



DP Pulveriser[®]
since 1962



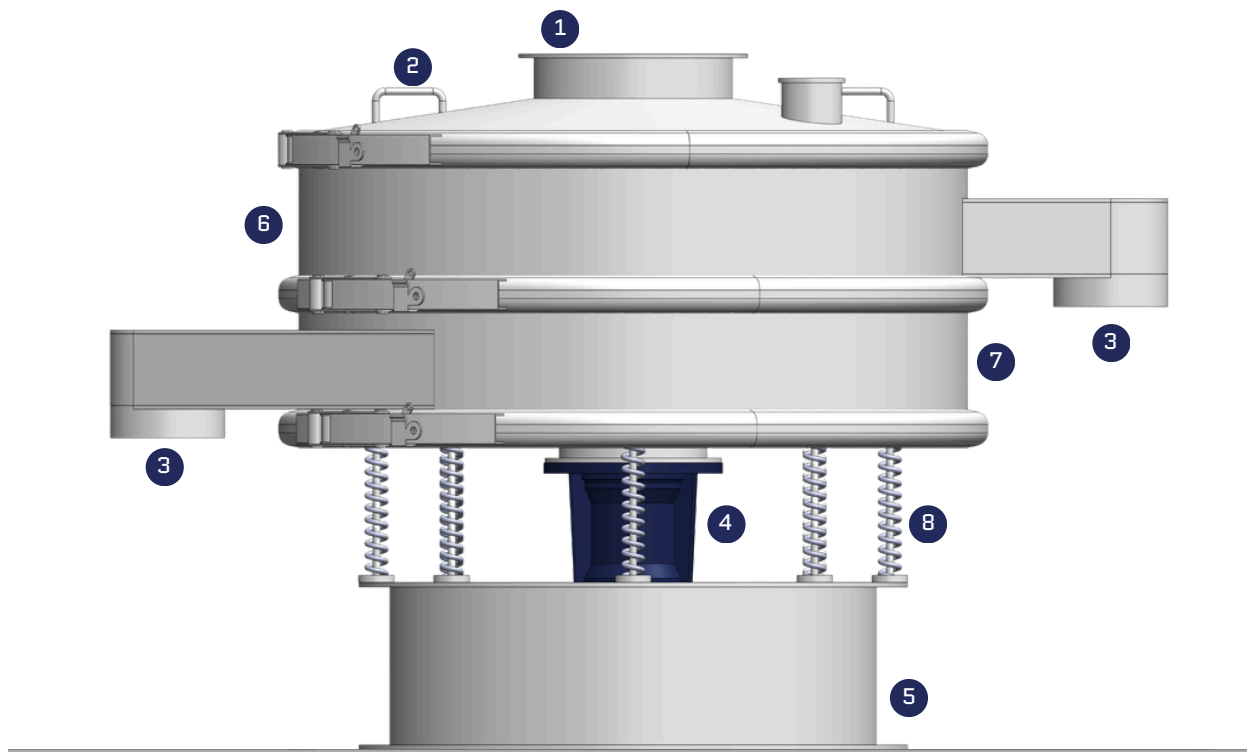
DP® VIBRO Sifter

Sizing & Air Classification

Introduction

The DP® Vibro Sifter is designed for efficient screening, grading, and separation of powders and granules using high-frequency vibratory motion. It ensures accurate particle size separation, consistent product quality, and high throughput across a wide range of applications. Its compact, hygienic, and easy-to-clean design makes it suitable for food, chemical, pharmaceutical, and mineral processing industries.

- 1 Feed Inlet
- 2 DP® VIBRO Sifter
- 3 Material Discharge
- 4 Vibratory Motor
- 5 Base
- 6 Upper Deck
- 7 Lower Deck
- 8 Spring



