



XE-3 High Efficiency Impeller

Chemineer provides the latest impeller technology advancement, the XE-3 High Efficiency Impeller that offers significant performance advantages and overall cost savings

The XE-3 impeller is designed to provide high flow and low shear with an optimized shape to maximize mechanical strength. Designed using high tech Laser Doppler Anemometry, Digital Particle Image Velocimetry, and Computational Fluid Mixing, the XE-3 impeller is always the right choice for flow controlled processes.

Process Efficiency

- High flow for improved Blending and Solids Suspension applications
- Possible reduction in the horsepower and size of the gear drive required to achieve the desired mixing result

Mechanical Design

- Decreases impeller weight by nearly 40% over other high efficiency impellers
- Longer in-tank shafts can be used without the need for steady bearings

Typical Flow Controlled Applications

- Storage Tanks
- Water and Waste Treatment
- Miscible Fluid Blending
- Chemical and Polymers
- Mining Applications

- Heat Transfer applications with internal coils or jacketed vessels
- Solid Suspension applications
- Mud Mixers
- Corn Processing and Ethanol

Upgrade Opportunity

- The impeller weight is similar or less than older, less efficient impeller designs
- The superior performance of the XE-3 High Efficiency Impeller can **almost double** a pitched blade impeller pumping rate at an equivalent torque level



Chemineer, Inc.
5870 Poe Avenue
Dayton, Ohio 45414
Telephone: (937) 454-3200
Email: chemineer@nov.com

Chemineer, Ltd.
7 Cranmer Road, West Meadows
Derby DE21 6XT, England
Telephone: 44-1-332-546700
Email: chemineeruk@nov.com



Chemineer China
Room 2006, Modern Plaza
369 Xianxia Road
Shanghai 200336 China
Telephone: 86-21-61240001
Email: chemineercn@nov.com



Chemineer, Inc.
125 Flagship Drive
North Andover, MA 01845
Telephone: (978) 687-0101
Email: navinfo@nov.com
www.kenics.com
www.greercomixers.com



Chemineer International Sale Offices:
Brazil
Mexico
Singapore

1-800-643-0641 • www.chemineer.com

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