

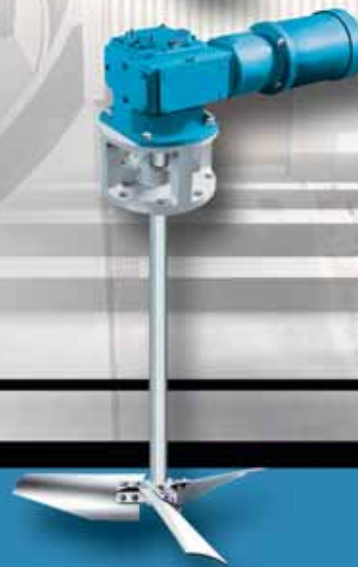
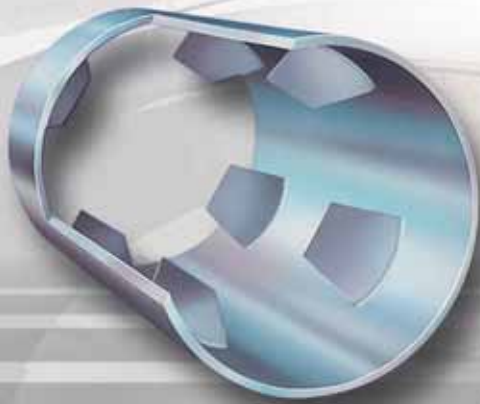
 *Chemineer*

 *Kenics*

Water & Wastewater

Treatment

Solutions



Reliability & Technology in Mixing

Chemineer has been designing and manufacturing standard and customized fluid agitation equipment and systems for over 50 years. The Company is recognized as a leader in advanced mixing solutions for the municipal and industrial water and wastewater treatment industries.

Chemineer engineers and field representatives have extensive application expertise in the industry. They apply a breadth of proprietary application evaluation methodologies in analyzing customers' fluid processing requirements to optimize every solution. Backed by extensive research and a proud heritage for technical innovation, Chemineer has a proven reputation for product design and manufacturing quality that ensures outstanding performance and long service life for overall low total cost of ownership.

Through the combination of quality mixing products, application experience and exceptional customer service, Chemineer can satisfy all of your water and wastewater treatment applications. ***For reliability and technology in mixing, Chemineer has the solution.***

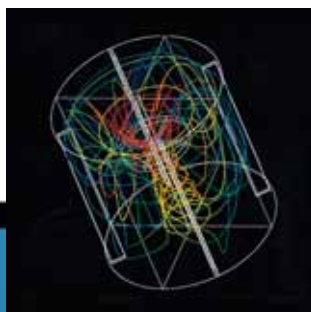
Applied Technology and Innovation

Chemineer brings proven technical expertise to each mixing solution, from basic mixer and impeller design through complex process application analysis.

Chemineer's high-tech customer test lab offers the most advanced testing techniques in the industry. Combined with proprietary data evaluation methodology and extensive field experience Chemineer provides the most accurate water and wastewater treatment application evaluation possible. These tools and procedures include:

