

# EKATO UNIMIX

## Vacuum processing units

for the personal care, cosmetic,  
pharmaceutical, chemical and food industry

EKATO UNIMIX PORTRAIT



Advanced Process Solutions



## EKATO SYSTEMS laboratory

The EKATO SYSTEMS process laboratory with its state-of-the-art testing equipment offers ideal requirements for process development, scale-up trials and optimisation of existing production processes.

### Process evaluation/-development:

- Analysis/optimisation of homogenising, heating and cooling times
- Viscosity analysis
- Particle size analysis

### Process analysis:

- Scale-up
- Layout and dimensioning
- Optimised mixing solutions

### Process consulting:

- At the EKATO SYSTEMS laboratory
- At client's plant location

### Process laboratory locations:

- Germany
- USA
- China
- India

**EKATO**

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EKATO SYSTEMS provides with the UNIMIX product line state-of-the-art vacuum processing units for the personal care, cosmetic, pharmaceutical, chemical and food industry.

As a world-leading manufacturer for mixing and homogenizing equipment for laboratory, pilot and production size units, EKATO SYSTEMS offers a complete package including not only equipment supply, but also a full service approach according to life cycle management. The services range from engineering to pilot trials to start-up and maintenance.

Whether a single unit or complete turn-key installations including full automation and GMP compliant execution – the EKATO UNIMIX systems are being constantly developed and adapted to modern requirements.

**Applications**

- > Personal care (lotions, creams, gels, toothpaste etc.)
- > Cosmetics (mascara, foundations, lipsticks etc.)
- > Pharma (gels, ointments, gel-capsules etc.)
- > Chemicals
- > Food

**The UNIMIX system**

**Products**

- > Laboratory mixer type EKATO UNIMIX LM (3 l and 6 l for product development)
- > Pilot plant mixer type EKATO UNIMIX SRT (from 15 l to 70 l)
- > Production mixer type EKATO UNIMIX SRA (from 100 l to 10.000 l)
- > Production mixer type EKATO UNIMIX SRC (from 100 l to 10.000 l) with liftable lid
- > High pressure homogenizer EKATO NANOMIX
- > Complete turn key installations
- > All units are available in cGMP and GAMP5 execution

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**SCALE-UP**

UNIMIX LM 3



UNIMIX SRT 50



UNIMIX SRC 1.000

EKATO UNIMIX vacuum processing units are characterized by their high productivity and flexibility, allowing for economic and safe manufacturing:

- High vertical/radial mixing provided by the EKATO PARAVISC impeller
- Fast and flexible addition of raw materials via UNIMIX S-JET homogenizer
- Short-cut free internal/external product recirculation
- Variable shear energy
- Optimal heating/cooling times
- Cleaning In Place (CIP) / Sterilisation In Place (SIP)