



Superior mixing quality  
with the Gericke multiflux  
batch mixer GMS

**Gericke**

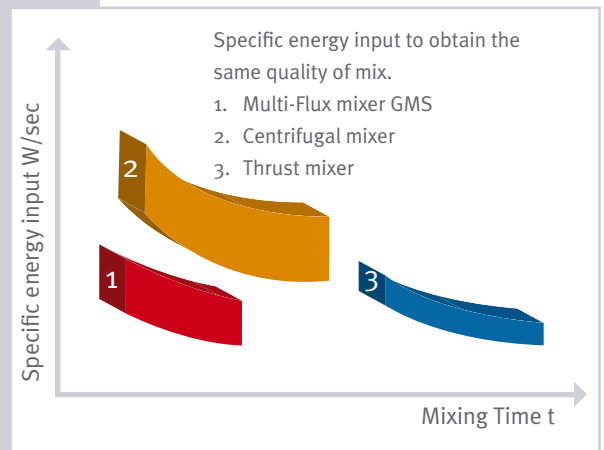
Powder Processing Equipment and Systems



# The successful concept behind the Gericke multiflux batch mixer

The design and functions of the GMS mixer have been tailored to meet the following requirements:

- Extremely gentle blending:  
As little abrasion as possible and no reduction in the size of the particles and agglomerates. Avoidance of undesirable product warming.
- Extremely short mixing cycle:  
Thanks to the short mixing and emptying time, the number of batches can be increased. Thus a small, space-saving and less expensive mixer can be used to achieve the same output.
- Hygienic design:  
Design and production quality suitable for hygienic processes and thorough cleaning
- Energy-saving production

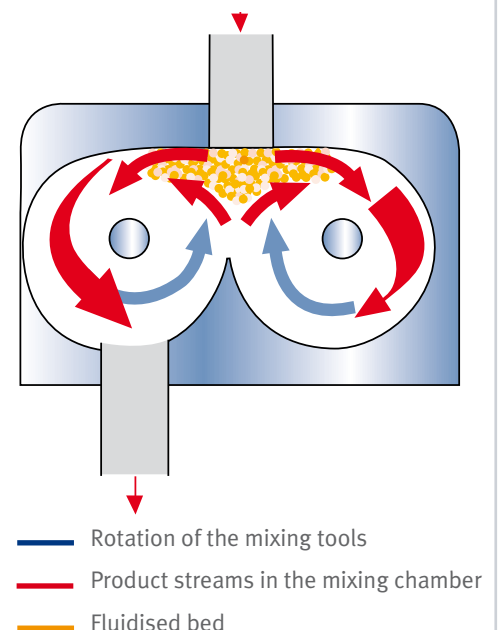


## The benefits of the GMS multiflux batch mixer

The Gericke multiflux batch mixer is designed for mixing products in the range of Froude number 1.1. The counter-rotating, horizontal mixing rotors generate a fluidised bed, and the double mixing tools create optimum product flow throughout the mixing chamber. Excellent particle exchange values result in perfect blending. The intermingling of the product streams in the suspension area and the constant separation of the streams ensure rapid, intensive distribution of the products in only 30 s.

All areas of the mixing chamber are easily accessible and free of dead space, all radii are rounded and metal seams are welded pore-free, making it ideally suited for applications in the food industry.

The GMS mixing concept with horizontal mixing chamber, double rotors and fluidised bed makes for extremely energy-saving operation.





# Gentle, quick and energy-saving

## Areas of application

The production of pesticides, fertilisers, powder coatings, pharmaceuticals, detergents, dental products, milk powder, cereals, iced tea, spices, dessert powders and premixing of construction chemicals and for catalysts and filters.

