BouMatic®

For the life of your dairy™

MilkGenius

In-line Milk Analyzer



Focus on the herd data you need,
maximise high-quality milk yield.

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Want to save time and costs and stay in control?

The **MilkGenius In-Line Milk Analyzer** is an advanced sensor that integrates seamlessly with your Gemini milk robot or BouMatic milking system. It functions like a miniature laboratory, measuring milk composition for each cow in real time. Using an ultra-precise laser sensor, it continuously analyzes fat, protein, and lactose as milk flows through the system. These are the most important data on your milk quality since milk check payments depend on fat and protein. Fully automated and reagent-free, the system eliminates the need for manually taken milk samples, saving you valuable time and costs while providing greater control over herd management.



By detecting diseases early and enhancing milk quality, the **MilkGenius** provides superior control and oversight of your dairy herd. This powerful diagnostic tool aids in selecting your most profitable cows, allowing you to make informed decisions that boost farm productivity.

LAB ACCURATE DAILY
DATA ON THE SPOT

Discover the most accurate In-Line Milk Analyzer on the market, validated by ICAR*. This cutting-edge device offers continuous daily measurements of fat, protein, and lactose, providing you with ultra-precise and comprehensive data. You'll have the most reliable information at your fingertips, which you can easily share with external parties.



The **MilkGenius**-application provides you with information about the health and productivity of dairy cows at the herd, group, and individual animal levels. The displayed data includes:

- Milk composition (fat %, protein %, lactose %)
- Fat-to-protein ratio
- Health warnings for cows

***ICAR Validation:**
Brolis BHL01 In-line Analyser Principle manufactured by Brolis Sensor Technology, has been validated by ICAR for the principle for an in-line analyser for milk fat and milk protein

ENHANCE BREEDING MANAGEMENT
WITH SMART INSIGHTS

Breeding management is important to you? The MilkGenius will assist you with detailed insights into fat, protein and lactose production at lactation level, which are the milk components that pay the bills. So the analyzer offers a comprehensive overview of each cow's efficiency, helping you to improve cull management decisions and sire selection.

JUST FEED SMARTER
WITH UNPARALELLED CONTINUOUS DAILY MONITORING

By continuously monitoring the composition of the milk in real-time, this advanced sensor provides a day-to-day snapshot of your cows' nutritional intake, ensuring you can track every variation in their rations. **Whether you're managing a single milking shift or multiple shifts daily**, this analyzer offers highly detailed data that can be broken down by each individual cow's performance. With this unparalleled continuous monitoring, you can track changes in rations and gain valuable insights into feed variations. This allows you to make quick interventions to optimize feeding strategies, ensuring the health and productivity of your herd. This proactive approach not only enhances milk quality but also supports overall farm efficiency and profitability.



STAY ON TOP OF YOUR HERD PERFOMANCE
IN ANY TYPE OR SIZE OF MILKING SYSTEM

The MilkGenius is designed for seamless integration across a variety of milking systems, offering exceptional flexibility to suit different stall types. Whether you're using milk robots, parallel stalls, or rotary milking parlors, the analyzer can be easily installed to continuously monitor and analyze the milk data during different milk shift. This versatility ensures that no matter the setup of your farm, you can benefit from real-time insights into the health and nutrition of your herd.



IT'S ALL AUTOMATED FOR YOU

The fully automated MilkGenius In-Line Milk Analyzer revolutionizes your milk recording process by offering significant time savings compared to traditional monthly recordings.* With this advanced system, there's no more struggling with sampling devices connected to the robot, making the entire process seamless and user-friendly.

Additionally, the analyzer ensures there is no milk capacity loss on the robot when sampling, allowing for uninterrupted operation at full efficiency.

Best of all, the system requires no calibration, reducing maintenance efforts and ensuring consistent, reliable performance.

**The MilkGenius is not ICAR certified to use as official milk recording method.*

DURABILITY REDEFINED: MAINTENANCE-FREE, COST-FREE, WORRY-FREE

Our state-of-the-art MilkGenius stands out with its durable hardware, designed to ensure longevity and reliability.

One of its key features is the absence of wearing parts, which means it requires no preventative maintenance, saving you time and hassle.

Additionally, it operates without the need for reagents, eliminating any additional costs associated with consumables. To top it off, the system supports remote monitoring, allowing you to ensure its proper functioning from anywhere, providing peace of mind and operational efficiency.

The In-Line Milk Analyzer has successfully met the requirements of the Replacement Parts and System Component Qualification Certificate program by 3-A Sanitary Standards, Inc.

