



# **DALEIN** agriplan

**FEED PROCESSING EQUIPMENT**

**DESIGN - MANUFACTURING - INSTALLATION - COMMISSIONING**

**ENGINEERS**  
are professionals who:

**invent, design, analyse,  
build and test machines,  
complex systems,  
structures,  
gadgets and materials  
to fulfil functional  
objectives and requirements  
while considering the  
limitations imposed by  
practicality, regulation,  
safety and cost.**

Dalein Agriplan develops and manufactures equipment for the Feed Milling Industry. We specialise in the processing of bulk materials (grinding, batching, mixing, pelletising), storage and discharge systems, with a primary focus on animal feed. With world-class products which are backed-up by remarkable service and customer support, building fruitful relationships with our Clients is central to our business philosophy.

Our solutions include:

- Complete Turnkey Projects from Concept Design to Commissioning
- Manufacturing and Installation of the Equipment
- Plant Upgrade and Refurbishment
- Process Design and Automation

Our service technicians boast expertise in three fundamental areas: Mechanical Maintenance, Electrical Department and Automation. These professionals are geared to respond quickly and effectively - reducing your downtime and increasing the profitability of your business.

Providing solutions to Agri-Business is something we take very seriously.

These solutions include:

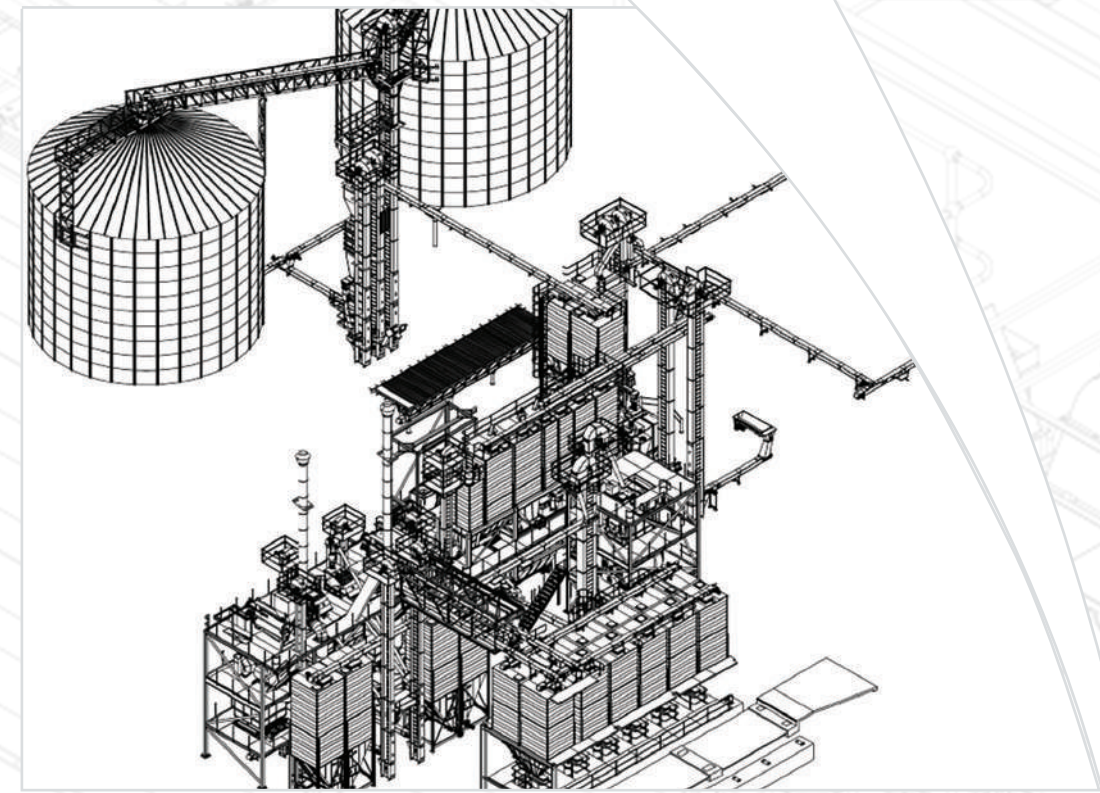
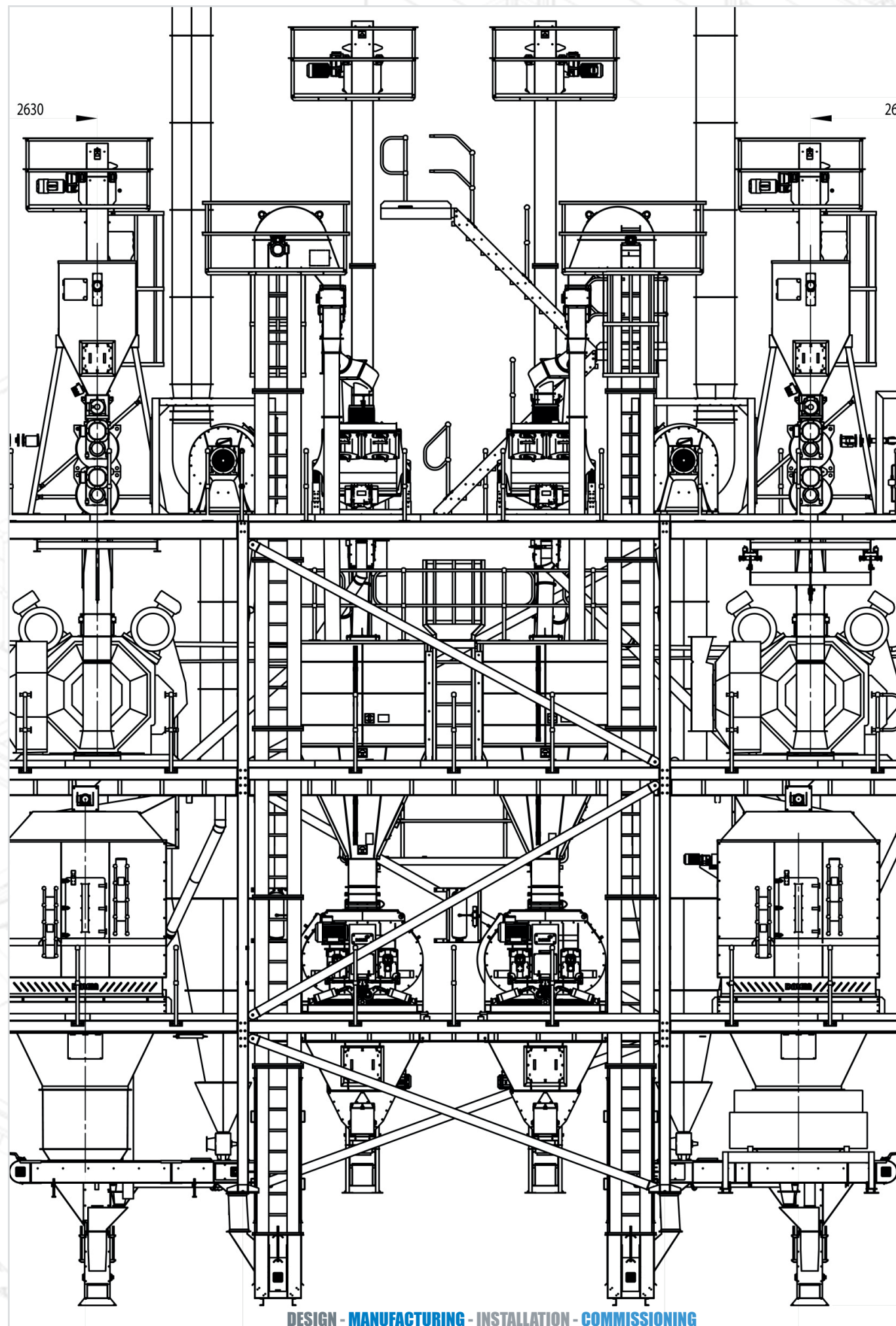
- Animal Feeds
- Raw Material Handling
- Grain Silo & Bunker Storage
- Soya Processing and more

Dalein Agriplan's range of products and equipment is vast, including Hammer Mills, Mixers, Pelleting Equipment, Coolers, Bucket, Chain and Screw Conveyors, Product Bins and many others.

Because the success of our Clients is central to our success, we are focused on maximising efficiency and minimising costs. Automation has become crucial for our Clients and so we have channelled our experience and expertise to ensure that we deliver high level Automation - giving our Clients the equipment and the support needed to take their business to the next level.

