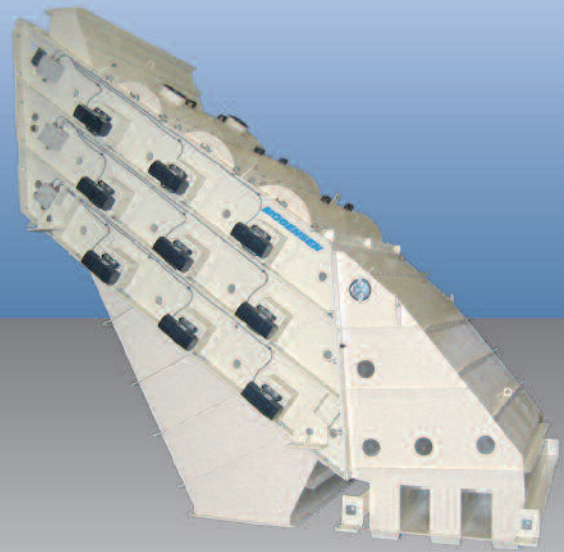




**MOGENSEN**

Allgaier-Group

Fine Sizer



**ALLGAIER**  
PROCESS TECHNOLOGY

**MOGENSEN**

**GOSAG**

**MOZER**

**ALMO**

## The Fine Sizer

The fine screening machine for separating grain sizes from 0.1 – 8.0 mm. The system consists of a frame with a maximum of three screen decks on top of each other which are oscillated by means of blow bars.

## The Beat Impulse

The beat impulse effectuates that the screen mat is kept free of stuck grain and ensures the transportation of the bulk goods.

Each bar stroke is driven by one respectively two motor vibrators. These actuate the bar shaft to oscillate and the screen mat is animated from below.

## Blow Frequency and Oscillation Radius

Principally, the machine is equipped with a frequency converter in order to adjust the necessary blow frequency to the product. By adjusting the flyweights on the motor vibrators, it is possible to position an absolutely different oscillation radius. This may be useful, e.g. for loosening the product at the screen intake or for bringing out critical size particles at the screen output. Also, different adjustments from deck to deck are possible. Very light bulk goods, e.g. grained hop of 0.1 t/m<sup>3</sup>, but also very heavy bulk goods, e.g. pure aluminium of 2.2 t/m<sup>3</sup> may be screened.

The screening machine is absolutely variable to the product and accelerating forces of up to 30g are possible!

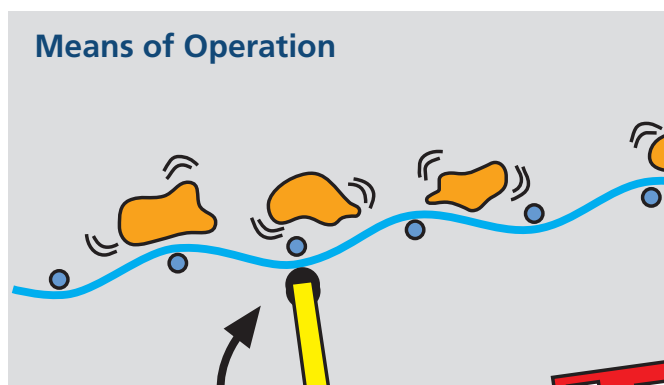
Due to a volatile increase of the speed frequency via the frequency converter a continuous purification of the screen mat is possible, similar to the pneumatical screen cleaning.



NC 2024 – Screening of Limestone



ND 2530 with Plexiglass Hoods - Screening of Wood Chips

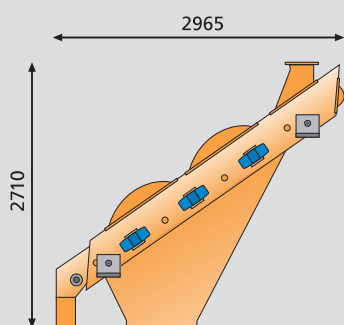


The screen frame itself, however, stays nearly static at all times so that no direct dynamic powers influence the sub-structure. Therefore, the completely dust-free machine needs only very little exhaust air for de-dusting.

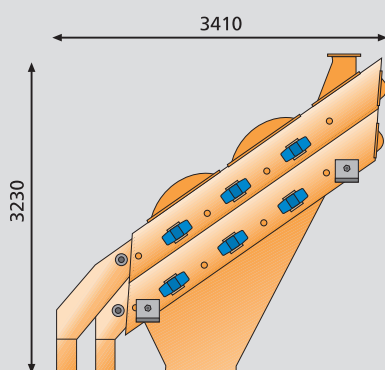
## Model Variety

Available in screen lengths of literally 2.4 to 4.8.

