



Weighing Solution for PA Nylon with Short Glass Fibe

## Transcell Loss-in-Weight Feeder | Empowering Nylon Modification

Nylon modification uses polyamide (PA) as the core matrix, combined with various functional additives such as reinforcing agents, flame retardants, toughening agents, etc. Among them, key additives like flame retardants and color masterbatch for as little as 1–5%, which imposes extremely high requirements on metering accuracy.

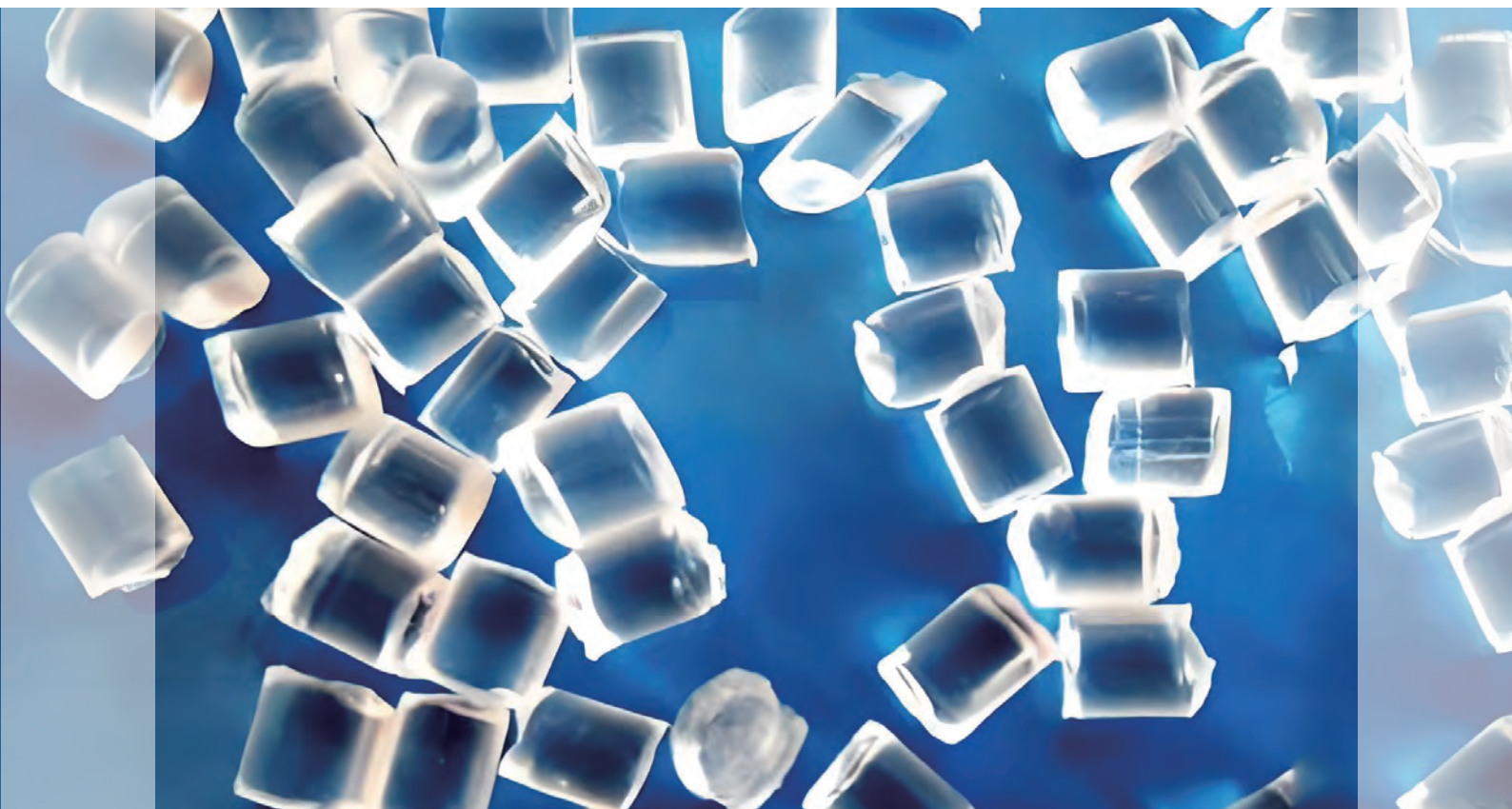
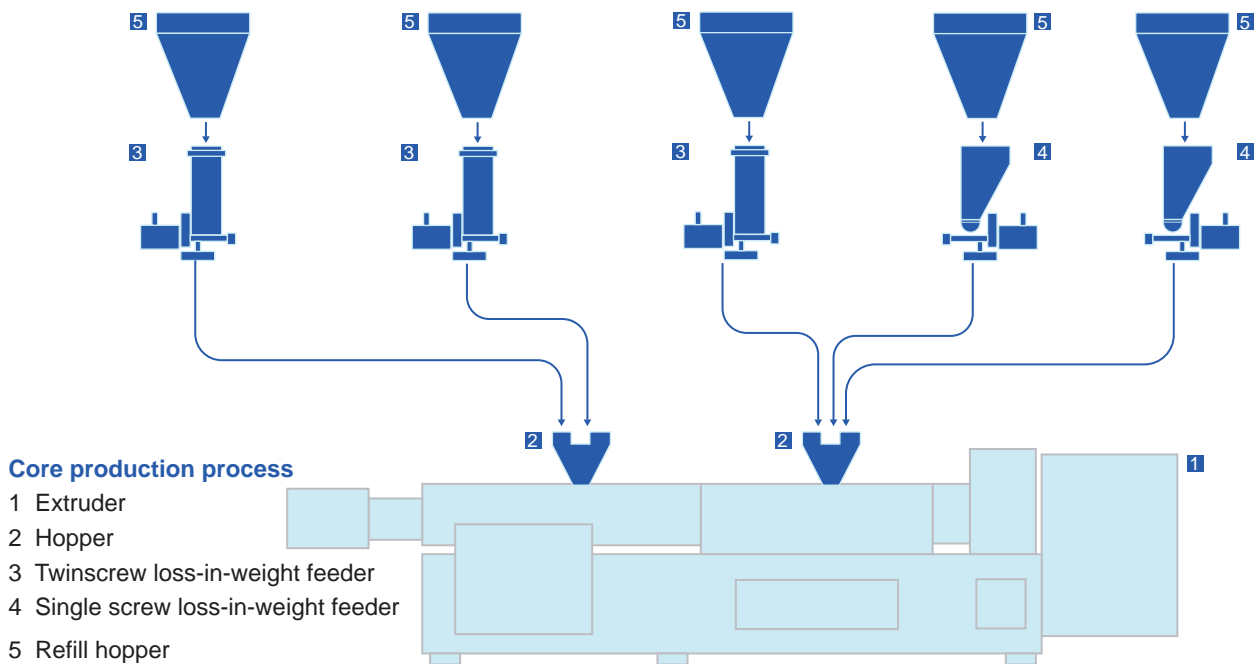
Transcell Technology loss-in-weight feeder precisely meets the requirements of nylon modification. The hopper and chute are coated with polished or Teflon low-friction nonstick coatings to fundamentally eliminate material wall sticking and bridging, thereby maintaining the baseline of metering accuracy, and making it suitable for micro-additive addition scenarios.



