

virto
CUCCOLINI

HIGH QUALITY SCREENING FOR PHARMACEUTICAL POWDERS

CIRCULAR VIBRATING SIEVES

virto
ScreenX **CUCCOLINI**



WHAT ARE THE CUCCOLINI VIBRATING SIEVES?

With more than 50,000 sieves and tumblers produced across 70 years for over 65 different industries exported to 75 countries, Virto Group's Cuccolini line of screeners is one of the most popular industrial separator brands in the world. The Cuccolini equipment is able to screen powders and also strain liquids for particle sizes ranging between 20 mm to 25 µm across industries including food, pharma, chemical, recycling, aggregates, fertilizers, and many more. Due to this versatility and Virto Group's "solution sale" approach our screening equipment has been constantly innovated to meet the specific needs of customers across multiple industries.

WHAT ARE THE CUCCOLINI PRODUCT LINES?

The Cuccolini machines can be used for classification, scalping, safety screening, de-dusting, de-watering, de-sliming and solid/liquid separation. Virto Group splits the Cuccolini products in to two categories:

1. Cuccolini Circular Screeners For Powders:

- ▶ **Cuccolini Vibrating Sieves** (diameter ranging from 450 mm to 2,000 mm with up to three decks): There are five specialised lines of sieves for powders designed and built with one or more of the following features: high capacity, safety screening, low headroom, mobility, high polish finish for pharma, food, ATEX and FDA requirements. The sieve types are the VPB, VPM, VP2, VPF and VPF 2.
- ▶ **Cuccolini Tumbler:** This has a diameter ranging from 900 mm to 2,400 mm and is offered with up to six decks, including 5 meshes.

2. Cuccolini Circular Screeners For Liquids

(diameter ranging from 800 mm to 2,000 mm): There are two specialised lines of sieves for liquids built for dewatering solids, straining slurries and general solid/liquid separation. If required these can be offered as FDA compliant. They are the VLB and the VLM models.

WHY IS CUCCOLINI'S SCREENING EQUIPMENT DIFFERENT?

The Cuccolini line of sieves and separators include circular, multi-deck single frequency vibrating sieves for powders and liquids and a multi-deck tumbler line for powders. These products are differentiated from their competitors by:

- ▶ **Diverse Product Range With 10,000 Case Studies** – Virto's Cuccolini machines screen particle sizes between 20 mm to 25 µm across all major industries.
- ▶ **Product Guarantee** – Money back guarantee that the equipment will deliver what was promised.
- ▶ **24 Month Warranty** – 2 year warranty covering any form of equipment failure, perishable parts excluded.
- ▶ **Flexible Design** – Each of Virto's Cuccolini products can be tailored to a bespoke design that is modified to specifically suit customer requirements.
- ▶ **Built To GMP Standards, FDA and ATEX Compliant.**
- ▶ **Cost Effective, Proven and Reliable.**

THE VPF SIEVE

The VPF model was specifically designed to meet the high standards and specific criteria required for the screening of pharmaceutical applications. These sieves are manufactured in 316 grade stainless steel with a high mirror-polish finish on internal surfaces as standard. The centre-mounted motor can be supplied with a stainless steel cover and comes with a control panel rated to IP 65. These units are mounted on a stainless steel trolley with height adjustment and the sieve deck is secured with quick-release clamps.

SIZES AND CONFIGURATION: The VPF model is offered in two sizes with a diameter of 500 mm (VPF 500 1X) and 800 mm (VPF 800 1X) in single deck configuration.

WHAT ARE THE USES OF THE VPF SIEVE? The VPF is dedicated to meeting the strict criteria of the pharmaceutical industry which typically requires a high containment, crevice free, straight through design. The VPF sieve is built to GMP standards and is the perfect sieving solution for processing dosage formulations before a tablet press, for capsule filling or sachet packaging.



THE VPF2 SIEVE

The VPF2 model is a “low profile” screener specifically designed and built for the safety screening of pharmaceutical powders. This unit features a central inlet and a central outlet, twin motors (one motor on each side of the base of the machine) and a “pharmaceutical standard” high mirror-polish finish.

SIZES AND CONFIGURATION: The VPF2 line is available in two diameters, 500 mm (VPF2 500 1X) and 800 mm (VPF2 800 1X) in single deck configuration.

WHAT ARE THE USES OF THE VPF2? The VPF2 vibrating sieves are used as safety screens for maximizing product control. Typical environments where they are employed include pharmaceutical powder screening lines and, more generally, powder conveyor lines.



WHAT ARE THE BENEFITS OF THE VPF AND THE VPF2?

- ▶ Specifically designed and manufactured for a crevice free mirror-polish stainless steel finish.
- ▶ FDA approved.
- ▶ ATEX certified.
- ▶ 2 year warranty (perishable items not included).
- ▶ Available with WIP and WET systems.

DESIGN CHARACTERISTICS OF THE VPF AND THE VPF2 LINE

- ▶ Easy to clean, install and disassemble.
- ▶ Central inlet and a central outlet with twin motors for the VPF2.
- ▶ Control box rated to IP 65.
- ▶ Compact design.
- ▶ Manufactured in 316L grade stainless steel contact parts.
- ▶ Pharmaceutical high mirror-polish finish.
- ▶ Certified pharmaceutical-grade silicone gaskets.
- ▶ Optional: Motor cover in stainless steel.

Technical Characteristics	VPF 500	VPF 800	VPF2 500	VPF2 800
Electrical power (kW)	0.3	0.73	0.16 + 0.16	0.16 + 0.16
Centrifugal force (kg)	400	680	440	440
Number of Meshes	1 - 3	1 - 3	1 - 2	1 - 2
Mesh surface (m ²)	0.22	0.36	0.22	0.36

ACCESSORIES

Virto Group offers a wide range of product variations and accessories to meet the requirements of customers.

▶ **Mesh cleaning systems**

These include mechanical cleaning using balls for powders, ultrasonic de-blinding systems and wash in place systems (WIP) with nozzles.

▶ **Lid covers**

These vary according to the different diameter for the inlet, inspection ports and valves/spigots.

▶ **Stainless steel base**

If required, a stainless steel base can be added.

▶ **Quick release band clamps**

Available for safe, effective and quick fixing of decks to the machine base.

▶ **Mobile trolley**

All equipment can be mounted on wheels or a trolley.

▶ **AISI 316 stainless steel manufacturing**

Virto Group specialises in making FDA and ATEX compliant AISI 316 stainless steel screeners for the food and pharmaceutical industries and provides the same machines for many other sectors.



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