

Material Feeding Device **Smart Feeder**

Assisting Stable Plasticization with a Stripped-Down Affordable Device

Advantages

- ❑ Significantly lower price than the conventional types
- ❑ Doubled feeding performance than the conventional types
- ❑ Small & space-saving
- ❑ Removable screw that permits easy clean up during screw change
- ❑ High torque that materializes stable feeding even for processing crushed materials or Elastomer

Effective in the following situations:

1. Assisting metering stability for difficult-to-plasticize resins (PCTA, PET-G, non-reinforced PBT, PLA, etc.)
2. Preventing material bridging for soft resins
3. Reducing wear of the screw and feed zone
4. Reducing metering torque of high viscosity resins
5. Stabilizing product weights



Examples of its effective use and sales records

Symptom	Resin	Product	Unit sold
Material curdles in the grooves on screw feed zone, and it is unable to be plasticized.	PCTA PCTG PLA	Container Medical Toothbrush	50
Bridging occurs in the material feeding throat or vertical machine's hopper extension holding tube, and resin does not feed on the top of the screw.	Hot melt resin	Resin-coated circuit board	5
Unstable biting of resin occasionally happens due to the use of very small screws (below $\Phi 16\text{mm}$)	LCP	Micro molded product (less than 2g/shot)	10



<Main body and external controller>

Specifications

Max. material feeding capacity	34g/sec*
Screw RPM	10~400rpm (reduction ratio 1/10)
Signal output during metering	Please prepare DC24V output
Power	Single-phase 200V 50/60Hz
Device weight	Main body: 25.5kg (screw + motor = 6.5kg) External controller: 8.5kg
Others	Mounting base needs to be ordered separately Cable length = 3m stationary + 2m additional

* When GPPS (specific gravity = 1.05) is used. It may vary depending on specific gravity, bulk specific gravity, and frictional resistance.