

AZO LIQUIDS

Dispersing | Mixing | Homogenising





AZO.
SOLUTIONS

1 Company

AZO LIQUIDS

Innovative solutions for liquid and semi-solid processes



AZO LIQUIDS GmbH was founded in 2008 as zoatec GmbH by engineers with many years of experience in liquid and semi-solid processes.

The main goal was the development of a new generation of batch and continuous process plants with an innovative homogenizer.



AZO LIQUIDS

Location in Germany



Airport Basel/Mulhouse (30 km)



Highway A5 (1 km)

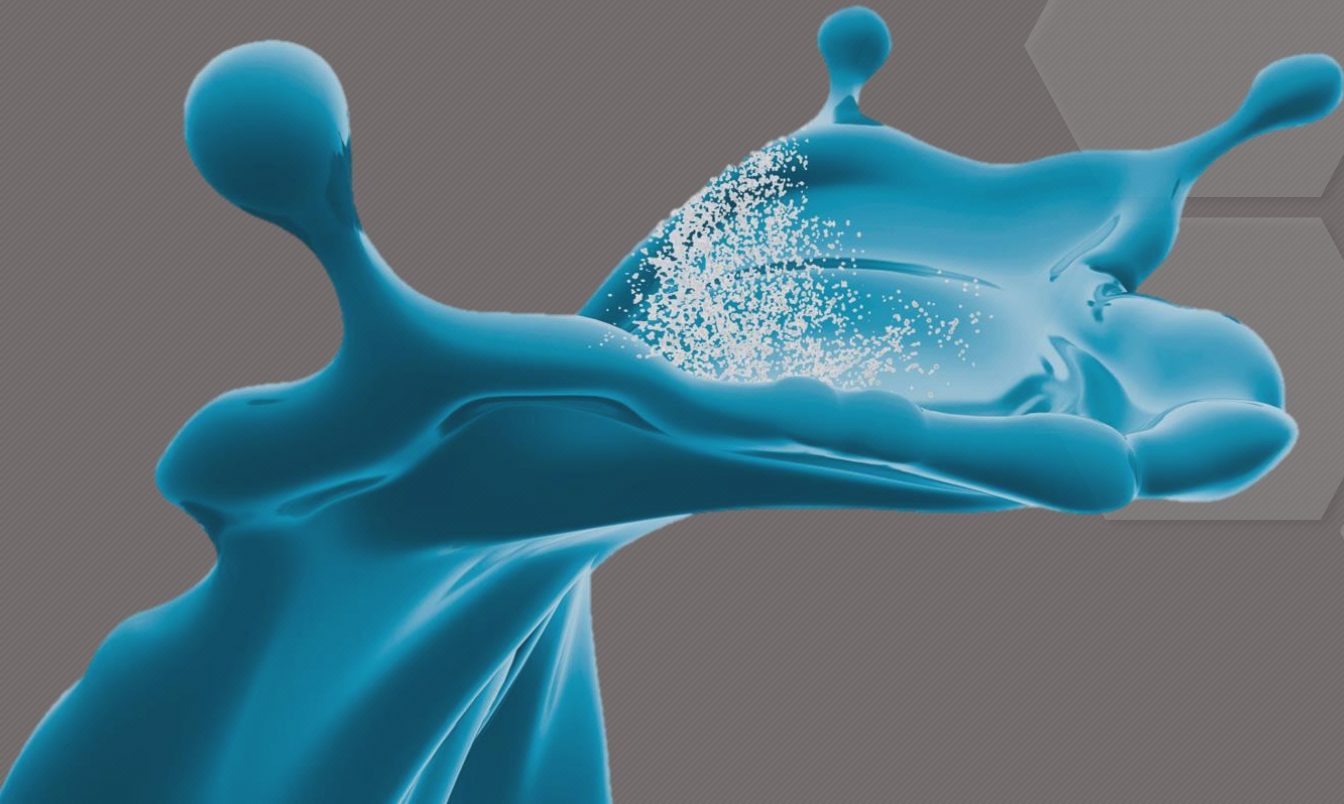


Central station Freiburg (30 km)



AZO LIQUIDS – Key competences

Dispersing | Mixing | Homogenising



Batch

Plant
Engineering

Continuous

AZO LIQUIDS – Main areas of application

From individual machines to customized product solutions



Food

Mayonnaise, Dressings,
Ketchup, Sauces, etc.



