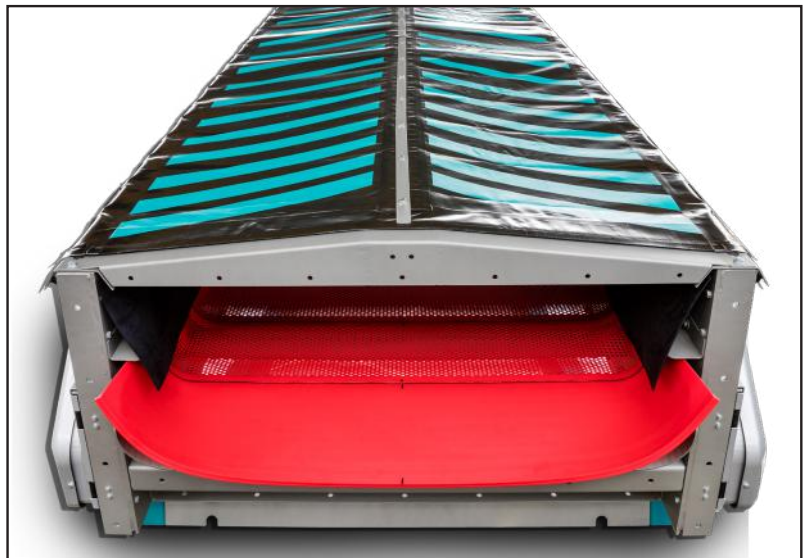


**EFFICIENT  
SCREENING**

**binder+co**



**BIVITEC e+**  
**FLIP FLOW SCREENS**  
**SCREENING AT A NEW LEVEL**

# EFFICIENT SCREENING

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## ADAPTABLE

### **The BIVITEC e+ remains the right screening machine even if your feed materials change**

Do you need to screen difficult material that is subject to seasonal, weather, or other changes? Then the BIVITEC e+ is the right choice. A frequency transformer integrated in the motor allows nearly infinite adjustment of the vibration characteristics / operating frequency. This lets you quickly and easily adapt the machine to the task at hand.

## LOW VIBRATION

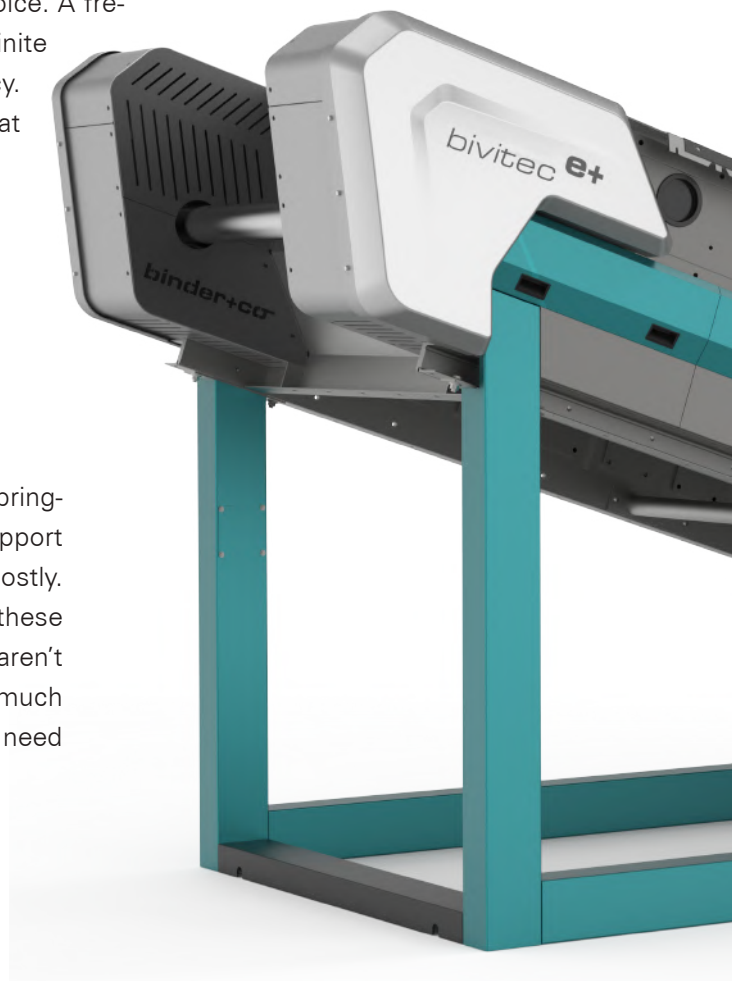
### **The BIVITEC e+ has the lowest dynamic loading in its class**

On conventional flip flow screens, the oscillations in the spring-mounted screen deck transfer high dynamic loads to the support structure, which must therefore be solidly built. This can be costly. The internal mass balancing of the BIVITEC e+ minimizes these stresses. In fact, they are so low that spring mountings aren't needed. This means that the support structure can be made much more economically, or if there already is one in place, it doesn't need to be reinforced when a BIVITEC e+ is retrofitted.

