EKATO UNIMIX

Vacuum processing units
for the personal care, cosmetic, pharmaceutical, chemical and food industry

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 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 GAMPs execution

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)