

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?

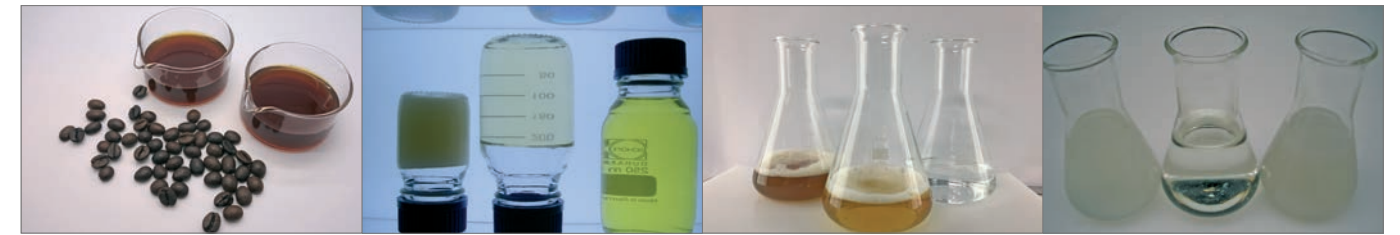


Why work with MMS for process development

MMS work 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 to our customers a comprehensive process development service.

- MMS offer small scale testing in our dedicated laboratory in Zurich. We need a small volume of 0.5 – 2 L 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 have numerous pilot membrane systems which we use to help our customer scale the trials we have run in our laboratory.

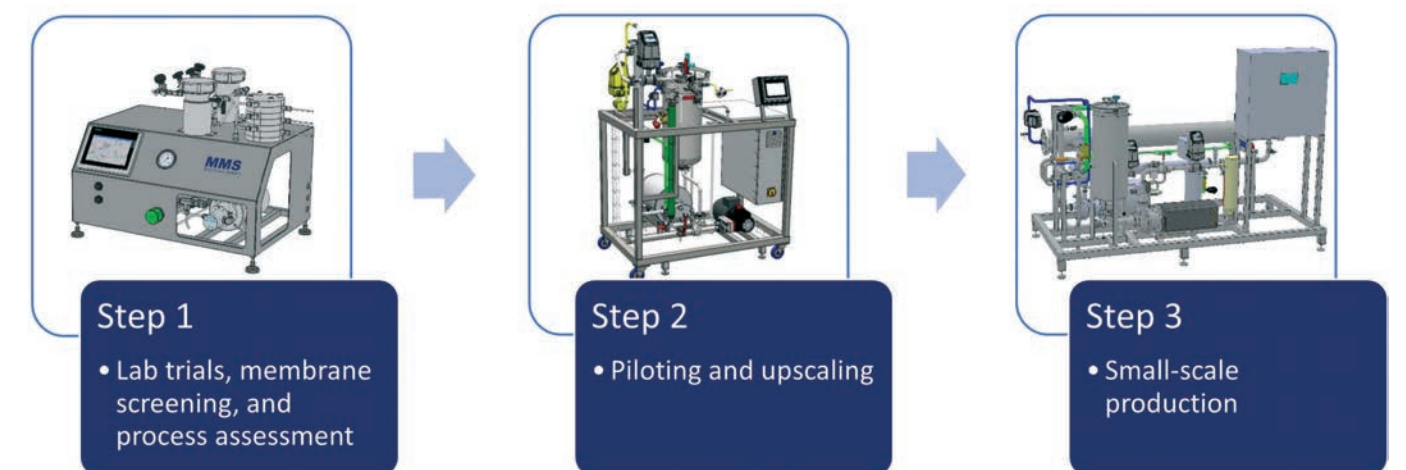
Our membrane experts support our customers through training, and data analysis allowing for a rapid transition from idea, to screening to industrialization.