Addressing the production characteristics of nylon modification with small batch sizes and high batch frequency, the equipment supports fast and precise recipe changeover. It can store multiple recipes and enable one touch recall. The design is easy to clean, effectively preventing cross contamination between different recipes and ensuring consistent quality across batches. In response to dust and volatile substances generated by additives such as flame retardants, the equipment features a well sealed and ventilated structure to prevent dust leakage and air disturbance, ensuring stable and reliable weighing data.

## Solution | Solve production pain points

Transcell Technology loss-in-weight feeder combines the advantages of high-precision metering and continuous production. It helps nylon modification companies reduce labor intervention costs, while simultaneously improving production efficiency and product quality, empowering the industry to achieve efficient upgrades.





## Single/Twin screw Loss-in-weight

- Modular design, stable conveying, various material types.
- Easy to clean, standard OEB2.
- Various screws and barrels options are available, and special solutions can be customized for special materials.
- All feeding screws are manufactured using stamping process, ensuring uniform screw lead, low runout, and accurate discharge.
- Main components are independently designed and manufactured, with a full range of spare parts available and short replacement cycles
- The self-developed controller features high computing speed, strong anti-interference capability, and reliable communication.
- The operating system is designed with an industrial PC, enabling intelligent recipe management and automatic matching between material and feeder.

### Design Data

Name	Loss-in-weight feeder				
Model	TG-LW-SS80U	TG-LW-SS80U	TG-LW-ST40U	TG-LW-ST40U	TG-LW-ST30U
Material Name	PA granule	Resin granule	Short glass fiber	Flame retardant filler	Granules/ Powder Minor Additives
Flow Rate	200-1000kg/h	100-800kg/h	40-400kg/h	40-400kg/h	20-200kg/h
Metering Bin	120L	120L	55L	55L	55L
Contact material	SS304				
Soft connection	Silicone rubber / soft cloth cover				
Feeding motor	1KW				
Horizontal stirring	Yes				
Stirring motor	/				
Material temp	/				
Others	/				

Note: For details, please configure according to specific requirements.



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