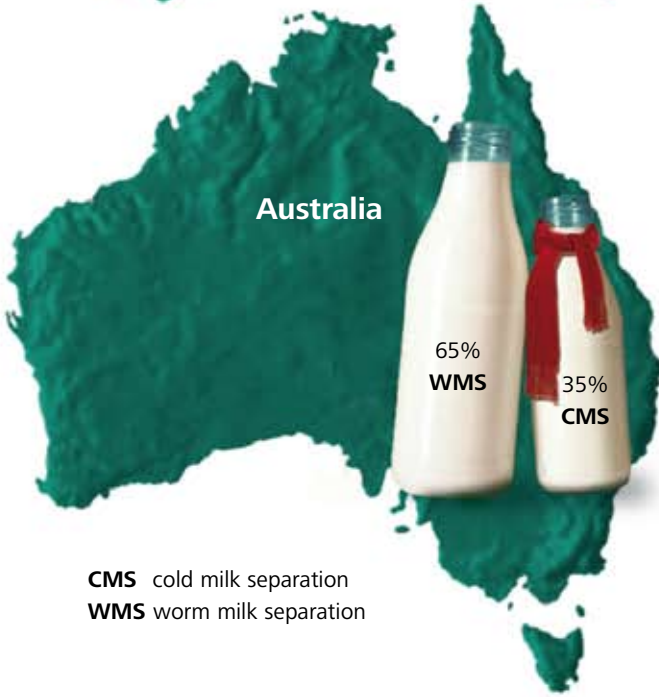




# Cold Milk Separation with Westfalia Separator **PROCOOL** Technology

Leadership Solution



**CMS** cold milk separation  
**WMS** worm milk separation



## On to Pastures New!

The markets for cold milk separation are expanding dynamically; the same is true for the earnings potential of efficient dairies:

- America
- Mexico
- Australia
- New Zealand
- Europe

Dairies, particularly in the USA, Mexico, Australia and New Zealand, are increasingly using cold milk separation for skimming purposes.


Separating milk in this way allows dairies to comply with their customers' quality requirements for products such as milk powder and drinking milk. Cold milk separation with Westfalia Separator **PROCOOL** satisfies this requirement both in terms of the physical and microbiological properties of these products. Westfalia Separator **PROCOOL** also stands for a new and permanent optimum efficiency throughout the entire process of cold milk separation.



Westfalia Separator  
**PROCOOL** sets new  
standards in cold milk  
skimming both in terms of  
throughput capacities and  
skimming efficiency.

# PRO COOL

The New Standard of Cold Milk Separation

A dynamic splash of white milk is captured against a light blue background. The milk is in mid-air, creating a complex, branching shape with several droplets and a main body that tapers off. The lighting is soft, highlighting the texture of the milk.

# 10 – 50,000 l/h

skimming efficiency 0.08 – 1.0 %,

product temperature > 4 °C.



