



BATCH MIXERS / BKBM

MIXING

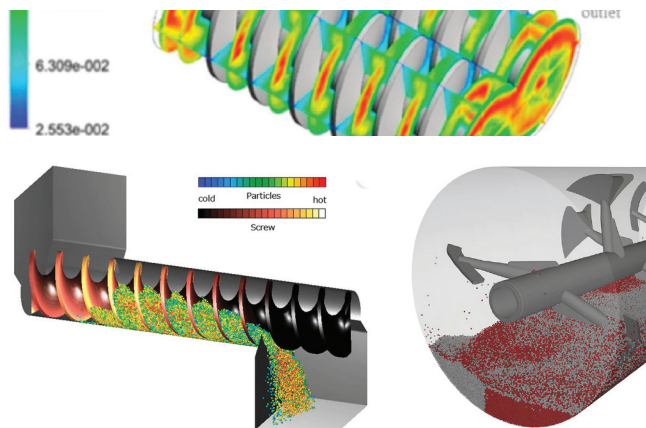


Batch mixers meet all the requirements of BIKO-SERWIS Customers in terms of high quality and precision of mixing during periodic processes, which are aimed at optimizing the efficiency of the technological line. Wherever the highest possible quality of the mixture and optimal process efficiency are required, the use of BKBM series batch mixers is recommended.



Mixers for batch operation with full opening are used in almost all industries: construction, food, chemicals, animal feed production, etc.

Batch mixers are ideal devices for achieving the highest quality mixtures while maintaining repeatable raw material inputs. The construction of batch mixers is simple, but the mixing process itself is quite complicated.



Plow or shovel-type paddle tools rotate in a special arrangement on the mixer shaft in a horizontal, cylindrical drum. The result is swirling of the mixture, which constantly draws all the product particles into the mixing process. The creation of dead spots or slow movement in the mixing drum is avoided, ensuring thorough mixing of raw materials. In some cases, separately driven high-speed knives can be installed to achieve the required mixing effect.

PRODUCTION MATERIALS:



CARBON
STEEL



STAINLESS
STEEL



ACID-RESISTANT
STEEL

FINISHING OPTIONS:



SPRAY
PAINTING



EXTRA
SEALINGS



VIEWERS /
VIEWFINDERS



BIKO-SERWIS

The operation of a horizontal single-shaft mixer for batch operation is based on the principle of mechanical fluidization of the mixed product.

The special shape, position and rotation speed of the mixing tools generates a centrifugal rotational movement, which allows the material to be moved three-dimensionally and combined with other materials. This ensures that ingredients with different particle sizes and bulk densities are perfectly homogenized and mixed with high precision in the shortest possible time.



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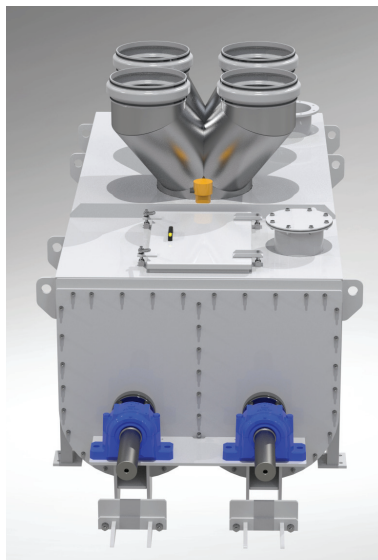
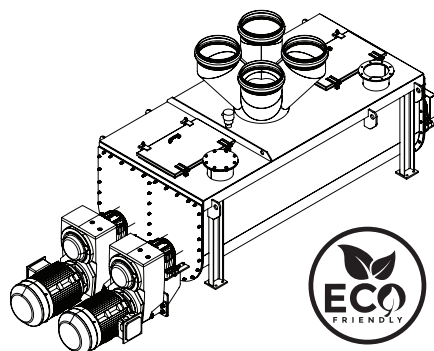
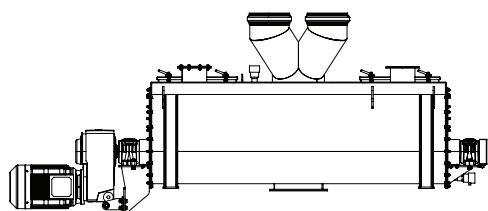
Batch type mixers are used for mixing dry powders, granules or short fibers, for wetting, caking and granulating the same materials, or for mixing low viscosity liquids and pastes. An outlet opening along the entire length of the mixing drum ensures almost complete emptying of the product from the mixer in the shortest possible time.

