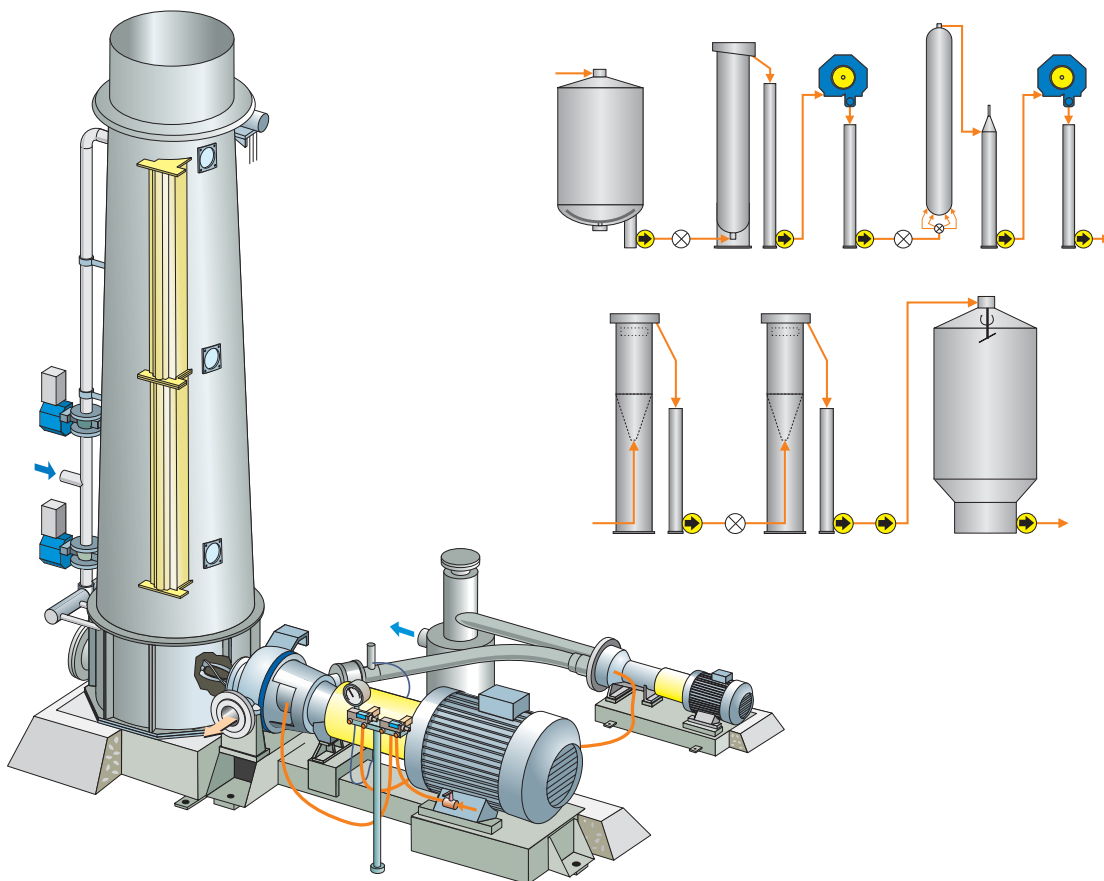


MC[®] Technology for Process Upgrades MCE[™] Pumping Systems



The Heart of Your Process

motralec

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High Performance MCE™ Pumping Technology

Medium consistency (MC®) pumping and chemical mixing systems are the most important stock transfer equipment in the modern O₂ delignification and bleaching processes, recycled fiber and mechanical pulp lines. With the MCE™ pumping technology, a new record level of performance over a wide consistency, temperature and pressure range is provided by the unique Fluidier™ impeller, having effective multifunctional turbulence generation, gas separation, pumping hydraulics and degassing combined with a wide-passage gas removal system of high capacity.

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Features and Advantages

Wide range of process applications matching industry standards.

High pump heads up to 220 m.

High production rates of 20 to 5000 ADMT/d.

