



A

FEED & BIOFUEL

# FAST AND EFFICIENT BATCH MIXING

OPTIMIX PADDLE MIXER

**ANDRITZ**

ENGINEERED SUCCESS

# Elevating feed quality with precision and safety

OptiMix excels in high-quality batch mixing for animal feed, aqua, and pet industries. Renowned for precision, speed, and safety, it stands as a trusted solution, ensuring superior and efficient feed production.

## MAXIMIZE YOUR MIXING PERFORMANCE WITH OPTIMIX

MTSE-certified for exceptional quality, our system surpasses industry standards with a CV below 5% at 1:100,000.

Dual rotation delivers hygiene and consistency in mixing, complemented by our industry-leading self-cleaning technology for purity. This system not only increases operational efficiency through flexible ingredient processing and rapid cycle times but also elevates hygiene standards for superior performance.

The OptiMix prioritizes safety and reliability. Advanced interlocked door locks, equipped with zero-speed rotation detection, were designed to provide maximal operator safety. This, combined with a robust mechanical shaft lock and an optional access board, ensures not only a secure environment but also facilitates efficient cleaning. The smooth incorporation of these safety features and efficiency enhancements delivers a high-quality feed mixing solution you can trust for dependable results.



## OUR WIDE RANGE OF SINGLE SHAFT BATCH MIXERS



OptiMix 2000 (Mineral mixer)



OptiMix 4000



OptiMix 6000/8000



OptiMix 10000/12000



# Excellent mixing quality at short mixing time

The OptiMix is distinguished by its remarkably brief and efficient dry mixing process. It eliminates concerns of leakage or cross-contamination, pivotal factors in achieving superior feed quality.

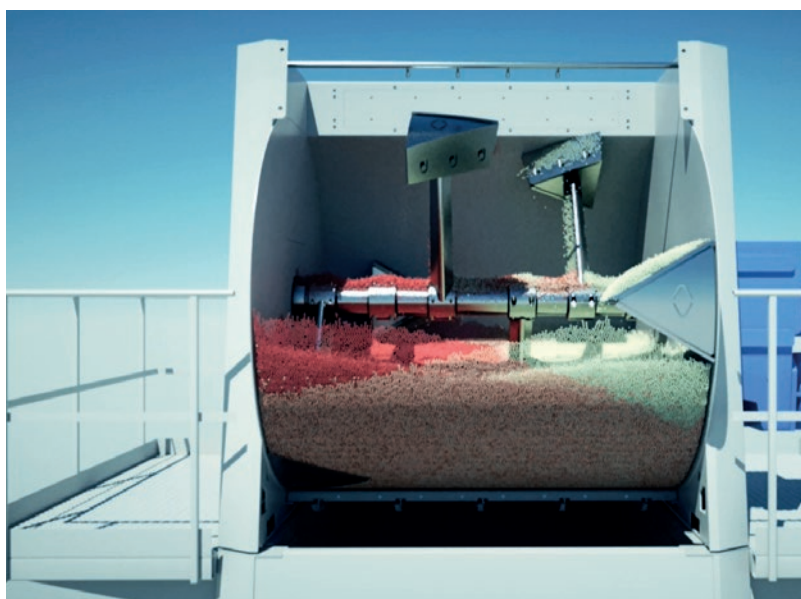
Central to its exceptional performance is an innovative mixing device featuring dual rotation, which minimizes material build-up and ensures a thorough mix. This, combined with a large-sized outlet door equipped with a secure locking mechanism, and the option of an air seal, guarantees a full and efficient discharge. As a result, the OptiMix consistently delivers feed of the highest quality, making it a leading solution in the industry.

Every OptiMix is supplied with a generic mixing certificate. A specific certificate may be requested for special customer applications. Tests are performed and certificates are issued during commissioning by a certified third party.