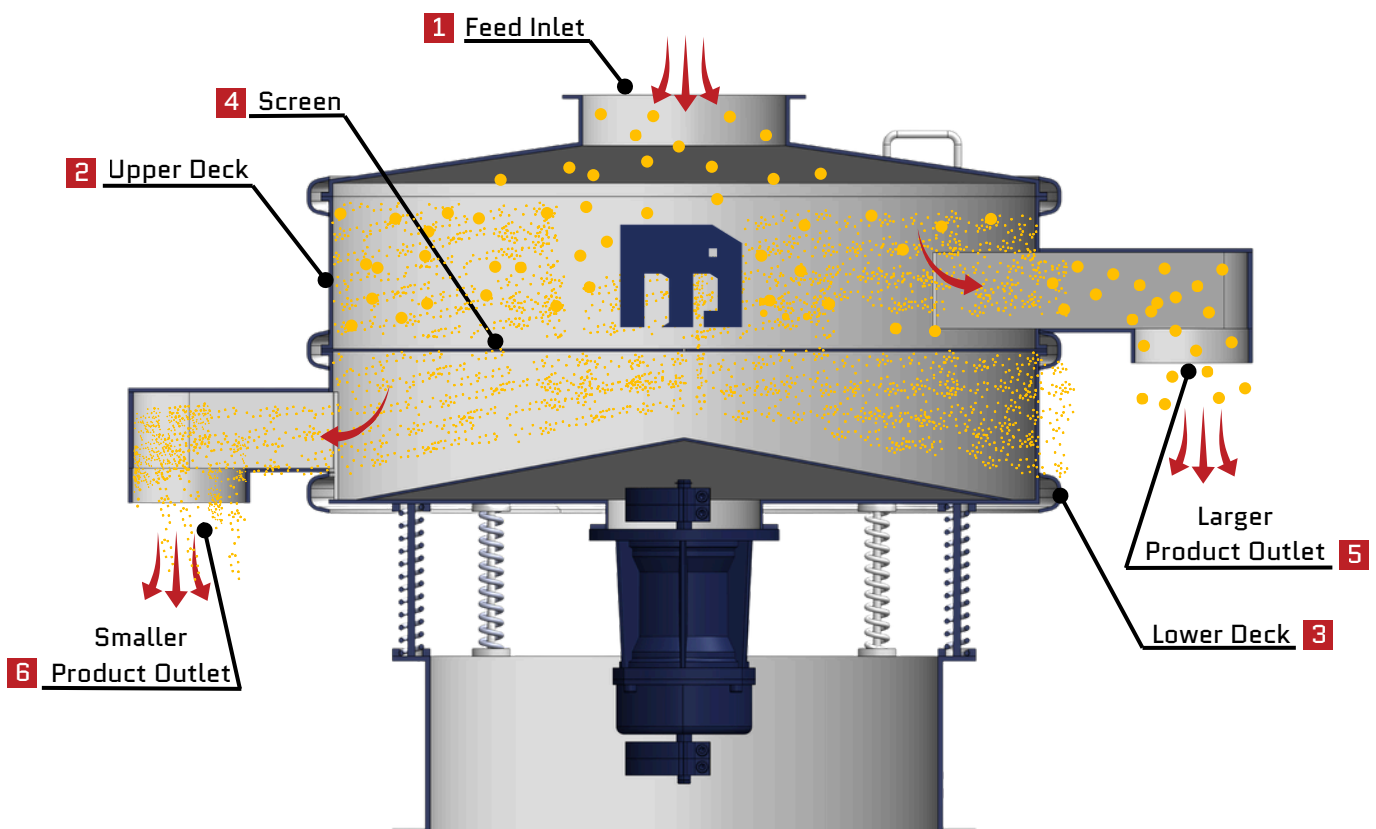
► Typical process flow diagram of a standard VIBRO Sifter

Working Principle

The DP® Vibro Sifter operates on the principle of gyratory vibration and multi-plane screening to separate and classify materials according to particle size. Material enters through the **feed inlet (1)** and is evenly distributed across the screening area through controlled vibratory motion. The vibration generated within the machine promotes continuous material flow over the screen surface, ensuring efficient separation while minimizing screen blockage and maintaining consistent throughput.

Inside the screening chamber, the **upper deck (2)** and **lower deck (3)** support the **screen (4)**, where particles are separated based on their size. The vibratory motor produces a multi-directional motion that causes finer particles to pass through the screen apertures, while oversized particles remain on the screen surface and move progressively toward the discharge end. Screening efficiency and separation accuracy can be optimized by selecting the appropriate mesh size and adjusting the vibration intensity according to the product characteristics.

This configuration is ideal for grading, scalping, dedusting, and classification of powders and granules requiring uniform particle size distribution. The oversized material exits through the **larger product outlet (5)**, while the finer screened product is discharged through the **smaller product outlet (6)** for further processing or collection. The Vibro Sifter is widely used in food, chemical, pharmaceutical, and mineral industries for high-capacity and precision screening applications.



