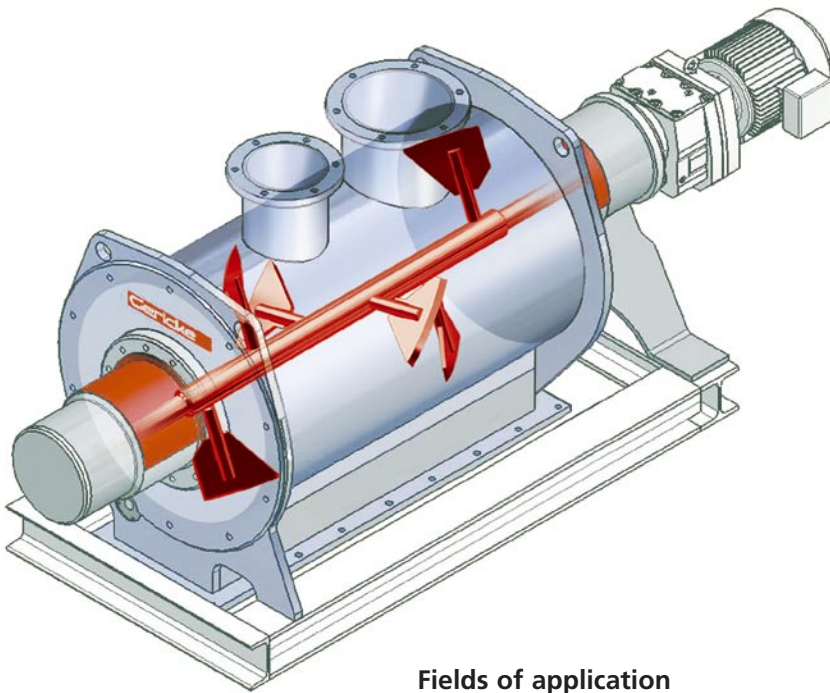


# Gericke paddle batch mixer type GBM

Universal mixer for powders, fibres granules, liquid injection and reaction

The GBM (Gericke Batch Mixer) mixer includes a single horizontal mixing rotor. The mixing paddles are designed for high homogeneity and mixing efficiency. With a comprehensive choice of options, the GBM can be configured for many different processes including reaction mixing.



## Fields of application

The mixing paddles rotate with variable speed. Froude numbers between 0.7 and 3.0 are reached. This mixer can therefore work in many different processes and working conditions.

## Features (including options)

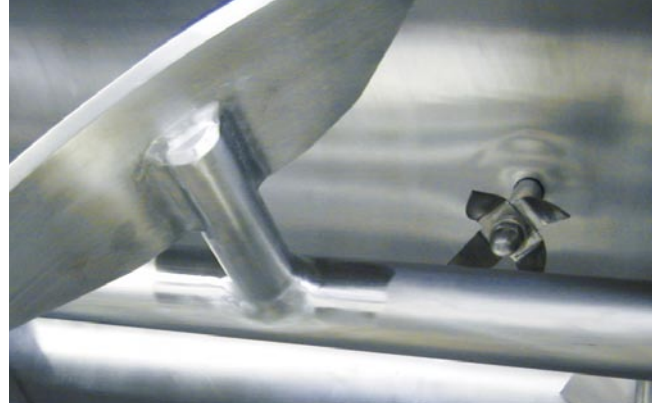
- Chamber design for an intense and complete mixing agitation of the bulk material
- Horizontal shaft with 4 full and 2 front paddles
- Paddles adjustable or welded on the shaft
- Adjustable rotor speed
- One or more lateral doors for a fast and simple cleaning
- Venting spigot or clamp for integrated dust filter
- One or more nozzles for liquid addition
- Choppers for delumping or granulation
- Double jacket for heating or cooling

	Mixing with liquid injection	Coating	Heat transfer	Drying	Reaction
Food	X	X	X	X	
Animal Feed	X	X			
Chemistry	X	X	X	X	X
Plastics	X	X	X	X	

## Applications

Chemicals, Agro-Chemicals, Detergents, Plastics, Dyestuffs, Pigments, Plaster, Rubber, Glue, Food, Construction Chemicals, Industrial and Sewage Sludge.

# Integrated batch mixing solutions



Rotor with paddle;  
"Tulip"-type delumper

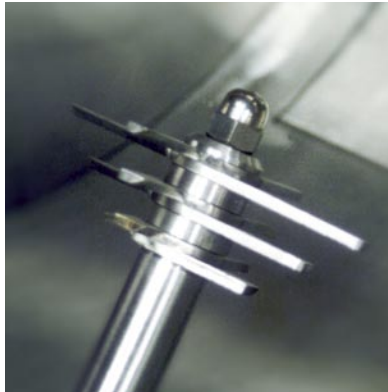
## Working principle

The rotating paddles divide and blend sequentially the mass of product and generate a quick and intense movement of each particle through the mixing chamber (convection). Due to the defined angle of the paddles, the mixer shows an excellent axial and radial dispersion.

Using choppers, additional energy is applied to the product to break up lumps and ensure the dispersion of any agglomerates or liquids. They are also used for granulation processes as well.

The mixing time depends on the desired process and the characteristics of products involved. For standard mixing applications the mixing time varies between 3–5 minutes.

For emptying, the product is transported to the outlet valve for a quick and complete discharge of the mixer.



"Knife"-type chopper

## Mixer Range

Type	Capacity Litre	Useful Volume (min. to max.)	
GBM 150	150	40	105
GBM 750	750	190	525
GBM 1500	1500	380	1050
GBM 3000	3000	750	2100

## Your benefit

- Universal mixer for various applications
- Robust design
- Process capabilities
- High throughput
- Good mixing homogeneity

## Options

- Rectangular standard or long outlet
- Different drives
- 1 to 4 delumpers
- 1 to 4 inspection and cleaning doors
- Double jacket for heat transfer (max. 180° C and 6 bar)
- Liquid injection kit
- Vacuum resistant execution
- Atex certification

## Trials

Our testing facilities enable you to carry out your own evaluations on mixing equipment, in batch or continuous modes. You can also evaluate pneumatic and mechanical conveying systems and feeding devices for loading the mixer and handling the finished mix.

Since it was established in 1894, GERICKE has specialised in the mixing of bulk solids. With ever more demanding customer requirements, improved materials and continuous research and development, we have created new advanced designs for both batch and continuous mixing.

# Gericke

## Powder Processing Equipment and Systems

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