

# MultaVEX Vibra Screening buckets



## MultaVEX Vibra

The MultaVEX Vibra Screening Buckets distributed by Embrey Attachments offer a comprehensive solution for all your soil screening needs. These buckets are designed with both efficiency and environmental impact in mind, leading the industry with their low-emission operations.

## MultaVEX Company background

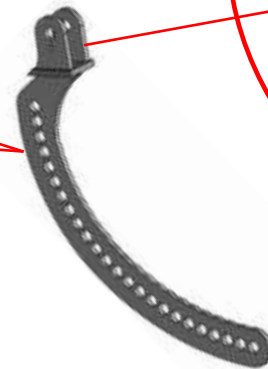
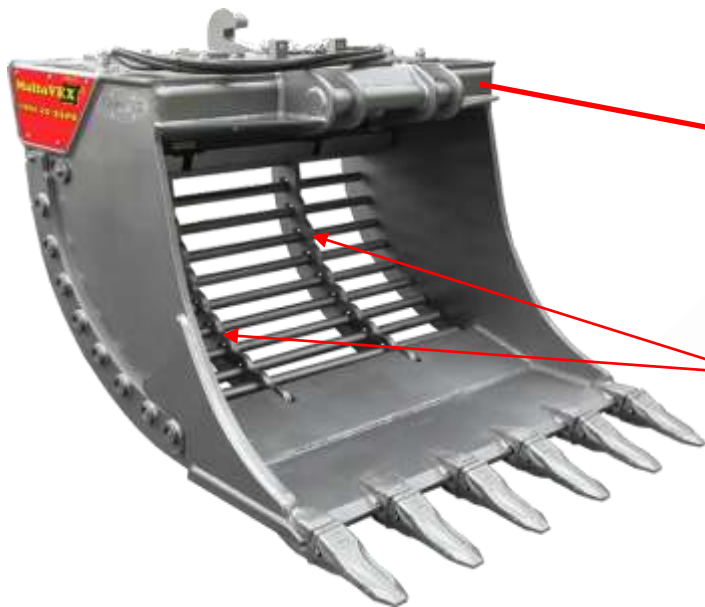
- ✓ Founded 1986
- ✓ Production of screening buckets (**Rotor models**) started at 2005 and stopped 2019
- ✓ Production of screening bucket (**Vibra models**) started at 2013.
- ✓ Home city: Seinäjoki, Finland.
- ✓ Personnel: 10, Production facilities: 4000 m<sup>2</sup>.



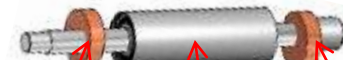
## Operation

Operation is based on a direct driven camshaft which moves the bars in the bottom of the bucket at a different pace.

- ✓ Simple structure
- ✓ Reliable Operations
- ✓ Easy to use



Rocker plate



Cam

Camshaft

Cam

## MultaVEX Vibra patents

MultaVEX VIBRA Screen Buckets are patented in countries all over the world:



**AT** 2903754

**AU** 2013326354

**CA** 2,886,032

**CZ** 2903754

**DE** 2903754/2951358

**DK** 2903754

**EE** 2903754

**EP** 2951358

**ES** 2903754

**FI** 123997/124431/125679

**FR** 2903754

**GB** 2903754/2951358

**IE** 2903754

**IT** 2903754/2951358

**KR** 10-1862593

**LV** 2903754

**NL** 2903754

**NO** 2903754

**PL** 2903754

**RU** 2622058

**SE** 2903754/2951358

**US** 9,546,467

## Product portfolio

- ✓ Excavator sizes; 1-50 ton
- ✓ Models:
  - 10 basic models, 2-35 ton
  - 11 strong models, 3-50 ton
- ✓ Screening size 20 ->



