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# VIBRATING ELASTIC MESH SCREEN “FLIP-FLOP”

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## VIBRATING ELASTIC MESH SCREEN “FLIP-FLOP”.

The New elastic mesh screen “flip-flop” with polyurethane meshes are designed for screening especially problematic materials, either by excessive moisture, low density or tendency to get caught in the meshes that can not be screened with guarantee with other technologies (rotary screens, conventional vibrating screens, etc..).

Equipped with a set of sub resonant frame that amplifies the vibration of the main frame, reaches accelerations on meshes up to “50 G”.



The screening surface is made of high density polyurethane panels. These panels are mounted on separate modules, with the dimensions of the screen's width by a length from 330 to 400 mm, depending on the product to be screened and mesh opening needed.

The fixing of each panel is performed simultaneously on the main frame of the screen and

the sub resonant frame. Amplifying the vibration of the main frame of the screen in the sub resonant frame, and due to the fixing of the polyurethane panels simultaneously on both frames, panels makes a bump effect called “flip-flop” which causes the material to be screened will not stick or hooked on the screen.

The fixing of the polyurethane pa-

nels is done manually by wedges of polyurethane, which greatly facilitates the maintenance of the machine due to its fast replacement and assembling.

The screen opening range is from 0.8 mm to 50 mm by changing the hardness and thickness of the polyurethane according to screen and the product to be processed.