No project is too complicated or too simple for Dalein Agriplan. Our reputation for being partners to our Clients is one that we are very proud of, and as tough industries continue to present challenges, we vow to continue providing solutions that will gear our Clients for success.



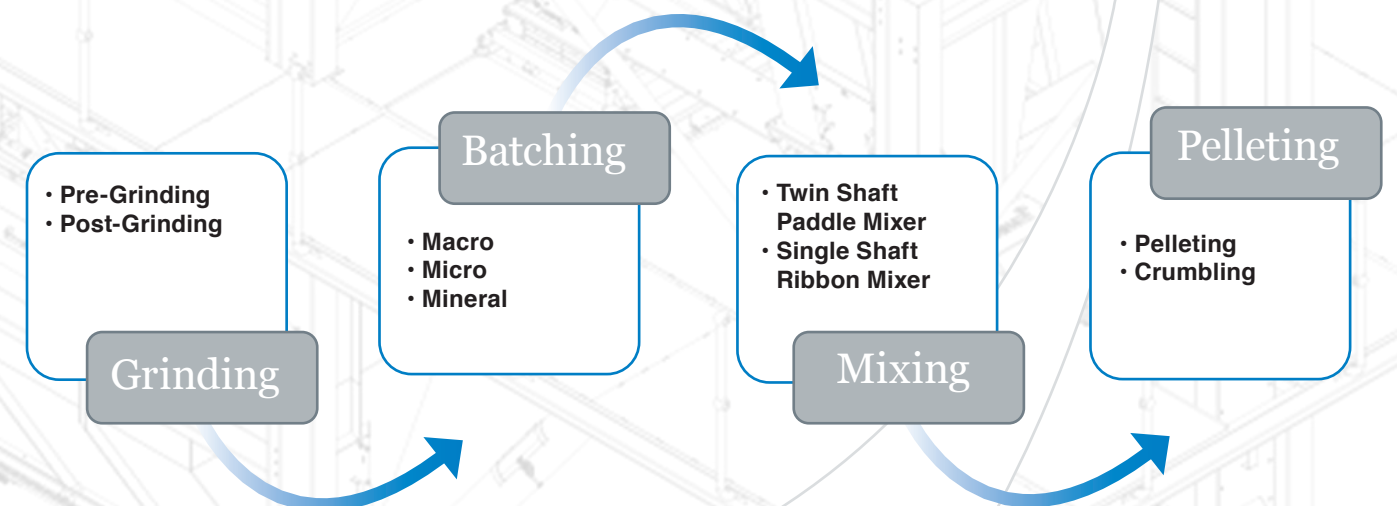


## DESIGN OFFICE

Our expertise is the design and manufacturing of modular feed mills, made for the African environment, utilizing cutting edge industry standards. We specialize in the processing of bulk materials through various processes.

Our in-house design office comprises a team of dedicated engineers with 3D CAD Modelling capabilities and extensive modelling analysis. These facilities and expertise allow us to ensure world-class products which are methodically created from design phase to product development, to implementation and commissioning.

We provide solutions to Agri-business for Animal Feed, Raw material handling, Grain-Silo's Bunker storage and Soya processing.





## FEED MILLS

Dalein Agriplan have delivered plants ranging from 5-30 Tons per hour capacity in South Africa, Zimbabwe, Mozambique, Botswana, Swaziland, Malawi, Zambia, Uganda, Rwanda, Ethiopia and Nigeria.

We understand what it takes to deliver feed milling solutions for the African production environment and pride ourselves on the bespoke and robust solutions that we offer.

## MARK I FEED MILL

Our entry level automated batching/mixing system, with its compact design, is ideal for the small producer requiring  $\pm 6$  Tons per hour



## MARK II FEED MILL

This layout is very popular due to its modular design, Batching and Mixing Plat, low height and future Raw materials are normally Pre-grinded.  $\pm 10-15$  Tons per hour



## MARK III FEED MILL

This tier design model is specifically designed for mono-gastric feed production. The batch weighing scale drops into a mixer and discharge hopper.  $\pm 20-25$  Tons per hour.



