

Varian, Inc.
Vacuum Technologies



Vacuum Tools for Coating System Productivity

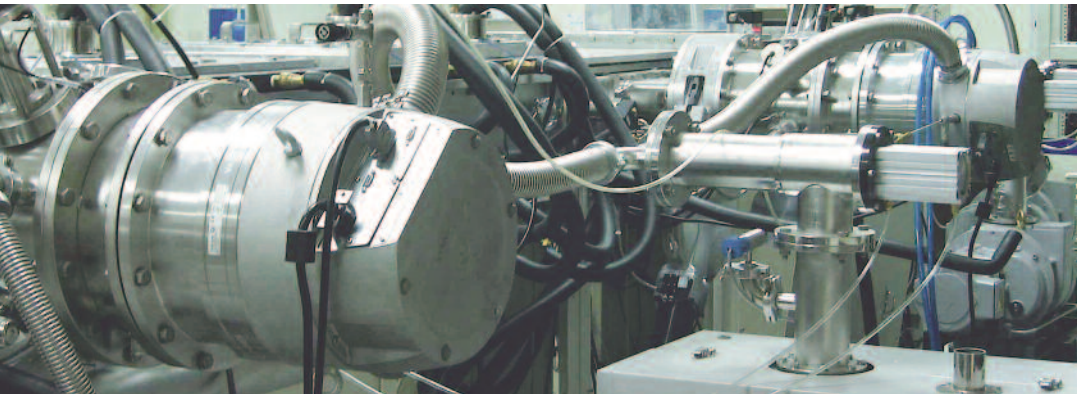


Inspiring Excellence

NOTICE: This document contains references to Varian. Please note that Varian, Inc. is now part of Agilent Technologies. For more information, go to www.agilent.com/chem.

 **Agilent Technologies**

Vacuum Tools for Coating System Productivity



We at Varian understand the demands of large area vacuum coating systems. We provide the vacuum equipment you need for reliable, energy efficient operations. Our innovative solutions include:

- **Turbo-V K-G Pump Systems** – high-performance, highly-reliable, and designed specifically for large area coating applications
- **MoniTorr/Remote Assist Software** – connectivity to Varian Support Engineers to monitor *and* keep you apprised of the operation of your Turbo-V K-G pumps – no matter where you are in the world
- **VS Series Leak Detectors** – intelligent and easy to use, and if you need to leak check over a distance, the portability of wireless remote control to help you keep your system up and running and leak free

Turbo-V K-G Series Pump Systems

The only truly integrated high vacuum pump system available, the Turbo-V K-G Series high performance turbo system delivers enhanced performance and efficiency for high throughput applications and features a robust mechanical design suitable for heavy duty industrial environments.

- Highest pumping speed in its class: 2200 l/s for Nitrogen
- Throughput: over 1450 sccm for Nitrogen
- Ramp up time < 6 mins
- Maintenance-free with no oil refill
- Unlimited cycle life
- MTTF > 200,000 hrs
- On-board power supply
- Diagnostics and electronic interface
- Optimized power consumption and management system with active stop
- Very compact, high performance rotor design for PVD applications
- Profibus®, serial interface or remote I/O provide communication between the pump and system controls enabling operation via a PC using T-Plus Software.



Turbo-V 3 K-G
with MoniTorr
Controller

Turbo-V 2 K-G
with MoniTorr
Controller

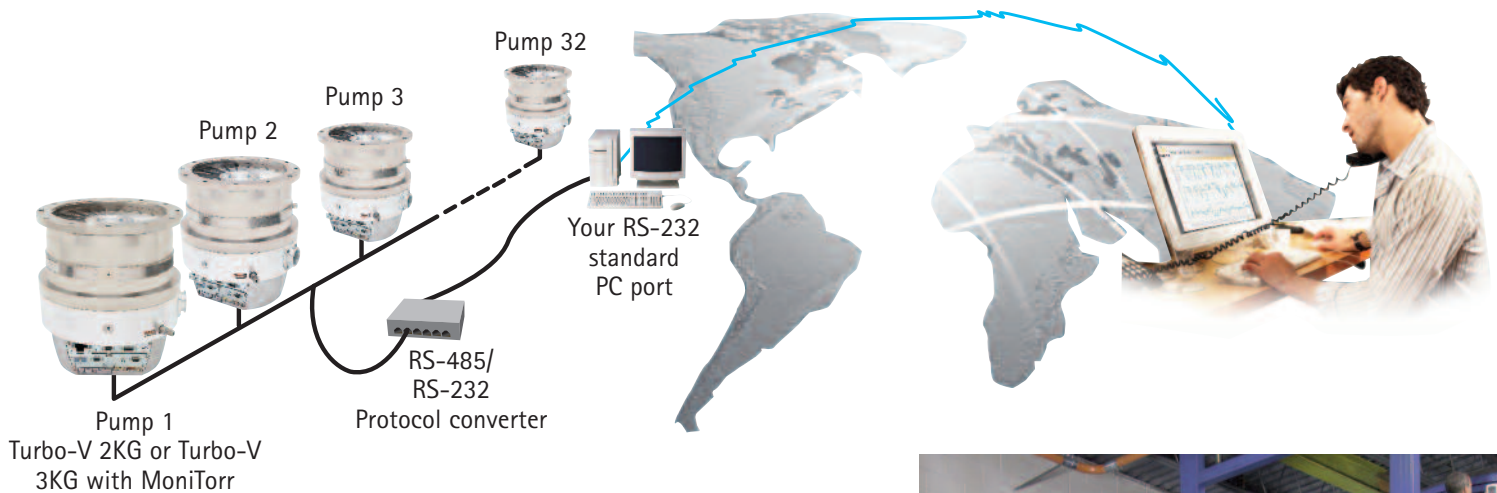


MoniTorr with Remote Assist

MoniTorr is a unique, remote diagnostic system that makes it possible for our technicians to monitor your vacuum system from our location so that you don't need to. MoniTorr is integrated into the pump's controller and continuously monitors all its key functions.

In conjunction with MoniTorr, we offer Remote Assist which is dedicated priority technical support and extended warranty featuring Varian's Advanced Exchange Program, the most comprehensive service offering for turbo pumps in the vacuum industry.

- Integrated MoniTorr card (optional) allows 24/7 monitoring of all pump parameters
- MoniTorr Software Package collects all data
- Allows remote virtual presence of Varian Support Engineers at the user site



VS Series Leak Detectors

VS Series Leak Detectors maximize your productivity and system up-time with the simplicity of two-button operation combined with advanced system intelligence. Robust design allows the VS Series to conform to rigorous industrial standards and operate dependably in the most challenging environments.

VS Wireless Remote Control/Display

Leak testing hard to reach locations is now possible up to 100 meters away. Applications in large systems in which two technicians were previously required now are performed by one, thereby reducing labor costs.

Because the wireless remote has a display and all the key buttons necessary to leak check, all major functions of the leak detector are at your fingertips – even when you are a distance from the instrument. The VS Series Wireless Remote provides truly portable leak detection solution.



VS Series leak detector and Wireless Remote in use at Carbon Composites, Inc.

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