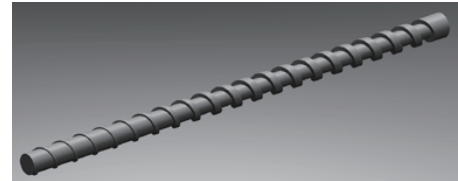


Solution for problems of gas generated during plasticization Systematized by integrating with TOYO's unique technology!!

Vacuum degassing system in heating cylinder (SAG Screw / SAG+α II)

Concept

- Reduces defects during molding caused by gas and improves yield. SAG screw
 - SAG screw: suppresses excessive shear heat generation during plasticizing process and suppresses gas generation.
 - SAG+α II: degasses the gas generated during plasticizing process.



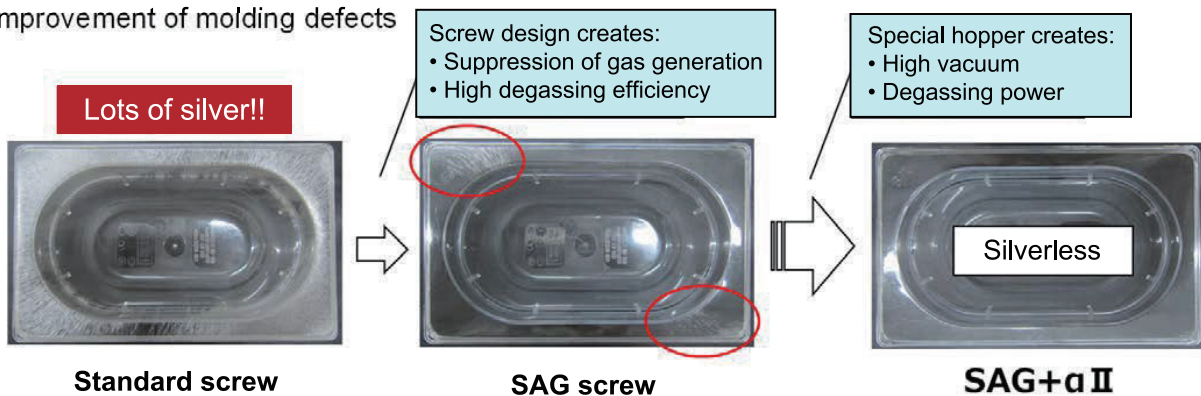
Features

- Combining the SAG screw and vacuum hopper (SAG+α II) suppresses mold contamination, including molding defects caused by gas, and improves molding yield.
- SAG+α II can be controlled collectively with an injection molding machine, and operations such as vacuum pressure can be monitored.
- SAG+α II does not use a pellet feeder, so it is possible to use crushed materials.



Advantage

- Improvement of molding defects



[Molded product: Food container, Resin: PC (undried)]

- Extremely effective against mold contamination

Resin	Cycle time	Standard screw	SAG screw	SAG+α II
PA66	16 sec	Mold maintenance is required every 14 to 17 hours.	Mold maintenance is required every 32 to 42 hours.	Mold maintenance is not required for 65 - 90 hours.
PPA	34 sec	Mold maintenance is required every 4 to 6 hours.	Mold maintenance is required every 72 hours.	Mold maintenance is not required up to 275 hours.