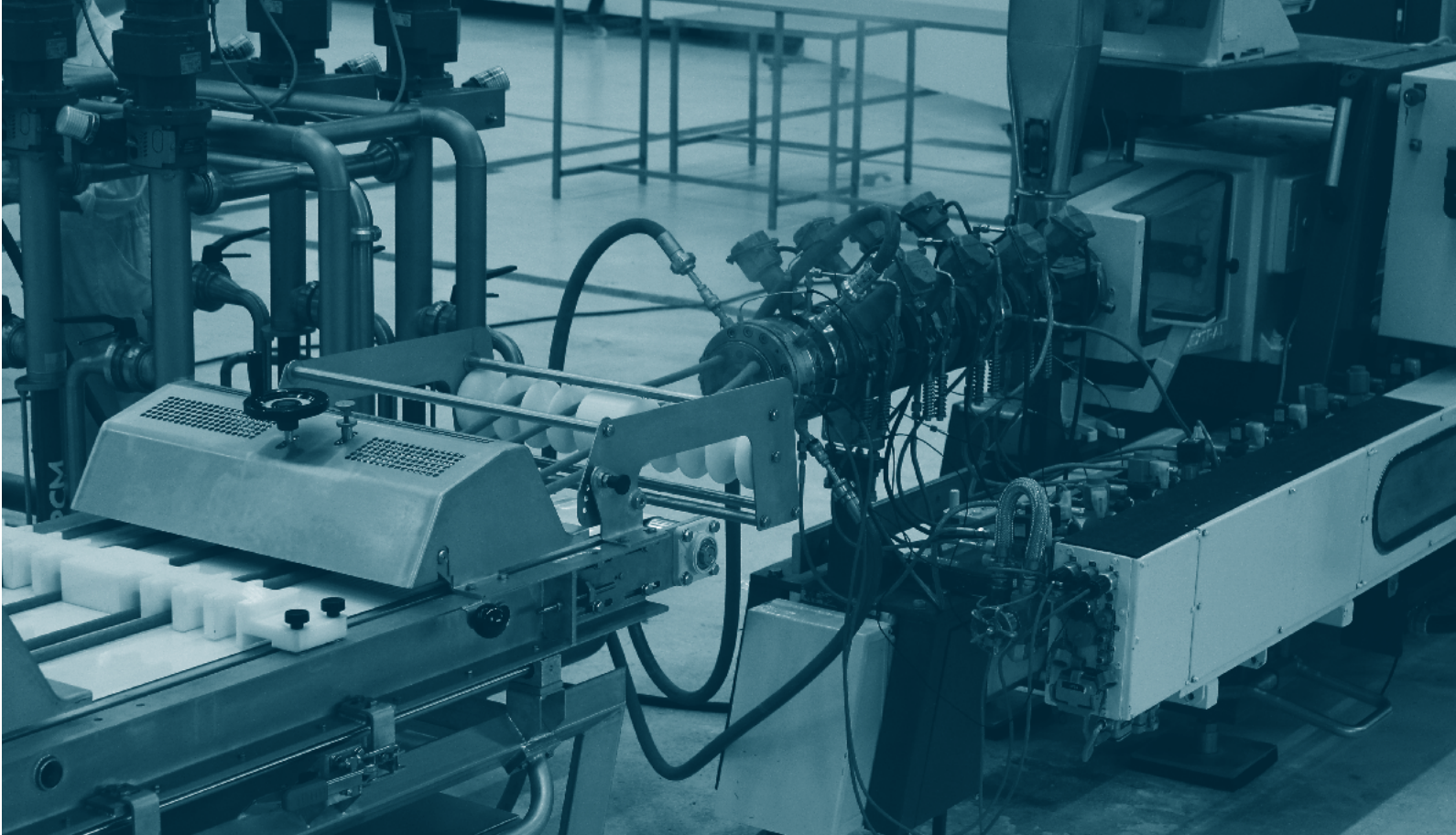


# CO-EXTRUDED PRODUCTS IN ALL SHAPES AND SIZES

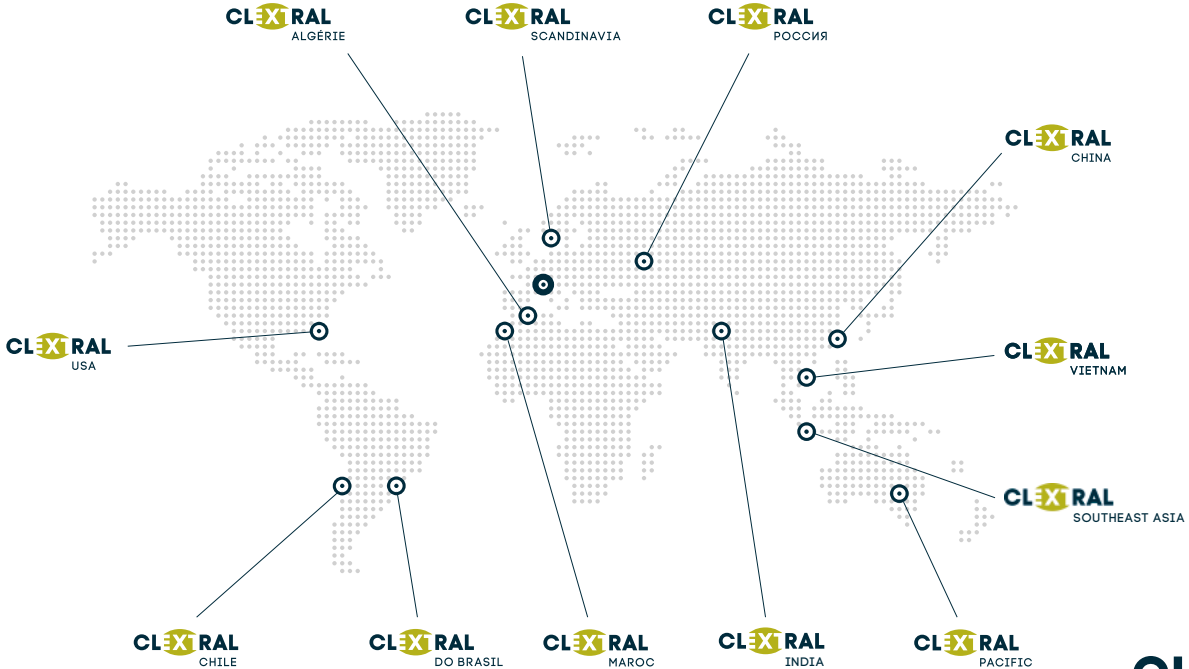
Clextral **co-extrusion clip-on module** allows the production of a **wide variety of traditional and original shapes and forms** such as pillows, tubes, bars, sticks, diamond shaped, specialty profiles...

**Different types of sweet and salty fillings** can be processed such as chocolate, jellies, fruit pastes, meat...



# CO-EXTRUSION CLIP-ON MODULE FOR FOOD & FEED PRODUCTION LINES

### WORLDWIDE PRESENCE



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**CLEXTRAL** Extrusion  
Expertise  
Excellence



# CO-EXTRUSION CLIP ON MODULE

With co-extrusion, processors can make a variety of dual-textured products with a crispy outer shell and soft filling that add new dimensions in flavor, taste, and mouthfeel. The extruder creates the outer envelope and an auxiliary system of clip on modules inject a filling, and shape the product.