# Minimum Energy Input

## Maximum Product Quality

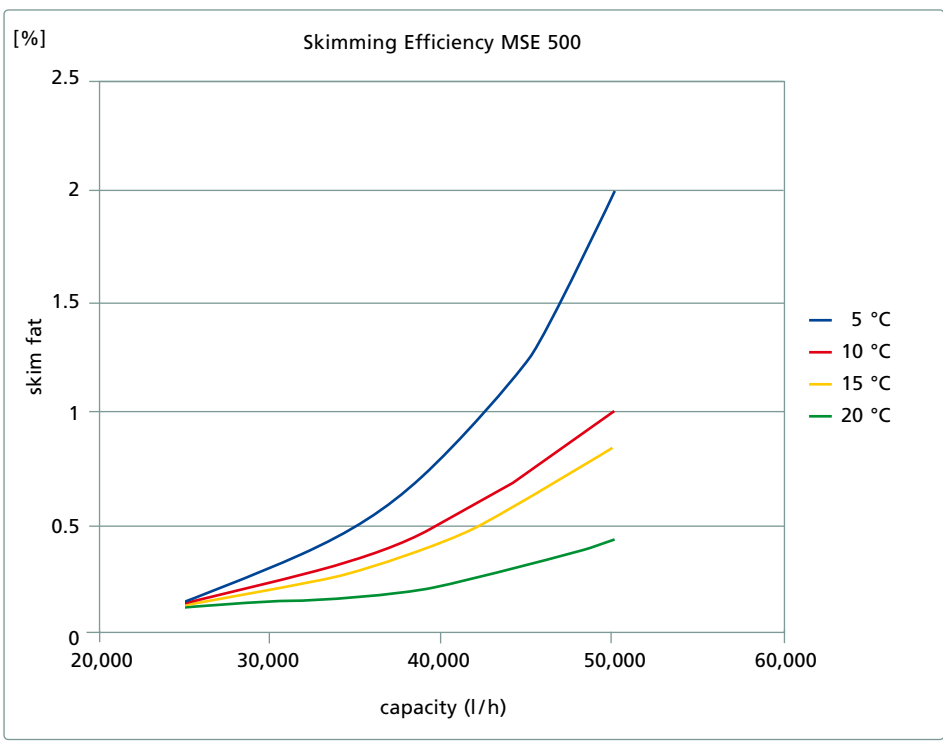
Westfalia Separator **PROCOOL** has been developed with the benefit of over 110 years of experience in the milk processing industry and technology leadership in mechanical separation technology. Westfalia Separator **PROCOOL** fully develops the overall benefits of cold milk separation:

- Improvement of the bacteriological nature of the end product by cold treatment of the raw milk
- Energy savings as there is no requirement for heat
- Reduction in denaturing of proteins (WPNI  $\geq$  6mg N/g)
- Production of specific products according to the customer's specifications

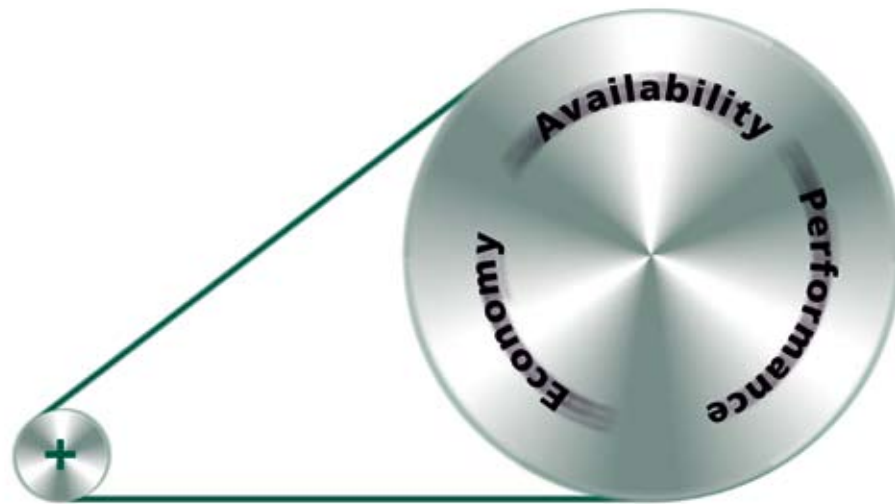
**In addition to these benefits, the Westfalia Separator PROCOOL innovation sets new standards in terms of throughput capacity, separating efficiency, process reliability and effectiveness of cold milk separation.**



In addition to minimized energy costs the belt drive of Westfalia Separator **PROCOOL** reduces maintenance time and costs and increases the availability of high separation performance for the customer.







## Cutting Costs with Maximum Availability

**The advantages of cold milk separation combined with maximum capacity and high separation efficiency are increasingly in demand. Westfalia Separator PROCOOL offers more:**

Based on first-class engineering, Westfalia Separator **PROCOOL** combines top performance and a significant reduction in operating costs with an equally efficient and robust concept: the belt drive.

The clutch and gear-free power transmission as well as the short bowl spindle reduce energy input and machine wear. Costs of spare parts and maintenance are also minimised.

