



MMS MEMBRANE SYSTEMS

MEMBRANE FILTRATION FOR ALL INDUSTRIES

MEMBRANE FILTRATION FOR



Your Trusted Partners in Membrane Filtration Technology

MMS Membrane Systems is a leading company in membrane filtration technology that offers a wide range of solutions for various applications and industries, such as dairy, food, beverage, biotech, chemical, extracts, and water reuse.

We use our cross-industry experience to enable new processes for our customers and provide reliable and innovative solutions for your membrane separation needs, whether clarification, fractionation, or concentration.



We have more than 25 years of experience in membrane process know-how, have installed a considerable number of industrial systems, and developed hundreds of applications in our membrane laboratory.

MMS boasts a team of experienced engineers and designers capable of delivering tailored solutions to meet customer-specific requirements. Additionally, our in-house workshop ensures high-end welding and manufacturing, complemented by a dedicated automation team equipped for optimal performance and efficiency.



Engineering and Technology

Membrane technology involves a large number of disciplines and skills, from understanding the molecular behaviour of feed material, its interaction with organic or inorganic membranes, to understanding how engineering components will fit together to form a complete design with the required automation to enable reproducible high-performance processing.

MMS offers all membrane filtration technologies from microfiltration, ultrafiltration, nanofiltration to reverse osmosis.

Process Development Service and Piloting

MMS specializes in the development of membrane processes. Our goal is to support our customers in establishing a complete solution, including technical feasibility studies and cost estimates at an early stage of development.

We have developed an extensive range of pilot systems ranging from 2 - 10,000 ltr. - perfect for evaluation of potential and viability of concept. We support our customers with process development through a dedicated membrane laboratory in Zurich or on-site, whilst we train you on our pilot units.

Please refer to our leaflets on Lab&Pilot Systems and Process Development Service for more information.



ALL INDUSTRIES



Examples of MMS Industrial Applications

DAIRY
Milk concentration (up to 35% TS)
Whey protein concentrate (WPC 35-85)
Milk protein concentrate (MPC 50-90)
Native whey and MCC production
Whey concentration
Whey demineralization
Milk and whey sterilization
Fractionation of oligosaccharides
Fractionation of whey proteins
Brine water treatment

EXTRACTS
Extraction of grass protein (RuBisCo)
Fractionation & concentration of plant extract
Concentration of algae protein
Concentration of aromas & fragrances
Extraction & concentration of natural colors
Concentration of coffee extract

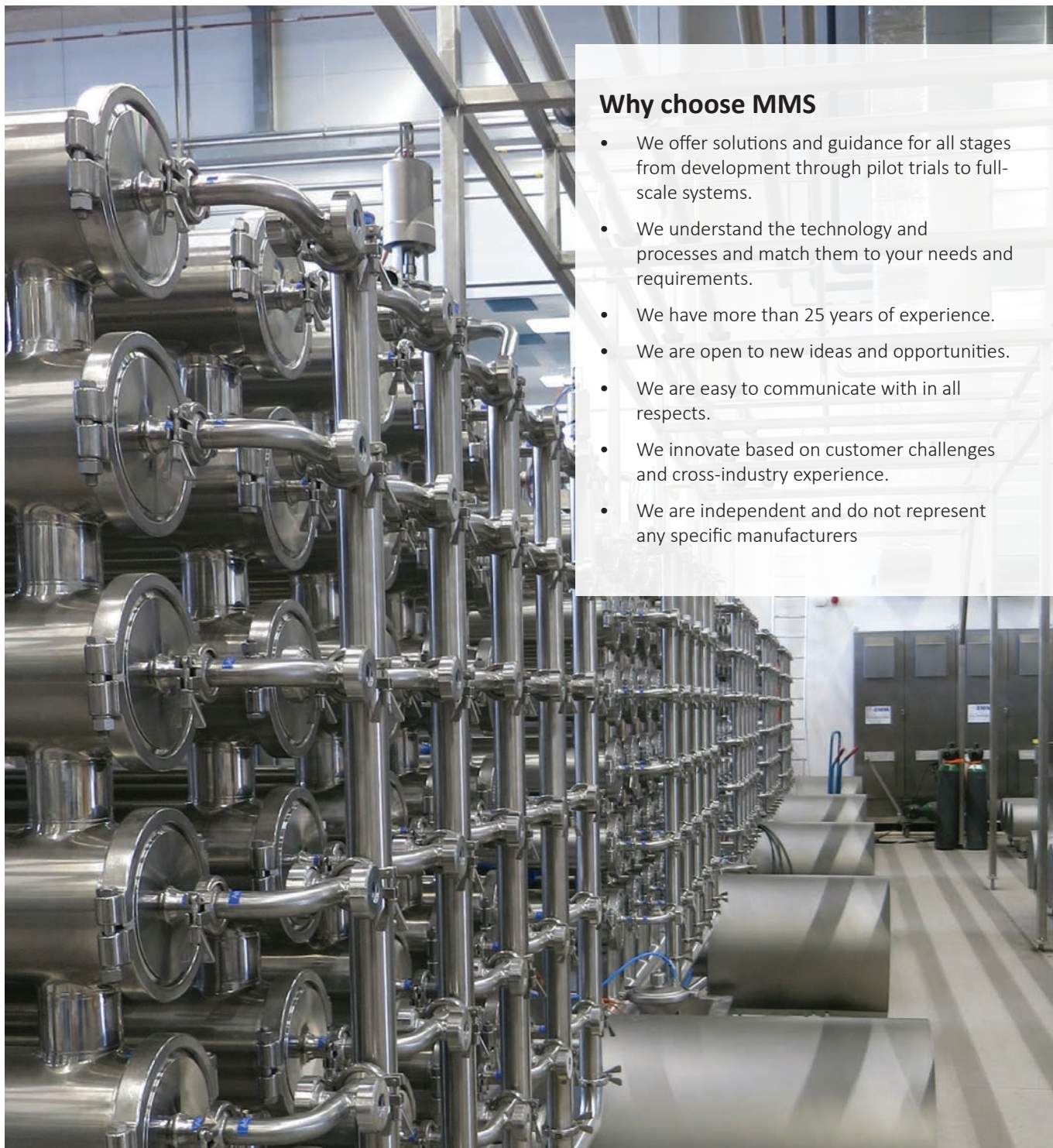
CHEMICAL
Clarification & purification of organic acid
Concentration of organic acid
Purification of isopropanol
Concentration of inorganic salts
Reuse of CIP caustic and acid
Reuse of condensate
Separation of oil/water
Clarification of polysaccharides



FOOD & BEVERAGE
Protein fractionation & concentration
Extract fractionation & concentration
Hydrolysate fractionation & concentration
Sugar fractionation & concentration
Dealcoholization of beer, wine, and cider
Ethanol recovery
Juice clarification & concentration
Coffee condensate reuse
Soya milk de-bittering and concentration
Gelatine clarification and concentration

BIOTECH
Fermentation broth clarification
Protein and enzyme concentration
Concentration and desalting of pharma ingredients
Removal of wastewater contaminants
Peptide concentration & de-salting
Oligosaccharide purification & concentration

WATER REUSE
Process wastewater recovery and reuse
COD & TOC reduction in process water
Oil removal from water
Condensate water polishing
White water treatment
Brine water treatment
Salad water treatment
Sweetener wastewater treatment



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

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