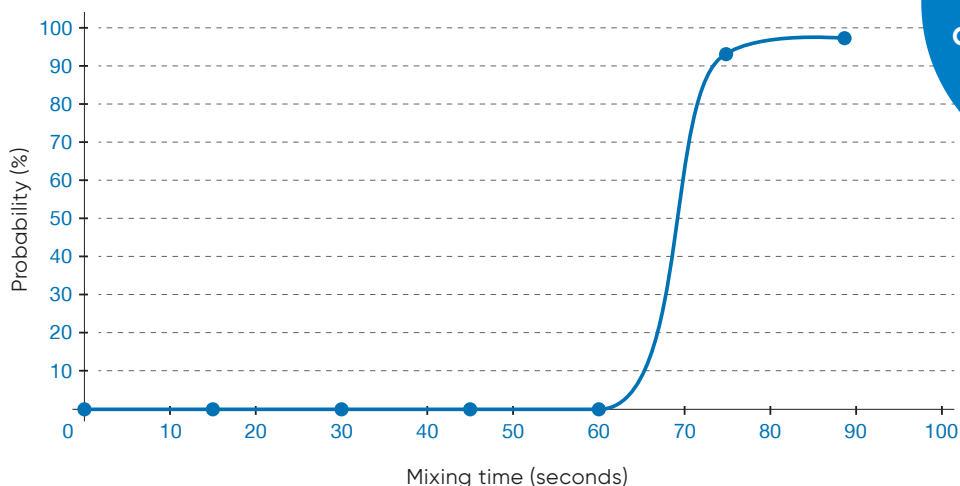
The mixing quality is evaluated using the standardized Microtracer system. These are food-grade, colored ferrous particles that are added to the mixer.

Samples are taken either from inside the mixer or during discharge from the surge bin, and all samples should contain the same amount of particles.

The OptiMix is tested using Microtracer in a ration of 1:100.000 (10g/ton) and obtains a quality CV of less than 5%. The Microtracer method measures probability, but this translates into CV.



**OPTIMIX 4000 MIXING QUALITY VERSUS TIME**



Every OptiMix is supplied with a generic mixing certificate.



# Efficient, safe, and customizable: The OptiMix advantage for your mixing needs

## **FLEXIBILITY MEETS FUNCTIONALITY**

With the ability to add up to 8 liquids seamlessly, our mixer adapts to both large-scale and precise production requirements, offering exceptional flexibility in feed mixing.

## **ENGINEERED FOR QUALITY EXCELLENCE AND COST-EFFECTIVENESS**

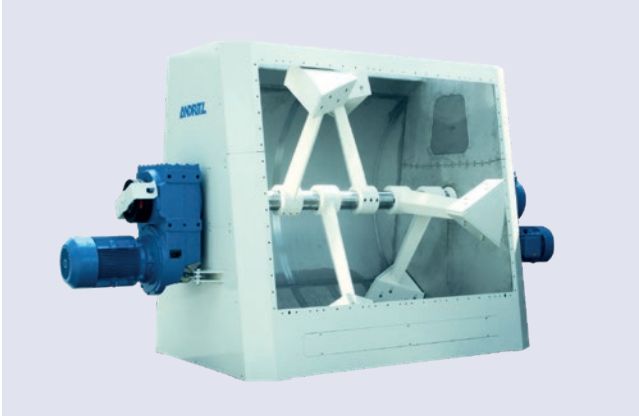
With quick cycle times accommodating up to 18 batches of dry mixing or 15 batches mixed with liquids per hour, the OptiMix excels in operational efficiency. Integrated stack offers (including pre-bin, OptiMix, and Surge bin) and flexible batch sizing ensure cost-savings, while the efficient additive mixing design ensures quality and consistency at every turn.

## **SAFE OPERATIONS, RELIABLE RESULTS**

Interlocked door locks and zero-speed rotation detection ensure operator safety. The mechanical shaft lock, along with an optional access board, ensures a safe and efficient cleaning process, providing the high quality and reliability required for advanced feed mixing technology.

## **FROM LOCAL INSIGHT TO GLOBAL IMPACT**

As with every ANDRITZ product and solution, the OptiMix comes with personalized global service, guaranteeing that our expert assistance is backed by local insights. As market leaders, we stand by our customers, providing the assistance they need to set new industry standards founded on quality and innovation.