**Basic models**



**Strong models**

## Technical Data

Model	Excavator size (ton)	Volume (litre/m <sup>3</sup> )	Width, cutting edge out/in (mm)	Height (mm)	Depth (mm)	Weight (kg)	Hydraulic (litre/bar)	Bars (unit x mm) 1 / 2	Screening size (mm) 1 / 2
<b>2-4 / 2-4S</b>	2-4 / 3-5	70	640 / 595	466	537	170 / 190	20 / 200	10 x 20 / -	30 / -
<b>3-6 / 3-6S</b>	3-6 / 4-8	210	830 / 763	733	870	270 / 300	20 / 200	12 x 25 / 10 x 25	30 / 50
<b>5-10 / 5-10S</b>	5-10 / 6-11	370	1 038 / 964	820	1 020	520 / 570	40 / 200	16 x 30 / 12 x 30	30 / 50
<b>7-12 / 7-12S</b>	7-12 / 8-13	420	1 211 / 1 128	880	1 050	650 / 700	40 / 200	16 x 30 / 12 x 30	30 / 50
<b>10-15 / 10-15S</b>	10-15 / 11-16	620 / 0,8	1 211 / 1 128	1 008	1 240	860 / 950	40 / 200	18 x 30 / 12 x 30	30 / 55
<b>13-18 / 13-18S</b>	13-18 / 14-19	730 / 0,9	1 411 / 1 328	1 008	1 240	1 000 / 1 100	40 / 200	18 x 30 / 12 x 30	30 / 55
<b>15-25 / 15-25S</b>	15-25 / 18-30	1 200 / 1,5	1 514 / 1 410	1 242	1 530	1 440 / 1 560	40 / 200	23 x 30 / 16 x 30	30 / 50
<b>15-25 / 15-25S</b>	15-25 / 18-30	1 200 / 1,5	1 514 / 1 410	1 242	1 530	1 440 / 1 560	40 / 200	- / 16 x 35	- / 40
<b>25-35 / 25-35S</b>	25-35 / 30-40	1 200 / 1,5	1 514 / 1 400	1 242	1 530	1 760 / 1 920	80 / 200	15 x 45 / 11 x 45	40 / 70
<b>30-40 / 30-40S</b>	30-40	1 400 / 1,6	1 620 / 1 500	1 275	1 530	1 850 / 1 950	80 / 200	17 x 45 / -	45 / -
<b>40-50S</b>	35-50	2 000 / 2,3	1 760 / 1 610	1 495	2 270	3 100	80 / 200	14 x 45 / -	60 / -

- Screening size: 1=thick rocker plate, 2=thin rocker plate
- S; strengthen + teeth
- 40-50S; 2 hydraulic motors, others 1 hydraulic motor
- Bars are Hardox 400

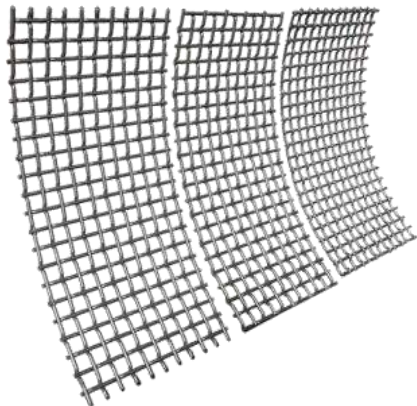


**For extra precise screening**

**Installed on top of the bars in the bucket**

**Grid sizes:**

- 20 x 20 mm, Ø 6 mm
- 30 x 30 mm, Ø 8 mm
- 40 x 40 mm, Ø 8 mm (stock model)
- 50 x 50 mm, Ø 10 mm
- 60 x 60 mm, Ø 12,5 mm





# Accessories

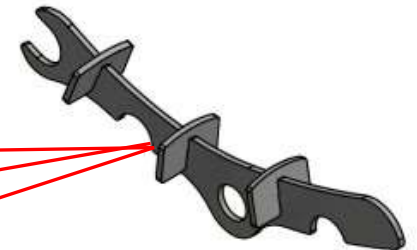
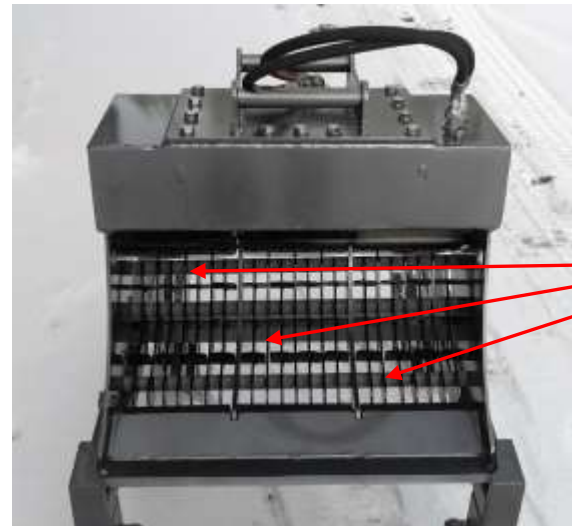
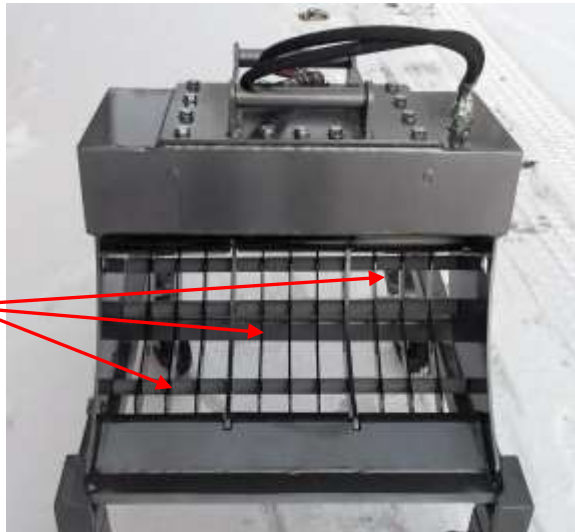
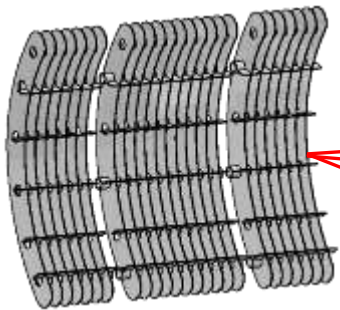