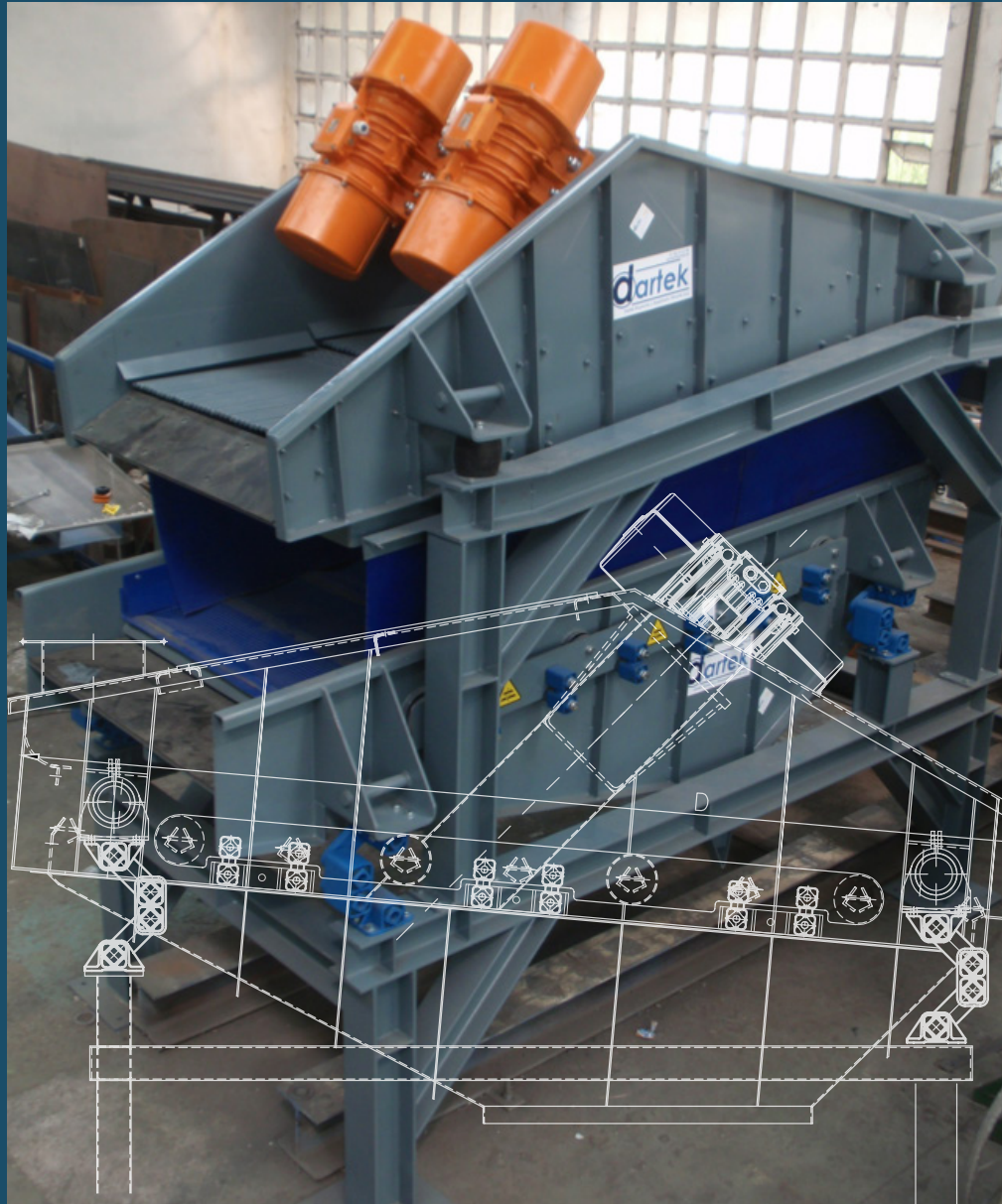


The drive of the screen can be done with mechanical vibrator or with unbalanced motors.

The recycling process applications where these screens are used are becoming more numerous, including among others:

- URBAN SOLID WASTE
- USED TIRES RECYCLING
- CONSTRUCTION WASTE RECYCLING
- GLASS RECYCLING
- BIOMASS
- METALS
- USED CARS RECYCLING
- EXPIRED FOOD
- EXPIRED DRUGS
- SLAGS FROM INCINERATION
- OIL AND SLUDGE
- Etc.

For some applications where different separations are needed, the screens "Flip-Flop" can be combined with different types and screen surfaces either on the same machine or a set of two machines. With the advantage in the separated machines to be able to combine different vibration frequencies and amplitudes, appropriate to each screening surface and each product.



Screening "flip-flop" surfaced are usually combined with other kind of screen:

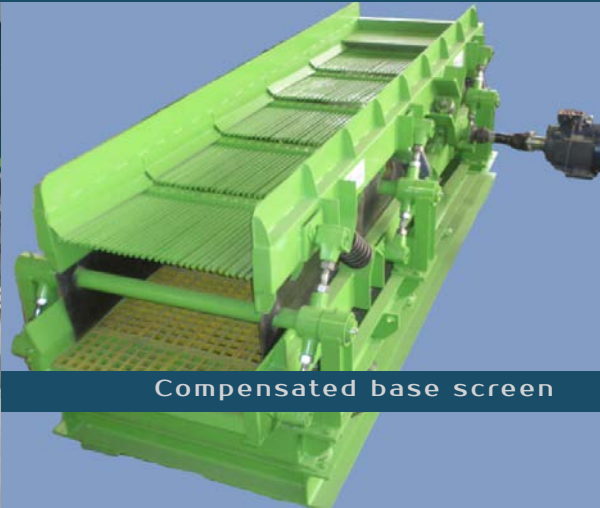
- CONVENTIONAL METAL MESH
- RIGID POLYURETHANE PANELS
- METAL BARS
- HOLED PLATES

Dartek has a testing laboratory that provides its customers with this and other types of vibrating machines. Laboratory where tests can be performed with any product, with the aim of studying the viability of screening within the process and to ensure production and effectiveness. *viabilidad del cribado dentro del proceso y poder garantizar producciones y efectividades.*

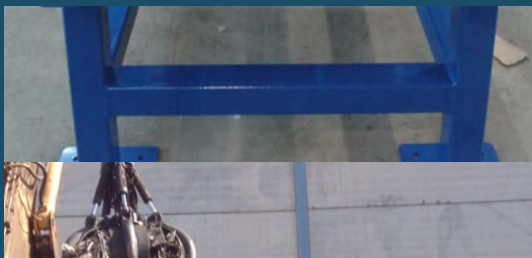
## Dartek<sup>®</sup> machinery examples,



Dewatering screen



Compensated base screen



Cleaning scrap screen



Vibrating dryer



Bidirectional conveyor

# Dartek<sup>®</sup>

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