Westfalia Separator **PROCOOL** additionally improves added value in cold milk separation by:

- Permanent top performance due to the low-wear and low-maintenance belt drive
- Permanent reduction of operating and maintenance costs
- Permanent reduction of drive force losses due to better power transmission



# Yesterday Hot, Today Cold, Tomorrow Both – Flexibility is Standard

**Westfalia Separator PROCOOL is the design response to the physical restrictions resulting from cold milk separation.**

Westfalia Separator **PROCOOL** also takes account of the increasing demands of the market and the competition. This involves the following:

We have satisfied all quality parameters of cold milk separation, and have integrated increased capacity, lower costs and flexibility into the innovation that is Westfalia Separator **PROCOOL**. This is particularly appropriate for optimising the raw milk feed and cream discharge. In addition to maximum raw milk yield, high separating efficiency and dramatically reduced operating costs, dairies benefit from the following:

- Rapid and easy change between hot and cold processes with the same separator
- Complete CIP capability of the cold milk separator
- Flexible throughput capacity





Westfalia Separator  
Food Tec  
capital  
care

# Westfalia Separator CapitalCare - Increased Availability, Budget Reliability, Improved Efficiency

Westfalia Separator CapitalCare combines decades of experience in providing services relating to centrifugal separating technology.

For investors, this provides the options of increased availability, maintenance for fixed budgets and the ability to boost efficiency. With Westfalia Separator CapitalCare we have created an instrument that supports the work of our customers and develops solutions before problems occur on the production facilities.

Westfalia Separator CapitalCare means comprehensive service right from the very first discussion onward. In close cooperation with our customers, specialists identify solutions that are specifically tailored to meet the needs of our customers. From project planning and assembly right through to extensive support for your systems, you receive comprehensive support from new Westfalia Separator CapitalCare.

## Act proactively

With Westfalia Separator CapitalCare, our customers not only benefit from traditional services such as inspection, maintenance, original spare part procurement and repairs, they also benefit from proactive risk-avoiding solutions, e.g. the online and offline monitoring facility with Westfalia Separator WEWATCH®. Modernisation supporting a company's work, or upgrading to reflect state-of-the-art technology, also offer the option of boosting performance as required.

## Optimum support guaranteed

In further-training programmes, on your premises or in our modern training centre, your employees learn how to work with the high-tech installations. And if problems do occasionally occur, or if a spare part is required quickly, we are of course able to provide immediate assistance. We guarantee this with more than 50 sales and service companies and 60 other sales partners worldwide.

## Programmed quality

There are, of course, even more areas of application for separators and decanters apart from beverage technology, dairy technology and vegetable oil processing. As one of the leading companies in the field of mechanical separating technology in the world, Westfalia Separator also operates in many other areas. Please contact us as required for processing systems, for applications in the chemical and pharmaceutical industries, biotechnology, oil and fat recovery, the starch industry, industrial biotechnology, marine, energy, oil field, industry and environmental technology.







## Let's Talk Business

You can be certain that the initial discussion with our specialists will be worthwhile as we treat every enquiry seriously and guarantee to work with you efficiently to achieve rapid results.

**Boosting performance, reducing costs, increasing profits – with Westfalia Separator PROCOOL.**

[dairy@gea-westfalia.de](mailto:dairy@gea-westfalia.de)

- Beverage Technology
- Dairy Technology
- Oils and Fats Processing
- Chemicals, Pharmaceuticals and Biotechnology
- Oils and Fats Recovery
- Starch Technology and Industrial Biotechnology
- Environmental Technology
- Marine
- Energy
- Oilfield
- Industry
- Engineering
- Second Hand Machinery
- Service

The information contained in this brochure merely serves as a non-binding description of our products and is without guarantee.

Binding information, in particular relating to capacity data and suitability for specific applications, can only be provided within the framework of concrete inquiries.

Printed on chlorine-free bleached paper

9997-1109-000/0206 EN

Printed in Germany

Subject to modification

**Westfalia Separator  
Food Tec GmbH**  
Werner-Habig-Straße 1  
59302 Oelde (Germany)

Phone +49 2522 77 - 0  
Fax +49 2522 77 - 2089  
foodtec@gea-westfalia.de  
www.westfalia-separator.com

**GEA** Westfalia Separator  
Food Tec

Take the Best – Separate the Rest

A company of GEA Group