ALLGAIER
Allgaier-Group

MSizer extend

The new dimension of screening



INNOVATION

ALLGAIER PROCESS TECHNOLOGY · MOGENSEN · GOSAG · MOZER · ALMO

MSizer extend –
The new dimension of screening

Economical – efficient – environmentally friendly

With the new MSizer extend, the Allgaier-Group ushers bulk material screening into a new era.

The MSizer extend is based on the same Sizer principle developed and proven by Fredrik Mogensen more than five decades ago. The MSizer extend combines state-of-the-art technology with decades of extensive knowledge and expertise.

The result is an even more accurate screening process with increased throughput in a smaller footprint.

High efficiency with significantly reduced operating costs:

- up to 20% reduced energy consumption
- shorter set-up times
- simple screen replacement requiring only one person
- outstanding price/performance ratio

Maximum plant availability:

- EasyMount with mix-up safe assembly coding – quick changeover of attached components such as motors
- automatically adapting screen tension
- maximum operational safety by FEM-optimized, heavy-duty construction
- long-term testing under maximum load
- in-line visual check of the screening process

Extensive accessory:

- integrated screen vibration monitoring
- extensive, user-specific screen cleaning options
- screen deck heating

Adaptation to your needs:

- optimized hexagonal outlet hoods
- fail-safe plug interface for motor connection
- designed for standardized transport dimension, standard container up to 2 m machine width
- perfectly integrated with the entire Allgaier portfolio



View MSizer extend, hexagonal outlet hoods

MSizer extend
The new Sizer principle

The MSizer extend is the most powerful and versatile classifier machine according to the Sizer principle. The machine combines economic and operating efficiency benefiting from a new screen deck concept with a modified angle of inclination of the screens. The two to six screen decks of the MSizer extend considerably reduce screen replacement times thanks to the fast screen changing mechanism.

The MSizer screen linings move in a defined oscillation pattern in the newly designed compact housing using vibration motors or exciters. With the precisely adapted oscillation range, the fine grain of the feed material quickly flows, almost vertically downwards, while the coarse grains are efficiently screened from the material stream.

Clogging is effectively eliminated with a significantly increased throughput. Unlike conventional flat and ejecting screens, the mesh sizes of the MSizer extend are designed to be larger due to the optimized screen pitch which promotes superior grading quality. The increased mesh size – compared to the separate particles – counteracts the formation of material layers and plugged particles, leading to a significantly higher throughput and service life of the screen linings.

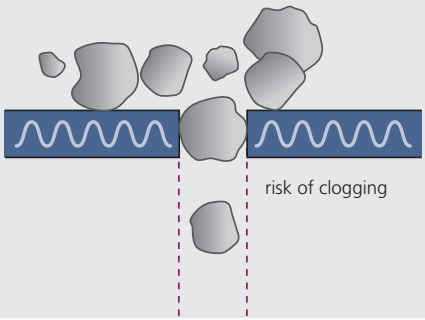


Sophisticated and proven Sizer technology in industrial applications

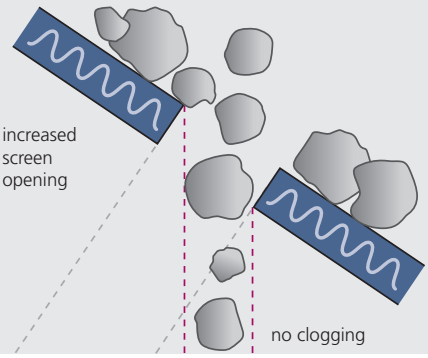
Your advantages:

- highest economic efficiency
- reduced total cost of ownership
- increased material throughput with small space requirement
- high grading quality for perfect process results
- fully integrated with the entire Allgaier portfolio

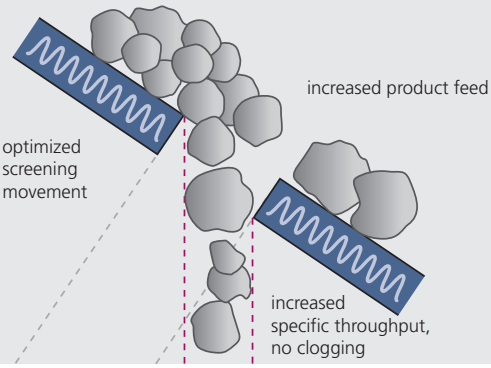
Conventional screening technology



Traditional Mogensen Sizer Technology



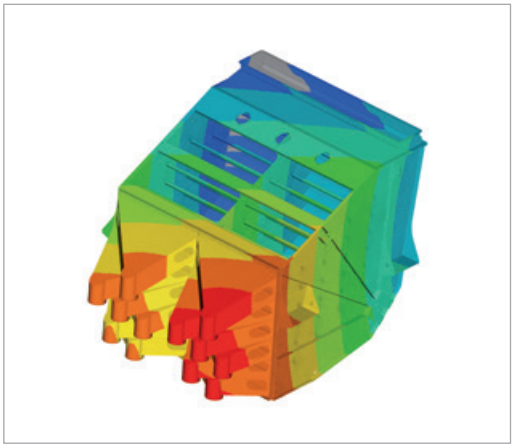
MSizer extend: The new dimension of screening

