

High efficiency axial pumping impeller

EKATO ISOJET

Short blend times with low energy consumption

Industries

- Chemicals
- Polymers
- API production
- Consumer goods

Applications

- Polymerization
- Crystallization
- Precipitation

Benefits

- Low energy consumption
- Efficient axial blending
- High suspending ability
- Quick surface entrainment
- Low concentration and temperature gradients
- Excellent heat transfer

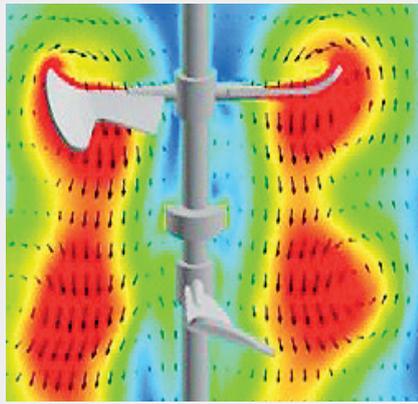
Features

- Application in low viscosity systems or in the turbulent flow regime
- Excellent axial pumping rates
- High wall velocities





Reactor configuration



Reactor - axial flow pattern



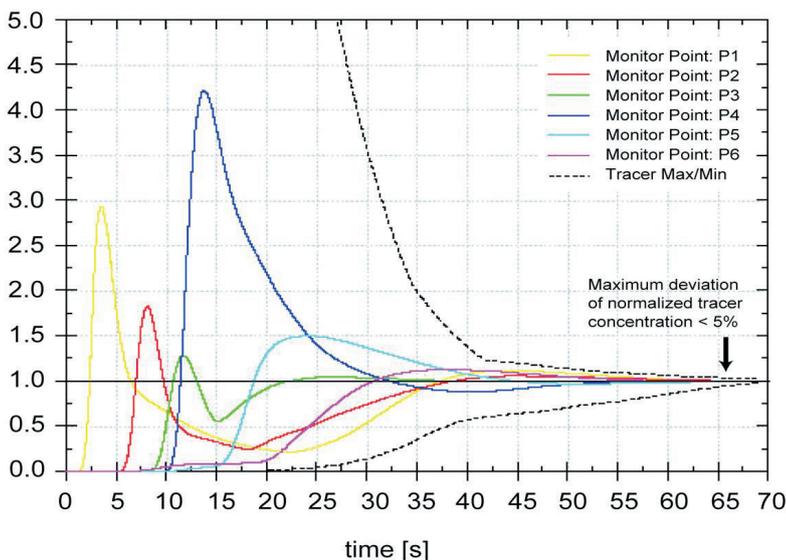
Efficient axial pumping

EKATO ISOJET

The ISOJET is the most efficient impeller by far, as soon as axial pumping in a turbulent system is required. In single and multi-stage arrangements it provides extremely short blend times. In large vessels, a blend time reduction by 50 % is realistic. Together with this, efficient suspending as well as very high wall velocities are achieved. As a result for the process, this provides outstanding solids distribution, e. g. of polymer products or a catalyst, as well as effective heat transfer capability.

EKATO ISOJET VDT (Virtual Draft Tube)

Blend time for a 200 m³ HDPE reactor could be reduced by more than 50% !



World-scale 200 m³ HDPE reactor with multi-stage EKATO ISOJET impellers - axial flow velocity visualized by CFD.

