Xplore Pro Pelletizer

Cut any polymer strand into the size of pellets you prefer

An Xplore Pro Pelletizer:

reliable, reproducible length cutting of nascent polymer strands

Xplore Instruments BV introduces an R&D size high-quality pelletizer that enables you to cut nearly any polymer strand size into pellets. This Xplore Pro Pelletizer is a unique asset for subsequent development steps of polymer compounds, blends and additive formulations. It will swiftly create a wide range of pellets sizes from a wide range of polymer strands diameters. Hence, delivering quicker reliable amounts of polymer samples ready for further processing steps. When "connected" to one of our Xplore compounders, it will efficiently speed up your R&D pelletizing workflows. Are you in the R&D of polymer development or into processing, blending or developing your polymer compositions? Then, the Xplore Pro Pelletizer is a "must-have" add-on pelletizing tool.

The Xplore Pro Pelletizer post-die granulation unit is specially designed to cut polymer strands into a wide range of pellets (granules). The Xplore Pro-Pelletizer does fit perfectly/ match with our MC 5, MC 15 HT and MC 40 compounders. The cutting speed can be accurately "tailored" via a touch screen to generate many industrial size pellets, allowing it to be precisely tailored for other R&D size compounding processes. Driven by two powerful servo motors to ensure the accurate generation of a wide range of pellet lengths. Via the integrated touch screen, the theoretical pellet length can be set; after setting such pellet length, the Pro Pelletizer calculates the correct feeding speed and main rotor knife r.p.m, this results in a theoretical pellet length range of 0,5 mm to 8 mm with a minimal increment of 0,1 mm. Of course, CE and UL compliant, with a front access opening panel for easy cleaning purposes, all operating access doors are complete safety-interlocked.

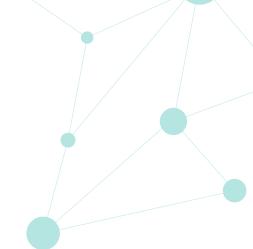Xplore Pro Pelletizer for R&D purposes

Benefits:

- Cuts your polymer strand into a wide range of pellets sizes (1-8 mm)
- R&D size, easy to handle in a lab environment
- "Wide range" pelletizing window
- Fits all Xplore compounders
- Can be retrofitted into existing extrusion lines
- Intuitive operation via touch screen
- Typical rugged Xplore design
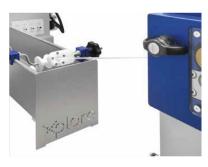- Stainless steel nickel-coated casing

The polycarbonate transparent front window gives you an inside look of the pelletizing process. An optional water bath enables you to cool the polymer strand before the initial cutting (pelletizing) step. The Xplore Pro-Pelletizer carefully and accurately cuts, in a controlled manner, the fragile newborn polymer strand. This controlled cutting of the polymer strand, while in a semi solidstate, prevents "beard" issues on the nascent pellets. The Xplore Pro-Pelletizer lets you use these freshly cut pellets for a second compounding step in one of our compounders or a subsequent upscaling step in a larger extruder. If there is no need for a water bath, then the Xplore Pro Pelletizer can also be pre-equipped with our conveyor belt (CB Pro). It guides the strand from the compounder, gives it time to cool down, and then be fed into the Xplore Pro-pelletizer, creating ideal cutting conditions for all kinds of materials, from soft rubbers to highly filled engineering plastics.

Technical Specifications:

- Fits on any Xplore compounder or works with many other R&D extruder set-ups
- Desktop lab version pelletizer, adjustable pellets length between 0,5 - 8 mm
- Pellet diameter Ø: 1-3,5 mm
- Pelletizing speeds: up to 12 m/min, yield 5 kg/h (industrial size pellet 3 x 3 mm, density 1 gr/ml)
- Weight: 38 kg
- Optional water bath available
- Optional conveyor belt available when water is undesirable when cooling the polymer strand
- Supply voltage: 208 - 240 V AC, 50/60 Hz, 10 Amp.
- Overall dimensions (h x w x d): 42 cm X 26 cm X 50 cm

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