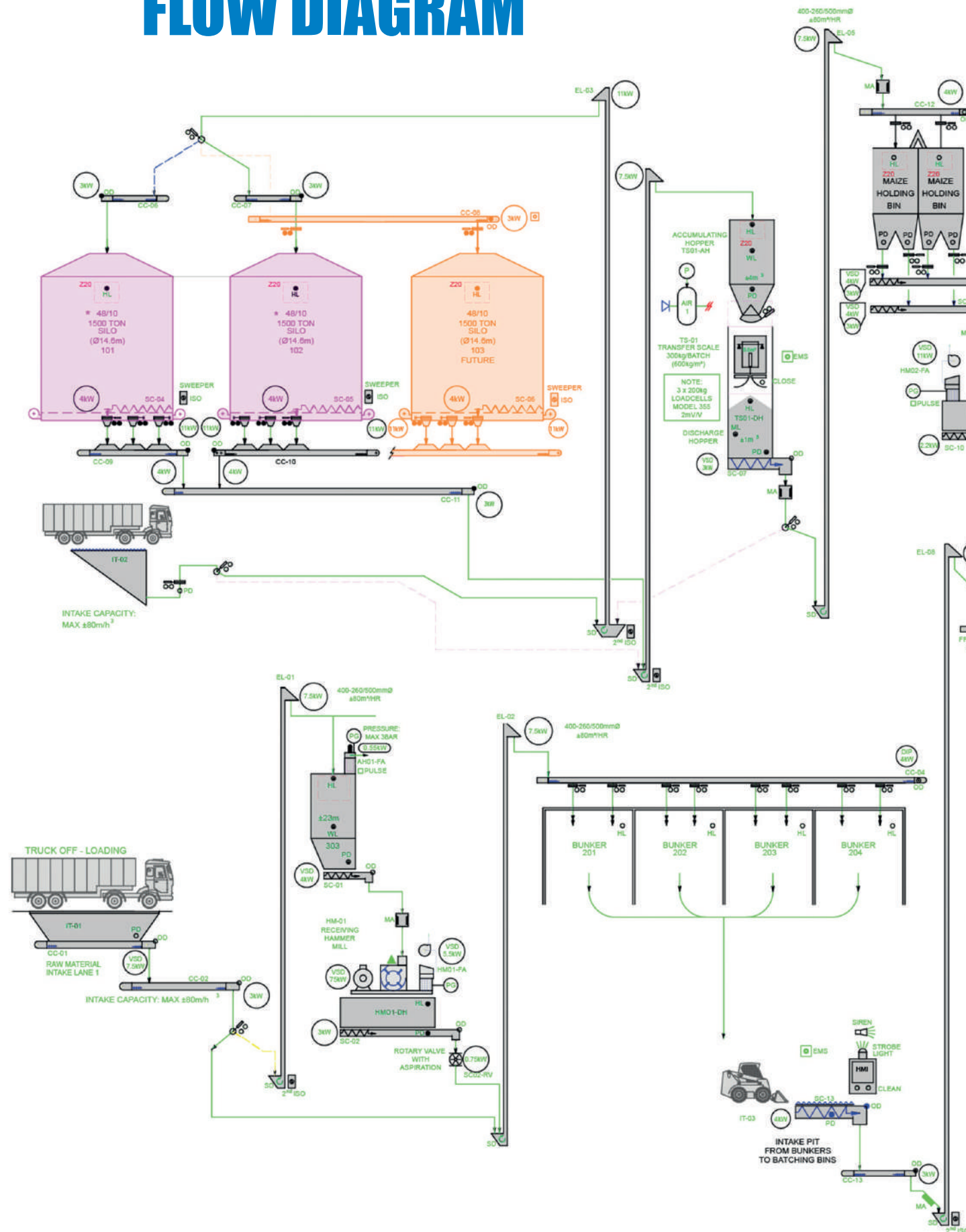
## MARK IV FEED MILL

This plant offers the option of Pre-grinding or Post-grinding of raw materials with multiple weighing scales which transfers to Mixers with accumulating and discharge hoppers.  $\pm 20-30$  Tons per hour