# Accessories

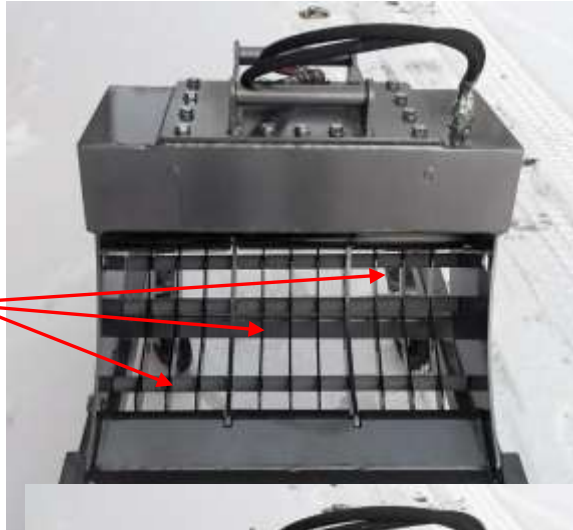
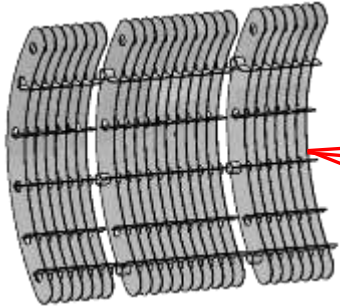
- ✓ Screening of fine and rough materials.
- ✓ Efficiency can be multiplied of screening 30-50 mm materials.
- ✓ Screening elements (thickness), HB400
  - Top soil set; 4-6 mm (soil, sand, fine materials)
  - Concrete set; 8-12 mm (demolition waste, rough materials)
- ✓ Middle screening elements (thickness), HB400;
  - Top soil set; 4 mm (soil, sand, fine materials)
  - Concrete set; 4-6 mm (demolition waste, rough materials)
- ✓ Two bars away

Screening elements (set)



Middle screening elements (set)

Screening elements (set)



## Screening sizes

- ✓ fine material 50 mm  $\pm$  5 mm
- ✓ coarse material 90 mm  $\pm$  5 mm

Middle screening elements (set)