Proven reliable mechanical design with degassing alternatives:

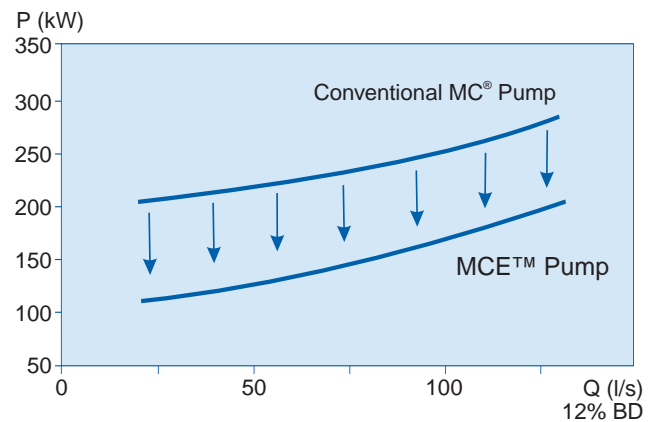
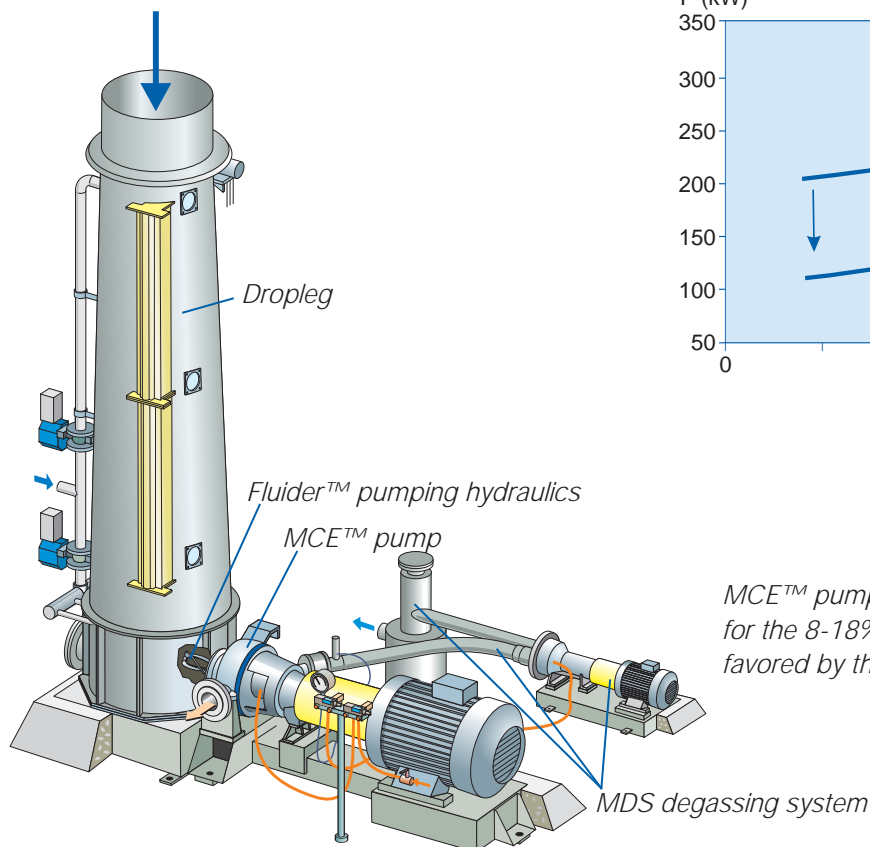
- a separate external MDS degassing system
- a built-in degassing system
- degassing without using a vacuum pump

High temperature and high consistency pumping:

- With the new MCE™ pump innovations, stock with a consistency of 14-16% and temperatures of over +95 °C can now be pumped from a low-level pumping vessel. This gives a significant saving in process costs (steam) plus layout advantages.

Fluidier™ pumping hydraulics for high efficiency performance:

- Remarkable power consumption savings with the same pumping head.



MCE™ pumping system arrangement for the 8-18% consistency range most favored by the process.

MCE™ Pumping Technology for Process Upgrades

The same MCE™ high performance has also been used for capacity and process upgrades through the installation of an MCE™ Retrofit to the existing MC® pumps of earlier generations. The same improvement can be realized through the installation of an MCA/MCV Hydrofit to the existing MCA/MCV pumps. These result in an improved process economy and increased production rate.

