

Vertus

Shake and Fire for pMDIs

Product Profile

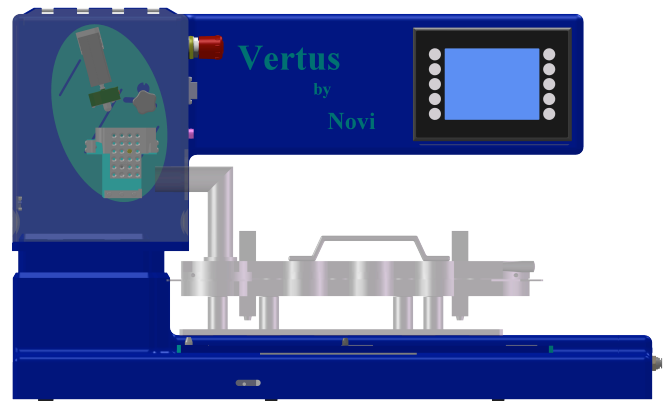
Flexible bench top automation

Vertus is a pMDI shake and fire system designed for everyday use on a lab bench. It combines precisely controlled and repeatable operation with the flexibility to perform any industry standard pMDI shake and fire test method.

Convenient and intuitive

Vertus offers comprehensive features to perform regulatory-approved test methods.

- Multiple inhaler test devices are supported. These include the **NGI, Andersen Cascade Impactor (ACI), DUSA** and Novi's **Waste Shot Collector (WaSC)**. Vertus can also be configured to support custom devices.
- **Shaking** is performed using closed loop control, which assures that the required motion is achieved. It is precisely controlled, completely configurable and repeatable.
- **Firing** can be configured to apply up to three distinct forces per actuation. These are typically used to set forces that detect, insert and fire the canister.
- **Data collection** records the key parameters during each test. Results can be stored locally, to a USB device or to a Local Area Network (LAN).
- **Touchscreen Display**. Test methods are programmed using an intuitive touchscreen display. Once approved and saved, each method can be recalled.
- The inhaler is securely clipped into a saddle, which in turn is clipped onto the Vertus. This allows most styles of inhaler* to be supported without the need to remove the canister from the inhaler.
- Safety standards are complied with: moving parts are enclosed in a transparent screen and a large emergency stop is located on the front.



Optional Features

The optional features provide additional convenience and further functions to measure and record regulatory-approved test methods as required by a particular application.

- **Internal airflow generation with automatic control and measurement** so that external equipment does not have to be separately purchased, configured and calibrated. (Patent pending.)
- **Automatic leak test** to measure the integrity of the test equipment (e.g. ACI).
- **Monitor and record temperature and RH.**
- **ER/ES compliance.** Electronic Records / Electronic Signatures functionality to use as a basis for obtaining ER/ES regulatory approval.
- **LIMS link** so that results can be stored directly to a central information management system.

* All inhaler types tested to date are supported. Compatibility with inhaler designs can be assessed prior to purchase on request.