Cosmetics

Toothpaste, Sunscreen,
Make-Up, Gel, etc.



Pharma

Lotions, Creams,
Ointments, etc.



Specialities

Plastic mixtures,
Adhesives, Protection





2 Applications



2.1 Food

- ✓ Mayonnaise
- ✓ Ketchup
- ✓ Dressings
- ✓ Sauces



- ✓ Soups
- ✓ Marinades
- ✓ Relish
- ✓ Chutney



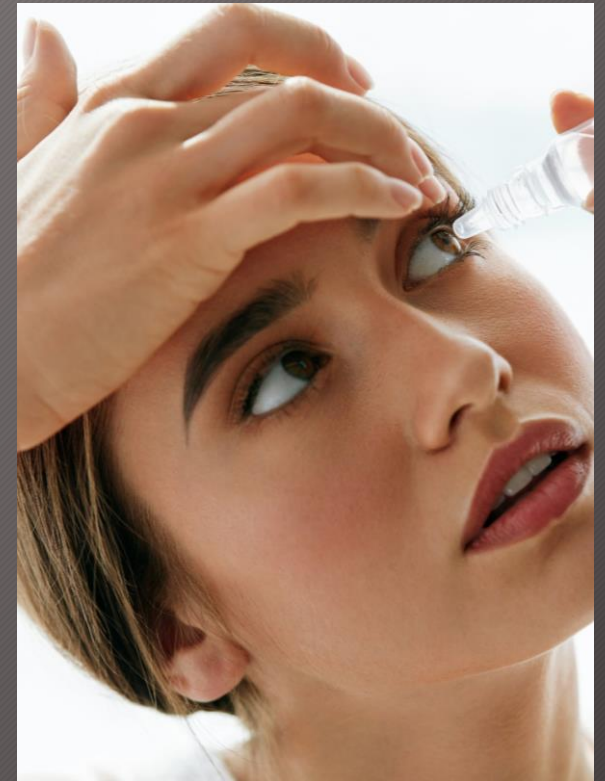
- ✓ Fruit fillings
- ✓ Cream fillings
- ✓ Toppings
- ✓ Waffle dough



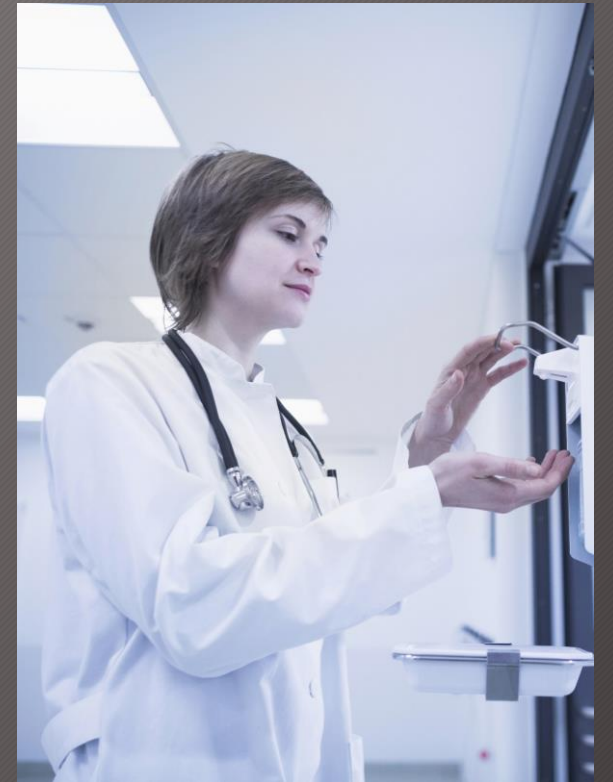


2.2 Pharma

- ✓ Eyedrops
- ✓ Nasal drops
- ✓ Nasal spray
- ✓ Suppository mass



- ✓ Contact lenses
- ✓ Disinfectant
- ✓ Pain gel
- ✓ Dialysis solutions





2.3 Cosmetics

- ✓ Toothpaste
- ✓ Dental care products
- ✓ Mouthwash



✓ Creams

✓ Lotions

✓ Sunscreen



- ✓ Shampoo/Shower gel
- ✓ Hair care products
- ✓ Skin care products





2.4 Specialities

✓ Contact lens raw mass (Polymer)

