



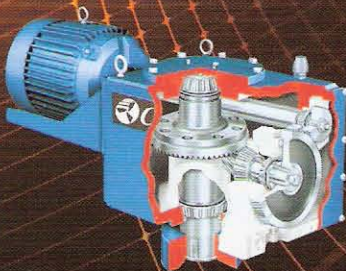
Innovative Mixing Solutions from
a family of Quality Products

FEATURES

- Innovation award winners
- The petrochemical industry
- Pumps, valves and actuators
- Information technology

APRIL 2009

CHEMICAL



mip | PROCESS
TECHNOLOGIES

Unparalleled process solutions
BEE empowered partner

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Chemineer Inc offers complete mixing solutions

A typical chemical and metallurgical plant experiences numerous mixing challenges every year. These costs can be up to 10% of operational expenditure. The entry of the global mixing giant, Chemineer Incorporated, into Africa, provides customers a complete mixing solution and the opportunity to be exposed to the latest mixing technology.

MIP Process Technologies (MIP), a BEE company, has been appointed to supply and distribute the Chemineer range of mixers on the African continent.

The products in the MIP stable include the following:

- **MIP thickeners and clarifiers** MIP's range of thickeners includes conventional thickeners, high-rate and high-density thickeners. Clarifiers with special feedwell designs and ability to produce overflows with clarity of less than 50 parts per million, are used in the mineral processing and wastewater industries.
- **MIP attrition scrubbers** The MIP attrition scrubber uses multiple blades as opposed to a dual blade system to create more attritioning zones within the unit. Typical applications include lime-slaking plants and removal of impurities in the glass industry.
- **MIP linear screens** In line with MIP's strategy for reducing costs to clients, its linear screens consume low energy. These screens have proven themselves in the removal of fibres from a process stream.
- **MIP flocculants plants** MIP's series of flocculant plants is supplied according to required consumption rates. Its off-the-shelf plants are in use with water treatment plants, filtration applications, wastewater streams and clarification processes.

Chemineer mixers and agitators

Chemineer provides a complete solution to mixing, from small portables to fermenters of 1 100 kW. The mixer product range includes Chemineer agitators, Prochem side entry mixers, Greerco high shear mixers and Kenics static mixers.

Since MIP was awarded the agency agreement in October 2008, the UK-based Chemineer Mixers and MIP have secured a number of mixer orders in South Africa. Chemineer Incorporated was established in the United States of America in 1952 and is well known across the chemical, petrochemical, food and beverage, pharmaceutical, water treatment, biotechnology, pulp and paper and mineral processing industries. Chemineer's leadership position amongst mixer suppliers is demonstrated by the way it has revolutionized the agitation industry over the years.

The MIP and Chemineer value proposition aims to add value to customers and offers:

- **Innovation** Traditionally submersible mixers are used in anoxic zone mixing applications in the water industry. At a large water company in the United Kingdom, the Chemineer top entry design of SC-3 impellers provided a better flow pattern and increased flow velocities on the base of the tank with substantially less power. The Chemineer design was 1,44W/m³ compared to the submersible mixer requirement of 10,2W/m³. This has

resulted in energy savings in excess of R200 000 per annum. This, coupled with the savings in maintenance costs, provides customers with an innovative and cost-effective solution.

• Technology

Two-dimensional computational fluid mixing (CFM) simulations for rectangular cylindrical tanks as well as static mixers can be produced in less than ten minutes. This technology enables clients to peruse flow patterns of their application.

In addition to this, a state-of-the-art laboratory is available to customers in the USA and UK. The latest in data evaluation and mixing research is used to provide customers with equipment that works.

• Reliability

Chemineer Inc was the first company to manufacture gearboxes specifically designed for mixer applications. Many gearboxes have been in service for over 30 years.

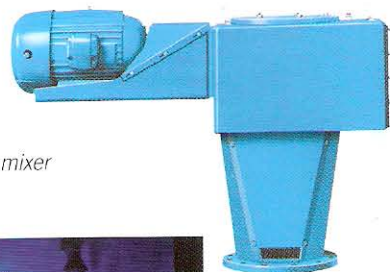
• Flexibility

Chemineer offers customized solutions to enhance your process outputs. With over 50 years of experience, Chemineer can optimize a solution for any mixing application.

• Diversity

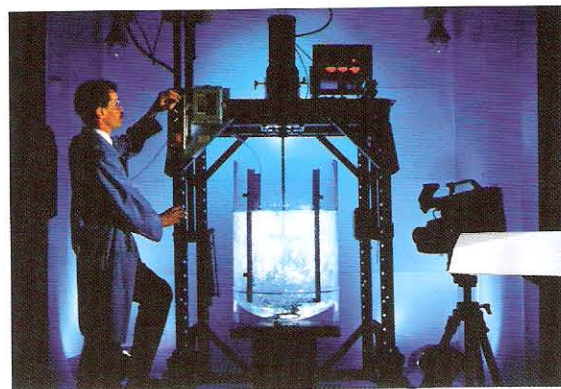
The Chemineer product suite includes a wide range of gearboxes, impellers and seals to meet any application challenge. A combination of heavy duty and small top entry mixers with parallel or right angle shafts, direct or gear reduced drives are on offer.

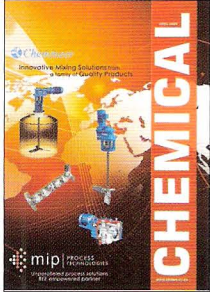
With Chemineer and MIP, customers are assured of mixing with the best.



Right: The HT Top entry energy-saving mixer

Bottom: Chemineer laboratory





MIP Process Technologies (MIP) offers the chemical and related industries an extensive range of process equipment. The 51% black-owned and 100% black-managed company is reputed to be the first majority black-owned process company.

The MIP process product range includes clarifiers and thickeners, attrition scrubbers, linear screens, flocculant plants and reagent make-up plants, are developed internally by MIP. They are locally manufactured and are based on proven, world class technology.

The mixer product range includes Chemineer agitators, Prochem side entry mixers (for large petrochemical storage tanks), Greerco high shear mixers (includes colloid mills, pipeline mixers and homogenisers) and Kenics static mixers (for inline mixing, dilution and blending).

At MIP we not only consider the customer's process data, but also longterm equipment's mechanical performance, maximum circuit efficiency and availability to ensure minimum operating costs.

For more information

contact Philip Hoff

Tel: +27 (0)11 612 3217

Fax: +27 (0)86 682 2394

Email: sales@mipprocess.com

URL: www.mipprocess.com