► A cross-sectional view of the VIBRO Sifter

Features & Benefits

- ▶ Ensures accurate screening and grading with high-frequency vibratory motion for consistent particle separation.
- ▶ Suitable for powders, granules, semi-solids, and slurry applications across multiple industries.
- ▶ Multiple deck configuration allows simultaneous separation into different particle size fractions.
- ▶ Screen design minimizes mesh choking and blinding for uninterrupted operation and higher throughput.



▶ 3 Deck VIBRO Sifter



▶ 2 Deck VIBRO Sifter

- ▶ Delivers low noise, low vibration, and energy-efficient performance with reduced operating costs.
- ▶ Compact and hygienic stainless-steel construction enables easy cleaning and maintenance.
- ▶ Quick screen replacement and clamp-type assembly reduce downtime during product changeovers.
- ▶ Compatible with gravity discharge and pneumatic conveying systems for flexible process integration.

Options and Accessories

- ▶ **Anti-Blinding System:** Optional ball deck or ultrasonic screen cleaning system to prevent mesh blockage and improve screening efficiency.
- ▶ **Multiple Deck Configuration:** Available in single, double, triple, or multi-deck arrangements for simultaneous separation into multiple particle sizes.
- ▶ **Feeding & Discharge Systems:** Compatible with screw feeders, gravity feed hoppers, pneumatic conveying, bag dumping stations, and customized discharge arrangements.
- ▶ **Instrumentation & Monitoring:** Can be equipped with vibration monitoring, safety interlocks, level sensors, and control systems for reliable process operation.
- ▶ **Variable Vibration Control:** Optional frequency-controlled drive system for precise adjustment of vibration intensity, screening accuracy, and throughput.

Machine size

Model	Rotor drive		Dimensions mm [LxWxH]	Weight Kg
	kW	HP		
VS 12	0.18	0.25	400 x 460 x 980	50
VS 24	0.18	0.25	710 x 760 x 1050	80
VS 30	0.37	0.5	840 x 900 x 1200	120
VS 36	0.37	0.5	980 x 1050 x 1550	150
VS 48	0.75	1	1280 x 1360 x 1550	180
VS 60	1.1	1.5	1620 x 1700 x 1850	220
VS 75	1.5	2	1800 x 1910 x 1850	260



► DP® Single Deck VIBRO Sifter ready for dispatch

Who are WE?

We are DP Pulveriser Industries and have been designing and building size reduction equipment in India since 1962. We believe in using the materials of the highest grade to build our equipment because we understand your need for a machine that will perform - without breakdown - day in and day out. 60+ years, 7500 installations and 32 countries later we now hold the reputation of being one of India's finest manufacturers of size reduction equipment. Regardless of the industry you operate in, DP can optimize, innovate and automate your entire process with tailor made solutions and expertise that is backed by 60+ years of experience. We are a young bunch of passionate engineers excited to work on your next challenging project



What do we DO?

DP Pulveriser Industries' offerings are broadly classified under 3 segments:

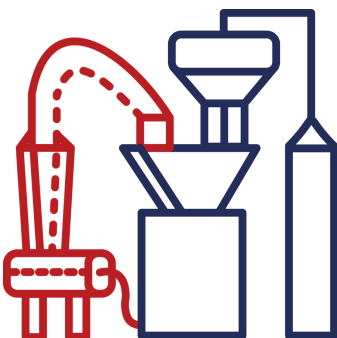


Powder Processing Equipment

Built for durability and low maintenance even after years of service, Our core strength lies in Size Reduction and Air Classification. We offer a wide range of machines to meet all your particle size requirements.

Testing and Other Services

We offer various services such as material trials of our equipment, grinding and air classification of your material on a contract basis and even particle testing and analysis at a fully equipped laboratory on the campus of our partner IIT Gandhinagar.



Turnkey Systems & Plant Automation

Thanks to our decades of experience, we understand what processing technologies and equipment are best suited for your application and industry. This means we can be your one stop solution for setting up complete powder processing plants carefully tailored to your needs.



Our Global Footprint

- Australia
- Bahrain
- Germany
- Mexico
- New Zealand
- South Africa
- Qatar
- Canada
- United Arab Emirates
- Bangladesh
- Ghana
- Hongkong
- Iran
- Nepal
- Singapore
- Nigeria
- Bhutan
- China
- Tanzania
- Oman
- Philippines
- Switzerland
- Uruguay
- Zambia
- Kenya
- Estonia
- Egypt
- Mauritius
- Madagascar
- Guatemala
- Indonesia
- Sri Lanka
- Bremen

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