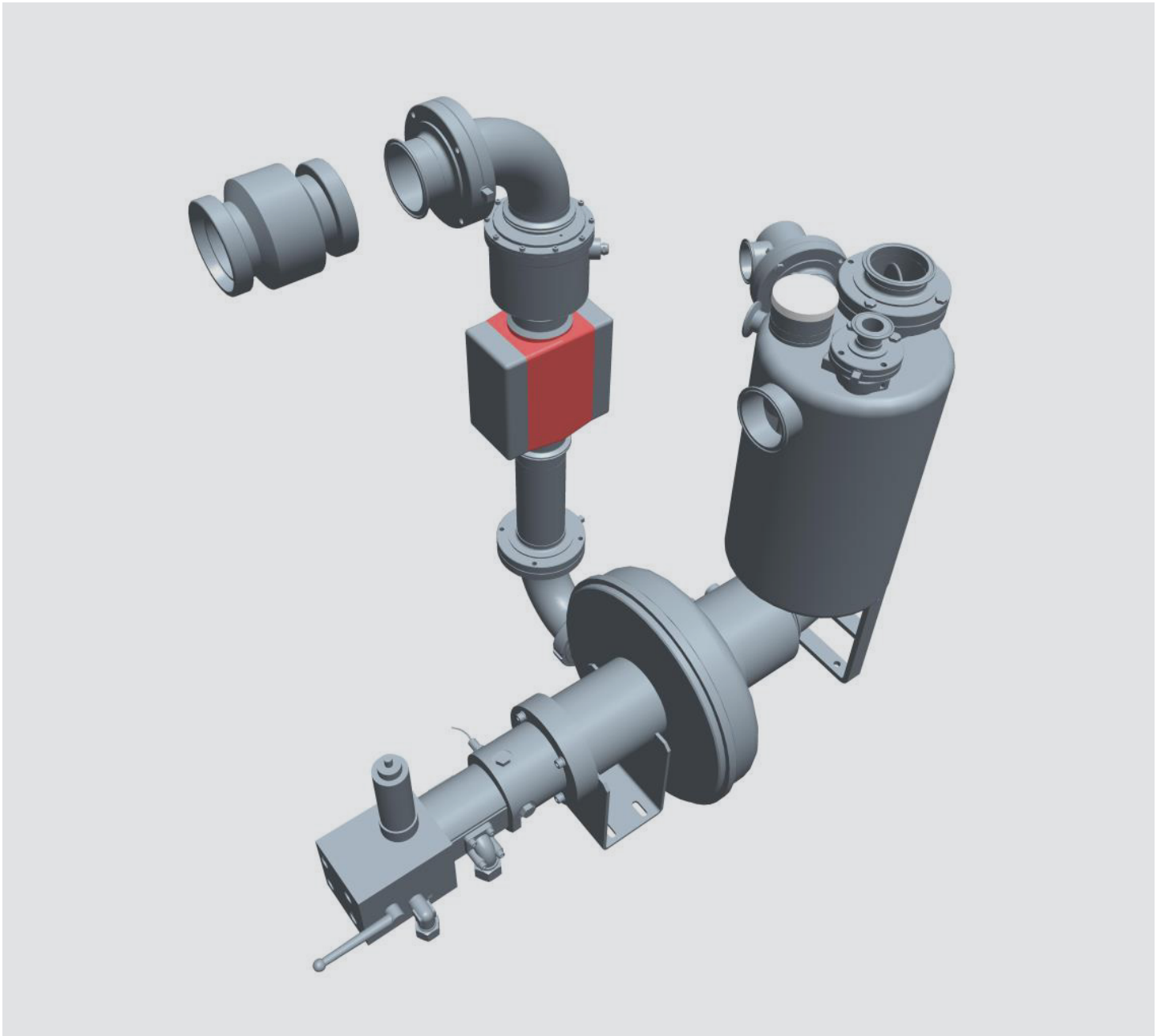


TIGER Milk Measurement and Sampling System

When your business depends on it:
faster, lighter, more accurate.



TIGER Milk Measurement and Sampling System

Simply the better way to measure

The TIGER measurement and sampling system is BARTEC BENKE's answer to the rising demands of profitability and effectiveness in the milk collection process. Instead of employing an error prone air separation system, BARTEC BENKE successfully uses air sensor technology. High speeds and absolute precision have revolutionized the milk intake at the farm. Within milliseconds, an absolute accurate and constant density and volume measurement is taken. The bubble sensors employed assure correct and unaltered measurement results.

All involved parties profit: trucking companies, dairies and farmers. The low weight of the TIGER measurement and sampling system decreases the total vehicle weight and thus facilitates a higher payload in milk and reduces fuel costs. That means lower costs and higher profits for trucking companies. The TIGER measurement and sampling system increases not only the profitability, but also the performance in milk collection!



“The TIGER system excels due to its very low net weight, quiet and continuous operation, as well as through its suction performance, which even under difficult local farm conditions always performs at the verge of the physically possible maximum level. Topping it off: the Ultrasampler sampling system.”

A background image showing a thick stream of white milk falling from the top center, splashing outwards in a wide, shallow pool. The splashes are captured in mid-air, creating a dynamic and textured appearance. The overall color palette is monochromatic, using various shades of white and light grey.

Gentle milk treatment, preventing free fatty acid generation

System weight under 250 kg – for more payload and less transportation costs

High precision measurement data – for constant density values in milk collection

High suction speed – reduce the time of milk intake

► Start with a new dimension of milk collection!

TIGER – the new standard in milk collection from BARTEC BENKE is a plus for everyone. Trucking companies and dairies profit from the distinct and sustainable improvements.



The TIGER - distinguishing features:

High suction speed	1.500 l/min
Active air bubble sensors	deliver exact data on density and volume
Representative sampling	of farm specific and total truck samples
Reliable and maintenance free	fully electronic system
Gentle milk treatment	at maximum suction speed
Maximum efficiency	<ul style="list-style-type: none"> - via remote online diagnostics - remote updates - high performance LINUX operating system

Hardware

Numerous enhancements possible, including:

- GPS supplier and farm data acquisition
- GPRS

Software

All system connection and integration possible via software update into the controller without compromising weights & calibration data.

- multiple languages available and upgradeable
- raw milk separation
- freely programmable suction interval at the end of the milk intake



TIGER controller



TIGER measurement system



Barcode/RFID coded sampling bottle



Ultrasonamer, 4-way sampling capacity

TIGER milk measurement system



Electrical data

Power supply	24 V on board system
Emergency mode	available
Air pressure ejector	6 bar maintenance unit
Valve Cluster	6 bar maintenance unit
Air pressure level	4 bar with 0.01 µ filter
Air consumption ejector	approx. 500 ml/min, 6 bar
Suction performance	max. 1350 l/min at milk intake max. 2000 l/min during circulation
Drive	hydraulic motor 23.7 cm ³
Hydraulic oil throughput	approx. 40 l/min, 200 bar
Drive speed	1500 rpm
Hydraulic connection	> 16mm flow line / return line >28mm
Hydraulic fluid volume	> 60 l incl. oil cooler
Connections	3" clamp
Accuracy	≤ 0.5 %
Minimum intake volume	100 l
CIP	max. 85 °C, 2 bar

Mechanical data

Material in milk contact	stainless steel (V2A), PTFE, PEEK, POM	
System dimensions	Euro 6 conformity	
Measurement system weight	< 250 kg	
– Environmental conditions		
Operating temperature range	Medium	0 °C to 85 °C
	Electronics	-20 °C to 50 °C
Storage temperature	without medium	-20 °C to 60 °C
System protection standard	IP 65	