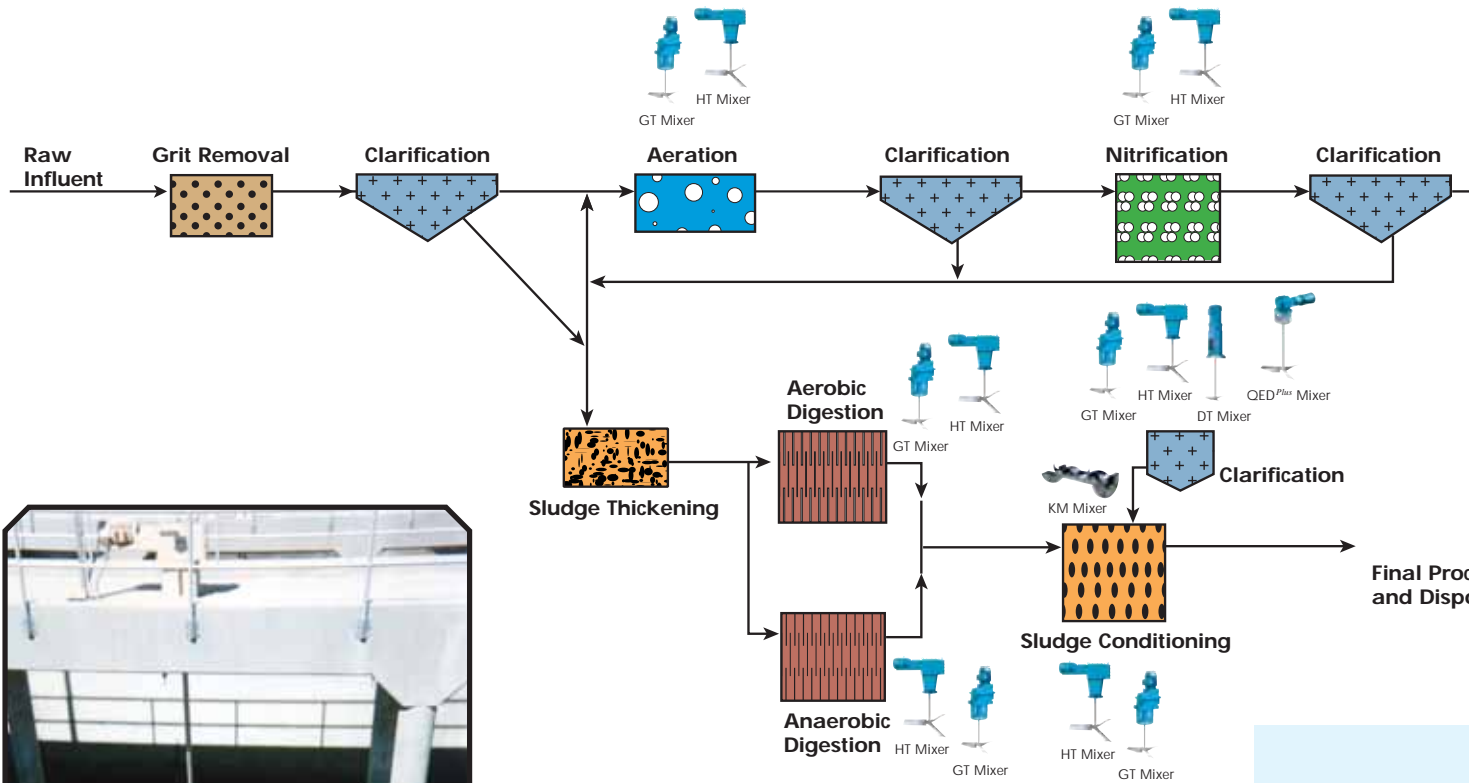


- Computational Fluid Dynamics (CFD) – provides visual projections of mixer performance in the mixing tank and generates a series of mathematical models of fluid flows
- Digital Particle Image Velocimetry (DPIV) – provides instantaneous flow visualization and quantitative measurement of the fluid velocity field in the mixing tank
- Laser Doppler Anemometry (LDA) – corroborates time averaged DPIV data, especially for velocity fields in the vicinity of the impeller
- Laser Induced Fluorescence (LIF) – enables the user to gain a fundamental understanding of mixing by tracking the path and diffusion of injectants in agitated vessels and static mixers
- CEDS® (Chemineer Expert Design System) – interprets process design data via laptop for on-site analysis, design and evaluation
- ChemScale® – the industry standard method for effective mixer selection that helps to optimize the solution for your specific process needs and meets "G" value requirements