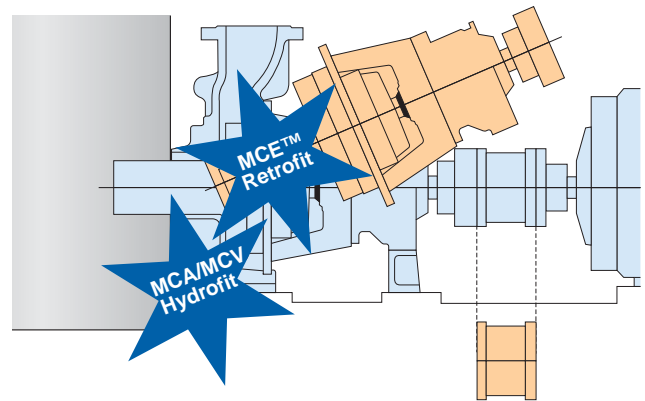
The retrofits are possible with only minor bare pump mechanical modifications, often requiring no piping or drive changes.

References

These proven upgrades are running in many countries including Brazil, Canada, Finland, France, Indonesia, Japan, Spain, Sweden, South Africa, United States.

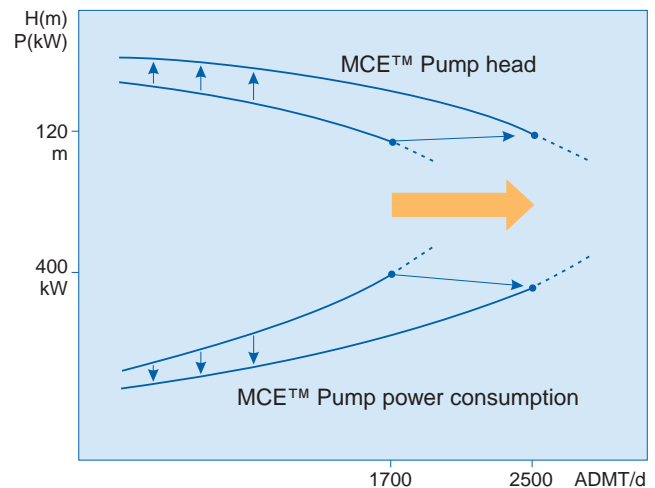
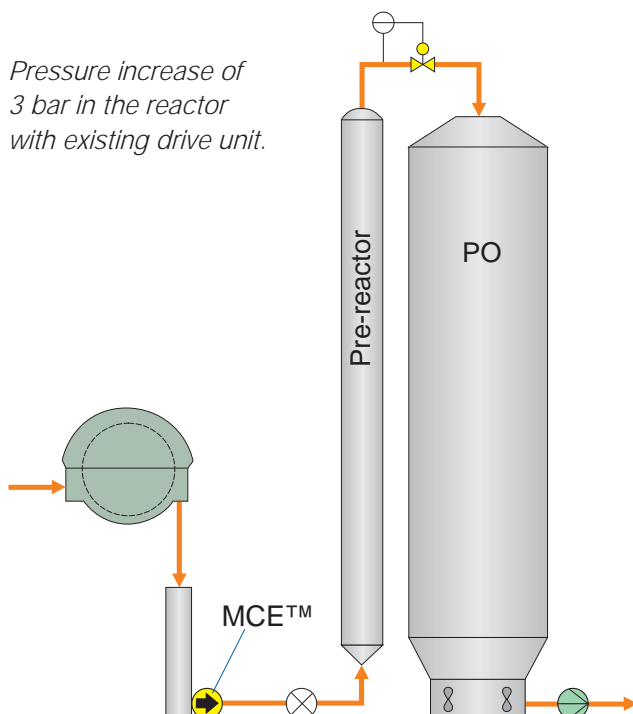
Benefits

- Increased bleaching efficiency
- Lower chemical consumption
- Increased production rates
- Lower energy consumption
- Reported pay back times even as short as 2-3 months



MCE™ Retrofit application in a bleaching line.

Pressure increase of 3 bar in the reactor with existing drive unit.



Production rate increase from 1700 to 2500 ADMT/d without increasing the power consumption.

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