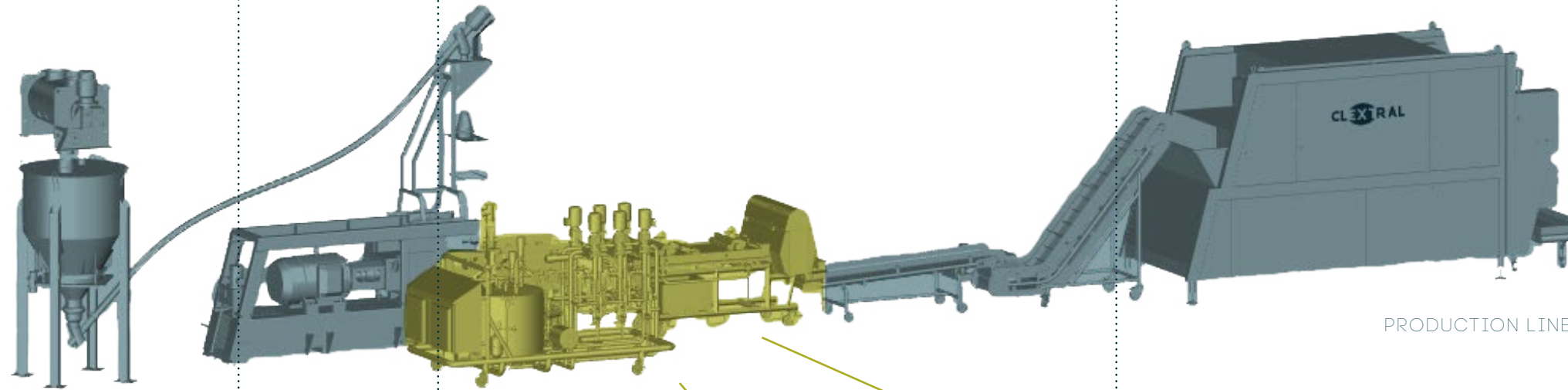
Clextral's co-extrusion system is a clip on module that is easily installed on existing lines to create filled food and feed products.

## RAW MATERIAL MIXING & FEEDING

## EXTRUSION COOKING & SHAPING

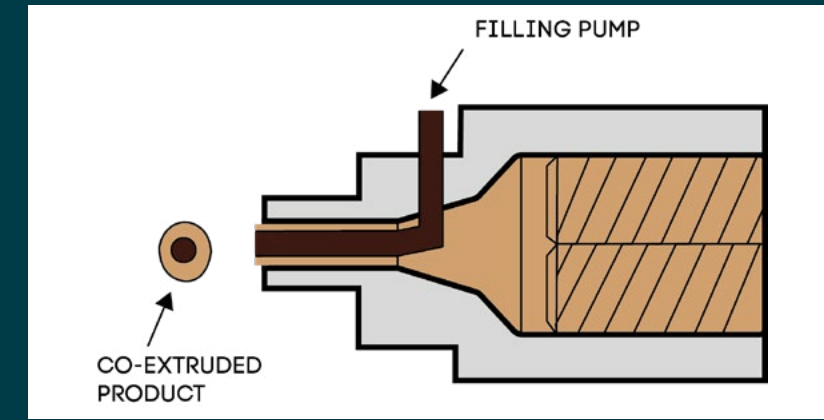
## CO-EXTRUSION FILLING AND PINCHING FORMING UNIT

## DRYING



PRODUCTION LINE

## HOW CO-EXTRUSION WORKS?



Co-extrusion is a process to make products combining two distinct characteristics: a crisp cereal-based exterior and a soft filling. The extruder creates the directly expanded outer shell and the auxiliary system injects the filling at the die level. Using a modular co-extrusion platform, the production line can process both filled and unfilled products.

## FILLING PLATFORM

The filling platform is designed to pump, meter and inject the desired filling in the co-extrusion die :

- **Automatic and flexible system** for a large variety of filling viscosities (fully adjustable parameters with recipes management).
- **Application-specific designs** for optimal metering and product usage
- **Precise temperature control** and continuous **agitation** to ensure highest product quality and consistency
- **CIP system with hygienic design** and stainless steel construction



## CRIMPER

The Crimper precisely shapes the co-extruded product "ropes" exiting of the co-extrusion die into a variety of product styles :

- Dual functions of **flattening and forming** are combined in one machine with top accuracy, due to the numerically-controlled forming rolls.
- **Flexibility of use:** modular design enables quick and easy tool changes to make different shapes.
- **Simple & hygienic design.**

## CO-EXTRUSION DIE

The co-extrusion die creates the direct expanded outer shell while the filling platform simultaneously injects the filling inside.

- Filling hoses with quick-couplings (for fast connection during start-up)

