



# Mixing Technology



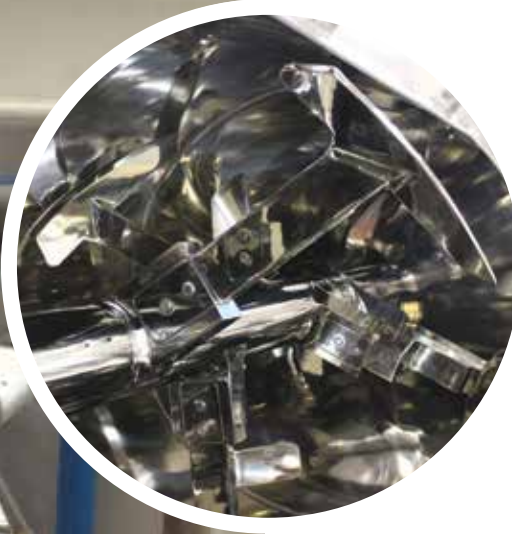
Since the 1980s, MAP® has developed a unique range of Mixers which meets the requirements of every user offering a professional solution for virtually every demand from the market.

The main focus of MAP® is on providing industrially manufactured, top quality products at an attractive price.

**The most  
suitable  
solutions for  
every mixing  
task**



To achieve consistent product quality MAP® applies the appropriate mixing technology for a specific application:



Mixing  
Homogenising  
Moistening  
Coating  
Crumbling  
Drying  
Granulating  
Solidifying  
Cooling  
Heat treatment  
and more.....

Foods

Plastics

Minerals

Cosmetics

Chemicals

Metallurgy

Animal Feed

Organic Materials

Pharmaceuticals

Building Materials

Environmental Technology

Profound knowledge of mixing and process technology enables MAP® to identify the most suitable solution for any application to virtually all industries.



# Expertise you can rely on

Extensive testing in MAP®-owned laboratories all over the world and a vast field of applications are the foundation of specific process competence gained on the job. MAP®'s solutions ensure durability of mixing vessels and tools, compliance with international quality and safety standards, as well as professional after-sales service.

MAP® is the ideal choice to match market needs in terms of quality, price, maintenance, safety and environmental protection. All MAP® products are manufactured from tried and tested standard components.

The main focus of MAP® is on offering industrially manufactured top quality products at an attractive price. WAMGROUP®'s worldwide sales and service network guarantees professional and competent advice on the spot, as well as smooth order management and prompt spare parts supply.

We consider our customers as our partners. Teaming up with our clients in problem solving is crucial to MAP®.

Attractive Price .....



... Safety

After-Sales Service .....







Quality

Environmental Protection

Competence

Innovation

Global Sales Network

# Test facilities

Our state-of-the-art test laboratories include equipment and accessories which enable us to perform mixing tests with a variety of bulk materials. The experimental arrangements provide maximum simulation of real industrial processes. Test procedures follow the logic of real applications in genuine operating conditions.

Our competent staff will be delighted to assist you in carrying out custom-designed tests according to your individual requirements. The test results are captured on HD video, while test samples are stored in our lab archives for internal reference.



**Compare several machines**

**Check machine performance**

**Minimise business decision risks**

**Develop and test innovative products**

**New product mixing tests and analyses**

**Find the best process technology and machine configuration**







# 01 In-house Development and Manufacturing



All our products are developed, tested, manufactured and installed by our own staff. It is our aim to provide total assurance in terms of quality and delivery time.

- Certified manufacturing processes
- Standardised components and production methods
- Vast experience in selecting materials and components
- State-of-the-art production



01



02



03

# 02 Commissioning and Service



- Qualified and reliable installation, start-up and maintenance service
- Qualified operator training
- Compliance with relevant safety standards
- Machine rental service

# 03 Spare Parts



A worldwide service concept ensures continuous long-term use of your investment. Nevertheless, our machines and equipment are developed for long life cycles. They excel through a particularly low requirement on maintenance. A large number of machines have been operating for more than 30 years. Our perennial target is to provide all spare parts within a reasonable period of time.





