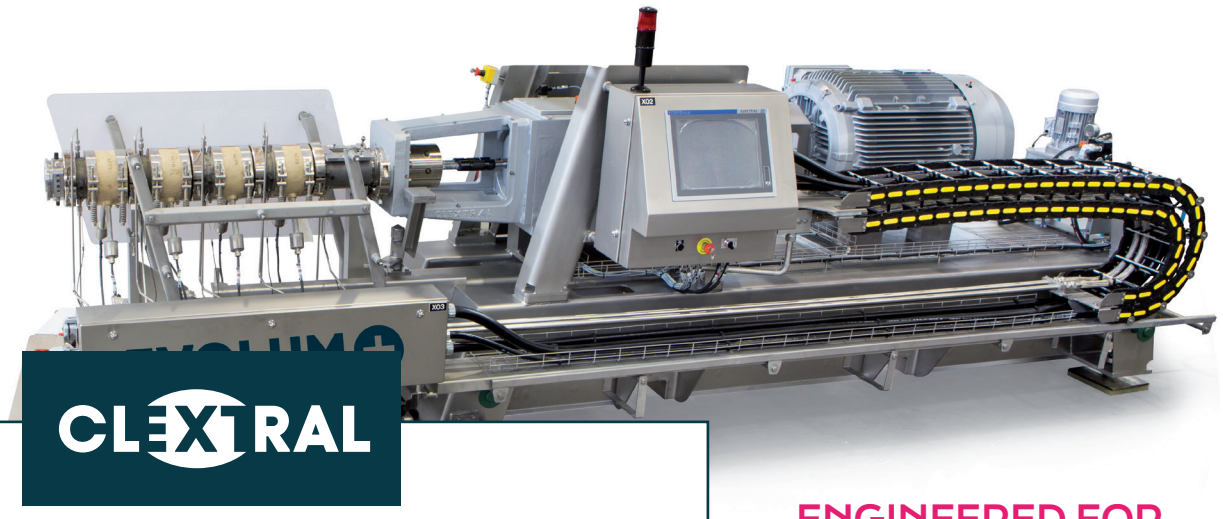


CLEXTRAL

EVOLUM+

MAXIMUM PRODUCTIVITY
SMART OPERATION
HYGIENIC DESIGN

ENGINEERED FOR WHAT MATTERS MOST

- Increased productivity
- Optimum thermal precision
- Built for food safety
- Scalable design
- Quick access & easy inspection

CUTTING-EDGE TECHNOLOGY

The EVOLUM+ range redefines twin-screw extrusion with advanced technology built on proven performance.

The EVOLUM® extruder is a benchmark in terms of technological capabilities and scalability, with its wide operating range of screw torque and speed, optimized cooling capacity, and a homothetic design that ensures precise and reproducible scale-up from pilot to production.

EVOLUM+ delivers higher throughput, tighter temperature control, and unmatched process stability, empowering industrial processors to achieve consistent, high-quality results at lower operating costs.

FULLY MODULAR & SCALABLE

The EVOLUM+ platform offers complete scalability, from R&D pilot units to high-capacity industrial production.

MODEL	44+	56+	72+	93+	119+
SCREW DIAM	44	56	72	93	119

Standard operating screw speed: up to 800 RPM.
High-screw speed configurations (available upon request): up to 1,200 RPM.

BUILT FOR FOOD SAFETY

Developed to meet the highest food safety and sanitation standards, EVOLUM+ features a fully hygienic design for effortless cleaning, inspection, and maintenance, minimizing downtime and contamination risk.

- Constructed in corrosion-resistant **painted steel or full stainless steel** to match your process environment.
- **Ergonomic, open-frame design** ensures complete access to all components.
- **Continuous welded design** eliminates bolted joints and retention zones for optimal hygiene compliance.



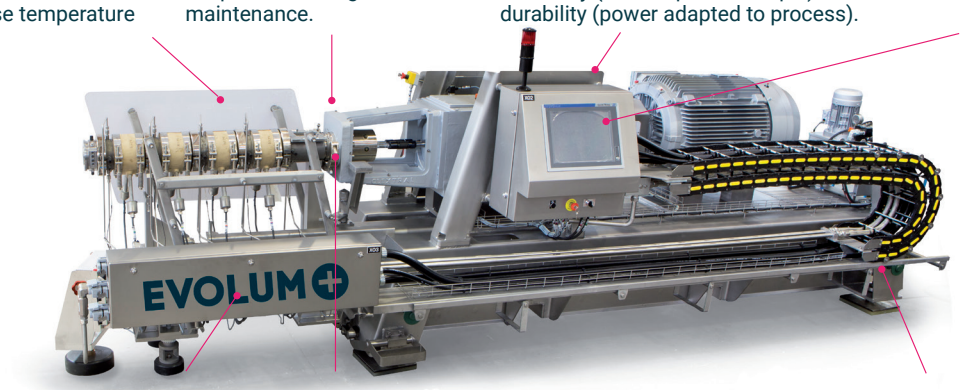
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Independent heating and cooling circuits in each modular barrel segment for precise temperature zoning.

Quick access bearing block simplifies reconfiguration and maintenance.

Gearbox engineered for maximum mechanical efficiency (screw speed & torque) and durability (power adapted to process).

Ergonomic Human-Machine Interface (HMI) and electrical cabinet mounted directly on the frame for intuitive, efficient control.



Clextral-patented hydraulic opening system for quick access and safe inspection.

Rapid-clamp feed module & hydraulic opening allow faster changeovers and reduced cleaning time.

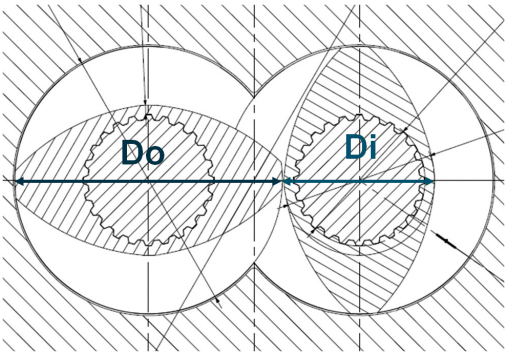
Open profile frame design enhances accessibility and food safety.

MAXIMUM PRODUCTIVITY & PROFITABILITY

EVOLUM+ is engineered for superior mechanical efficiency and optimized free volume, driving productivity and reducing cost per kilo:

› The enhanced Do/Di screw ratio increases usable free volume by up to 40%, expanding throughput without increasing footprint.

› Higher volumetric efficiency and reduced specific energy consumption translate directly to lower € / kg production cost.

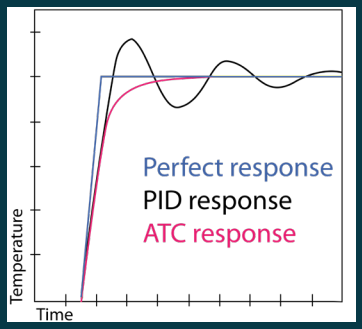


SMART OPERATION WITH ADVANCED THERMAL CONTROL (ATC)

Take command of your process with Clextral's patented Advanced Thermal Control (ATC) system. This self-learning, closed-loop technology continuously monitors thermal variables and automatically adjusts heating and cooling parameters in real time, guaranteeing thermal consistency and product uniformity:

› Unmatched precision: temperature accuracy maintained across all barrel zones.

› Adaptive control: ATC dynamically reacts to process variations for continuous stability.



› Up to 70% increase in process stability

› Up to 20% reduction in energy consumption

CERTIFICATIONS

ISO 9001:2015 Certification
Quality Management

ISO 14001:2015 Certification
Environmental Management

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