



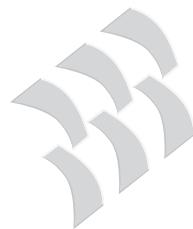
Pellets

Consumers want novelty and variety in their snacks.

Manufacturers want processing equipment that makes a premium product and offers the flexibility to supply this dynamic market.

Clextral's pellet manufacturing lines can make both parties happy.

Enter Clextral's world of innovation for your next snack sensation.



CLEXTRAL
Group

Clextral snack pellet processing lines provide the tools to produce an ever-changing variety of snack shapes, textures and flavours, to keep brands fresh and exciting. Clextral's processing lines include:

- Twin-screw cooker extruder with die-face forming and cutting device
- A new generation pellet drying system

Increased Productivity

The Clextral system offers significant advantages when compared to conventional pellet processing lines: process productivity is increased, and start-up, shut down and cleaning requirements are reduced by one-half.

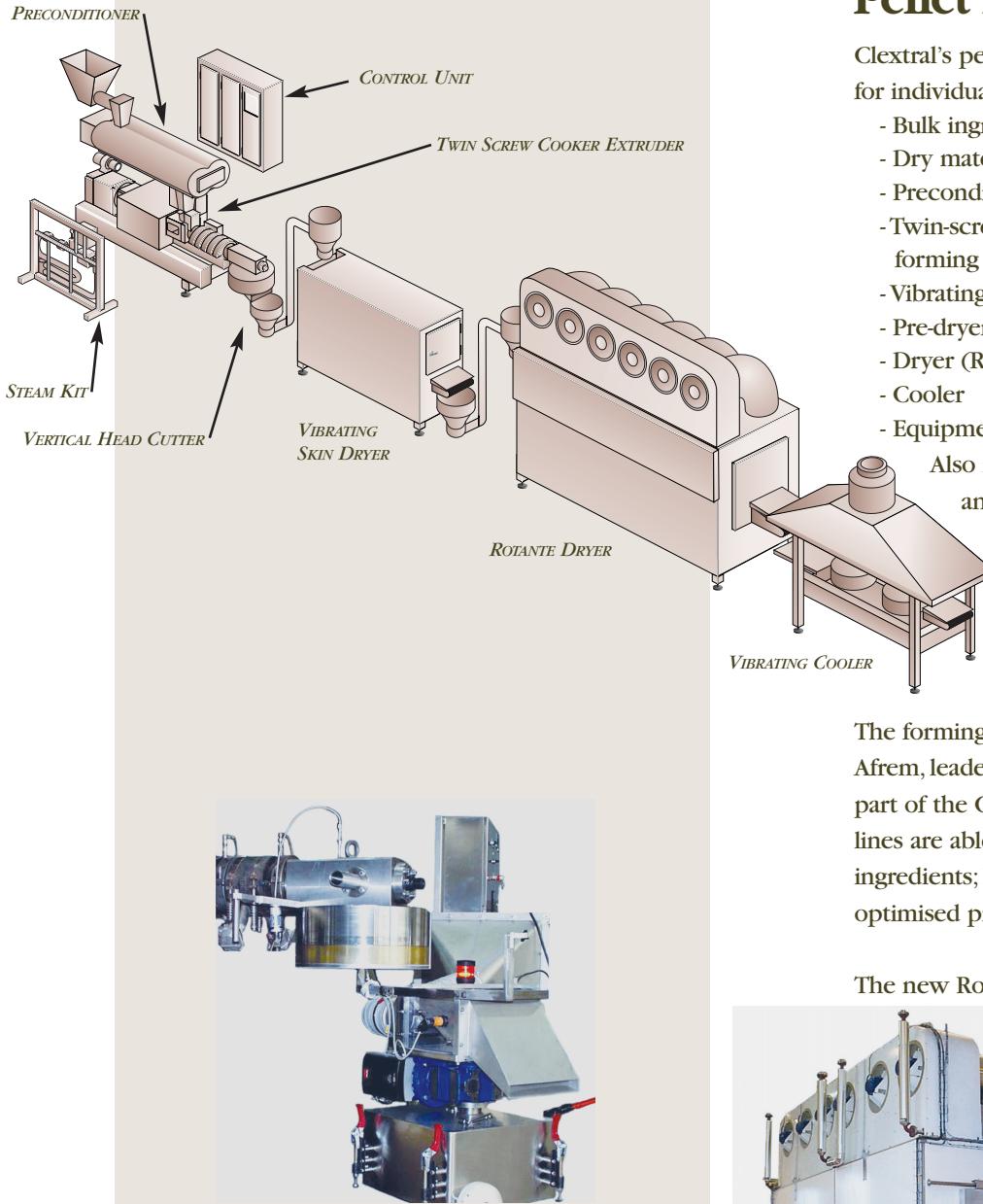
Improved Flexibility

This versatile system can process any type of starch-based raw material such as potato starch, corn and wheat flour. Advanced Evolum extruder technology makes changeover between processing conditions quick and efficient. New product shapes are easily configured with a die change which is simplified by the Evolum die-face former design.

Reduced Floor Space Requirement

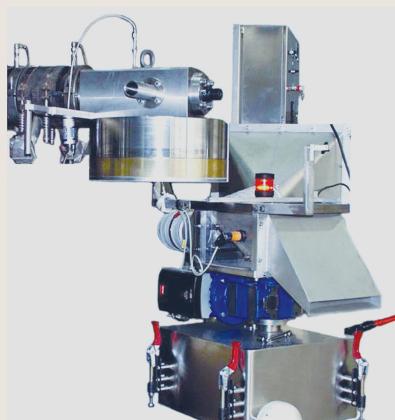
The space requirement is drastically reduced when compared to conventional processes, as less equipment is required, and a very compact Rotante type dryer is used.

Output from 150 up to 800 kg/h of dried pellets



Die-face Forming and Cutting Assembly

This equipment replaces a supplementary forming machine and brings a greater flexibility to the line. Advantages include: quick product changeover, easy start-up procedure including a diverting valve, quick cleaning, easy control of the production line, and reduced space requirement. Temperature regulated air is blown into the shroud to evacuate the individual pieces. The control of the melt flow in the die assembly creates pellets with excellent dimensional regularity.



Pellet Processing Lines

Clextral's pellet production lines are customized for individual needs with all equipment required:

- Bulk ingredient storage
- Dry material feeder
- Preconditioner
- Twin-screw cooker extruder with die-face forming and cutting system
- Vibrating skin dryer
- Pre-dryer
- Dryer (Rotante or belt type)
- Cooler
- Equipment interface

Also included are consultation, installation and on-site training.

Central to each system is Clextral's twin-screw cooker extruder, providing continuous mixing and optimum starch gelatinisation that is critical in pellet manufacturing.

The forming and drying equipment is supplied by Afrem, leader in pasta processing equipment and part of the Clextral Group. Clextral's processing lines are able to process different recipes and ingredients; PLC control of production ensures optimised process parameters for each recipe.

The new Rotante dryer offers advantages for



drying sensitive products such as pellets. The product is very gently conveyed within single Archimede's screws positioned around a moving drum, maintaining perfect product integrity. There is no residence

time dispersion, therefore, the drying is optimum. Due to the micro climate within the screws, (accurate control of the air parameters: temperature, relative humidity and velocity), the pellet is homogeneously dried in a shorter time than belt drying technology. Rotante technology provides high productivity drying and leads to best pellet quality.

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