HIGH

QUALITY  
LEVEL



## WBHV

### Batch-type Single Shaft Mixers

- Single shaft ploughshare, blade-type or paddle tools
- Net capacity from 20 to 17,500 litres per batch

# PRODUCT RANGE



## WBHT – WBHP

### Batch Mixers with 60° or 15° Bomb-bay Discharge Door

- Single shaft ploughshare, blade-type or paddle tools
- Net capacity from 150 to 10,500 litres per batch



## WAHV - WAHF

### Continuous Single Shaft Mixers

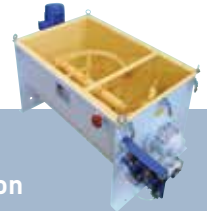
- Capacity from 0.2 to 1,000 m<sup>3</sup>/h
- Single shaft ploughshare, blade-type or paddle tools



## WBN

### Tubular Batch-Type Ribbon Blenders

- Extra heavy-duty single shaft tubular ribbon blender
- Net capacity from 20 to 17,500 litres per batch



## WBR

### Batch-type Ribbon Blenders

- Single shaft U-trough blender
- Net capacity from 20 to 4,800 litres per batch



## MLH

### Laboratory Mixers

- Single shaft ploughshare, blade, paddle or ribbon screw, mixing and blending tools
- Net capacity from 1.5 to 38 litres



## MESC

### Twin Shaft Paddle Mixers & Dust Conditioners

- Twin shafts with paddles
- Capacity from 3 to 90 m<sup>3</sup>/h



## DUSTFIX® CLAYGRAN® WETDUST®

### Dust Conditioners

- Single shaft conditioners with special chamber and tools
- Capacity from 5 to 80 m<sup>3</sup>/h



## FEEDMIX®

### Molasses Mixers

- Single shaft continuous molasses mixers with special mixing chamber and tools
- Capacity from 10 to 40 m<sup>3</sup>/h
- Mixtures with up to 20% of molasses



## WETMIX®

### Mortar Mixers

- Single shaft mixers with special mixing chamber and tools
- Capacity from 0.5 to 6 m<sup>3</sup>/h



## PREMIX®

### Mortar and Cement Slurry Mixers

- Single shaft with special chamber and tools
- Net capacity 80 m<sup>3</sup>/h

# Committed to problem solving

We are committed to providing product specialisations, accessories, options and specific process know-how that ensure solutions tailored to users’ needs.

		<div>E</div> EXCELLENT	BATCH MIXERS					CONTINUOUS MIXERS			
		<div>G</div> GOOD									
		<div>P</div> POOR	WBH	WBHT	WBHP	WBN WBR	MLH	WAH WAHF	MESC	PREMIX®	DUSTFIX® CLAYGRAN® WETDUST®
INDUSTRY	Building Materials		E	E	P	P	E	E	P	E	E
	Premixed Materials		E	E	P	P	E	E	P	G	P
	Foods		E	E	G	E	E	E	P	P	P
	Milling		E	E	E	E	E	E	P	P	P
	Animal Feed Milling		E	E	E	E	E	E	P	P	E
	Petfood		E	E	G	G	E	E	P	P	E
	Chemicals		E	E	G	G	E	E	P	P	P
	Fertilizers		E	E	P	G	E	E	G	G	E
	Plastics		E	E	G	E	E	E	P	P	E
	Cosmetics		E	E	P	G	E	E	P	P	P
	Pharmaceuticals		E	G	P	P	E	E	P	P	P
	Environmental Technology		E	P	P	P	E	E	E	E	E
	Recycling		E	E	P	G	E	E	E	E	E
	Minerals		E	E	P	P	E	E	P	P	G
MATERIAL	Abrasive Materials		E	E	E	P	E	E	E	E	E
	Brittle Materials		E	E	E	E	E	E	G	P	P
	Chips		E	E	E	E	E	E	G	P	P
	Emulsions		E	E	E	P	E	E	G	E	E
	Fibrous Materials		E	E	E	G	E	E	E	P	G
	Fragile Materials		E	E	E	E	E	E	G	P	P
	Large Variance in Particle Size		E	E	E	G	E	E	G	E	E
	Pastes		E	G	G	E	E	E	P	E	E
	Pellets		E	E	E	E	E	E	P	P	G
	Dry Powders		E	E	E	E	E	E	E	E	E
	Powder + Liquid		E	E	E	P	E	E	E	E	E
	Slurries		E	G	P	P	E	E	E	E	E
	Sticky/Tacky Materials		E	E	P	P	E	E	E	E	E
EQUIPMENT REQUIREMENT	Bomb-bay Discharge		E	E	E	G	E	E	E	E	E
	Gentle Blending		E	E	E	E	E	E	E	G	G
	Low Maintenance		E	E	E	E	E	E	E	E	E
	Low Energy Consumption		E	E	E	E	E	E	E	E	E
	Low Investment		E	G	G	E	E	E	E	E	E
	Rapid Blending		E	E	E	G	E	E	G	E	E
	Rapid Sanitizing		E	G	G	E	E	E	G	G	G
	Uniform Blending		E	E	E	E	E	E	G	G	G
	Uniform Liquid Addition		E	E	E	P	E	E	G	E	E