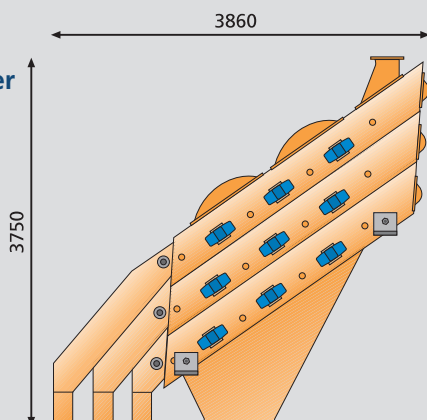
### Type NE Single Decker



### Type ND Double Decker



### Type NC Triple Decker



## Easy to Maintain

The conceptual design of the Fine Sizer is very “low-maintenance”. Large inspection openings enable easy exchange of the screen mats and a surveillance of the screening process. The wedge connections for the GRP-hoods are equipped with a captive wedge.

## Double Security

The engine output of one motor vibrator is only 0.14 kw, i.e. for a screening machine of 1500 x 4800 mm designed as double decker, the total output is only 3.36 kw!

For smaller units of 0.5 and 1 m width, one motor is sufficient. Machines with widths of 1.5 to 2.5 m are equipped with two motors. This offers higher working safety; at the failure of one motor, approx. 60 – 70 % acceleration is still possible.

Furthermore, various proven options, like screen heating, screen break surveillance, stainless-steel constructions, interior heating, etc. are available from the established SIZER technique.

One original machine in the 3-deck version is ready to be tested in our plant with your material, free of charge.



ND 2530 – Screening of Wood Chips, Cutting and Sanding Dust

| Sizer Type  | Material              | Feed rate t/h | Fraction 1   | Fraction 2 | Fraction 3  | Fraction 4 |
|-------------|-----------------------|---------------|--------------|------------|-------------|------------|
| NE 1524     | Anode remains         | 28            | 0 - 0,5      | 0,5 - 3,5  |             |            |
| NC 2524     | Chalk stone           | 22            | 0 - 0,5      | 0,5 - 1,25 | 1,25 - 3,15 |            |
| NE 1524     | Coal                  | 20            | 0 - 0,4      | 0,4 - 3,0  |             |            |
| NC 1524     | Dolomite              | 17,5          | 0 - 0,3      | 0,3 - 0,5  | 0,5 - 0,9   | 0,9 - X    |
| ND 1524     | Fine salt             | 30            | 0 - 0,2      | 0,15 - X   |             |            |
| NE 1024     | Gypsum                | 35            | 0 - 1,5      | 1,5 - X    |             |            |
| ND 2530     | Shell limestone       | 165           | 0 - 0,6      | 0,6 - 1,2  |             |            |
| ND 0524     | Herbage               |               | Various Aims |            |             |            |
| NE 2024     | Kaolin                | 9             | 0 - 0,25     | 0,25 - X   |             |            |
| NE 1548     | Lava sand             | 30            | 0 - 1,0      | 1,0 - X    |             |            |
| NE 2548 (H) | Lava sand             | 50            | 0 - 1,0      | 1,0 - X    |             |            |
| NC 2024     | Limestone             | 45            | 0 - 0,7      | 0,7 - 1,8  | 1,8 - 3     |            |
| NC 1024     | Limestone             | 15            | 0 - 0,2      | 0,2 - 0,6  | 0,6 - 2,0   | 2,0 - X    |
| ND 1024     | Limestone             | 12            | 0 - 0,5      | 0,5 - 4,0  |             |            |
| NE 1548     | NPK/Urea              | 200           | 0 - 4,0      | 4,0 - X    |             |            |
| NC 2548     | Potash                | 75            | 0 - 0,25     | 0,25 - 2,0 | 2,0 - X     |            |
| NC 1024     | Quartz sand           | 8,5           | 0 - 0,1      | 0,1 - 0,3  | 0,3 - X     |            |
| NC 2524     | Rock salt             | 50            | 0 - 1,12     | 1,12 - 2,0 | 2,0 - 10,0  |            |
| NC 1524     | Salt resin            | 22,5          | 0 - 0,25     | 0,25 - X   |             |            |
| ND 1024     | Sand                  | 20            | 0 - 0,26     | 0,26 - X   |             |            |
| NE 1024     | Scrap metal           | 10            | 0 - 1,5      | 1,5 - X    |             |            |
| NC 1024     | Slag                  | 20            | 0 - 1        | 1 - 15     |             |            |
| NC 2024     | Slag                  | 40            | 0 - 1        | 1 - 15     |             |            |
| NC 2530     | Wood and sanding dust | 8             | 0 - 0,5      | 0,5 - 1    | 1 - 10      |            |
| ND 2024     | Wood chips            | 6             | 0 - 0,8      | 0,5 - 10   |             |            |
| ND 2524     | Wood chips            | 40            | 0 - 1        | 1 - 2      | 2 - 15      |            |

NE = Single Decker · ND = Double Decker · NC = Triple Decker · (H) = Screen Deck Heating



Drive unit of the bar



FINE SIZER in the upper part of the hopper building for limestone screening



Screen mat with plastic protection within the area of the blow bars



Control cabinet with frequency converter and interval cleaning

The FINE SIZER is flexible due to variable oscillation, frequency and slope and suitable for various products; it combines high operational capacity with a minimum of power consumption.

**Tell us your screening problem, we have the solution.**



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IN  
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