



INDUSTRIAL PROCESS SYSTEMS & AUTOMATION



**Food & Beverage Specialists
in Process Automation,
Equipment & Solutions**

Inspired. Passionate.

**012 653 4951
sales@4bytes.co.za**



Inspired. Passionate.



4B Processing Solutions

4B Systems specialises in the design and manufacture of industrial processing equipment for the food and beverage industry, while also supplying world-class Alfa Laval systems and Hommak homogenisers and high shear mixers. Known for our commitment to quality, we deliver reliable, feature-rich solutions that offer long-term value to our clients.

Industries

we serve



Dairy



Dairy
Alternatives



Beverage



Alcohol



Agriculture



Fat & Oil



Food



Protein



Biotech



Home & Personal
Care



Energy &
Utilities



Processing
Utilities & Systems



We supply the following 4B systems:

- Pasteurisers
- Clean In Place (CIP) Systems
- Standardisers
- Sterilisers
- Mixing Plants
- Inline Blenders
- RO Plants
- Cheese Block Formers
- Aseptic Tanks
- Pilot Plants



We supply the following 4B automation solutions:

- Ignition SCADA
- Data Collection (Historian)
- Siemens System Integrators
- Electrical Installation
- Remote Support Solutions
- Panel Building
- Plant Networking



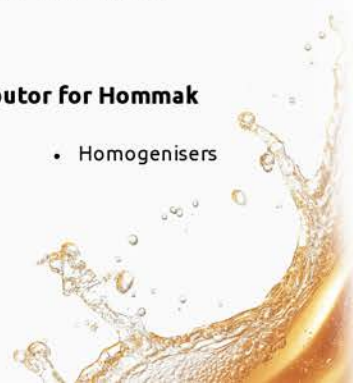
Authorised Integrator for Alfa Laval:

- Processing Systems
- Separators
- Clarifiers
- Bactofuges
- Dealcoholisation Systems
- Deaeration Systems
- Bag in Box Fillers
- Decanters
- Heat Exchangers
- Pumps
- Valves
- Spare Parts



Authorised Distributor for Hommak

- Shear Mixers
- Homogenisers





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Our Automation Solutions

For all your plant automation and processing needs



- **Ignition SCADA**
- **Data Collection (Historian)**
- **Siemens System Integrators**
- **Electrical Installation**
- **Remote Support Solutions**
- **Panel Building**

4 Bytes Automation specialises in industrial automation solutions, utilising Siemens PLCs, HMIs, Ignition SCADA platform, Canary historian and IFM as our standard suite.

We are experienced in a diverse range of PLCs, HMIs, and SCADA platforms and often deploy systems utilising Wonderware InTouch and Wonderware System Platform.

Our comprehensive inventory includes Siemens PLCs, HMIs, and low voltage switchgear such as isolators, circuit breakers, and direct-on-line motor starters.

- | | |
|--------------------------|-----------------------------|
| • Siemens | • Endress and Hauser |
| • Danfoss | • Krohne |
| • Anderson Negele | • Festo |
| • IFM | • SMC |
| • Anton Paar | • Helukabel |

In the development of our solutions, user experience is of paramount consideration. Our systems excel in creating meaningful connections.

Operators, technicians, and management derive value from the comprehensive feedback, guidance, and analytical insights our systems provide.

The scalable design of our control system allows for flexibility.





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Automation Services

As part of our comprehensive automation solution, we offer the following services:

- Control system design
- Control philosophy
- Industrial communication network design
- Software standards development
- Software development
- Electrical design
- Electrical installation
- Implementation
- Instrumentation
- Training
- Support

Electrical Installation

An overview of select completed Electrical Installations:



- Electrical Cable Installation
- Instrumentation Cable Installation
- Cable Tray Installation
- MCC Design and Building



- Panel Building
- Panel Refurbishment
- Panel Design





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4B Systems

Standardisers:

- **Butterfat Standardiser Systems**, designed to provide high accuracy on standardisation in the dairy industry.



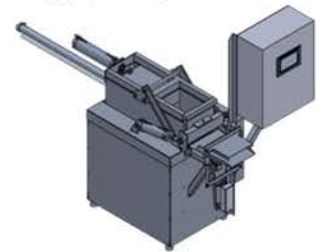
Clean in Place Systems:

- **Custom-designed smart CIP systems** by 4B Automation & 4B Systems to automate, optimise and simplify cleaning processes.



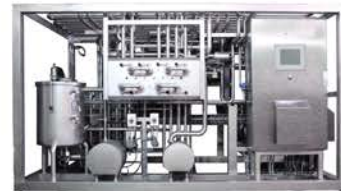
Cheese Block Former:

- **Consistent, high-quality cheese blocks**; with accuracy, speed, and reliability.



Pasteurisers:

- **Efficient, automated pasteurisation solutions** engineered by 4B Automation & 4B Systems; delivering consistency, energy efficiency, and product safety.



Mechanical Process Installations

4B Systems offers high quality mechanical processing installations, this includes:

- **Process Designs**
- **P&ID's**
- **Solidworks Drawings**



- **Food Grade Welding**
- **Processing System Relocation**
- **Flow Panel Design and Fabrication**





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Hommak Homogenisers

4B Systems has its own range of the renowned Hommak homogenisers, high pressure pumps and high shear mixers.

These systems are supported and integrated by 4B and we stock components for our install base.



- 20l/h up to 20 000l/h
- Delivery time: 6-8 weeks from factory, 1 week delivery option is available.



- Liquid Capacity (L/H) : 750 - 18000
- Powder Capacity (Kg): 150 - 2.500

Alfa Laval

4B your Local Alfa Laval Equipment and Integration Specialist

Since 2014, 4B Automation & 4B Systems has been an authorised Alfa Laval distributor, delivering integrated processing solutions using world-class valves, pumps, and heat exchangers; supported by local expertise and ongoing service. Clients benefit from top-tier equipment, full plant integration, and ongoing support.

We also offer an array of Alfa Laval processing equipment and plants, expanding our portfolio to meet diverse industry needs:

Bag-in-box Fillers:

- Available in aseptic or non-aseptic fillers for 2-20 litre bag in box, 200 litre drum filling or 1000 litre flexitainer filling.
- Available in single or dual filling head versions.



Separators, Clarifiers and Bactofuges:



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One Partner. Every Layer Of Your Plant.

