BHS Single-Shaft Continuous Mixer

intense mixing of dry/moist fine materials



continuous economical efficient



The BHS Single-Shaft Continuous Mixer MFKG

Important Features

Competence

In 1888, the first mixer was fabricated by BHS in Sonthofen. Nowadays, BHS has become one of the world's leading manufacturers of batch mixers, which are predominantly used in the concrete industry. For more than 20 years, the company has also been producing continuously operating single-shaft mixing systems, which have proved their effectiveness in a broad range of applications.

Excellent Mixing Result

In the BHS Single-Shaft Continuous Mixer the materials to be mixed are accelerated to a great speed forming a highly turbulent material ring inside the mixing chamber. The mixing tools, which can vary in design and position depending upon the respective application, moreover create a shearing force to prevent any agglomeration of the solids. As a result, a constantly homogeneous mixing effect is obtained.

Self-Cleaning Rubber Trough

The mixing trough is configured as a flexible rubber jacket fixed in a steel frame. The gentle vibration and flexibility of the rubber trough prevent hardening and caking of material onto the trough sides. The flexibility of the mixer trough also prevents wear on the mixing tools. Less wear resistance also translates into reduced energy consumption.

Liquid Injection System

The liquid is introduced directly at the mixer inlet through special helical nozzles and sprayed as a fine mist over a wide area to effectively moisten the feed material in the inlet section already. As a result, the required mixing time is considerably reduced.

Large Maintenance Door

The rubber trough is split lengthwise, creating an easily accessible maintenance door on the mixer. Pneumatic springs or two hydraulic cylinders on larger models are provided to facilitate operation of the maintenance door.



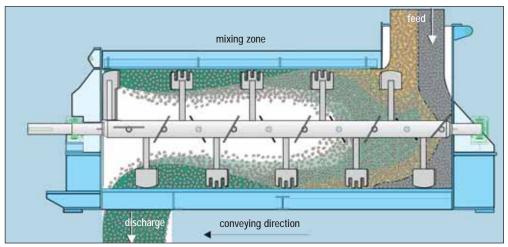
Throughputs up to 600 t/h





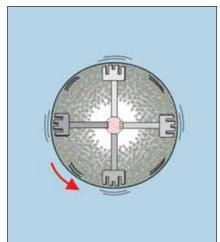
The Mixing Principle

Mixing Process



The BHS Single-Shaft Continuous Mixer with rubber jacket mixes the various components at a speed geared specifically to each application. A product ring is formed, in which the mixing tools are operating at a very high speed in relation to the material being mixed. The design of this mixing zone also allows to handle materials, which do not blend easily or which are added in widely different ratios.

Self-Cleaning Effect



The self-cleaning capability of the mixing trough represents an additional major benefit. The pulsating rubber jacket prevents hardening materials from caking on, thus allowing the mixer to continually clean itself while in operation.



Complete BHS Mixing Plant for continuous moistening of fine materials, installed at one of our customers in Southern Germany.

Continuous Weighing and Dosing Systems

solids/sludges gravimetric systems gravimetric flow meter double weighing system belt scale _____ solids/sludges volumetric systems screw feeder rotary valve feeder belt conveyor liquids flow control system _____

We can mix almost anything



Moistening of powdered limestone

The mixing process creates a dust-free and free-flowing product.



Conditioning of paper sludge

Paper sludge waste can be reused as an aggregate in the building industry.



Producing a fly ash slurry

The fly ash is made pumpable for underground disposal.



Moistening of fly ash and dust

Moistening will convert powdered waste products into building and/or backfill materials.



Treatment of sludge from waste incineration plants

Contaminants are immobilized by adding binders for landfill disposal.



Producing a coal slurry

A pumpable slurry is produced from the powdered coal prior to incineration in a power station.

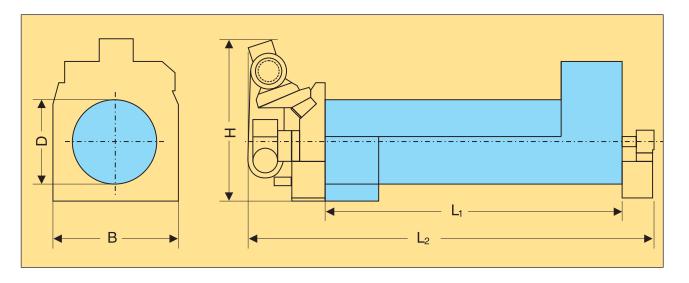
Technical Data

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Mixer Type	Through- put* t/h	Max. Aggregate mm	Max. Temp. °C	Drive kW	Weight kg	D mm	L ₁	L ₂	B mm	H mm
MFKG 0210	10	16	150	7,5	170	260	-	2400	-	415
MFKG 0313	10-20	24	150	22	900	350	1300	2100	800	1100
MFKG 0520	20-50	24	150	37	2500	530	2000	3100	1000	1500
MFKG 0728	50-100	32	150	45	3700	750	2800	3900	1200	1600
MFKG 1032	100-220	32	150	110	5800	1000	3200	4500	1600	2200
MFKG 1237	200-380	46	150	200	8500	1250	3700	5200	1800	2400
MFKG 1542	300-600	46	150	315	12000	1500	4200	6000	2200	2900

^{*} To select the suitable mixer type it is always necessary to indicate the bulk density of the components to be mixed.

Dimensions



All technical data may change due to technical progress. Subject to modification without notice.



BHS ... always the right mix!



How to find us:



Mixing test facility in Sonthofen

BHS Product Range:

Mixer

- Twin-Shaft Batch Mixer
- Twin-Shaft Continuous Mixer
- Single-Shaft Continuous Mixer

Mixing Plants

- Mobile Concrete Plants
- Stationary Concrete Plants
- Special Mixing Plants
- Plant Modifications/Retrofit

Crushing Technology

- VSI Rotor Impact Mill
- VSI Rotor Centrifugal Crusher
- Impact Crusher/Mill
- Rotorshredder

Processing Plants

- Aggregate Industry
- Recycling Industry

Service

- Mixing and Crushing Tests in our Factory
- Spare Parts/After Sales Service

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