

E L A 5 M I N I P L A N T

ELA5 MINIPLANT

EKATO
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Mixing Technology Fluids and Solids



EKATO



America

- Argentina
- Brazil
- Canada
- Chile
- Jamaica
- Mexico
- USA
- Venezuela

Europe

- Austria
- Belgium
- Bulgaria
- Croatia
- Czech. Republic
- Denmark
- Finland
- France
- Germany
- Greece
- Great Britain
- Hungary
- Ireland
- Italy
- Netherlands
- Norway
- Poland
- Portugal
- Slovakia
- Spain
- Sweden
- Switzerland
- Yugoslavia

Africa/Asia/Australia

- Australia
- China
- Egypt
- Hong Kong
- India
- Indonesia
- Iran
- Israel
- Japan
- Malaysia
- Pakistan
- Philippines
- Saudi Arabia
- Singapore
- South Africa
- South Korea
- Taiwan
- Thailand

EKATO

Broad operating conditions

- Total volume up to 5 litres
- Liquid feed rate up to 500 ml/min
- Gas feed up to 1.6 m³/h
- Temperatures: 20 to 200 °C
- Pressure: vacuum to 40 bar
- Viscosities: 1 to 10,000 mPas

Process types

- Batch or semi-batch, single or multi-phase, across a wide range of processing conditions e.g.:
- Polymerizations
 - Gas-liquid reactions
 - Heterogeneous catalysis

Automation, monitoring and facilities

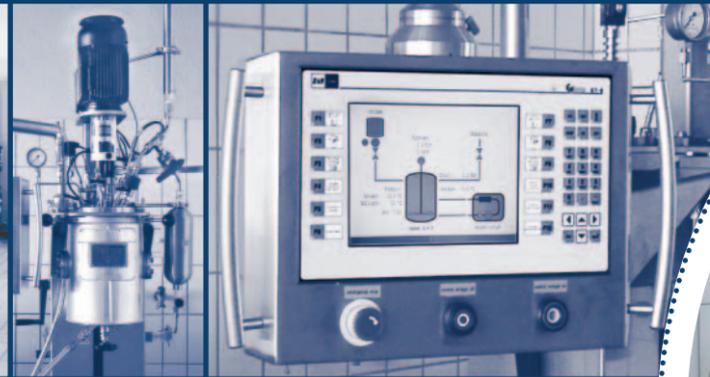
- Gas and liquid feeds
- High pressure sampling
- Overheads condenser
- Temperature and pressure monitoring
- Reaction monitoring and control
- Suitable for flammable areas (Ex)

EKATO ELA 5 – Process Development Miniplant

The ELA 5 is a process development »miniplant« with which reactions can be performed in well defined fluid dynamic conditions. This provides significant advantages for laboratory process development studies: Data from trials can be directly used for design of production-scale plants together with the known performance characteristics of the agitator systems. The design includes not only the vessel and agitator design but also internals such as heat transfer surfaces, baffles etc.



EKATO's mixing laboratory

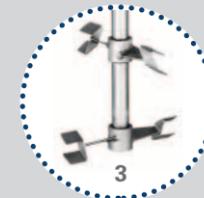


Our service

- Support from EKATO mixing specialists
- Technical back-up from EKATO's mixing laboratory
- Scale-up expertise
- Guarantees for key process parameters

Characterized agitation systems for

- Minimized mixing times
- Maximized mass transfer
- Efficient solids suspension
- Effective heat transfer



EKATO Impellers

- 1 EKATO VISCOPROP
- 2 EKATO PARAVISC
- 3 EKATO INTERMIG
- 4 EKATO PHASEJET
- 5 EKATO GASJET

EKATO provides a complete service package

EKATO's specialists can facilitate the design and planning of your process development trials and provide support for data analysis and scale-up to plant scale. EKATO has extensive process know-how for complex and challenging process conditions such as 2- and 3-phase systems and the processing of highly viscous non-newtonian products. You can benefit from this vast knowledge base and experience gained over many years of developing and implementing innovative mixing technologies.