Chemineer Provides Solutions Throughout the W

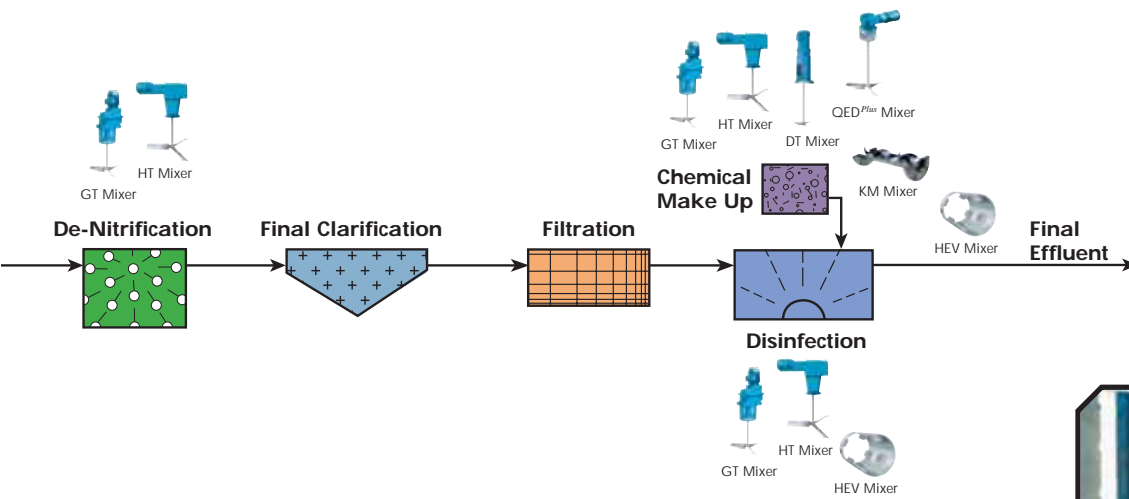
Wastewater Treatment Process Flow



Chemical Make Up
DT Mixer

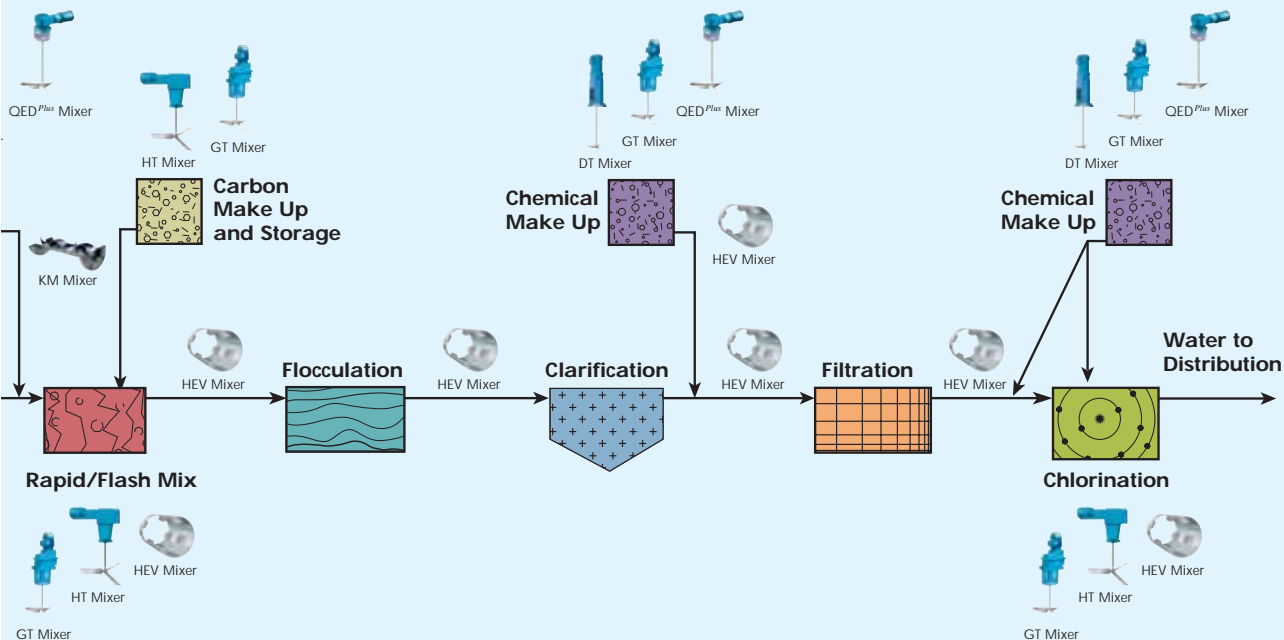
Raw Water
HEV Mixer

Water and Wastewater Treatment Processes



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Water Treatment Process Flow



Extensive Product Range

Chemineer offers an extensive line of Chemineer® turbine agitators, with advanced impeller design options, and Kenics® static mixers for water and wastewater treatment applications. Each product provides unique advantages and extends the range of effective mixing solutions available from Chemineer.



HT

- Rugged, field-proven gearbox design with hardened helical and spiral bevel gear sets
- Drive sizes from 1 to over 1,000 HP
- Speeds from 5 to 350 rpm



HT Turbine Agitator

GT

- Double and triple reduction gear drive designs with hardened helical gear sets
- Cast iron housing
- Proprietary “swing-out” gearbox allows easy access
- Drive sizes from 1 to 30 HP
- Speeds from 11 to 155 rpm



GT Turbine Agitator

QED Plus™

- Worm gear drive
- Cast iron housing
- Drive sizes from 1 to 5 HP
- Speeds from 17 to 175 rpm



QED Plus Mixer

DT

- Top-entering fixed mount, right angle drive and portable configurations
- Drive sizes from ¼ to 5 HP
- Flexible selection of output speeds



DT Mixer



KM

- Provides uniform blending or dispersion for any combination of liquids, gases or solids
- Eliminates gradients in concentration or temperature across a wide range of flow regimes
- Alternating helix construction from a wide variety of materials including metal, PVC, FRP, and PTFE



KM Static Mixer

HEV

- Patented tab geometry maximizes the conversion of turbulent energy into efficient mixing
- Adaptable to a variety of line and open channel shapes and sizes
- Ideal for applications where pressure loss and length are critical



HEV Static Mixer



Maxflo W Impeller



HE-3 Impeller



SC-3 Impeller

Technical Support and Replacement Parts

A dedicated Chemineer team of experienced technical support staff provide a full range of services for your agitator or mixer. From initial specification interpretation, quotation and documentation to the completion of an on-site operational performance review and the delivery of replacement parts, Chemineer understands the needs of the water and wastewater treatment industry.

When it comes to aftermarket service and replacement parts, Chemineer offers:

- A large inventory of genuine Chemineer and Kenics replacement units, components, subassemblies and gearboxes

- 48 hour shipment on stocked replacement parts
- A refurbished gearbox program that allows you to exchange your old gearbox for a completely refurbished unit guaranteed by Chemineer...at a cost savings for you
- Replacement gearboxes for any brand agitator to demonstrate Chemineer's quality and performance difference
- In-field experts with access to a proprietary online parts identification, quotation and ordering system to minimize downtime

Chemineer Provides So Much More

- High-quality, engineered products
- Advanced technology to ensure innovative mixing solutions that out-perform alternatives
- Water and wastewater treatment process knowledge and application experience
- Dedicated in-house professionals who understand the industry specification and purchasing processes
- Seasoned in-field representatives ready to support you
- Readily available replacement parts and gearbox refurbishment programs with 48 hour turnaround
- Solid warranty backed by Chemineer for over 50 years



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