## ECONOMICAL

### **Reduces environmental impact and saves money**

Economy is where the BIVITEC e+ really stands out. It uses very little energy. This protects the environment and keeps costs down. Further investment is low, since a retrofitted BIVITEC e+ can use existing infrastructure. In new installations, its light construction and low dynamic loading permit slender support structures and make it a smart investment.



**BIVITEC e+**  
**LOW VIBRATION AND**  
**ENERGY-SAVING**

# FOR SCREENING DIFFICULT AND EASY TO SCREEN MATERIALS

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## **STACKABLE**

### **Single- and multi-deck screens, stationary and mobile**

The BIVITEC e+ is the first screening machine that can be stacked. This makes it possible to adjust the oscillation characteristics for the specific task. BIVITEC screens are offered in stationary as well as mobile versions in cooperation with proven partners.

## **HIGH QUALITY**

### **Minimal wear and coarse spillover**

The ox-horn side sealing developed by Binder+Co keeps coarse material from spilling over the sides and getting into the outflow, and also prevents wear to screen panels and sides.

## **VERSATILE**

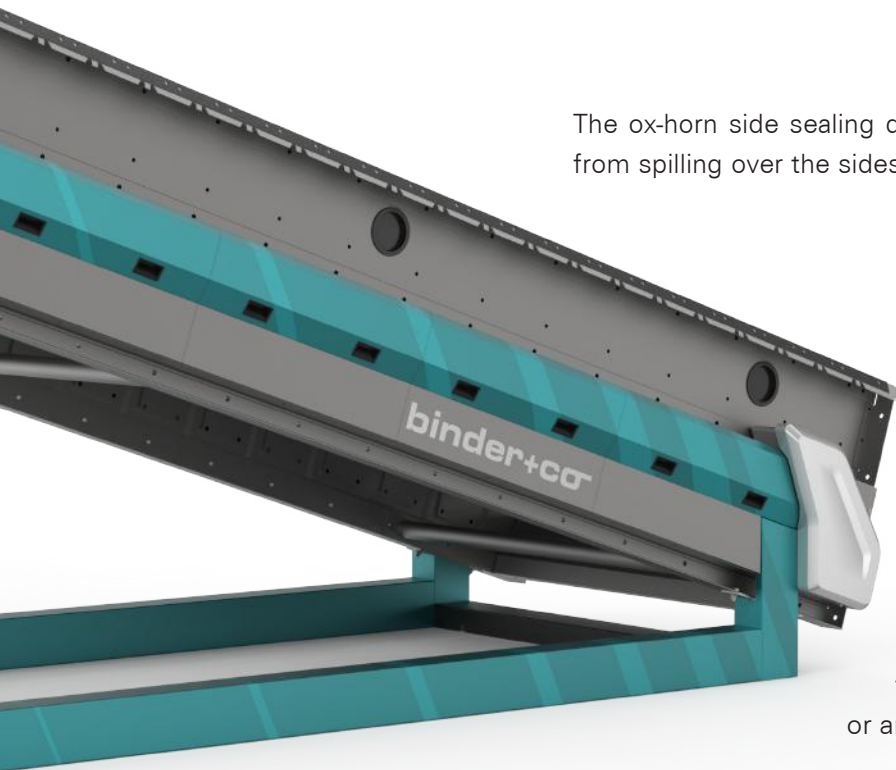
### **From mining to chemicals to recycling**

BIVITEC high quality polyurethane screen mats are offered in several versions to ensure that the screening machine is ready for any task – abrasive materials like glass cullet, fines and ultra-fines, compost treatment with microbe-resistant screen mats, or artificial fertilizer with acid and alkaline-resistant mats.

## **EASY AND QUICK**

### **Changing BIVITEC mats**

BIVITEC screen mats feature screwless mounting. The resulting absolutely smooth screen deck surface prevents material caking. The mats are quick and easy to install and remove – in an hour about 10 square meters of screening area can be changed.