FEATURES:

- capacity: 10 to 20,000 liters per rotation
- mixing ratio: 1/100,000
- coefficient of variation (CV): 3 to 5%
- possibility of adding up to 20% liquid
- end bearing assemblies with various types of air/gas or grease sealing shaft seals
- high-performance mixing chamber made of carbon steel, abrasion-resistant steel or 304L/316L stainless steel
- stainless steel surface finishing: sandblasting, polishing, glass blasting
- wide range of mixing tools (plow, toothed plow, paddle, toothed paddle) available on request with wear-resistant coatings

BENEFITS OF USING BKBM MIXERS:

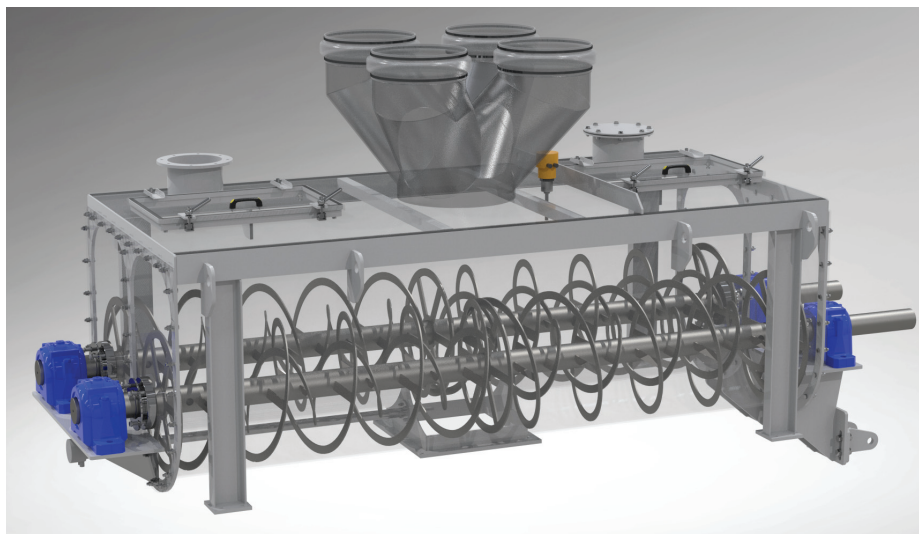
- no damage or deterioration of product quality
- easy maintenance
- durable machine
- rated power appropriate to the application
- easy cleaning and access to all internal components of the mixer
- know-how and mixing research facilities



AVAILABLE FINISHING OPTIONS:

- special design of abrasion-resistant surfaces (non-abrasion lining, abrasion-resistant coating with easily replaceable plates, ceramic lining, Teflon® lining, stainless steel mesh)
- high-speed mixer
- liquid injection devices
- pneumatic sampling device
- pneumatic control panel
- mixing chamber with heating/cooling jacket
- mixing chamber with jacket and PT 100 temperature sensor

BIKO-SERWIS



MODEL:	RIBBON/S DIAMETER:	INDICATIVE EFFICIENCY:	DRIVE POWER:
BKBM 160	160 mm	10 m ³ /h	2 x 3 kW
BKBM 200	200 mm	25 m ³ /h	2 x 9 kW
BKBM 300	300 mm	60 m ³ /h	2 x 15 kW
BKBM 500	500 mm	100 m ³ /h	2 x 22 kW
BKBM 600	600 mm	max 150 m ³ /h	2 x 30 kW