

ARS Lxxx Labautomation

- Advantages:
- Laboratory Automation to simplify, fasten and optimize the processes
 - Customer oriented laboratory plans
 - Connects farm, dairy and modern laboratory requirements
 - Traceability for the entire milk chain via RFID transponders
 - Unique identification of the sample vials
 - Reproducible and identical sample handling
 - Individual analysis of the samples
 - Automatic sample handling within the lab
 - Elimination of repetitive strain injury (RSI Syndrom)



Customers:



Cattle Information Service CIS, Telford, United Kingdom



Dairygold, Mallow, Ireland



Melkcontrolcentrum Vlaanderen MCC, Lier, Belgium



Q-lip BV, Zutphen, The Netherlands



Suisselab AG, Zollikofen, Switzerland



Tine, Bergen and Trondheim, Norway



Valio Ltd., Seinäjoki, Finland

Additional components:

ARS Lxxx Pipetter

"Inline" or "standalone" unit to pipette the sample into Microtiter plate or Micronic block

ARS Lxxx Registration

Automation of sample registration at the entry point of the lab to facilitate the later process of Analysis

ARS Lxxx Vial handling

Optional fully automated vial handling before and after Analysis

ARS Lxxx Milog-LIS

Future oriented data transmission by interface technology between analysers and server

For more information:

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Company profile:

RAUDSZUS Electronic GmbH is a German company planning, designing and installing laboratory automation systems for the milk industry. Nowadays, the importance to identify products or assemblies in areas of production, assembly and logistics gets bigger and bigger.

Furthermore, customers would like to have more and more a gapless traceability for their products through the complete manufacturing process, which should be faultless and cost effective. This concept behind the lab automation should allow that a sample is sent to an Analyser Island with the biggest possible efficiency and optimal use on workforce and equipment.

Consisting of:

Basic Unit

Defined takeover of vials in racks from Warming Area

Transport through table by sideways roll transport

Mixing of rack up to 10 times

Vial opening during stop time on forwards transport

Reading of information from RFID-TAG or Barcode

Communication with Analyser (Bentley, Delta, Foss ...)

Closing of vials after Analysis

Buffer system on exit side to hold analyzed racks

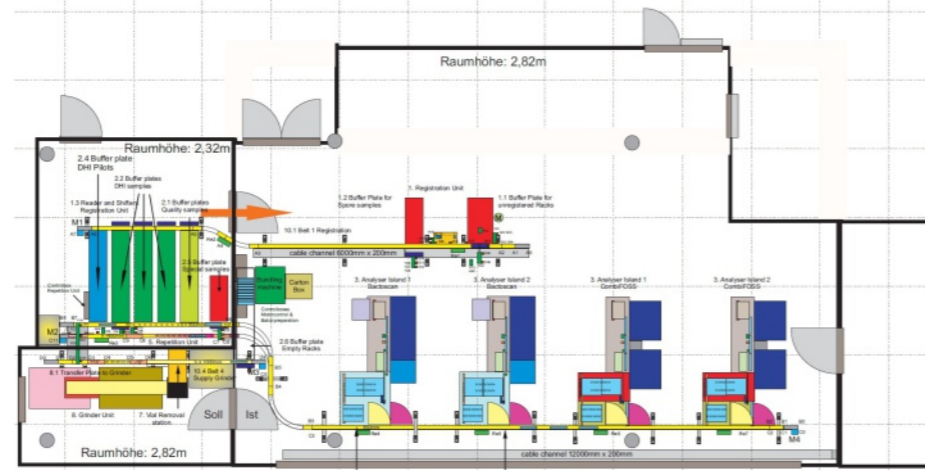
Electronic control unit with interface to Central Control computer

Touch screen display for user interface

Handling speed controlled by Analyser up to 600 samples per hour



Basic Unit - to handle the samples in front of an Analysing Unit



Warming Area - to warm up the samples by warm air



Connected to:



Warming Area

Coupled with Basic Unit

Main Buffer for 22 racks at 10 vials each

Input Buffer for 11 racks at 10 vials each

Warming media air at max. 43° C in Main Buffer

Warming media air at max. 43° C Input Buffer

Including thermal insulation and plexiglas covers

Warm air ventilation by radial blowers

Electronic control unit with interface to Basic Unit