



Ploughshare<sup>®</sup> GMP Batch Mixer for pharma and food applications

- GMP compliant design
- Highest quality mixes in short mixing times
- Reliable reproducibility of the mix quality
- Gentle treatment of the product
- Low maintenance design
- Combined processes in one single machine
- Easy accessibility to all inside parts of the mixer

## Ploughshare<sup>®</sup> GMP Batch Mixer for pharma and food applications



Ploughshare® Batch Mixer GMP 600. The mixer can also be equipped with a heating/cooling jacket.

The Batch Mixer operates on the hurling and whirling principle introduced by Lödige to the mixing technology

of all product particles - preventing the formation

of extremely different bulk density and structure

achieved homogeneously and without demixing.

provide additional support of the mixing process.

depending on the product properties.

suitably adjusted mixing elements.

Sizes

can be mixed; even mixing in of aerosils for example is

The resultant individualisation of the particles in the mix

the particles with ease. If necessary, high-speed choppers

Ploughshare<sup>®</sup> Shovels can be modified for intensive and gentle mixing of fragile components even at low speeds.

Reducing the peripheral speed to <1m/sec is possible,

Pastes and pumpable mixtures can be processed with

(fluid bed) allows the addition of liquids and coating of

The mixing elements ensure constant and total involvement

of dead or low-movement zones. In that way, components

**Mode of Operation** 

and technical literature.

Special Ploughshare® Shovels



Schematic representation of the hurling and whirling principle

## **Range of Application**

Lödige Ploughshare®Mixers are used in almost every branch of industry for all types of applications. We have supplied more than 30000 machines worldwide in the last 70 years. Here is a short extract from applications in the food industry:

- Oven-ready flour mixes
- Baking powder
- Dried soups
- Stock cube mixes
- Flavourings
- Spice mixes
- Table salt
- Muesli
- Equipment

- Soluble cocoa drinks
- Soluble fruit drinks
- Sweets ingredients
- Chocolate ingredients
- Filling ingredients
- Cheese spread ingredients
- Vitamin mixes
- Decor sugar
- Crispy coating

Working Drum Working Type Drum Туре Volume (l) Capacity (I) Volume (l) Capacity (I) FKM 130 50-90 FKM 2000 800-1400 130 2000 FKM 300 100-210 FKM 3000 1200-2100 300 3000 FKM 600 600 200-420 FKM 4200 4200 1500-3000 400-850 FKM 1200 1200 FKM 6000 6000 2100-4200 FKM 1600 1600 550-1100 FKM 8000 8000 3000-5600

Further sizes up to a total volume of 30000 l available on demand.

Gebrüder Lödige Maschinenbau GmbH

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We develop tailor-made solutions optimally adapted to each of your applications and products for a long-term production.

GMP-GLP20120 The individual implementation of your requirements - in terms of design too - and their technical realization are our competence and strength. ġ

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## LÖDIGE – ALWAYS THE RIGHT MIX

- Tea mixes

Lödige

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