✓ Fire gel (Glass)

✓ Paint mix





3 Solutions





3.1 Batch vacuum process plant

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zoatec[®] BG vacuum process plant

Benefits of the design



- Modular design
- Open design easily accessible
- Central center of gravity
- Optional load cells with high read-out accuracy
- Machine frame in scale-up design
- Individual vessel design possible





● **BG 400**

Food plant for Mayonnaise,
Dressings, Ketchup,
Sauces

- ✓ 3bar container design
- ✓ Mixproof separation



3.3 Continuous plants

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zoatec[®] CPU continuous plants

Precise metering and mixing of powders in liquids



- Varying amount of dry substances
- No premixing of dry materials necessary
- Simultaneous processing of powders, granulates or pellets
- Consistent product quality due to high-precision powder dosing
- Combination of continuous process units in series possible
- GMP Design with options for CIP/SIP



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4 Plant engineering

Modular plant engineering

A complete solution for your needs



- Modular plant design
- Modules suitable for shipping containers
- Complete production lines
- Elaborate pre-engineering
- Specifications as GMP, FDA, 3A and EHEDG



● **Modular system**

Pharma plant in modular design





● **Modular system**

Food plant in modular design



6 Service

Customer Process Center CPC

A test lab for your trials



**Customer
trials**

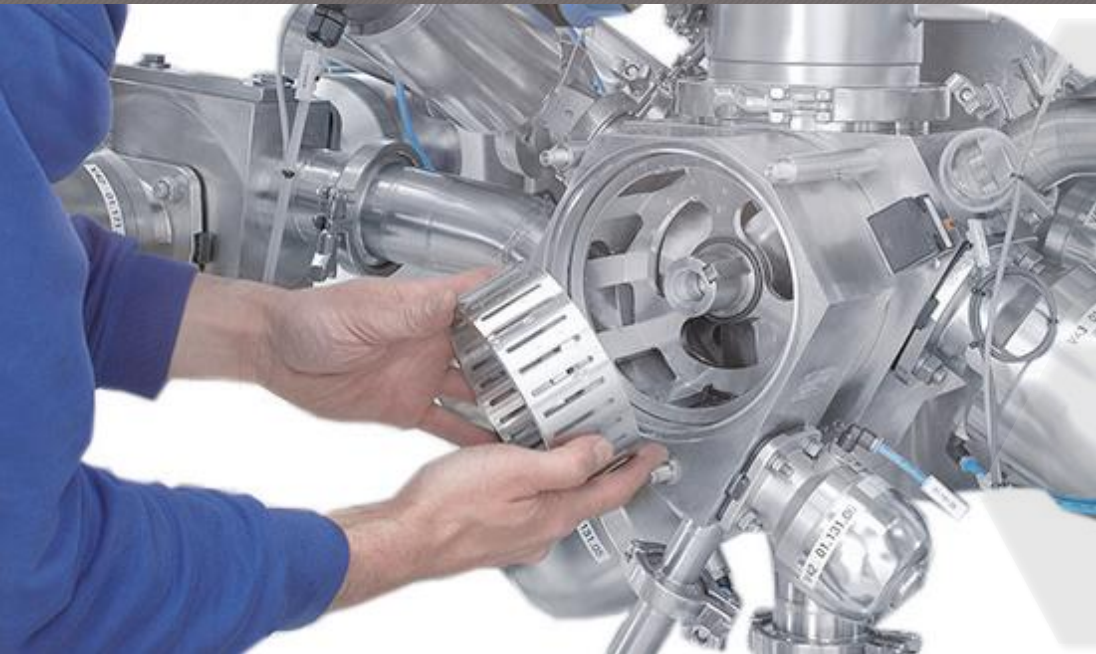
**Customer
trials**

**Scale-Up
warranty**



After Sales Service

Support by contact persons even after purchase



Technical support

Technical support

Plant upgrade

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If you have any questions, we will be
happy to assist you.

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