

# Cassava Processing

**An overview of the unique Alvan Blanch system for conversion of fresh cassava into fine flour for human consumption, or chips for animal feed (with option of pellets).**





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# Products & systems

Alvan Blanch are world leaders in crop processing technologies - for grains and pulses, root crops, fruit and vegetables. Experience gained over more than 50 years is continually used to improve and extend the product range.

In the specific field of cassava processing, established Alvan Blanch products such as - driers, grinders, pelleting presses etc have been augmented by specially designed machines to complete the process lines for: pellets, dry chips, flour, gari, starch and ethanol etc.

Alvan Blanch products and systems are manufactured to the highest standards for efficiency of operation, durability and long operating life

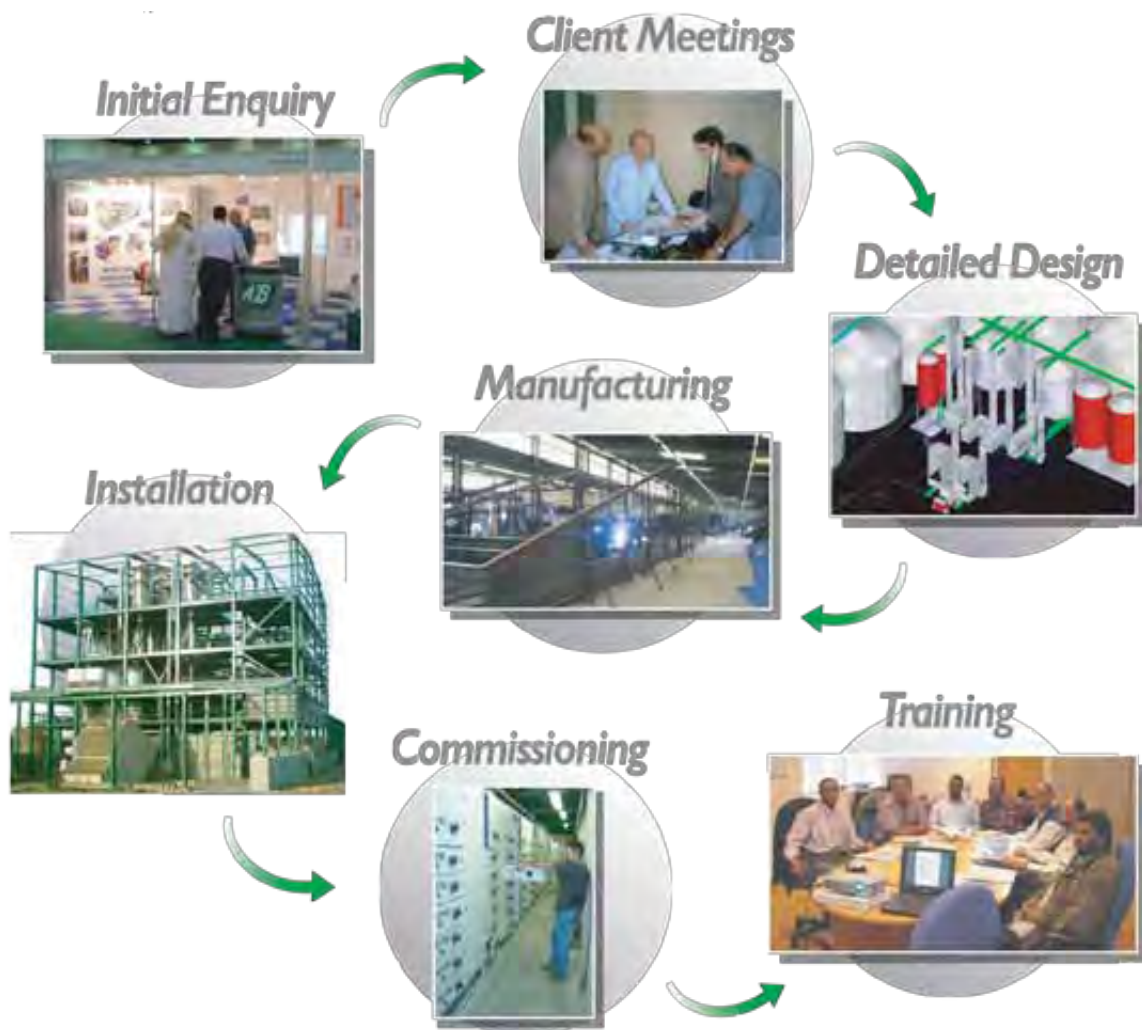
- **Farm machinisation** - a wide range of machinery for land preparation (ploughs, harrows, ridgers), also planters and harvesters.
- **Peeling/washing/chipping** - of the cassava root for all processes.
- **Drying** - batch or continuous drying systems available for cassava chips.
- **Grinding/ pelleting** - converting dried chips into pellets for convenient exportation.
- **Grinding/sifting** - for cassava flour.
- **Grating/fermenting/pressing/defibration/ crumbling/cooking** - for the complete gari production process.
- **Extracting/separating/dehumidifying** - for cassava starch production.