## Screening sizes

- ✓ fine material 23 mm  $\pm$  5 mm
- ✓ coarse material 43 mm  $\pm$  5 mm

# Accessories

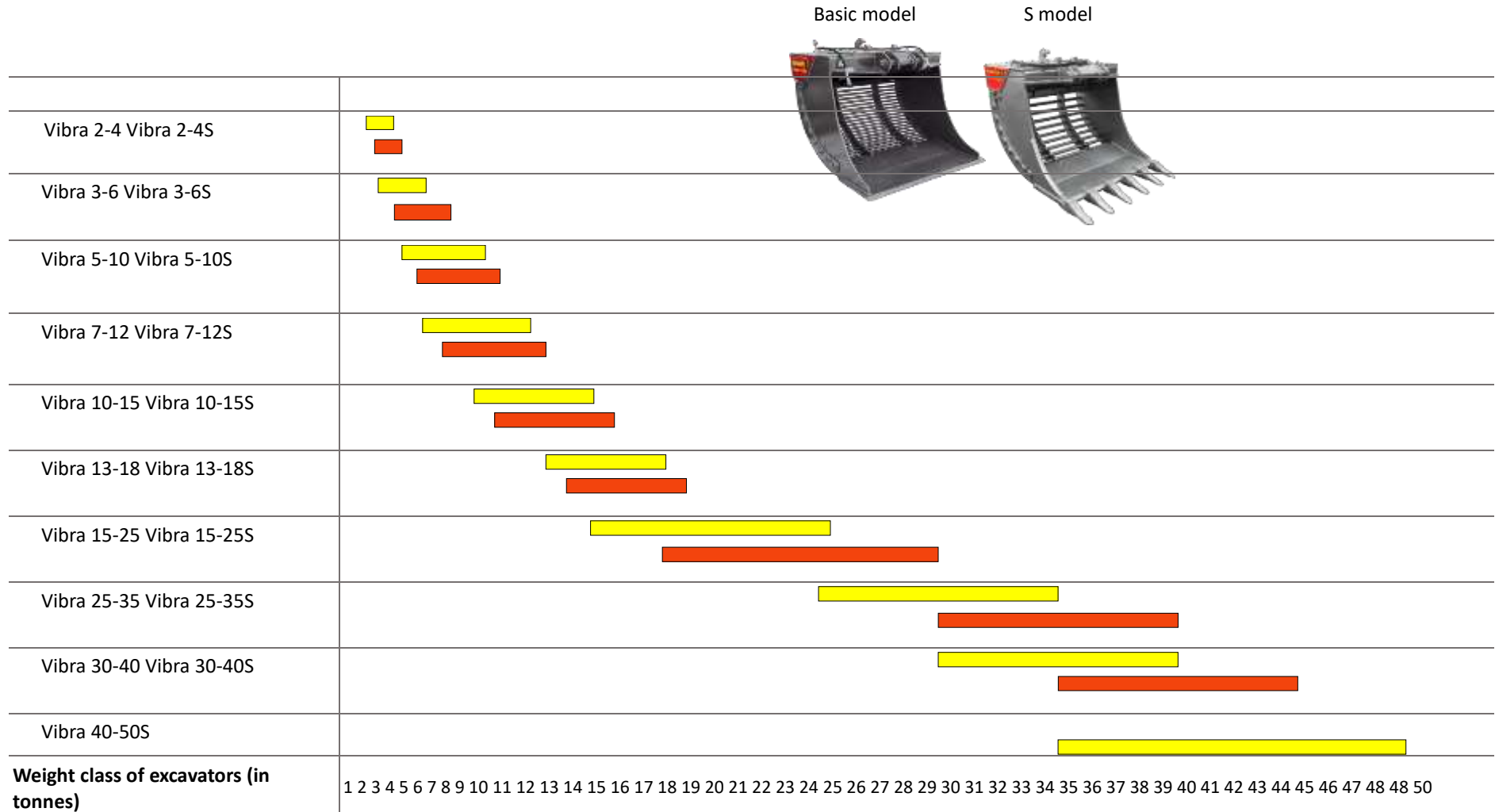


## Hardox bars

- ✓ For very hard use.
- ✓ Approximately 40% stronger than standard bars.
- ✓ Available thicknesses; 20, 25, 30, 35 and 45 mm

