

## Compact and Efficient Food, Cosmetics and Compound Manufacturing with

## RONDOL'S 21mm 30D HORIZONTAL TWIN-SCREW EXTRUDER

Performance, Weight and Cost-Efficiency in R&D and Manufacturing

RONDOL's 21mm twin-screw extruder makes it possible to manufacture:

- ✓ Semi solids (ointments, creams, pastes, gels)
- ✓ Transdermal films
- ✓ Plant extractions
- ✓ Compounding of ingredients

Our unique set up improves material flow, facilitates mixing, provides superior temperature management and preserves the integrity of sensitive components with varying melt-degradation properties, enhancing your compounds' performance.

## Key benefits of our extruder:



**Durable material contact parts:** Experience minimal abrasion and extend machine lifespan with our optimized components.

Versatile screw design and die options: Cater to diverse R&D and production applications with our flexible design features such as our cast film die with various width and thickness options.

Precise monitoring of process temperature with autonomous control for each of the 6 zones up to 300°C (450°C optional).

Integrated controls for feeders: Enhance operational convenience with our advanced control panel and compatible feeders from which you can inject in-the-barrel additional materials, additives and even gases.

**Easy to clean barrel**: Ensure traceability with different sources of critical materials, thanks to inside liners which are smooth and easy to disassemble and clean.

## **SPECIFICATIONS SHEET**

Length / Diameter	30:1
Screw diameter	21mm
Machine material	Full stainless steel
Screw speed	0-300rpm (0-600 rpm optional)
Screw configuration	Segmented screw design fully interchangeable
Footprint	1.08m2 / 11.63sq.ft
Dimensions	1800mm x 600mm x 1220mm (5.91ft x 1.97ft x 4.00ft)
Motor power	3.3KW
Electrical consumption	6.86KWh (standard's maximal temperature and speed: feeder + extruder)
Torque output	55N.m per shaft maximum
Number of barrel zones	6 temperature-controlled zones (heating only)
Temperature range	15-300°C (or 15-450°C optional)
Dies	Standard: strand die Options: cast film, strip, co-extrusion
Feeding	Options: top/side powder or pellet, liquid and/or gas feeders
Maximum output	Up to 8kg/hr (or 16kg/h optional)
Maximum pressure	100 bars
Product cooling systems	Options: Air cooling system or water bath
Plug in downstream equipment	Options: haul off winder (filament, film or strip), varicut pelletizer
Human machine interface	10.1" touch screen with PC-controlled data logging and audit trail (tablet optional)
Electrical power requirements	40Amp, 3x276/480V + 1N + 1PE (North America) 40Amp, 3x230V/400V + 1N + 1PE (Europe)
Water supply requirements	15°C water, 4-6 bars