



CHEMICAL ENGINEERING

September
2018

ESSENTIALS FOR THE CPI PROFESSIONAL
www.chemengonline.com

Chemicals for Oil and Gas

Pumps

Gas Detection

Protecting Wireless Data

Co-Located Facilities

Facts at Your Fingertips:
Weighing

Focus on Flow

Acetaldehyde Production



Water Treatment: Boiler Feed & Cooling Water

Economic Mixing Solutions for Water and Wastewater Treatment

Special impeller for operation in sludge containing long fibers

EKATO's offer:

- Expertise knowledge for your minimum process design requirements
- Detailed process development for water, waste water and biological sludge applications
- Success experiences in plant scale
- Corrosion resistant coatings to meet your compatibility needs

Advantages:

- To minimize the motor power and the cost of operation
- Safe and reliable mechanical mixing agitator design

Treatment of Drinking Water:

- Continuous operating cleaning processes with high flow rates
- The mixing tasks are:
 - To achieve a sufficient homogeneity of the reactants at a given middle resistance time
 - To support the precipitation-coagulation
 - To avoid any damage of the formed flakes in the flocculation step

Treatment of Waste Water Sludge in Fermenters (Digesters):

- In large reactor vessels, (>1000 m³) has to blended viscous sludge with about 2-8% organic solid content
- Avoid settlement particles at the bottom of the vessel
- Reduction and incorporation of dry solid layers on top of the liquid. The layer arises due to the drying effect caused by the methane gas flow out of the liquid surface
- Handling of sludge that is contaminated with long fibers which can agglomerate at the impeller
The complete agitator can be destroyed due to resulting shaft deflection. Using the **EKATO-AquaJet B** does solve this problem.
- The **EKATO-EM 2000** agitator series has several mechanical seal types to handle the explosive conditions



**EKATO EM 2000 / EKATO
AQUAJET B impeller**

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EKATO

STATE-OF-THE-ART MIXING TECHNOLOGY

Technologically optimized
for your application

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mixing technology

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Visit us in New Orleans, LA
October 1-3, 2018 / Booth #708



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advanced mixing technology:

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