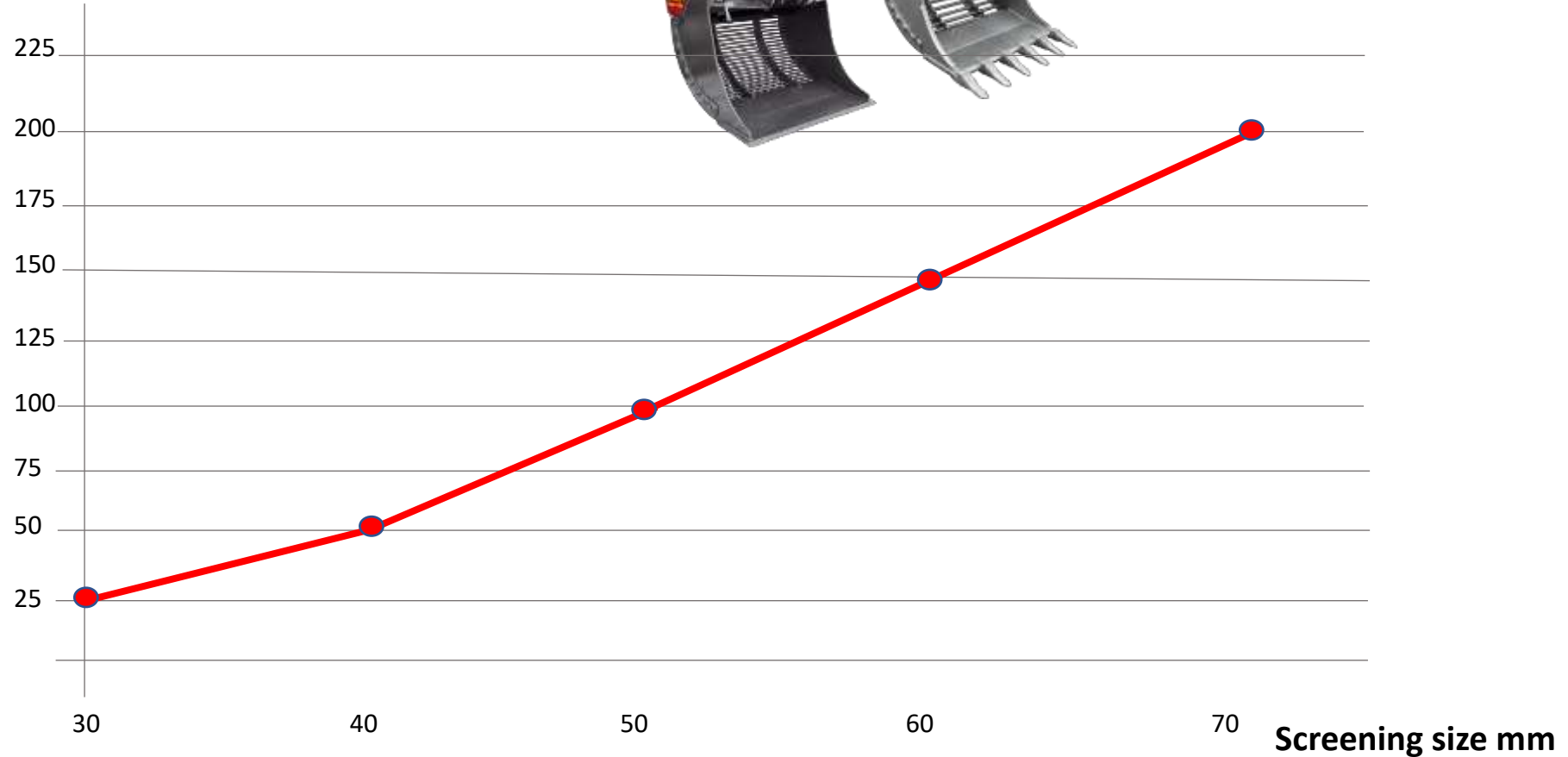


# Recommended weight classes of excavators



# Screening capacity (generally)

Screening capacity m<sup>3</sup>/hour



**NOTE!** The screening capacity will change a lot depending on the screening composition, if the material is wet, weight, content of the stone etc ...