Dual rotation shaft



Outlet damper



Easy access to liquid system



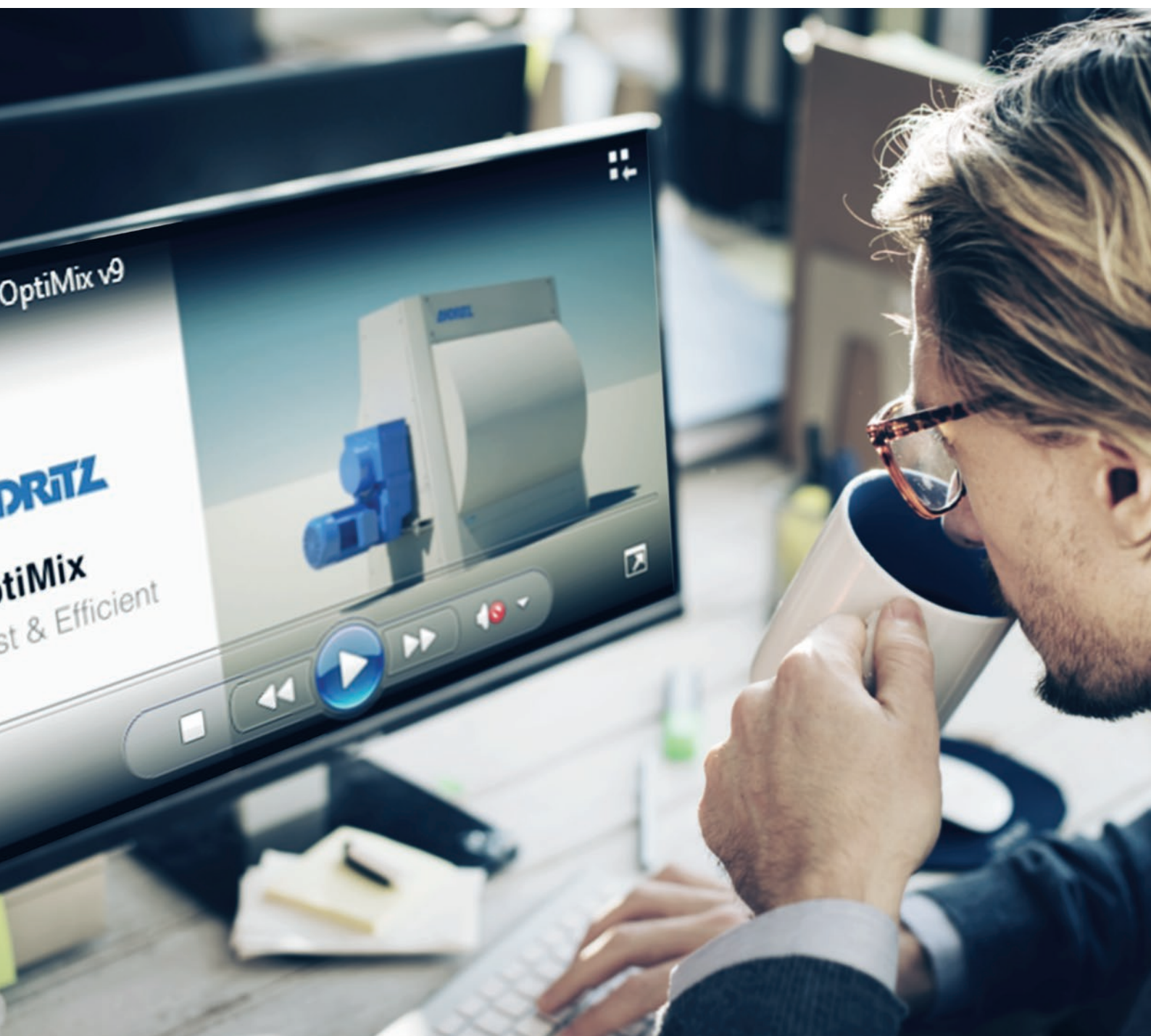
Mixing unit with dual rotation paddles



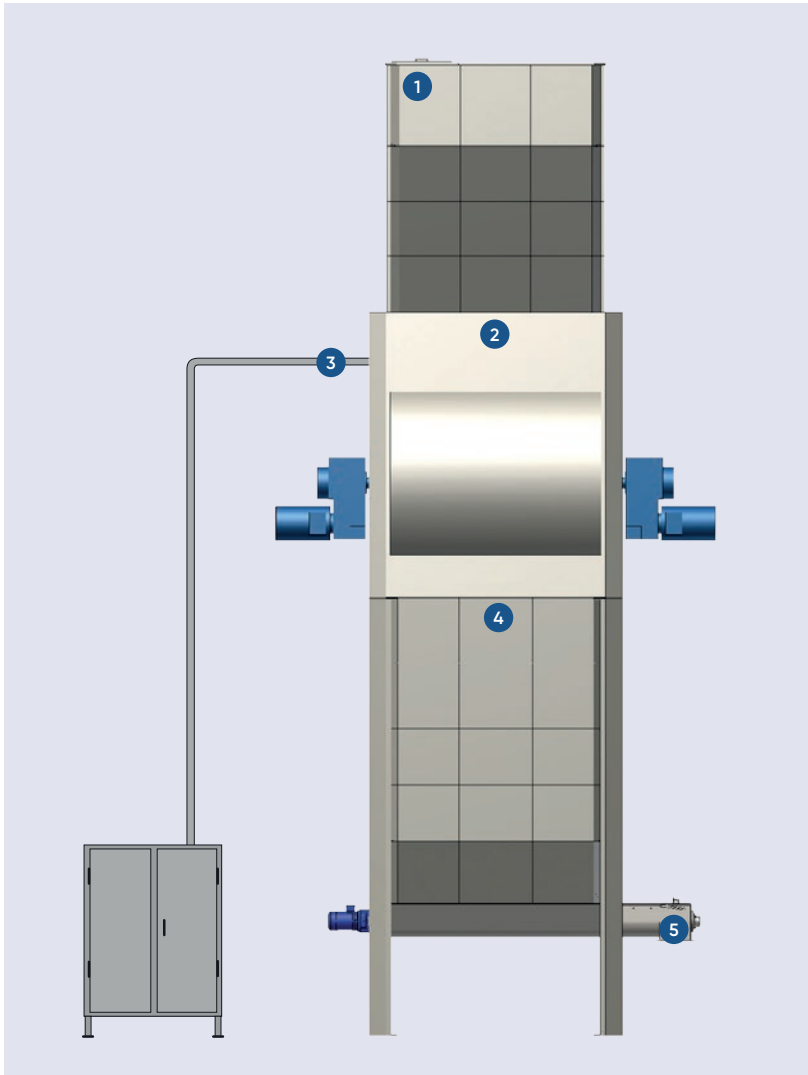
# See the OptiMix Paddle Mixer in **ACTION..!**

Simply scan the QR code, and let us guide you through the advanced features, benefits, and real-world applications of our OptiMix Paddle Mixer.

**WATCH THE VIDEO**  
on our Youtube channel



# High-end design mixing line



## OPTIONAL EQUIPMENT FOR MIXING LINE

- 1 Pre-bin with cover plate, manhole, empty level indicator, and outlet flange fitted to mixer inlet
- 2 Inlet section with pneumatically operated outlet and prepared for nozzle pipes. Outlet flange fitted to mixer
- 3 Liquid unit for macro-fluid addition
- 4 Surge bin with empty level indicator, manhole, and outlet flange fitted to our standard discharge screw
- 5 V-shaped discharge screw with progressive pitch, overflow gate with micro-switch, and direct-mounted gear motor

All ANDRITZ OptiMixers are available with either stainless steel or painted mild-steel bodies

Flow diagram of mixing line

## LOCATION OF LIQUID SYSTEM

On the OptiMix 2000 and 4000, the liquid system is a part of the basic machine. This means that the inlet section is only needed if the pneumatically operated outlet is required.

