

MEMBRANE FILTRATION FOR ALL INDUSTRIES

# MMS PROCESS DEVELOPMENT SERVICE

# MEMBRANE FILTRATION FOR



## MMS Process Development Service

### From Sample to Process

MMS specializes in development of membrane processes for dairy, food, bio-pharma, extracts, and water industries. The goal of the MMS process development is to allow our customers to establish whether membrane filtration technology is the right technology for your process. Questions we answer include:

- Is membrane filtration the right technology to concentrate or fractionate your product?
- What is the optimum membrane material, molecular cut-off and module configuration for your process?
- What process parameter, such as pressure, temperature and crossflow to use?
- What cleaning recipes to use to regenerate the membranes appropriately?
- How many loops and when should the diafiltration be initiated?
- What are the capital and operational expenditures?

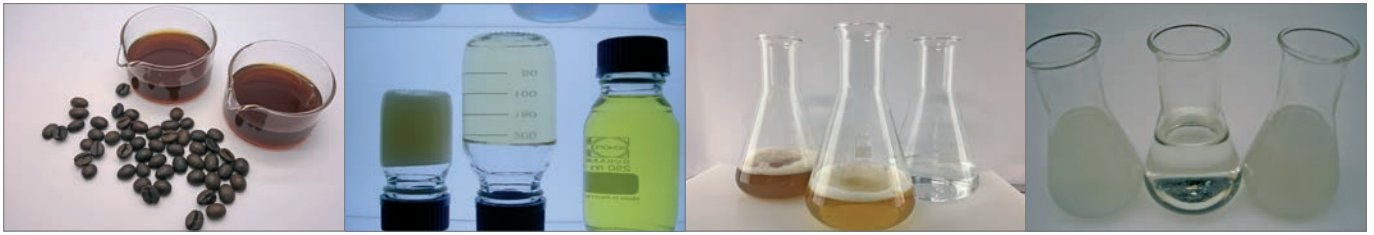


### Why work with MMS for process development

MMS works on all aspects of membrane technology, from process development, via piloting to complete filtration solutions. By having this wide knowledge we are able to deliver a comprehensive process development service to our customers.

- MMS offers small scale testing in our dedicated laboratory in Zurich. We need a small volume of 0.5 – 2 ltr. to carry out screening trials to establish a go / no-go for our technology.
- We have a range of laboratory units which can operate MF, UF, NF and RO applications.
- Our tests are run by membrane experts, allowing us to evaluate and adjust the trials in real time.
- We have a library of applications which we have run over the last 25 years. These are used to accelerate the process development of the next project.
- We have a stock of 100s of membranes so we can move fast and pivot in our trial program to suit our customers' needs.

# ALL INDUSTRIES



## From Laboratory to Piloting

MMS has numerous pilot membrane systems which we use to help our customer scale the trials we have run in our laboratory.

Our membrane experts support our customers through training and data analysis, allowing for a rapid transition from idea, to screening, and to industrialization.

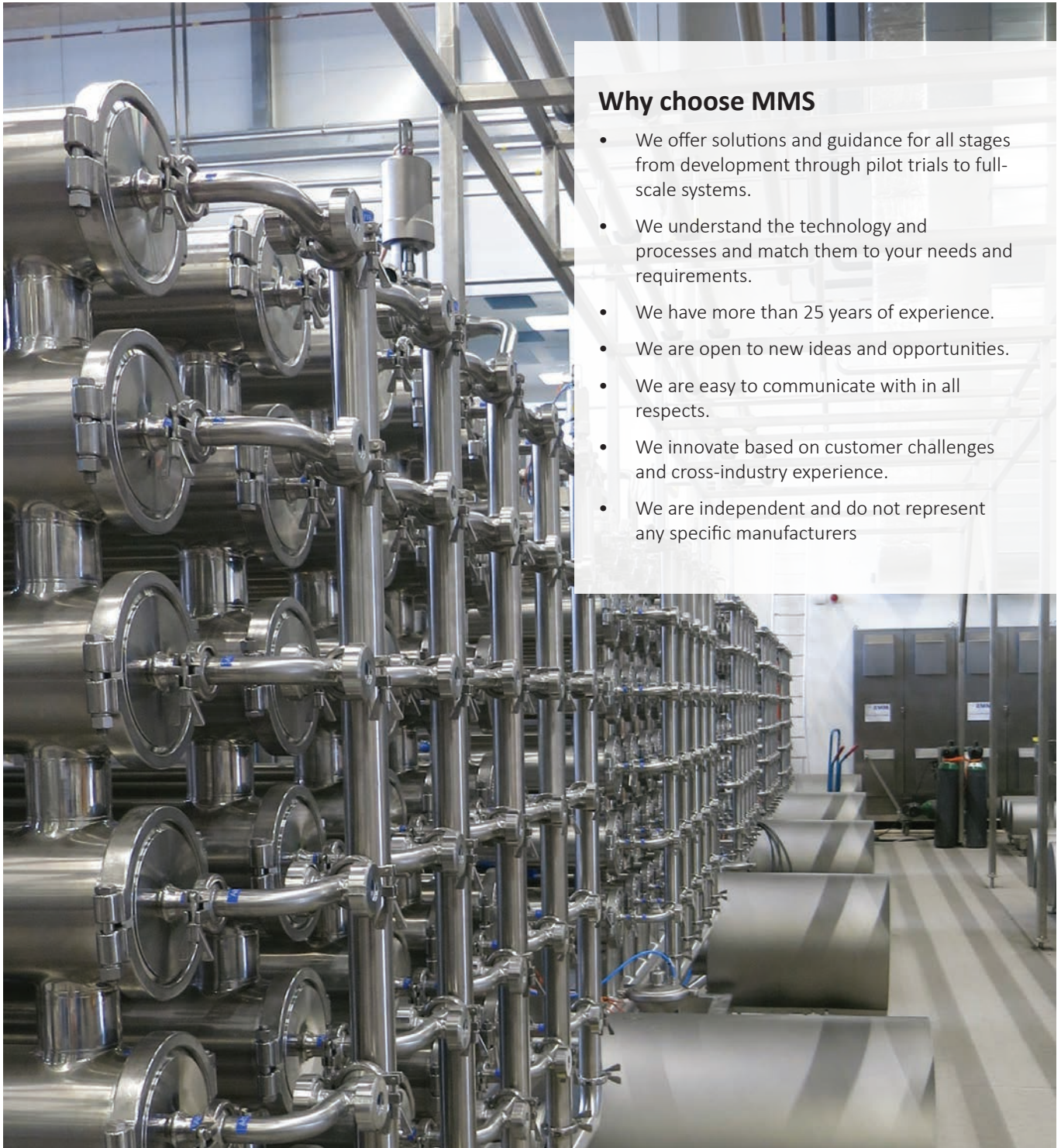
MMS supports the process development process by costing the solutions at laboratory, piloting and industrial scale. This gives our customers an indication of economic viability of the filtration process throughout the different phases of development.

Please contact our team for more information.



## MMS 3-step Process Development Service





## Why choose MMS

- We offer solutions and guidance for all stages from development through pilot trials to full-scale systems.
- We understand the technology and processes and match them to your needs and requirements.
- We have more than 25 years of experience.
- We are open to new ideas and opportunities.
- We are easy to communicate with in all respects.
- We innovate based on customer challenges and cross-industry experience.
- We are independent and do not represent any specific manufacturers

## CONTACT US

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