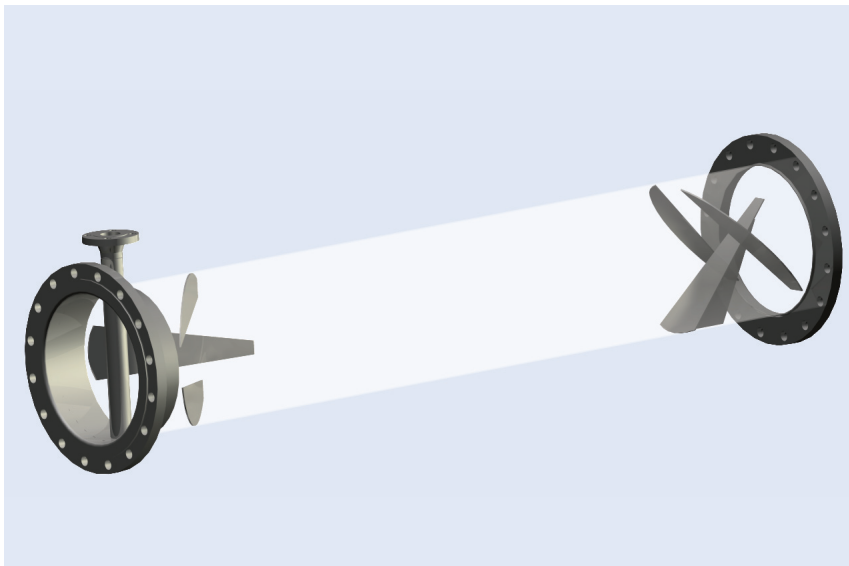


SMF Mixer for inline mixing in the Pulp and Paper industry

Modern pulp and paper production is based on continuous processes. Static mixing technology is fully proven over a wide range of continuous processes throughout the processing industry.

Many of the mixing operations in the pulp and paper industry can be successfully performed in-line relying upon the patented Sulzer SMF static mixer.



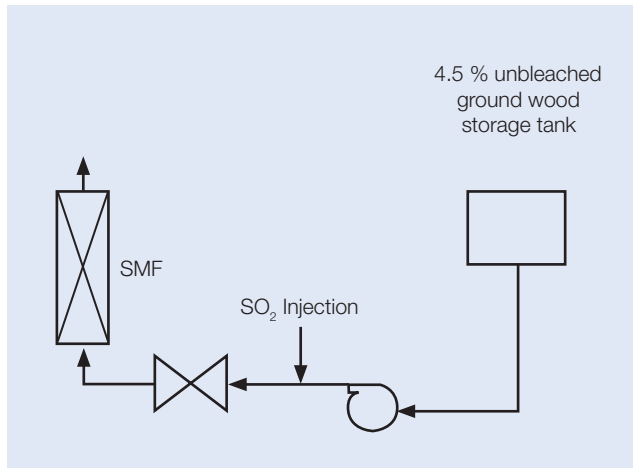
The Sulzer SMF mixer comprises a series of suitably configured flow diversion blades that cross without touching and blend the components very effectively as they flow through the mixer and yet allow unrestricted flow of pulp. The unique geometry of the SMF mixer ensures that the mixing takes place according to a pre-determined pattern resulting in an orderly and reproducible mixing effect. The result is increased efficiency, low energy consumption and reduced operation cost.

Sulzer SMF mixers have unique and attractive features:

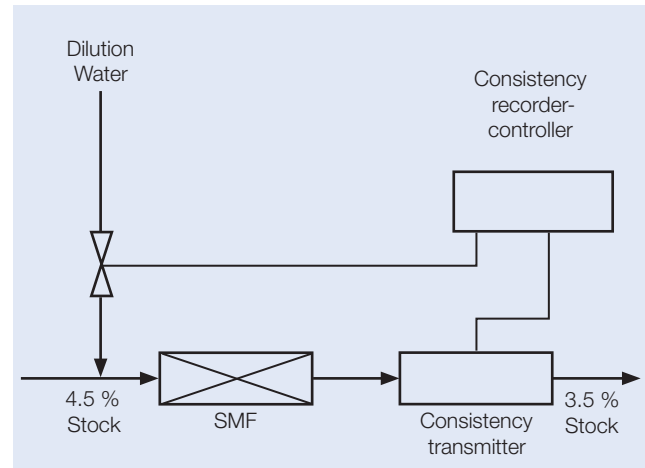
- **Reproducible, constant mixing quality** even under changing operating conditions
- **Short overall length, Small volume**, hence minimum space requirement
- **Low pressure drop** - hence low power consumption
- **No moving parts** - hence minimum shutdowns and maintenance costs
- **Simple installation** in pipes

Typical applications in the pulp and paper industry are illustrated on the back page.

Examples of duties for Sulzer SMF Mixers in the Pulp and Paper industry



pH-control of paper stock



Paper stock dilution

Process

Admixing of bleaching chemicals to pulp	<ul style="list-style-type: none"> • Reduced pulp damage • More uniform product
Admixing of wash liquors to pulp	<ul style="list-style-type: none"> • Higher capacity in wash tower • More uniform pulp with less fibre agglomerates
Stock blending	<ul style="list-style-type: none"> • More uniform product • Blending tank superfluous
Stock dilution	<ul style="list-style-type: none"> • Automatic regulation and control is easy (minimum dead time)
Adjustment of pH in paper stock	<ul style="list-style-type: none"> • No overdosing due to instant mixing and short dead time (automatic control is easy) • No additional tank needed
Admixing of dye and/or any other chemicals into paper suspension	<ul style="list-style-type: none"> • Blending tank superfluous • Quick changes possible with almost no waste
Admixing of retention chemicals in front of head box	<ul style="list-style-type: none"> • More uniform product quality

Characteristics

Headquarters

Sulzer Chemtech Ltd
P.O. Box 65
8404 Winterthur, Switzerland
Phone +41 52 262 67 20
Fax +41 52 262 00 69
sulzermixer@sulzer.com
www.sulzerchemtech.com

North and South America

Sulzer Chemtech USA, Inc.
4019 South Jackson Avenue
Tulsa, OK 74107, USA
Phone +1 918 446 6672
Fax +1 918 446 5321

Asia Pacific

Sulzer Chemtech Pte. Ltd.
10 Benoi Sector
Singapore 629845
Phone +65 6515 5500
Fax +65 6862 7563