

Multi-deck horizontal Screening machine



Series MHR -

The screening machine for fine particles

Function

The multi-deck horizontal screening machine type MHR has a linear throw and can be equipped with up to 19 decks for the precise separation of dry materials. Depending on the material to be classified the throughput can vary from 50 kg/h to 50 t/h with cut points of 32 µm up to 8 mm

Micro throw of the material is achieved using two counterweight motors with a very steep angle of throw. This means that the material has the same slow transport speed on all decks. The high quantity of nearly vertical vibrations affected on the particles, the relieving decks and the large screen area ensure particles of analytical screen quality.

Test MHR 5/14/V

A test machine 500 x 1400 mm with up to 7 decks is available in our laboratory in Muelheim or can be hired for tests on site.



Construction

The modular construction allows 6 machine sizes, from 0.35 m² to 5.6 m². Up to 19 screen decks can be stacked and combined to various screen units. The maximum screen area is about 100 m².

Eight special frames per deck are available which can be exchanged quickly. Specially shaped food quality spheres in the screen frames prevent blinding of the mesh.

Applications

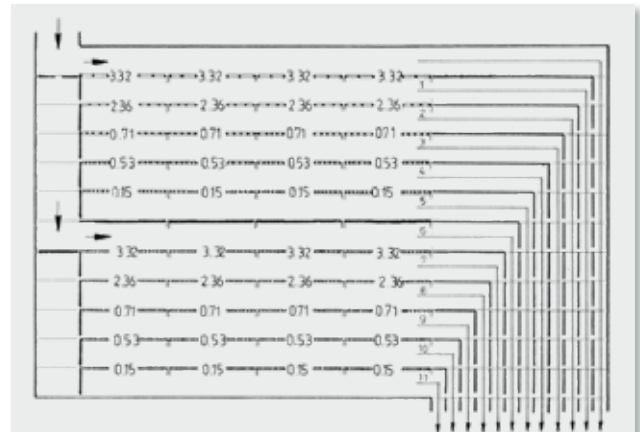
In the beginning this machine was developed for the abrasives industry. Meanwhile a multitude of other applications have been found as abrasives, Quartz sand, glass balls, sugar, salt, metal powder, ground rubber, cable debris and fertiliser to mention just a few. Whenever dry material has to be classified very accurately into a number of fractions, the MHR machine offers the solution.

— Multi-deck horizontal Screening machine Series MHR

- Separation from 32 μm to 8 mm
- Large screen area, up to 100 m^2 for one machine
- Multiple highly accurate cut points
- Keeping the screen mesh clear
- Flexible feed arrangement for customer specific solutions
- Low transport speed for gentle classificatio
- Suitable for very abrasive materials i.e. Grinding and sandblasting media
- Contact material of stainless steel
- Non-metallic screening
- ATEX execution
- Inexpensive Screen frames of wood or food quality stainless steel frames
- Easy maintenance, long lasting construction



Production machine MHR 20/28/XVII (2 IIX) width 2000 mm, length 2800 mm with 17 decks in two screen units



Example of 5 separations in 2 screen units
MHR 10/28/XI (2 V) double the screen area

Typical sizes

From 0.35 m^2 to 5.6 m^2 , easy to handle screen frames 490 x 700 mm or 700 x 980 mm of either wood or stainless steel

MHR	5/7	5/14	7/20	10/21	10/28	20/28
5/7	[Red Box]					
5/14		[Red Box]				
7/20			[Red Box]			
10/21				[Red Box]		
10/28					[Red Box]	
20/28						[Red Box]

Series	MHR 5/7	MHR 5/14	MHR 7/20	MHR 10/21	MHR 10/28	MHR 20/28
Width [mm]	500	500	700	1000	1000	2000
Length [mm]	700	1400	2000	2100	2800	2800
Screen area per deck [m^2]	0.35	0.7	1.4	2.1	2.8	5.6
Max. Area [m^2]	2.5	5	15	25	30	100
Drive motor [kW]	2 x 0.2	2 x 0.5	2 x 1	2 x 1.7	2 x 1.7	2 x 4

Delivery Program

Screening Machines Process Equipment

circular and elliptical motion screens
double counterweight screens
multideck horizontal screen
round screens
jigs

Sample Taking Size Reduction Machines Laboratory Equipment

individual units and complete installations
for sample taking and preparation
jaw crushers
roller mills
hammer and hammer impact mills
vibrating mills and ball mills
rotary shredders
test grading machines
analytical screening machines
dividers
testing drums

Centrifuges

scroll-screen centrifuges
pusher centrifuges
sliding discharge centrifuges
vibratory centrifuges
decanter centrifuges