

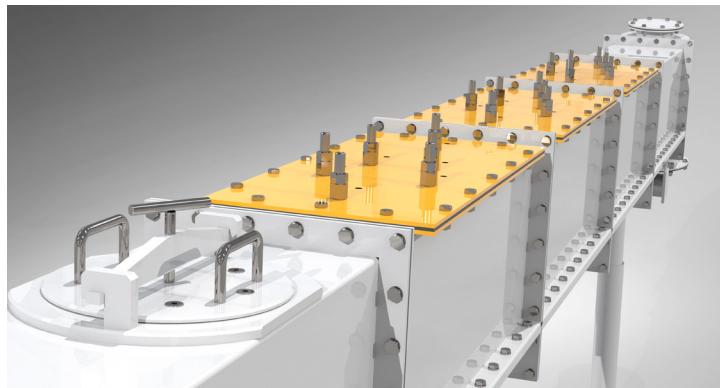


FLUIDAL MIXER / BKFM

MIXING

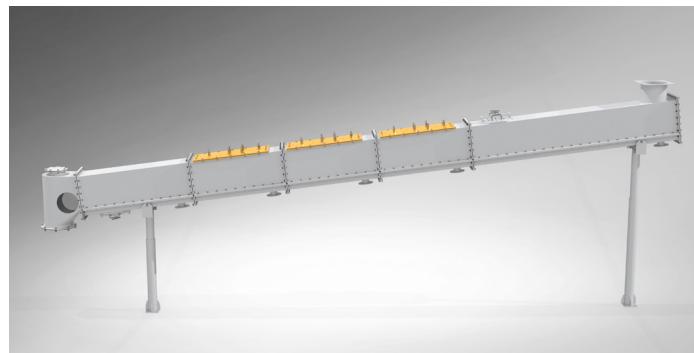


Mixers for powders and granulates are an integral element of many industrial production processes, influencing the quality of the final product and the efficiency of the production itself. Mixing is one of the basic processes in bulk materials technology. At the same time, it is the most difficult, especially for heterogeneous materials and for the requirement of a continuous process. Choosing the right mixer is crucial, and the variety of solutions available on the market may make it difficult to decide which device to choose.



As a manufacturer of mixers for bulk materials, we adapt each solution to the needs of various industrial industries. Biko-Serwis is always looking for the most economical solutions, which is why - whenever possible - we fluidize the material. BKFM mixers operate on the fluidization principle, using a stream of air or gas to keep the powders in a fluidized state. This allows for efficient mixing of materials because the powder particles are freely carried and mixed in the stream.

The use of fluidization in the mixing process also results in less abrasion than other stirred mixers, which, combined with extremely short mixing times, results in less product degradation as well as lower temperatures. This is important for materials sensitive to heat generated by the friction of material particles.



Fluidal mixers are simple and effective devices used for mixing loose materials, mainly in the food and construction industries.

BKFM series devices are recommended for mixing materials: powders and flours with low to medium density ($\leq 800 \text{ kg/m}^3$).

Biko-Serwis BKFM series fluidized bed mixers do not have moving parts and achieve extremely low operating costs due to the lack of the need to prepare portions of material/raw material for mixing.



MANUFACTURING MATERIALS:



CARBON
STEEL



STAINLESS
STEEL



ACID-RESISTANT
STEEL

FINISHING OPTIONS:



SPRAY
PAINTING



EXTRA
SEALING



EYEHOLE /
VIEWFINDERS



BIKO-SERWIS
www.bikoserwis.pl

Biko-Serwis Sp. z o.o. Sp. K.
ul. Zakładowa 13
26-052 Nowiny k. Kielc

www.bikoserwis.pl
e-mail: biuro@bikoserwis.pl
phone: +48 (0-41) 315 30 20

NIP: 656-100-23-24
REGON: 290497085
KRS: 0000388890

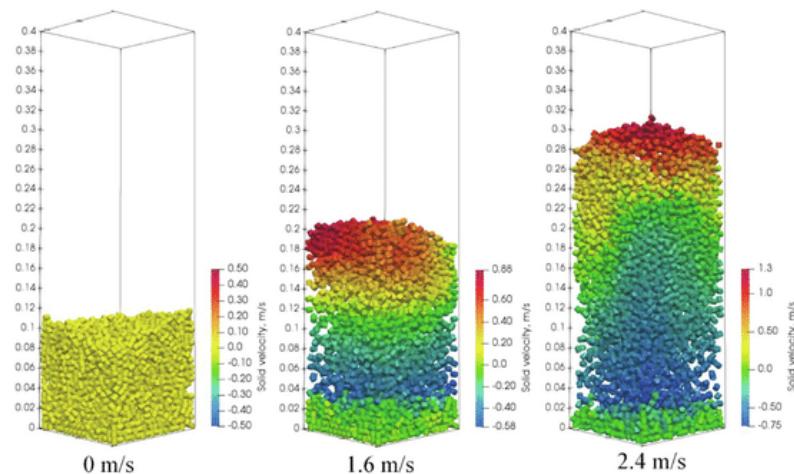
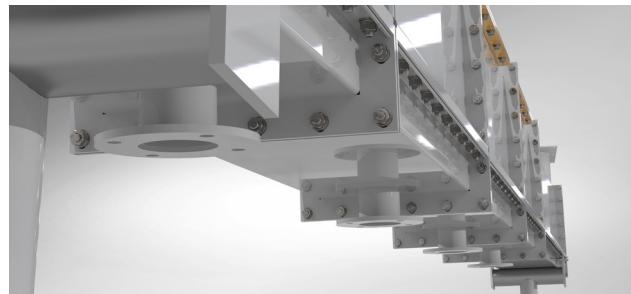


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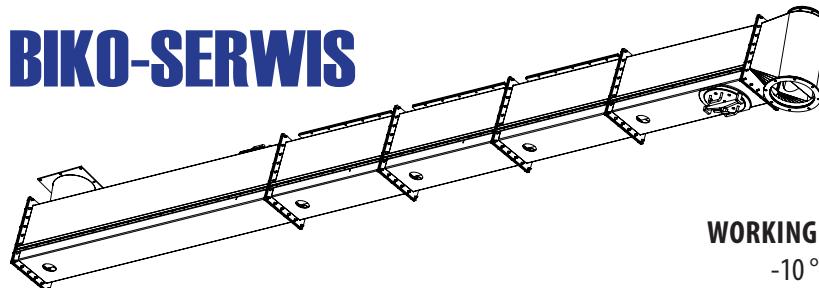
By using the discrete element method (DEM) to simulate the homogenization process of bulk materials, we can analyze the degree of mixing of various materials - exactly those that will be used in your production line.



ADVANTAGES OF USING BIKO-SERWIS FLUIDIZED BED MIXERS:

- free movement of particles
- easy to clean and hygienic design with a minimum of blind corners
- low maintenance and service costs
- low demand for electricity

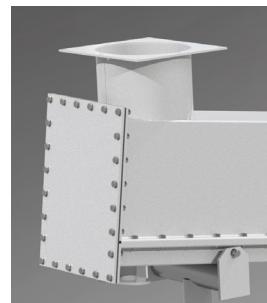
BIKO-SERWIS



WORKING CONDITIONS:

WORKING TEMPERATURE:
-10 °C to +50 °C

**MIXING MEDIUM
TEMPERATURE:** < 80 °C



If you are interested in our mixer or need advice in choosing the appropriate technological solution, please contact us. As experts in the field of bulk materials, we are ready to help you achieve maximum process efficiency and product quality in the process of mixing loose and powdered substances.



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www.bikoserwis.pl

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ul. Zakładowa 13
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