# FLOW DIAGRAM

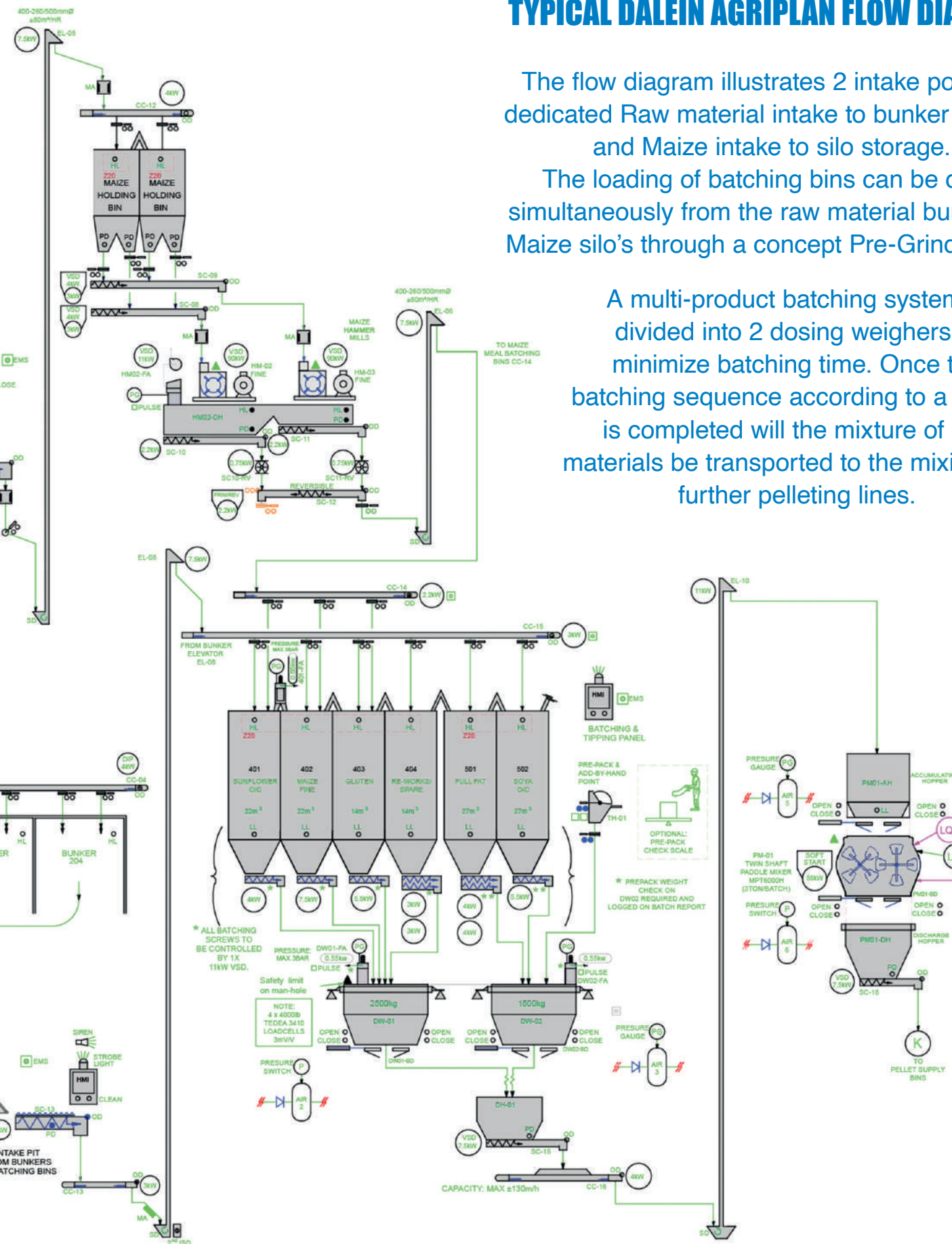


## TYPICAL DALEIN AGRIPLAN FLOW DIAGRAM

The flow diagram illustrates 2 intake points, a dedicated Raw material intake to bunker storage and Maize intake to silo storage.

The loading of batching bins can be done simultaneously from the raw material bunkers & Maize silo's through a concept Pre-Grind layout.

A multi-product batching system is divided into 2 dosing weighers to minimize batching time. Once the batching sequence according to a recipe is completed will the mixture of raw materials be transported to the mixing and further pelleting lines.





# MANUFACTURING

## EQUIPMENT

All our equipment is locally designed and manufactured in our workshop.

Because we understand that time lost, is money lost, we offer extensive availability of spares to help minimise downtime and maximise the profitability of your business.



## LASER MACHINE

To create world-class products, the use of leading technology is essential.

Dalein boasts sophisticated, in-house laser cutting technology, ensuring manufacturing precision and quality.



## NETT WEIGH PACKAGING UNIT

Nett weigher bagging unit manufactured by Dalein Agriplan is capable of  $\pm 12$  Tons per hour.

