



**INNOVATIVE ANALYTICAL SOLUTIONS  
FOR THE DAIRY INDUSTRY**

Bentley Combi FTS System

# Bentley Instruments

- **President & Owner:  
Bent Lyder**
- **Headquarters: Chaska,  
MN - USA**
- **20,000 square feet  
(Production, R&D,  
Stock,...)**



# Bentley Instruments Inc.

- Founded in 1983
- Headquarters: Chaska, Minnesota (USA)
- Present in + 40 countries
- Over 1300 instruments installed worldwide
- Market: Dairy industry worldwide, exclusively
- 7 Subsidiaries in Europe + distributors network

# Bentley Instruments

## *Product Lines*

<b><i>BactoCount IBC 50, 100 and 150*, IBCm</i></b>	Flow Cytometry	<b>Bacteria Counters</b> Up to 150 samples/h
<b><i>Bentley FTS</i></b>	FTIR	<b>Fat, protein, lactose, MUN, FPD, FFA+++</b> Up to 500 samples/hour
<b><i>Somacount 150*, 300* &amp; 500*, 500 FCM</i></b>	Flow Cytometry	<b>Somatic cells counters</b> 150, 300 and 500 samples/hour
<b><i>Bentley 2000/150*</i></b>	Filter IR	<b>Fat, Protein, Lactose, FPD,...</b> Up to 500 samples/hour
<b><i>Combi 150*, 300* &amp; 500* , FTS</i></b>	Filter IR/FTIR + FC	<b>Fat, protein, lactose, FPD, somatic cells ++</b> 150, 300 and 500 s/h
<b><i>ChemSpec</i></b>	Enzymatic	<b>Urea.</b> Up to 150 samples/hour

# Global Distribution

## Bentley Subsidiaries

- Part of Bentley Instruments Inc.
- 7 Located in Europe
- Directly responsible for sales and service.
  - Bentley Poland Warsaw, Poland
  - Bentley Instruments Lille, France (W. EU)
  - Bentley Hungary KFT Budapest, Hungary
  - Bentley Czech S.R.O. Brno, Czech Republic
  - Bentley Merkim. Izmir, Turkey
  - Bentley Instruments Moscow, Russia
  - Bentley Instruments Kiev, Ukraine

# Bentley Combi FTS Implementation of FTIR technology

**Bentley Combi FTS  
Somacount FCM + Bentley FTS**

**Bentley FTS  
FTIR Milk Analyzer**

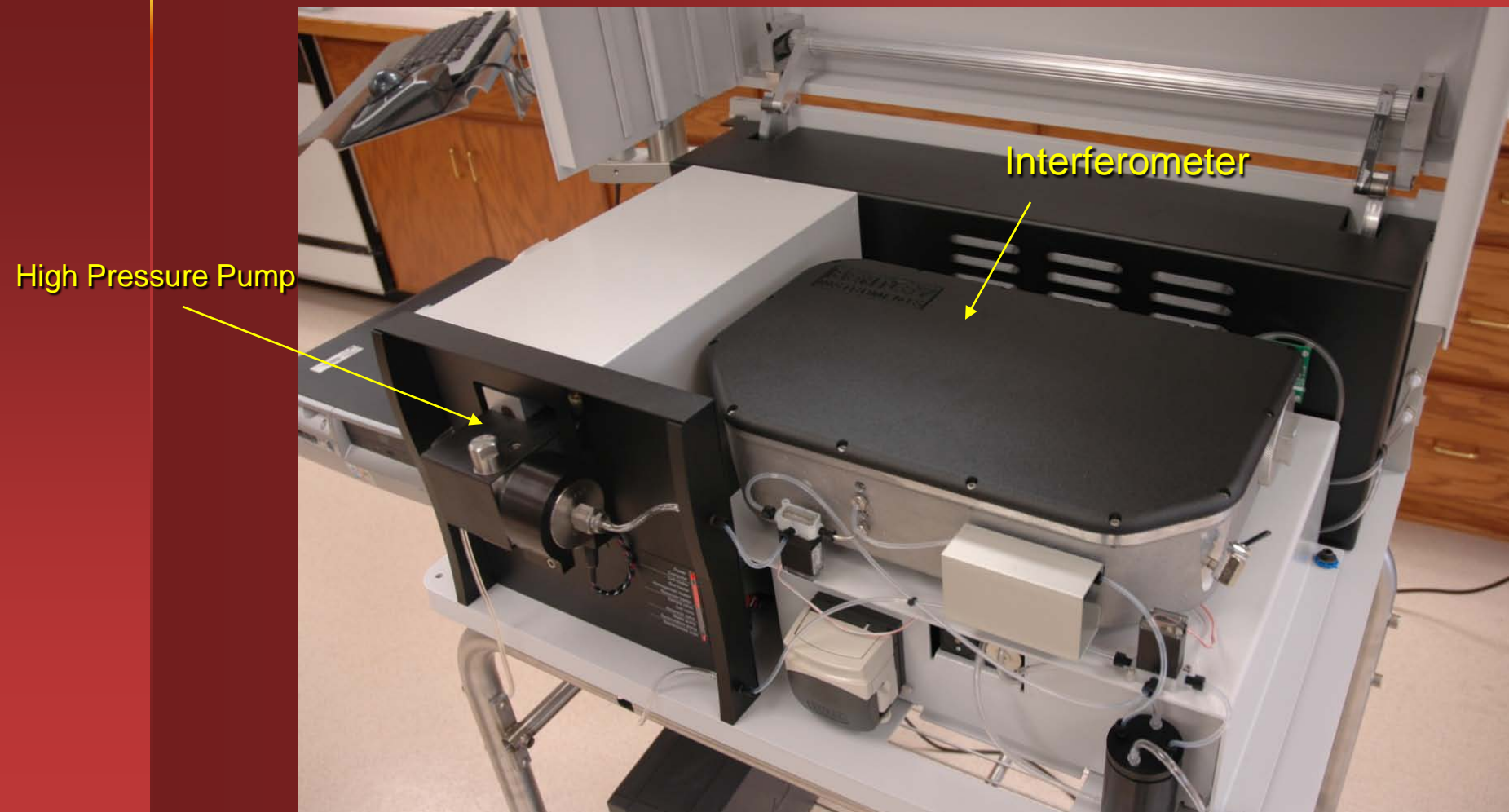


# TRAINING CENTER

## Distributors & Customers



# Bentley FTS



# Bentley FTS

## Analytical Specifications

Bentley FTS Analytical Specifications	
Analytical speed:	400/500/600 samples/hour
Milk Volume	6 ml
Sample Temperature	38-42°C
Start-up/shutdown time	10 min
Concentration range (MG/MP/Lactose/Solids)	0-15%
Milk Type	Cow, sheep, goat and buffalo milk
Accuracy (CV) – MG/MP/Lactose	Typically < 1%
Accuracy FPD (Freezing Point Depression)	Typically $S_{y,x} < 4$ m°C
Repeatability (CV) - MG/MP/Lactose	Typically < 0,5% ; $s_r \leq 0,14$ g/l
Repeatability FPD	Typically $S_r < 2$ m°C
Carryover	$T_c < 0,5\%$



Thank you for your attention

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