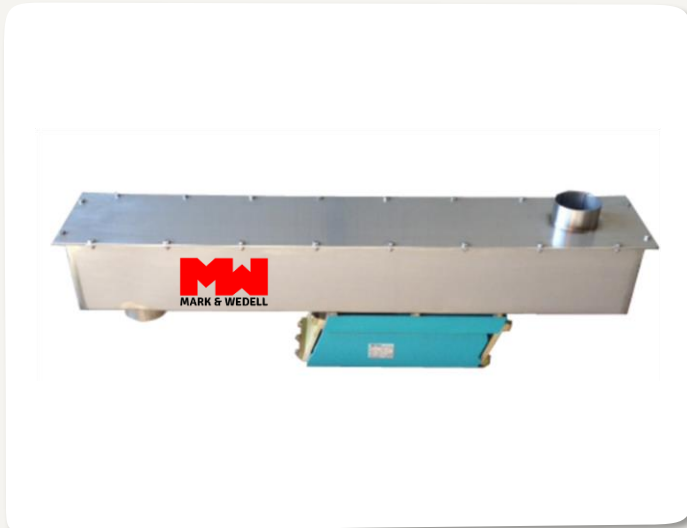


## Vibration Feeder (VF)

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## What does it do?



The Vibration Feeder (VF) is designed for conveying and dosing dry non-sticky bulk materials such as pellets, granules or powders by means of vibrations. The unit can be integrated in any sampling systems where relatively small volumes of material have to be conveyed on a horizontal level. The VF is normally used to perform dosing of sampled material to further sample preparation.

## What's the benefit?

- It is cost efficient and has low maintenance costs compared to a traditional conveyor belt.
- Has a compact design and is well suited when there is space constraints.
- Provides accurate dosing of sample material.

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## How does it do it?

The VF consists of a transport pipe, a base plate, an electromagnet drive/unbalanced motor, leaf springs and rubber pads. The pipe is attached directly to the vibration unit and has one inlet and dependent on configuration one or multiple outlets. The vibration unit is used to move the particles in the tube in a uniform manner. The speed of the material flow is adjustable.

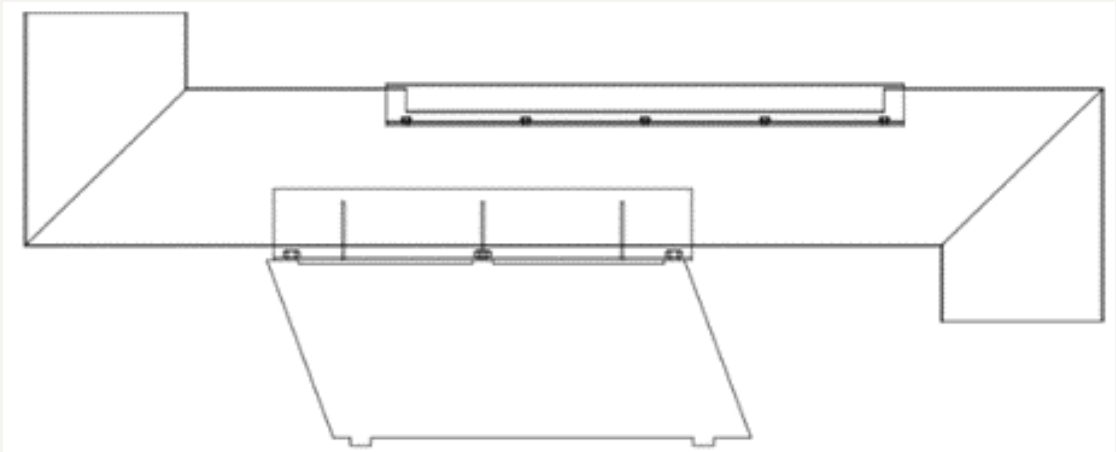
## Specifications:

The transport pipe is constructed in stainless steel. The **VF-D** is available in different lengths (m). The pipe is manufactured in stainless steel AISI304 and closed for maximum dust tightness.

### Technical Data:

<b>Drive unit:</b>	Electromagnetic motor
<b>Voltage:</b>	400/230V-50Hz or as required
<b>Material:</b>	Stainless steel
<b>Sensor:</b>	Vibration sensor (optional)
<b>Lengths:</b>	0,3 – 6,0 (m)

## Drawing.



## What is the standard?

M&W JAWO Sampling equipment and sampling systems operate in accordance with approved international material standards such as ISO, ASME, GOST, EN as well as DS3077 (2013). All sampling equipment and solutions aim for compliance with the principles laid down in the Theory of Sampling (TOS) and gives our customers reliable knowledge of the material properties such as moisture content, particle size distribution, mineral proportions, and content grade essential for commercial, operational, and technical characterization.

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## Variants/Options.

### Variant 1

The Vibration Feeder Drive (VF-D) is driven by an electromagnetic drive unit which is used to move the particles in the horizontal duct in a uniform manner. The VF-D is suitable for volumes up to approximately 75 l/min with a density up to 500 kg/m<sup>3</sup>.

### Variant 2

The Vibration Feeder Motor (VF-M) is driven by two unbalanced motors that are used to move the particles in the horizontal duct in a uniform manner. Compared to the VF-D the VF-M is suited for more volume and higher density. Further, the VF-M is required when the unit include sieves with multiple outlets.

### Option 1

Both VF-M and VF-D is available in an ATEX version.

### Option 2

The VF-M can have multiple numbers of sieves installed to enable a sorting of the particles into different outlets.

### Nota Bene 1

The VF is well suited for horizontal and declining material flow. However, it is not suited for an inclined vertical flow.

### Nota Bene 2

For higher volumes of material the right solution is often a traditional conveyor belt.

In cases of wet or sticky material the VF is not suitable (e.g. biomass).



Variant 1

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*Variant 2*

## About M&W.



Mark & Wedell A/S (M&W) is a global mechanical/electrical engineering and manufacturing company. M&W serves a solid and growing international customer base within the global mining-, minerals-, metals-, power generation- and big science markets.

We develop, engineer, and produce high quality mechanical and electrical machines, instruments, and solutions. Our brand JAWO and unique know-how is well recognized in our markets and among our customers due to more than 40 years of experience.

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