

virto



T-LINE

Tumbler sieves
for **Powders**

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VTU TUMBLER SIEVE

Virto T-Line is a product range of Tumbler (VTU), a separator used for **classifying and de-dusting fine, dry, non-sticky materials at a high capacity and high efficiency.**

The unique tri-dimensional movement of a Tumbler literally tumbles the material and sieves it, achieving up to 99% efficiency for a particle size range between 10 mm and 100 µm for materials in the food, pharmaceutical, metal powders and aggregate industries.

The VTU Tumblers are an alternative to vibrating sieve technology for fragile materials that require gentler screening with high throughputs.

Tumbler's often have an increased mesh lifetime compared to standard vibrating sieves thanks to the soft movement of the machine.

SIZES AND CONFIGURATION

- Diameter sizes: 900 mm (VTU 900), 1,200 mm (VTU 1200), 1,500 mm (VTU 1500), 2,000 mm (VTU 2000) and 2,400 mm (VTU 2400); and,
- Multiple decks: The VTU is offered in a multiple deck configuration of up to 5 meshes.

USES OF VTU

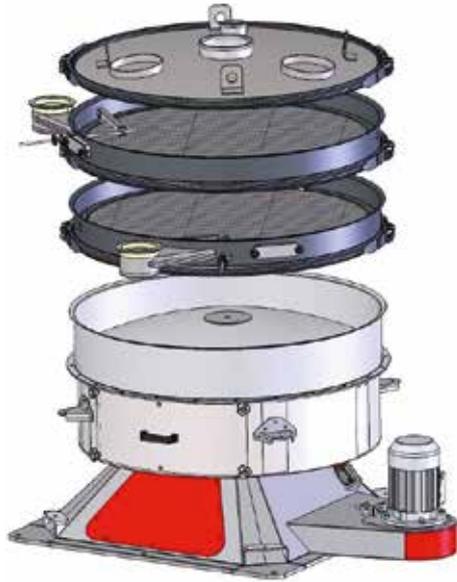
The VTU is typically used for classification and de-dusting of fine and granular dry materials, especially for "delicate" materials for the food, pharmaceutical, metal powders and manufacturing industries.

BENEFITS OF VTU

- Capacity up to 5 times greater per square meter over traditional sieves.
- Extremely high screening efficiency.
- No particle destruction of sensitive products due to gentle screening.
- High reliability due to its solid structure.
- Low noise emission.
- Easy to clean and maintain.
- Multiple-deck separation.
- 2 year warranty*.

TECHNICAL CHARACTERISTICS	VTU 900	VTU 1200	VTU 1500	VTU 2000	VTU 2400
Electrical Power (kW)	2.2	2.2	2.2	4	5.5
Sieving decks	1-5	1-5	1-5	1-5	1-5
Mesh surface (m ²)	0.587	0.932	1.5	2.7	4.52

*(consumable items not included)



DESIGN CHARACTERISTICS

- Bolt clamping system;
- Parts in contact with product in AISI 304 or 316 stainless steel;
- Connectable discharge outlets;
- Adjustable three-dimensional movement;
- Belt drive;
- Standard mesh cleaning system.

ACCESSORIES AND MODIFICATIONS

Product variations and accessories available for the T-Line product range:

MESH CLEANING SYSTEM

To assist in minimising the clogging or blinding of the mesh, it could be use silicon balls, overmesh plastic cyinders and also an **ultrasonic system** that can be easy retrofitted to any existing vibratory sieve including non-Virto equipment.

MECHANICAL DECK LIFTING SYSTEM

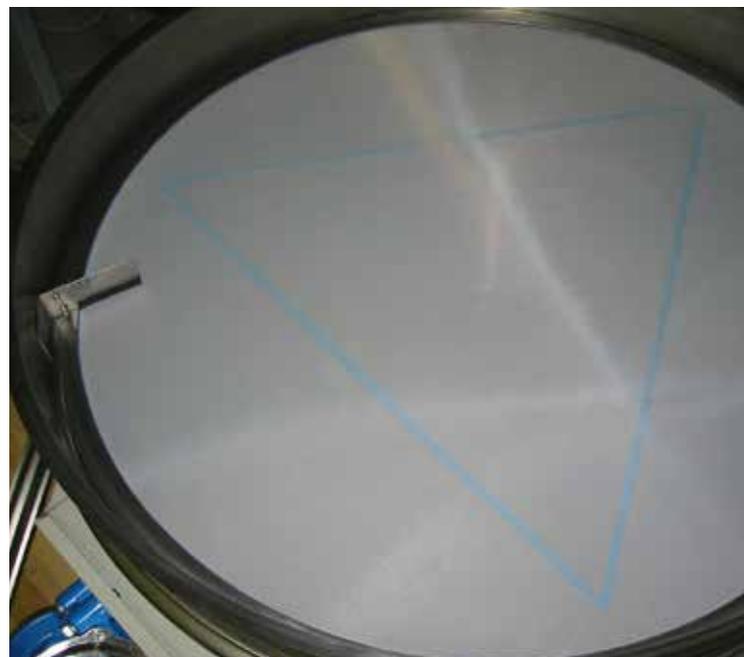
This is offered for the biggest T-Line models (from 2,000 mm diameter up) to lift the decks to replace the mesh.

QUICK RELEASE BAND CLAMPS

Available for the safe, effective and quick fixing of decks to the machine base (only for VTU 900 and VTU 1200)

AISI 316 STAINLESS STEEL MANUFACTURING

The VTU can be manufactured in AISI 316 stainless steel in order to meet specific requirements.



T-LINE CASE STUDIES

MATERIAL	MODEL SIZE	MESH SIZE (micron)	DENSITY (kg/lt)	CAPACITY (kg/h)
Aluminium Powder	VTU 2000 1X	514 µm	1.4	10,700
Ash	VTU 1500 1X	75 µm	0.9	1,500
Calcium Carbonate	VTU 2400 4X	4,000 µm 1,260 µm 790 µm 200 µm	1.5	9,856
Dolomite	VTU 2000 2X	606 µm 303 µm	2	7,600
Limestone	VTU 2000 1X	2,000 µm	1.7	19,100
Marble Powder	VTU 1200 2X	1,000 µm 514 µm	1.4	1,920
Milk Whey Powder	VTU 1500 1X	150 µm	0.6	2,800
Perlite	VTU 1200 2X	307 µm 125 µm	1.2	1,100
Sand	VTU 2400 1X	830 µm	1.6	14,000
Semolina Flour	VTU 2000 1X	514 µm	0.7	4,750
Sugar	VTU 2400 1X	436 µm	0.9	32,000
Titanium Oxide	VTU 1500 1X	105 µm	0.8	2,520
Tungsten Granules	VTU 2000 5X	2,000 µm 1,000 µm 500 µm 150 µm 89 µm	12	900
Wood Pellets	VTU 2400 1X	2,970 µm	0.7	4,300



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