVANTAGES AT A GLANCE

- ▶ Low space requirements and easy commissioning
- ▶ Easy and precise turbocharger installation with the TM-A adapter system®
- ▶ Very short setup and measurement time
- ▶ Calibration of the turbocharger during the measurement run
- ▶ Comprehensive scope of delivery with an adapter and connection set for 95 % of commonly used turbocharger types
- ▶ More than 1,000 turbocharger references on board
- ▶ Regular software updates for new turbocharger types
- ▶ Creating own references possible

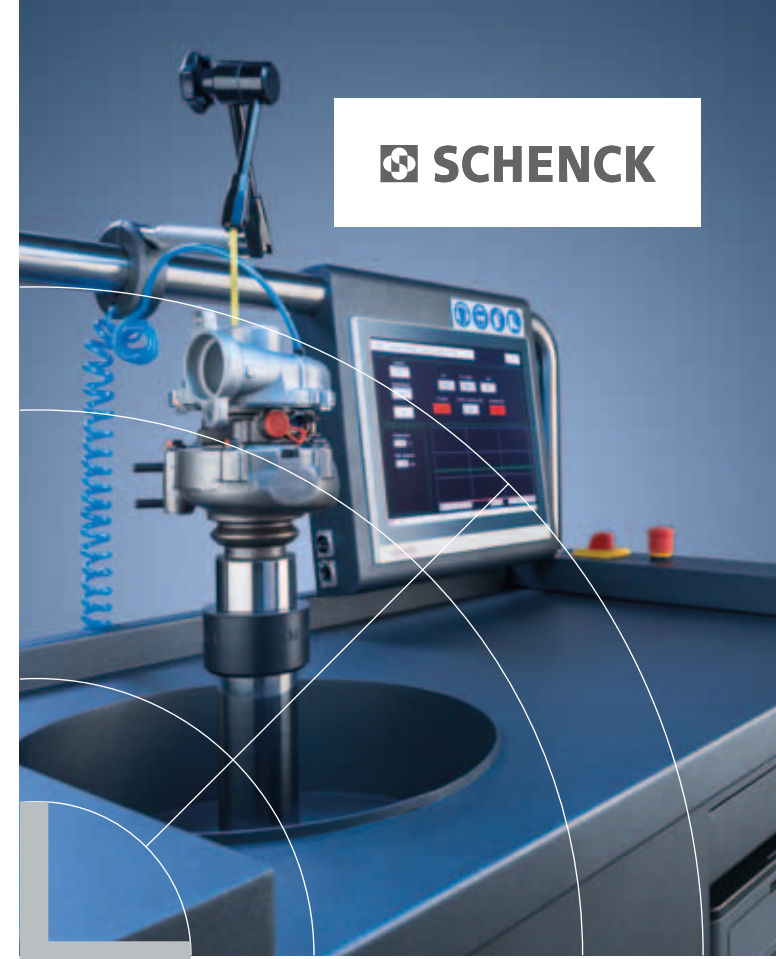
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VISCOM[®]
AUTOMOTIVE GMBH

FLOW BENCH

Testing and calibrating turbochargers
with variable turbine geometry

RT1085e

Passion for Balancing

RT1085e + 05.1119 + 29.april + pr.by SSM + All specifications are given without commitment. Subject to amendment.



Easy to handle, precise results

With the VISCOM Flow Bench, reconditioned VNT/VTG turbochargers can be calibrated with precision easily and quickly in just minutes to reliably meet their manufacturer's specifications. The test is quick and straightforward: Simply secure the turbocharger to the machine with the appropriate adapter. This is a quick and easy installation process that requires no tools thanks to the magnetic adapter. Next, hold the turbocharger on the compressor wheel side to prevent it from turning inadvertently and connect the pneumatic or electric boost pressure actuator. After entering the turbocharger model on the touchscreen, the measurement run is started. The measurement is complete within seconds and confirmation of meeting the manufacturer's tolerance is clearly displayed. If outside the tolerance, the turbocharger can be recalibrated without removal – and can be done conveniently during the measurement run.

Quick and easy VNT/VTG turbocharger calibration

Many repair technicians know this problem: A used turbocharger is reconditioned with genuine parts, then balanced with the highest possible accuracy - first with the TBcomfort and then the TBsonio, and immediately following the installation - comes the first error message: Either the boost pressure is too high or too low, the motor has no power, or it even switches to the emergency program. These errors frequently appear in reconditioned turbochargers when they are installed without calibrating the variable turbine geometry. In most cases, this is due to exceeding permissible tolerances that lead to engine malfunction. Resolving the issue is time consuming and costly: Disassembly, recalibration, and reshipping to the customer can quickly increase costs and reduce profit.



Simple adaptation to different electric boost pressure actuators

TM-A adapter system for fast turbocharger assembly



Basic, Comfort, Premium – three variations suitable for any needs

The VISCOM Flow Bench variants offer different equipment packages that are tailored to the users' needs. What they have in common is an extensive basic equipment package with touchscreen, VISCOM measurement software, TM-A adapter system suitable for about 95 % of all commonly used turbochargers, and the required flow measurement system.