## Mixing functions

- Mixing of solids
- Addition of liquids: One or more nozzles spray liquid into the suspension area of the product.
- Granulation: Build-up granulation through gentle rolling of the components and spraying-on of binding agents
- Heating transmission: heating or cooling of the products by means of a heating jacket



## Benefit for the customer

- Highest mixing quality even with the smallest components below 0.05 % of the total mixing volume?
- Widely varying particles, agglomerates and fibres can be mix
- Fluidised bed zone for spraying on liquids without the formation of agglomerates
- High number of batches per hour means lower investment costs and space requirements
- Low maintenance and energy costs
- Available as ATEX Categories 1, 2 or 3
- Minimal increase in bulk density due to product breaking and protection of the particle surface
- Meets stringent hygiene requirements
- A safe investment, supported by references from satisfied customers and the evidence of scientific studies



## Cleaning concept

- Several large cleaning openings
- Polished surfaces, corner joints with radii and all sheet metal joints with pore-free seal weld
- 1-2 discharge flaps, optionally extended or removable
- CIP nozzles for wet cleaning possible
- Water drainage ports flush on the inside



## Specifications

| Type     | Capacity/<br>Litre | Useful volume/<br>Litre | Filling volume/<br>Litre |
|----------|--------------------|-------------------------|--------------------------|
| GMS 150  | 150                | 120                     | 40 - 120                 |
| GMS 300  | 300                | 240                     | 75 - 240                 |
| GMS 600  | 600                | 480                     | 150 - 480                |
| GMS 1200 | 1200               | 960                     | 300 - 960                |
| GMS 2000 | 2000               | 1600                    | 500 - 1600               |
| GMS 3000 | 3000               | 2400                    | 750 - 2400               |
| GMS 5000 | 5000               | 4000                    | 1250 - 4000              |

As standard, all parts of GMS mixers which come into contact with the product are made from stainless steel.

According to the system configuration, the GMS mixer can produce up to 12 batches per hour.

### Options

- Various discharge flaps (1 or 2, normal size or extended, hygiene model)
- Various cleaning apertures
- Lump breaker
- Available with pull-out mixing rotors for short cleaning cycles
- Versions of seals: Labyrinth seals with compression gland, lip seals with sealing air, quick-cleaning seal with plastic half-shells, removable, replacement O-rings pre-fitted

## See and test the mixer for yourself

Before purchasing a mixer, why not try out the Gericke multiflux batch mixer at the Gericke customer centre? At the same time, you can also test metering devices and pneumatic conveying systems for loading the mixer or transportation of the finished product. You can also see and try out for yourself how easy it is to clean and service the mixer.

### Switzerland ...

Gericke AG  
Althardstrasse 120  
CH-8105 Regensdorf  
Tel. +41 44 871 36 36  
Fax +41 44 871 36 00  
gericke.ch@gericke.net

### Germany ...

Gericke GmbH  
Max-Eyth-Strasse 1  
DE-78239 Rielasingen  
Tel. +49 77 31 929-0  
Fax +49 77 31 929 312  
gericke.de@gericke.net

### Great Britain ...

Gericke Ltd.  
Victoria House  
Cavendish Street  
GB-Ashton-under-Lyne  
Lancashire OL6 7DJ  
Tel. +44 16 13 44 11 40  
Fax +44 16 13 08 34 03  
gericke.uk@gericke.net

### France ...

Gericke SAS  
7, rue Guy Moquet  
FR-95100 Argenteuil  
Tel. +33 1 39 98 29 29  
Fax +33 1 39 82 29 74  
gericke.fr@gericke.net

### Netherlands ...

Gericke B.V.  
Zuiderinslag 18  
NL-3871 MR Hoevelaken  
Tel. +31 33 25 42 100  
Fax +31 33 25 42 600  
gericke.nl@gericke.net

### Singapore ...

Gericke Pte Ltd.  
436 Tagore Industrial Avenue  
Singapur 787813  
Tel. +65 64 52 81 33  
Fax +65 64 52 03 92  
gericke.sg@gericke.net

### China ...

Gericke (Shanghai) Pte Ltd.  
Suite 24D, Yandang Building  
No.107 Yandang Road  
Shanghai 200020, PR.China  
Tel. +86 21 538 201 08  
Fax +86 21 6372 4055  
gericke.cn@gericke.net

[www.gericke.net](http://www.gericke.net)

**Gericke**

Powder Processing Equipment and Systems