## BATCH FAT-COATER

Dalein Agriplan's Fat-coater features a 500kg batch twin shaft paddle mixer with a liquid inclusion spray bar to apply coating onto pellets.



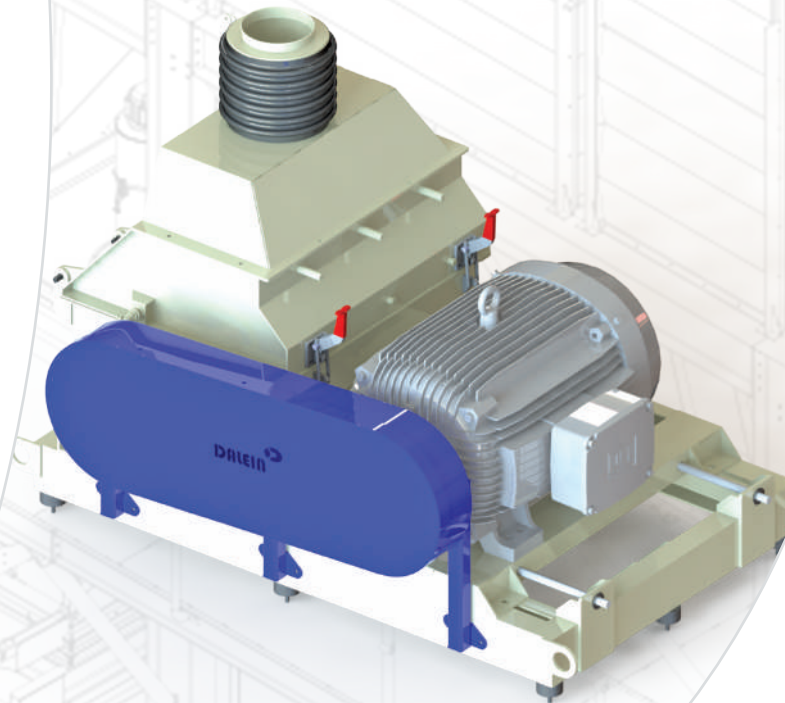
## MIXERS

Dalein Agriplan manufactures various size Twin shaft paddle mixers and Single shaft ribbon mixers from 750kg to 3000kg capacity per batch.



## HAMMER MILL

Dalein Agriplan manufactures a Hammer Mills for Africa's rugged conditions. Ranging in capacities from 3-20 Tons per hour. Our unique asymmetrical design allows for optimum power-to-capacity ratios without aspiration. Aspiration is available to enhance the capacity per kilowatt and ensures more homogeneous particle sizes.





## SILO LOADING CONVEYANCE

A high capacity mechanical conveying system to transport grain to and from silos based on bucket elevators and chain conveyors.



## SILO COMPLEX

Dalein Agriplan offers high volume grain storage facilities.



## MICRO DOSING SYSTEM

This system is used to accurately batch micro raw materials such as medicine, vitamins and minerals. Dalein Agriplan offers a “lost in weigh” system for simultaneous batching of different products. Micro dosing units features agitators on hoppers.



## TRANSFER SCALE

The in-line transfer scale unit weighs the amount of raw material that is being transported between two points for more accurate stock control throughout the feedmill.



## LIQUID DOSING

The “loss in weigh” liquid day storage unit is used to supply the main batch mixer-and fat-coaters with oil or other liquids.





## INTERNATIONAL PARTNERS

IN PROUD COLLABORATION WITH:



PELLETING  
TECHNOLOGY  
NETHERLANDS

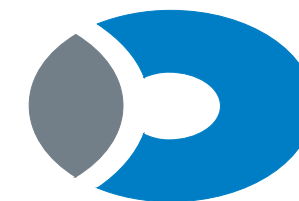
### SOFTWARE SOLUTION

Inteqnion is an innovative and dynamic company, specialising in the design, manufacture and implementation of control systems for the process-industry. Specialised in industrial automation for feed mills.



### PELLETING EQUIPMENT

We only import specialised pelleting, extrusion and post pelleting cleaning equipment from our suppliers in Europe.



# DALEIN agriplan



The background of the entire page is a detailed, light-grey technical line drawing of industrial machinery. It features various components such as large cylindrical tanks, complex piping systems, structural steel frameworks, and mechanical assemblies. The drawing is oriented horizontally and covers the entire area, serving as a technical backdrop for the company information.

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