PROFITABLE HEALTH MONITORING

You will benefit from a continuous health monitoring, effectively detecting metabolic disorders such as (sub)clinical ketosis and (sub)clinical acidosis (milk fat depression). By identifying these conditions early, the analyzer:

- Helps prevent the loss of income caused by decreased milk production.
- Reduces veterinary costs.
- Lowers the risk of other illnesses due to decreased immunity.

This proactive approach ensures the health and productivity of your herd, safeguarding your investment and enhancing your overall farm efficiency.



DO YOU KNOW THE HIDDEN COSTS OF SUB-CLINICAL KETOSIS?

Nearly every dairy cow experiences a Negative Energy Balance (NEB) around calving. It occurs when the energy required for milk production and maintenance exceeds the energy intake from feed. In some cases NEB causes sub-clinical ketosis, which is difficult to detect because your cow doesn't show obvious clinical signs. But the condition can have several significant impacts:

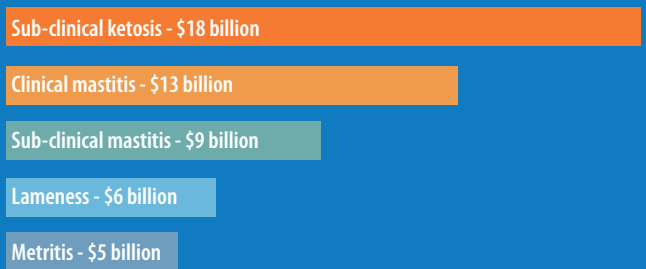
Decreased milk production in the early lactation. This drop in production and thus not reaching the production peak will also affect the production in the rest of the lactation.

Health problems and decreased immunity: cows are more susceptible to metabolic disorders such as clinical ketosis and fatty liver disease, which can further compromise their health. The weakened immune system increases the risk of other illnesses and infections such as leg problems, mastitis, displaced abomasum, etc

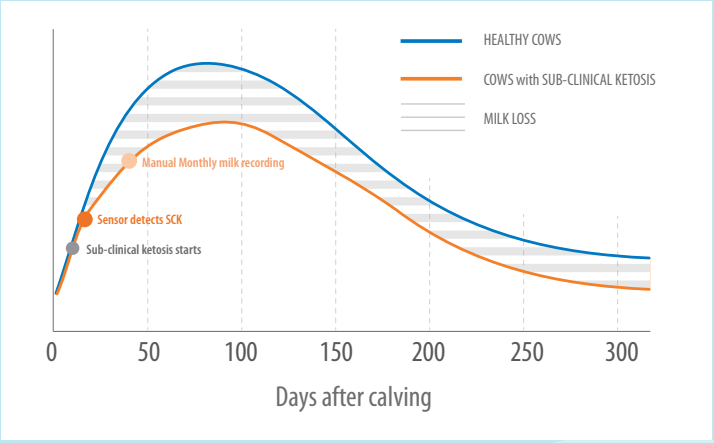
Increased veterinary costs for consults and treatments.

Poor fertility: sub-clinical ketosis can lead to reduced reproductive performance, making it harder for cows to conceive and maintain pregnancies.

THE COST OF THE WORLD'S TOP-5 DAIRY DISEASES



**Source: www.dairyherd.com/news/dairy-production/cost-worlds-top-12-dairy-diseases



MIND THE COSTS!

Scientific research has proven that sub-clinical ketosis can result in a total cost of up to €262 per affected cow*, which can result to an even higher total cost than cost associated with mastitis. Another study** indicated that sub-clinical ketosis ranks as the number one disease globally in terms of annual losses, costing approximately USD 18 billion each year.

TACKLE THE PROBLEMS BEFORE THEY ARISE

Managing NEB effectively is crucial for maintaining the health, productivity, and profitability of dairy herds. Knowing the ratio of fat-to-protein promotes early detection of sub-clinical ketosis. Ensuring a balanced diet at the right time with adequate energy intake can help mitigate these negative effects.

*: Liang et al., 2017; McArt et al., 2015 **: Rasmussen et al., 2024

A PARTNERSHIP FOR SUCCESS

At BouMatic, we are proud of the long-term relationships that we have with our users from around the world. As the largest privately-owned company in the sector, we focus all our energy on our customers. In all our dealings and on all levels, we work for you, our customers, because your success is our success.

OUR PHILOSOPHY

From our modest beginnings, we have always stayed true to the core values of our founders.

Today, as an industry leader, those values have become our guiding principles.

- Animal health
- Commitment to scientific research
- Profitability

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Dealers and servicing

BouMatic has access to a global network of dealers. Thanks to them, we are able to offer our customers the expertise and experience of a multinational combined with the proximity of local experts. Targeted training is offered to customers with each purchase.



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