

# VSR Mk3 Turbocharger Core Balancing Machine

by **TURBO  
TECHNICS**

Touch-screen  
computer interface

Guide Capacity 1 – 20  
units per 8hr shift

Max Turbine Wheel  
Diameter 70mm (2 3/4")

Test speeds to  
250,000rpm

Safety cabinet with  
protective locking

Quick changeover  
between turbo  
models

Simple Installation

12-month parts  
warranty



YOUR NEAREST DISTRIBUTOR

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# VSR Mk3 Turbocharger Core Balancing Machine

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The Turbo Technics VSR Mk3 has been designed with the small to medium-sized workshop in mind and has the capacity to balance around 20 Centre Housing Rotating Assemblies (CHRAs) during a typical eight-hour shift. Although being the entry-level balancing machine, the VSR Mk3 has the same speed and phase measuring capability as the VSR Mk4P and as such achieves an overall system accuracy of  $\pm 2\%$ .

The VSR Mk3 is used in conjunction with Turbo Technics' standard range of slave turbine housings, which allows any turbo up to a maximum turbine wheel diameter of 70mm (2 3/4") to be balanced.

During each run, the operator retains total control of the speed of the core by means of a hand-operated air valve. However, the design of the air system is such that the core cannot exceed its safe operating speed, irrespective of the turbo model under test. Throughout the test, the level of vibration is displayed against rotational speed in real-time. After each run, the operator positions a cursor on the touch-screen to display the balancing position at critical speeds.

At the end of each test, the CHRA is removed from the machine to make the balancing cut. After the cut has been made, the CHRA is re-fitted to the machine and the process repeated until such time as the CHRA achieves the desired vibration limits. At the completion of the balancing process, excess oil can be purged from the CHRA.

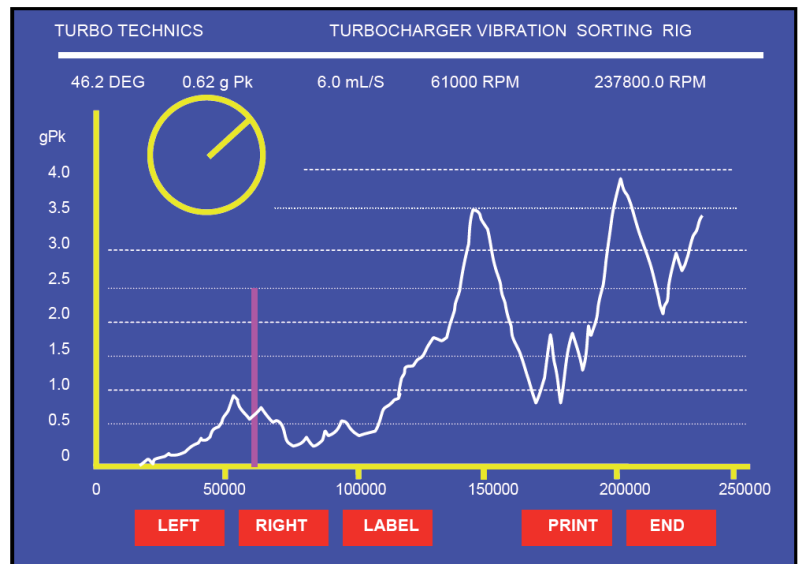
Once the core has been successfully balanced, the data is stored on a USB memory stick against the turbocharger part number / serial number. The resulting graph may also be printed to a HP Windows printer.

The VSR Mk3 has been designed with a quick change mechanism so that changeover between turbo models should take no more than around 30 seconds.

Further details on the VSR Mk3 including a full technical specification can be obtained from Turbo Technics or its authorised distributors.

The VSR Mk3 incorporates the following features:

- Touch-screen computer interface
- Guide Capacity 1 – 20 units per 8hr shift
- Max Turbine Wheel Diameter 70mm (2 3/4")
- Test speeds to 250,000rpm
- Safety cabinet with protective locking
- Quick changeover between turbo models
- Simple Installation
- 12-month parts warranty



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