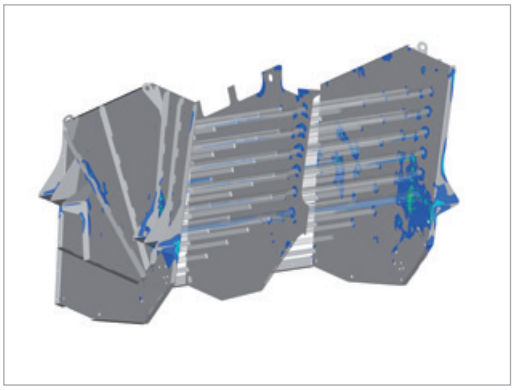


The Mogensen Sizer principle newly defined with modern methods

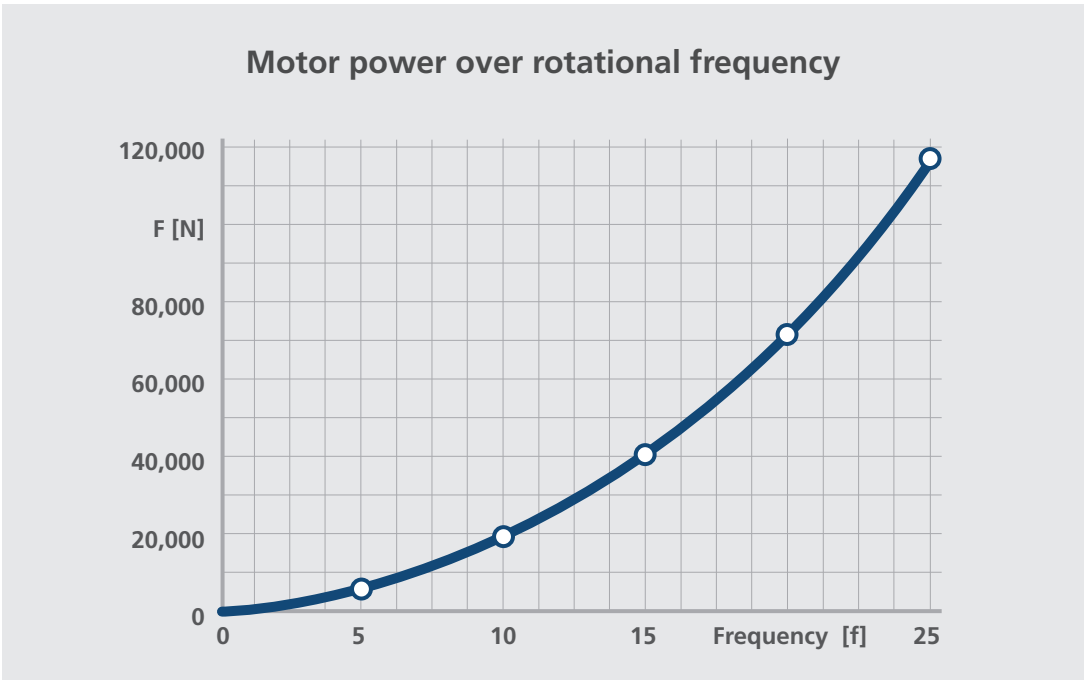
For the development of the new MSizer extend, the latest development methods have been used to optimize the design. A complete finite element analysis of all structural obstacles were simulated with virtual prototypes and thoroughly tested while under continuous operation.

The MSizer extend is the new generation of Sizer that drastically minimizes the risk of failure, ensuring safe and trouble-free production in all areas of operation.





FEM optimized design



MSizer extend: Cost-minimized motor design

MSizer extend in operation
Economical – efficient – environmentally friendly

MSizers can be used in almost all industrial sectors. Decades of Sizer experience, in combination with the new features of MSizer extend, ensure long-term confidence in your investment.

The correct size for your application

MSizer extend, with screen lengths up to 2.4 m and machine widths between 1 m and 3 m allow for the ideal configuration for every application.

The machine size dependents on the type of screened material, the desired particle class and the required feed rate.

Due to the multideck construction, the machine sizes are significantly smaller than in conventional screening machines.

