

virto
CUCCOLINI

SCREENING LIQUIDS FOR 70 YEARS

CIRCULAR VIBRATING SIEVES FOR LIQUIDS

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 VLM SIEVE

The VLM line is a circular screener typically used for the separation of materials contained in liquids; used for de-watering, slurry processing, waste oil filtration, waste water processing or liquid solid separation. The units can operate with material with a temperature of up to 200°C. The VLM line is very similar to the VLB line but the VLM has a sloped bottom in order to achieve greater capacity. Like the VLB model, the weights can be adjusted to allow the material to remain on the mesh for longer for a more efficient screening. The motor operates at 1,500 rpm to optimise separation and constantly self-clean the mesh. This design minimises down time for cleaning and thereby maximises productivity. Reliability and high quality are the main characteristics for this line. The smaller units, VLM 900 and VLM 1200, are offered with 1, 2, or 3 decks that can be fitted with mesh cleaning systems (such as balls or sliders) to de-blind and thereby increase screening efficiency.

Technical Characteristics	VLM 900	VLM 1200	VLM 1500	VLM 2000
Electrical power (kW)	0.73	1.25	1.5	4.5
Centrifugal force (kg)	850	1,750	2,150	6,000
Number of meshes	1 - 3	1 - 3	1 - 3	1 - 3
Mesh surface (m ²)	0.587	0.932	0.575	2.6

DESIGN CHARACTERISTICS

- ▶ Higher sieve deck to prevent liquids from splashing.
- ▶ Contact parts in AISI 304 or 316 stainless steel.
- ▶ Fixed base, with option to mount on wheels.
- ▶ 1500 rpm standard off the shelf motor.
- ▶ Mesh cleaning system (optional).



SIZES AND CONFIGURATION:

The VLM line is available in four diameters of 900 mm, 1,200 mm, 1,500 mm and 2,000 mm - all in multiple deck configurations. The machine lines are VLM 900, VLM 1200, VLM 1500, VLM 2000.

Add 1X, 2X or 3X to the above model number to nominate the number of decks required.

WHAT ARE THE USES OF THE VLM?

The VLM models are used for screening particles in liquids, dewatering solids, straining slurries and liquid-solid separation at higher capacities.

WHAT ARE THE BENEFITS OF THE VLM?

- ▶ Designed for highly efficient straining and filtration.
- ▶ Multiple deck separation.
- ▶ Versatile in its application to all process lines for all major industries.
- ▶ Manufactured in stainless steel.
- ▶ FDA approved seals and gaskets.
- ▶ 2 year warranty (perishable items not included).
- ▶ Higher capacity than the VLB line.

THE VLB SIEVE

The VLB model is part of the Cuccolini line of circular vibrating sieves, typically used for the straining and filtering of materials in a slurry, wash water, for dewatering solids and/or for liquid solid separation. With over 20 years of constant development in design and manufacturing this model offers the industry's most cost effective, user friendly and reliable straining and filtration solution for almost all major wet applications. Users can adjust the time the material stays on the mesh with the adjustable weights whilst its 1,500 rpm motor has been designed to optimise vibration so that it constantly self-cleans the mesh. This design approach minimises down time for cleaning and thereby maximises productivity. The VLB line comes with one, two or three decks, enabling separation of particles at multiple cut points.

SIZES AND CONFIGURATION:

The VLB model is available in four different diameters of 800 mm, 900 mm, 1,200 mm and 1,500 mm, with up to three decks. The machine line are VLB 800, VLB 900, VLB 1200, VLB 1500.

Add 1X, 2X or 3X to the above model number to nominate the number of decks required.

WHAT ARE THE USES OF THE VLB?

The VLB models are used for screening particles in liquids, for dewatering solids, straining slurries and liquid-solid separation.

WHAT ARE THE BENEFITS OF THE VLB?

- ▶ Designed for highly efficient straining and filtration.
- ▶ Multiple deck separation.
- ▶ Versatile in its application to all process lines for all major industries.
- ▶ Manufactured in stainless steel.
- ▶ FDA approved seals and gaskets.
- ▶ 2 year warranty (perishable items not included).

Technical Characteristics	VLB 800	VLB 900	VLB 1200	VLB 1500
Electrical power (kW)	0.73	0.73	1.25	1.5
Centrifugal force (kg)	580	720	1,300	2,150
Number of meshes	1 - 3	1 - 3	1 - 3	1 - 3
Mesh surface (m ²)	0.36	0.587	0.932	1.575

DESIGN CHARACTERISTICS

- ▶ Higher sieve deck to prevent liquids from splashing.
- ▶ Contact parts in AISI 304 or 316 stainless steel.
- ▶ Fixed base, with option to mount on wheels.
- ▶ 1500 rpm standard off the shelf motor.
- ▶ Mesh cleaning system (optional).



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 and sliders and wash in place systems with spray 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.

▶ **Deflector**

A deflector at the inlet can be offered to ensure material is deposited evenly over the mesh. This helps to increase the life of the mesh.

▶ **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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