On the OptiMix 6000, 8000, 10000 and 12000, the liquid system is not a part of the basic machine. The inlet section is needed if the liquid system is required. The inlet can be prepared for the liquid system only or may also include a pneumatically operated outlet as an option.



Basic OptiMix 4000 machine

- \* Liquid system

## OPTIMIX

Type	Volume liter	Motor size kW	Dry mixing time sec	Filling/Discharge time* sec
OptiMix2000	2000	22	75	10+10
OptiMix4000	4000	45	90	10+10
OptiMix6000	6000	2x30	105	15+15
OptiMix8000	8000	2x37	105	15+15
OptiMix10000	10000	2x45	120	20+20
OptiMix12000	12000	2x55	120	20+20

\*Filling and discharge time are approximated and must be verified in specific application.

## EXAMPLE WITH AND WITHOUT LIQUIDS

### OptiMix 4000 batch cycle time

	Dry mixing	Mixing with liquids
Filling time	10 sec	10 sec
Dry mixing time	90 sec	90 sec
Spray time (minimum)	0 sec	45 sec
Wet mixing time	0 sec	5 sec
Discharge time	10 sec	10 sec
Total cycle time	110 sec	160 sec
Theoretical batch per hour	3600 sec/110 sec = 32 pcs	3600 sec/160 sec = 23 pcs

Spray time is at least 50% of dry mixing time.