MSizer extend features:

design L
movement ..... linear
effective screen length ..... 2.4 m
screen deck width ..... 1.0 to 3.0 m
number of screen decks ..... max. 6
number of motors 2

Your advantages:

- very compact design size
- high process flexibility
- simple and safe handling
- high availability
- innovative accessory

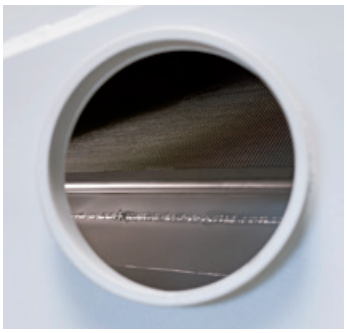
Options:

- machine monitoring
- ATEX design
- screen lining heating

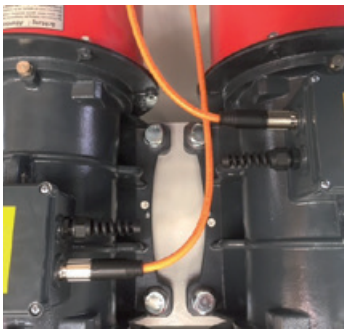

Screen tension monitoring system


Unbalanced exciter


Optimized outlets


Superior manufacturing quality


In-line visual check


Unidirectional drive connection

Unlimited application range

Stones and soil

- sand
- stone chips
- gravel
- stones
- soil
- bauxite
- basalt
- lime stone
- magnesite
- dolomite

Metallurgy

- iron ore, nickel ore, manganese ore
- aluminum oxide
- slag

Ceramics

- ceramic
- magnesite quartz
- salts

Wood/particle boards

- wood chips
- wood flour/wood powder

Chemicals

- fertilizer
- solid chemical products
- silicon carbide
- titanium dioxide
- zinc oxide
- cupric sulfate

Waste/recycling

- glass
- household waste
- plastic recycling
- pellets (biofuel)

Foodstuffs

- sugar
- animal foodstuff
- hazelnuts
- cocoa beans
- milk powder

Others

- coal (anthracite)
- cement (gypsum)
- coke/charcoal
- clay
- chalk
- bone meal
- fish meal
- fly ash
- cork
- asphalt pieces
- tobacco
- silica gel
- sea salt

- and many other solid bulk materials.









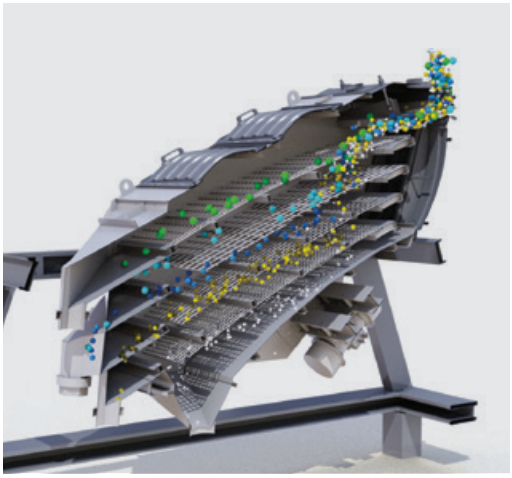

Convince yourself – during your test screening in our technical center

Convince yourself of the quality and the advantages of the new MSizer extend in our technical center in Wedel.

Not only will you learn about the MSizer extend capabilities with your products, but we also accompany you in the smooth implementation of the MSizer into your planned processes and in the integration into existing systems.

We are at your disposal with our over 50 years of experience and look forward to welcoming you to our technical centers.

Convince yourself of the new MSizer extend – we look forward to your visit.



Efficient Sizer principle



Ease to maintain screen replacement



MSizer extend short before use

ALLGAIER
Allgaier-Group

ALLGAIER Process Technology GmbH

Ulmer Str. 75
73066 Uhingen
Germany
Phone: +49 7161 301-175
Fax: +49 7161 34268
process-technology@allgaier.de

Mogensen GmbH & Co. KG

Kronskamp 126
22880 Wedel
Germany
Phone: +49 4103 8042-0
Fax: +49 4103 8042-40
info@mogensen.de

Fredrik Mogensen AB

Sveavägen 26
54421 Hjo
Sweden
Phone: +46 503 323 40
Fax: +46 503 13878
info@mogensen.se

Allgaier Mogensen S.A.U.

C/ Téllez, 24 - Oficina 4A
28007 Madrid
Spain
Phone: +34 91 5776277
Fax: +34 91 5757495
info@almo.es

Allgaier Process Technology, Inc.

Ohio Office:
8849 Brookside Ave., Suite 101 | West Chester, Ohio | 45069 USA
Utah Office:
942 E North Union Ave., Suite A201 | Midvale, UT | 84047 USA
Phone: +1 513 453 6990
www.allgaierprocess.com
info@allgaierprocess.com

www.allgaier-process-technology.com

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