# Project Development

We have always attached a high level of importance to the provision of expert technical support to our clients. This starts right from enquiry stage, when our technical sales engineers

establish the exact nature of a project's requirements and use their experience to prepare a specific proposal to suit. After an order has been received, our project engineering department

devise the detailed plant design and schedule of works. Supervision of installation, plant commissioning and training processes are usually performed on site by our own engineers.



Through exporting to over 100 countries worldwide, we have acquired a rare degree of understanding of the very diverse nature of our clients' requirements.

Our customer orientated

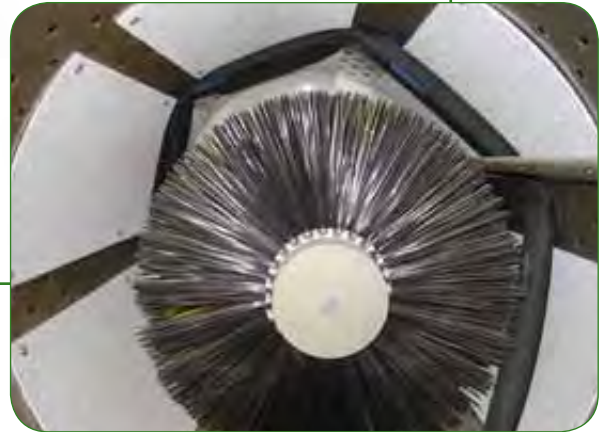
approach means that wherever you are located, and whether you are looking for a harvester or drier for your own farm or a commercial process plant for pellets or starch, we have

the technology, the expertise, and the commitment to ensure that our system is designed to meet your exact needs, with the performance and reliability upon which you can depend.



# Cassava Processing Factory

## Washer peeler



Inside washer barrel: brush  
with carborundum slats.



*Inspection conveyor with  
central divider*



# Cassava Processing Factory

## *Grater/chipper and hydraulic press*



I. Cassava is grated coarsely onto press cloth



# Cassava Processing Factory

## Grater/chipper and hydraulic press (cont)



2. Layers of cassava are built up using cloths and wooden inserts.

3. Here is a finished batch of cassava ready for mechanical extraction/squeezing of liquid to reduce moisture content before drying.



4. The excess water and is squeezed from the grated cassava using hydraulics. (The starch is recovered – separated from the water in settling tanks).

5. Cassava, grated and squeezed down to 43% moisture content, ready for drying.





# Cassava Processing Factory

## Crumbler



## Continuous drier



Heat Exchanger

Conveyor Drier with stainless steel contact parts, fed by Belt Conveyor





# Cassava Processing Factory

## *Milling, sifting & weighing*



Sifter

Hammermill



Weigher





# Cassava Processing Factory

## Optional equipment



Pelleting Press



Generator



Solids/  
Liquids  
Separator



Weighbridge



Settling tanks for starch recovery  
from press water