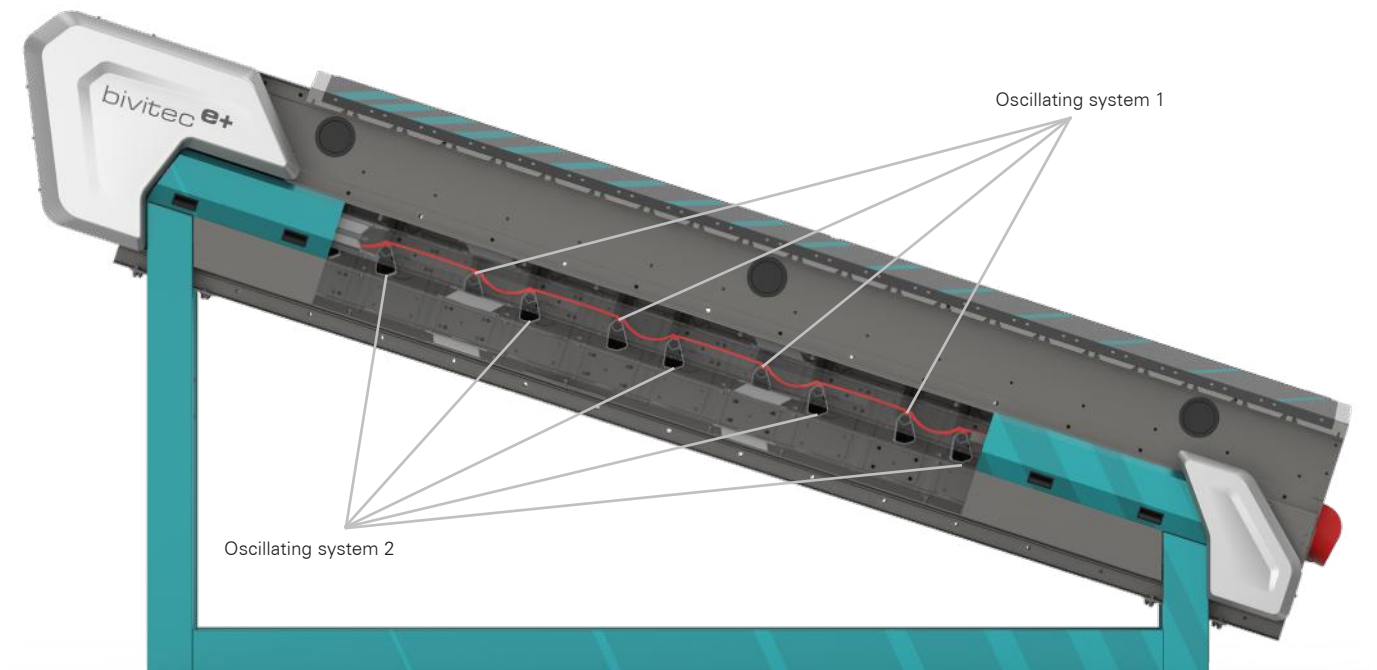
**FUNCTION**

For good screening of hard-to-screen materials, it is necessary to transfer much higher acceleration energy to the material than normally. Binder+Co has developed an efficient solution for this with the BIVITEC e+.

This machine has a non-oscillating screen box in which there are two frames which vibrate contrary to each other. They are driven by an eccentric and timed so that their masses counterbalance each other. As a result, only very small residual dynamic forces are left, which can be absorbed by the support structure without additional springs.

Between the cross braces of the two screen frames are flexible screen mats, which are alternately stretched and relaxed. This causes a whip effect, which acts with the 15° – 25° screen deck incline to move the material and separate it very accurately.

Since the screen box does not oscillate, it can be connected directly with the surrounding chutes and peripherals, and dustproofed. If the coarse chute is big enough, it can act as a support for the screening machine.



RELIABLE  
CRUSHING



EFFICIENT  
SCREENING



WET  
PROCESSING



THERMAL  
PROCESSING



SENSOR-BASED  
SORTING



BAGGING  
PALLETIZING



**RESONANCE-  
SCREEN**

+

**BIVITEC  
FLIP FLOW**

=

**BIVITEC e+**

### **THE BEST OF TWO CLASSICS**

#### **Economical, energy-saving and efficient**

The BIVITEC e+ combines two ingenious technologies from Binder+Co in one screening machine – low dynamic loading through the mass balancing of a resonance screen, plus the BIVITEC flip flow system. This results in a light machine that needs less power. In fact, with the BIVITEC e+ you can save up to 40 % of the weight and up to 65 % of the energy used by a conventional machine.

Thanks to the low dynamic loads, the BIVITEC e+ can be mounted on a structure as narrow and economical as the machine itself. The BIVITEC e+ is designed compactly, so that no motor components or other parts protrude. As many decks can be stacked as needed, and a low-dust design is available.

**TECHNICAL DATA**

**BIVITEC e+**

<b>Machine data</b>	
Number of screen decks [m]	1 – any number
Effective screen width [m]	1,0 – 3,5
Effective screen length [m]	4,7 – 14,0
Screen area / deck [m <sup>2</sup> ]	4,7 – 49,0
Screen inclination [°]	15 – 25
Power rating / deck [kw]	4 – 15
Weight / deck [t]	3,5 – 12

<b>Screen mats</b>	
Apertures	Long, round, square, precision mesh
Special mats	For compost, acid/alkaline materials, abrasives (e.g. broken glass), crushed sand filler removal

**BIVITEC e+ *small***

<b>Machine data</b>	
Number of screen decks	From 1 to any number
Effective screen width [m]	0,6 – 1,3
Effective screen length [m]	2,0 – 4,0
Screen area / deck [m <sup>2</sup> ]	1,2 – 5,2
Screen inclination [°]	15 – 22
Power rating / deck [kw]	2,2 – 3
Weight / deck [t]	1,3 – 2,7

