

**Break Through in R&D of Compounding with  
RONDOL's**

# **25D 10.5mm Twin-Screw Horizontal Extruder**

*Combining Performance, Weight and Cost-Efficiency in R&D*

The unique set up of our horizontal 10.5mm 25D extruder **improves material flow** and provides **temperature management** across 4 autonomous heating zones. Additionally, our scalable geometric proportions allow for **seamless transition from lab testing to industrial production**.

## *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 8 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.



# 25D MICRO EXTRUDER

## SPECIFICATION SHEET

<b>Screw diameter</b>	10.5mm
<b>Length / Diameter</b>	25:1
<b>Machine material</b>	Full stainless steel
<b>Screw speed</b>	0-300rpm
<b>Screw configuration</b>	Segmented screw design fully interchangeable
<b>Footprint</b>	0.38m <sup>2</sup> / 4.1sq.ft
<b>Dimensions</b>	755mm x 500mm x 1055mm (2.48ft x 1.65ft x 3.46ft)
<b>Motor power</b>	1KW
<b>Electrical consumption</b>	1.25kWh (standard's maximal temperature and speed: feeder + extruder)
<b>Torque output</b>	7N.m per shaft maximum
<b>Number of barrel zones</b>	4 temperature-controlled zones (heating only)
<b>Temperature range</b>	15-300°C (or 15-450°C optional)
<b>Dies</b>	Standard: strand die Options: cast film, strip, tube, co-extrusion
<b>Plug-and-play feeding</b>	Options: top/side powder or pellet feeder Options: pellet, liquid and/or gas feeders
<b>Maximum output</b>	Up to 0.625kg/hr
<b>Maximum pressure</b>	100 bars
<b>Product cooling systems</b>	Options: stainless steel, water or air cooling systems
<b>Plug-and-play downstream equipment</b>	Options: haul off winder (filament, film or strip), fixed or varicut pelletizer, calendaring
<b>Human machine interface</b>	10.1" touch screen with PLC-controlled data logging and audit trail, remote diagnostic tool Option: controlled by PC or Tablet
<b>Electrical power Requirements</b>	24amp, 110Vx2 + 1PE, 50/60Hz (North America) 24amp, 230V 1ph. 1N + 1PE, 50/60Hz (Europe)
<b>Water supply requirements</b>	4-6 bars
<b>Minimum lot size</b>	25g or less with the side feeding option