Basic OptiMix 8000 machine with inlet section



Basic OptiMix 8000 machine

\* Liquid system



## GLOBAL SUPPLIER – LOCAL PRESENCE

ANDRITZ Feed & Biofuel is truly a global organization – with local presence. We are represented all over the world. The global market is served from five main locations: Denmark, China, Netherlands, USA, and Slovakia.

In addition, ANDRITZ Feed & Biofuel operates from several strategic regional sales, engineering, and service locations in Australia, Bangladesh, Brazil, Canada, Chile, Dubai, France, Germany, India, Italy, Mexico, Poland, South Africa, Thailand, Turkey, the UK and Vietnam – and is also represented locally by agents and distributors in many other markets.

### AUSTRALIA

ANDRITZ Feed & Biofuel  
p: +61 3 8773 4888  
andritz-fb.au@andritz.com

### CHINA

ANDRITZ Feed & Biofuel  
p: +86 21 5774 5781  
andritz-fb.cn@andritz.com

### ITALY

ANDRITZ Feed & Biofuel  
p: +39 025 743 01 30  
andritz-fb.it@andritz.com

### THAILAND

ANDRITZ Feed & Biofuel  
p: +66 2258 5528  
andritz-fb.dk@andritz.com

### BANGLADESH

ANDRITZ Feed & Biofuel  
p: +880 22 222 64 800  
andritz-fb.bd@andritz.com

### DUBAI

ANDRITZ Feed & Biofuel  
p: +971 4 214 6546  
andritz-fb.uae@andritz.com

### MEXICO

ANDRITZ Feed & Biofuel  
p: +52 229 178 38 45  
andritz-fb.mx@andritz.com

### TURKEY

ANDRITZ Feed & Biofuel  
p: +90 232 570 38 00  
andritz-fb.tr@andritz.com

### BRAZIL

ANDRITZ Feed & Biofuel  
p: +55 47 3387 9146  
andritz-fb.br@andritz.com

### FRANCE

ANDRITZ Feed & Biofuel  
p: +33 24 75 06 364  
andritz-fb.fr@andritz.com

### NETHERLANDS

ANDRITZ Feed & Biofuel  
p: +31 40 262 7777  
andritz-fb.nl@andritz.com

### UK

ANDRITZ Feed & Biofuel  
p: +44 1482 825 119  
andritz-fb.uk@andritz.com

### CANADA

ANDRITZ Feed & Biofuel  
p: +1 519 676 7057  
anbosales@andritz.com

### GERMANY

ANDRITZ Feed & Biofuel  
p: +49 2104 91970  
andritz-fb.de@andritz.com

### POLAND

ANDRITZ Feed & Biofuel  
p: +48 60 906 1037  
andritz-fb.pl@andritz.com

### USA

ANDRITZ Feed & Biofuel  
p: +1 570 546 1253  
andritz-fb.us@andritz.com

### CHILE

ANDRITZ Feed & Biofuel  
p: +56 2 2246 24 600  
andritz-fb.cl@andritz.com

### INDIA

ANDRITZ Feed & Biofuel  
p: +91 87544 15287  
andritz-fb.india@andritz.com

### SOUTH AFRICA

ANDRITZ Feed & Biofuel  
p: +27 82 781 0808  
andritz-fb.dk@andritz.com

### VIETNAM

ANDRITZ Feed & Biofuel  
p: +84 28 6253 9434  
andritz-fb.vi@andritz.com

**ANDRITZ.COM/FT**

**ANDRITZ Feed & Biofuel A/S**

Glentevej 5–7

6705 Esbjerg, Denmark

p: +45 72 160 300

andritz-fb.dk@andritz.com

**ANDRITZ**

All data, information, statements, photographs and graphic illustrations in this leaflet are without any obligation and raise no liabilities to or form part of any sales contracts of ANDRITZ AG or any affiliates for equipment and/or systems referred to herein. © ANDRITZ GROUP 2024. All rights reserved. No part of this copyrighted work may be reproduced, modified or distributed in any form or by any means, or stored in any database or retrieval system, without the prior written permission of ANDRITZ AG or its affiliates. Any such unauthorized use for any purpose is a violation of the relevant copyright laws. ANDRITZ AG, Stattegger Strasse 18, 8045 Graz, Austria.