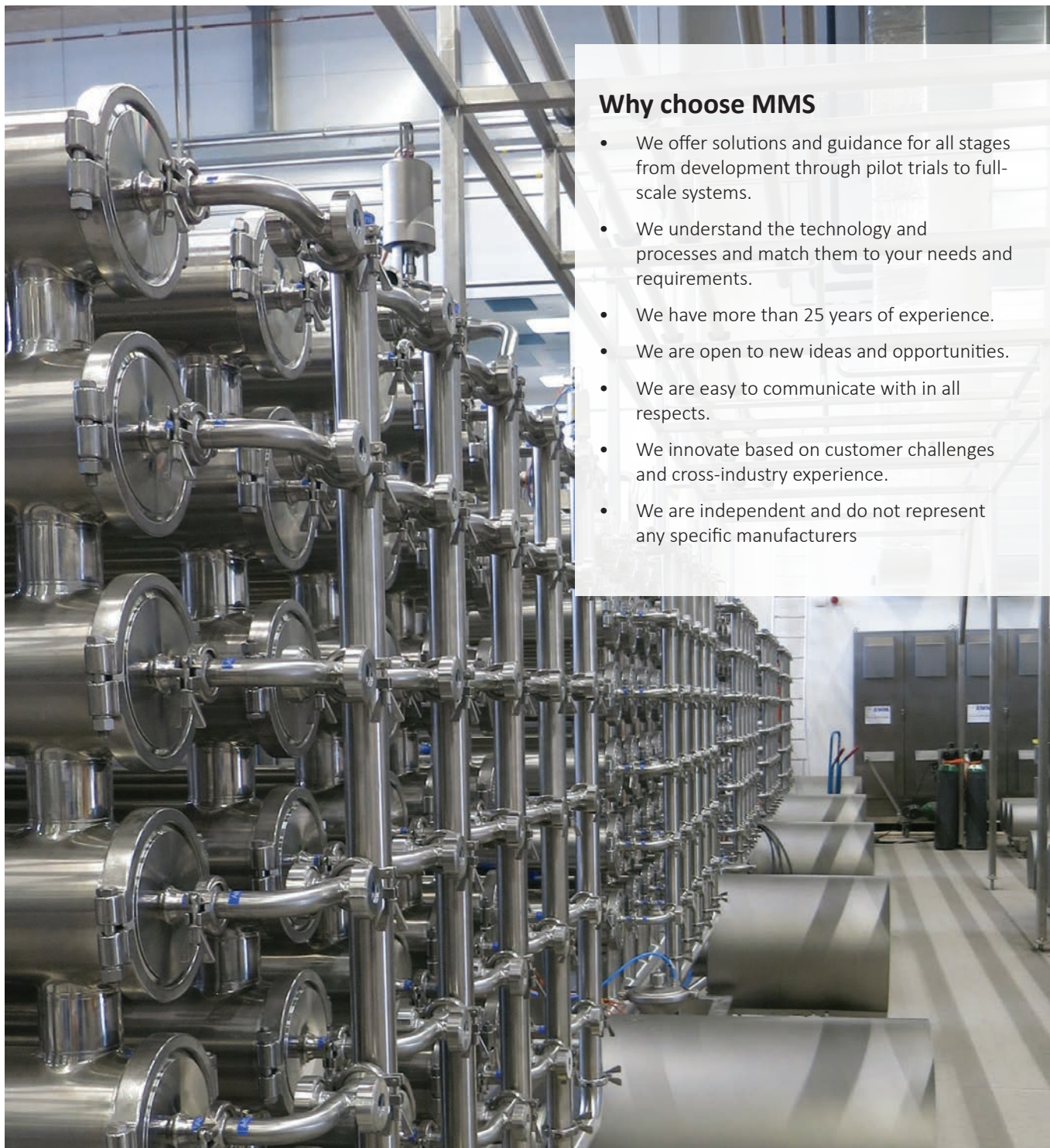
MMS support the process development process by costing the solutions at laboratory, piloting and industrial scale. This gives our customers an indication of economic viability of the filtration process throughout the different phases of development.

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

MMS
Membrane Systems

Zurich Office

MMS AG Membrane Systems
Im Grossherweg 11
8902 Urdorf
Switzerland
T: +41 (44) 735 59 00
info@mmsx.com
mmsx.com

Nordic Office

MMS Nordic
Ørstedvej 14A
8600 Silkeborg
Denmark
T: +45 7090 9030
info@mmsnordic.dk
mmsx.com