# VSR Mk4P Turbocharger Core Balancing Machine by TURBO TECHNICS

**Touch-screen computer interface**

**Guide Capacity 20 – 40 units per 8hr shift**

**Max Turbine Wheel Diameter 70mm (2 3/4”) Option for 85mm (3 1/3”)**

**Test speeds to 250,000rpm**

**Safety cabinet with protective locking**

**Quick changeover between turbo models**

**Low operating noise level**

**Simple Installation**

**12-month parts warranty**

YOUR NEAREST DISTRIBUTOR

TURBO TECHNICS

2 Sketty Close, Brackmills, Northampton NN4 7PL UK
Tel +44 (0) 1604 705050 Fax +44 (0) 1604769668
email. enquires@turbotechnics.com www.turbotechnics.com

# VSR Mk4P Turbocharger Core Balancing Machine by TURBO TECHNICS

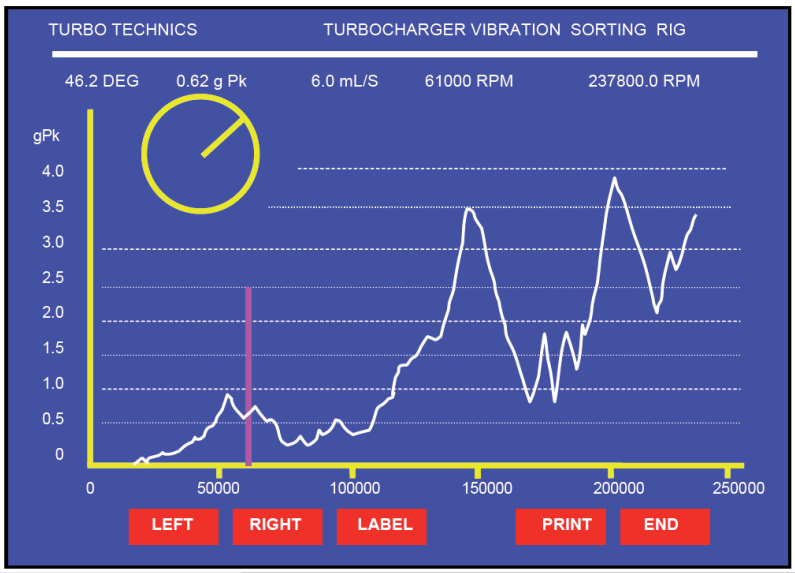
The Turbo Technics VSR Mk4P has been designed with the medium-to-large sized workshop in mind and has the capacity to balance up to 40 Centre Housing Rotating Assemblies (CHRAs) during a typical 8 hour shift. With a similar speed and phase measuring capability as the VSR Mk3, the primary benefit of the VSR Mk4P is the ability to carry out the balancing cuts in-situ without the need to remove the CHRA from the machine.

Consequently, the cycle time between tests is significantly reduced thus minimising the time taken to balance each core. This is only possible because the VSR Mk4P uses an oil system with comprehensive 5-stage filtration to remove the swarf generated during each balancing cut. This high level of filtration is essential to maintain the integrity of the bearings during each test. Even the smallest particle of swarf re-entering the core in the lubricating oil, would rapidly compromise the core's bearings.

As with the VSR Mk3, the operator retains total control of the speed of the CHRA throughout the test by means of a hand-operated air valve. As the test progresses the vibration level is displayed in real-time against the rotational speed. After each run, the operator locates any imbalance by positioning a cursor on the touch-screen display and reading the position from the clock-face on the display.

A hand-rest automatically moves in to position to assist the operator to make the balancing cut. This is made on the nose nut, using the integrated air cutter controlled by means of a foot switch. The test is repeated until the desired vibration limits are achieved. At the completion of the balancing process, excess oil is purged automatically from the CHRA

The VSR Mk4P can be configured to use either the Turbo Technics' standard range of slave turbine housings (as used with the VSR Mk3), or the long-throat range of slave turbine housings, which allows any turbo up to a maximum turbine wheel diameter of 85mm (3 1/3") to be balanced. It is not possible to switch between the 2 ranges of housings on the same machine.




Further details on the VSR Mk4P including a full technical specification can be obtained from Turbo Technics or its authorised distributors.

The VSR Mk4P incorporates the following features:

- Touch-screen computer interface
- Guide Capacity 20 – 40 units per 8hr shift
- Max Turbine Wheel Diameter 70mm (2 3/4") Option for 85mm (3 1/3")
- Test speeds to 250,000rpm
- Safety cabinet with protective locking
- Quick changeover between turbo models
- Low operating noise level
- Simple Installation
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