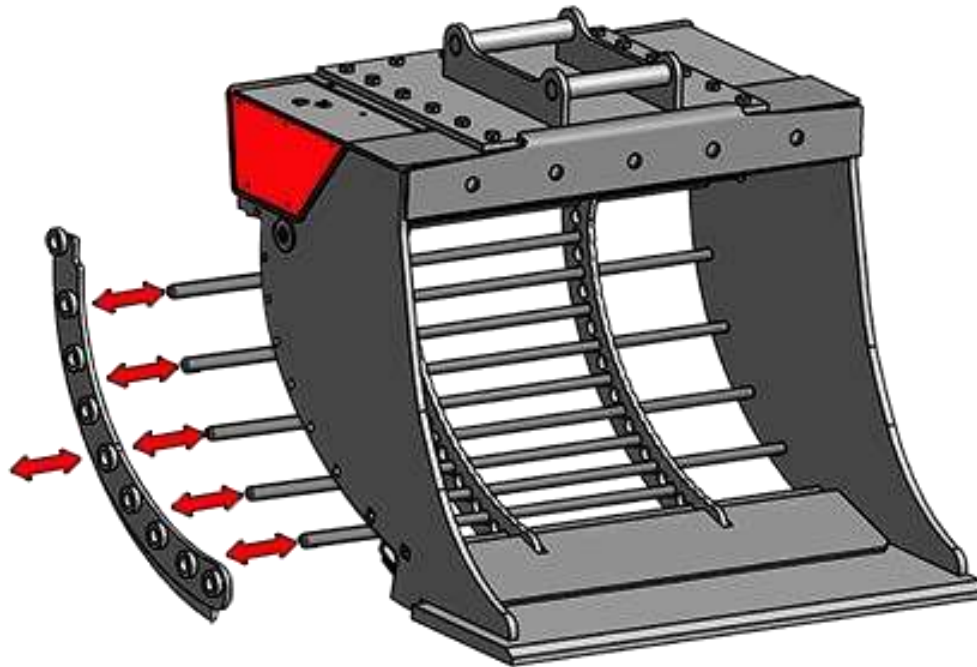
## MultaVEX Vibra's strength

- ✓ Extremely few moving parts means that it will be both cheap in maintenance and reliable in use.
- ✓ Easy to install and taking in use.
- ✓ Can be use with rototilts by using rototilt extra hydraulic lines.
- ✓ The screening size can be adjusted from 20 mm to a large size in just a couple of minutes.
- ✓ Can be use as a normal bucket.
- ✓ Everything can be screened;
  - large rocks, stones
  - construction site waste
  - demolition waste; concrete
  - wood, iron ...
  - gravel, crushed stones
  - top soil, sand
  - wet material
  - cleaning stumps etc...

## MultaVEX Vibra's strength

The screening size can be adjusted from 20 mm to larger sizes in just a few minutes.

- ✓ Change the number of bars.
- ✓ Change the diameter of bars.



## Applications: Pipeline

Filling of pipe- and cable line by using the **MultaVEX Vibra** screening bucket with a little effort and quickly. Also, smooth and careful finishing of the line can be done conveniently with the screening bucket.

Excavated material from trench can be screened back to trench.



No requirement for new material for refilling the trench.

The job site traffic minimised. Saving noise and exhaust gas.

Time and cost saving



## Demolition/Recycling

**MultaVEX Vibra** screening bucket is an excellent and extremely effective tool for onsite screening of demolition waste. Additional screening accuracy can be achieved by installing screening grids, middle rocker plates + pipes on the bucket.

- ✓ Screening fine material (dust...) out of demolition waste before **sorting** bigger recycling particles like concrete, wood, iron etc...
- ✓ Screening fine material (dust...) out of demolition waste before **crushing** bigger recycling particles like concrete, stones etc...

➔ **Saving landfill, transportation etc. costs**



## Quarry/Mine

The **MultaVEX Vibra** screening bucket truly excels when screening extremely coarse materials. Even with blown-up rocks and the sharp stones that result, it faces no issues.

Screening or separating fine materials from blasted stones before feeding them into the crushing station at quarries is a practical application for the MultaVEX Vibra.



**The crush process will be faster and cost effective**



## Coarse material

Screening coarse materials such as blasted stones, rocks, or road stones becomes significantly faster and more cost-efficient when using a **MultaVEX Vibra** Screening Bucket. It's a practical and cost-effective tool for stone screening.

Starting the sorting process with a larger screening size and adding bars as needed presents a convenient way to sort varying sizes of coarse materials into different piles.





## Topsoil, Sand ....

Topsoil screening requires precision to achieve a high-quality end result. The **MultaVEX Vibra** screening bucket conveniently allows for the separation of elements such as stumps and rocks from the soil. Since there are no rotating blades in the bucket, it prevents wooden sticks from contaminating the finished material.

Sand screening can be straightforward, quick, and cost-efficient. With a screening bucket, granular soil can easily be separated from sand.

The **MultaVEX Vibra** screening bucket also makes the screening of fill simple and effective. It facilitates the quick and easy separation of sand and larger grained soil.



## Screening Stations

By using a **MultaVEX Vibra** screening bucket, it's feasible to improve and accelerate the operation of screening stations.

Consequently, it's possible to remove the largest lumps during the filling process itself.

➔ **No need to worry about breaking conveyor mats.**



## Stumps

With **MultaVEX Vibra** screening bucket screening of tree stumps is easy and effective. The screening bucket quickly and effortlessly separates soil and sand from stumps. Once separated, the stumps can be recycled or burned.



## Forest road

Making a forest road is easy and convenient with a **MultaVEX Vibra** screening bucket. Just like a standard, solid-bottomed bucket, you can dig with a **MultaVEX Vibra** screening bucket. What sets it apart, however, is its ability to separate finer ground material from coarse material, resulting in a durable and smooth forest road surface.



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