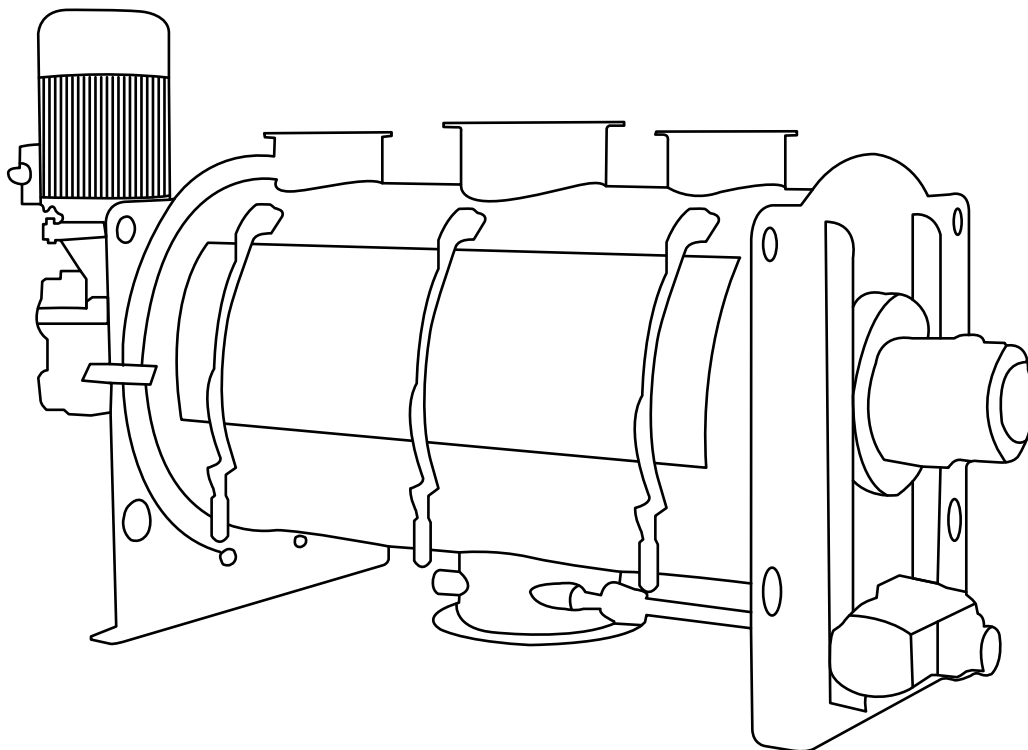


## **Perfect match between product and application**

We design our machines according to our customers' process requirements.

To comply with the demands of a variety of industries we offer our mixers in different designs, along with a wide choice of accessories.





Large inspection door and easy-to-clean interior



Teflon® liner



Bomb-bay discharge



Decompression control panel



Pneumatic sampling device



Choppers, liquid injectors, temperature jacket






Replaceable anti-wear liner



304L / 316L stainless steel internal polishing



# The MAP<sup>®</sup> Plus

-  **Maximum quality mixtures in short mixing time**
-  **Enhanced production thanks to durable low maintenance machine design**
-  **High productivity - low energy consumption**

High quality MAP<sup>®</sup> solutions

Process engineering know-how

Vast experience in handling all kinds of bulk materials

Mixing tools adapted to product properties

Carefully selected materials

Application-oriented mixer design

Ancillary equipment supply

# Global Presence

Our global subsidiary network enables us to supply a comprehensive range of mixers that fully meets customer requirements all over the world.



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