

# Next-generation high-performance multipurpose screw “S-HIN screw” comes as standard feature of Si-7 series.

## S-HIN Screw



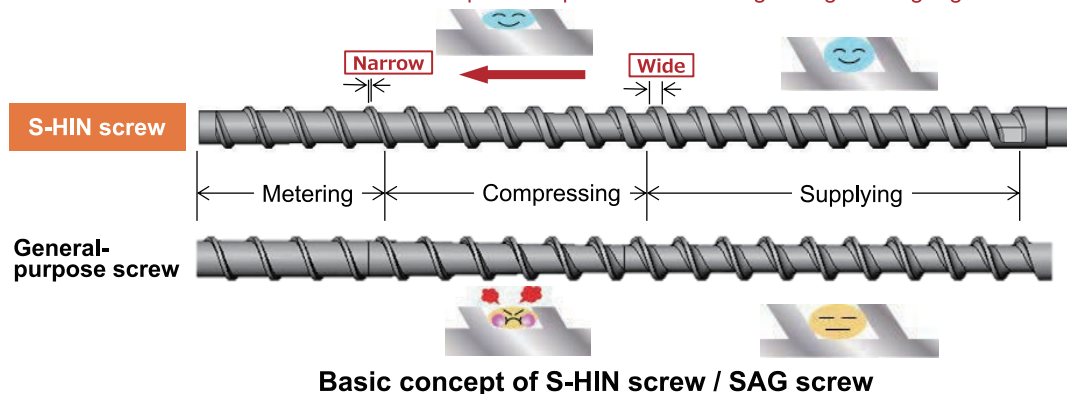
### Concept

- It has inherited the performance of the SAG screw and its shape has been optimized as a general-purpose screw, consequently it has been developed as a more versatile screw.
- In addition to the conventional gas generation suppressing effect, it can improve plasticizing stability and plasticizing capability.

### Features

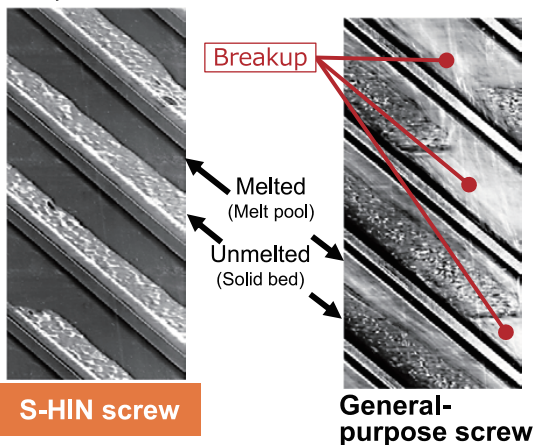
- In addition to inheriting the basic performance of the SAG screw, its plasticizing capability has been improved, compared to the conventional TOYO general-purpose screws.
- In addition to the gas generation suppressing effect during plasticization, its plasticizing stability and plasticizing performance have been improved, making it compatible with a wider range of resins.
- Just like the SAG screw, it reduces metering torque and suppresses specific locations shear heat generation during plasticization.

Excessive shearing during plasticization is suppressed by changing the flight top width in the screw compression part and minimizing changes in flight groove volume.



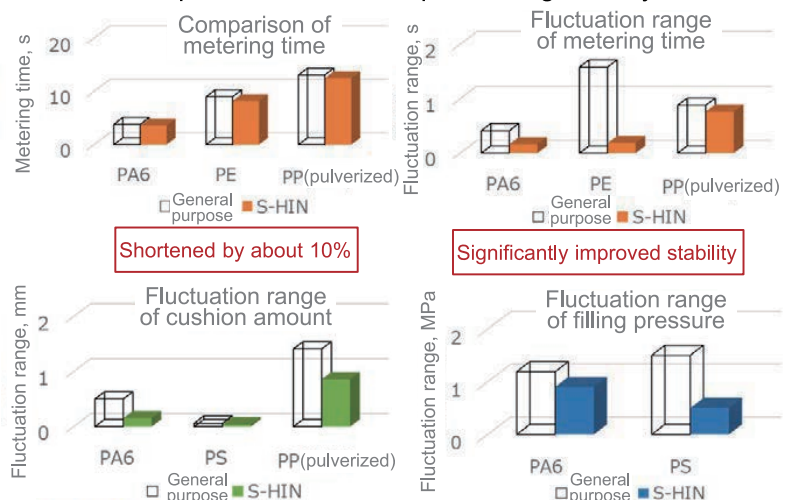
### Advantage

- Suppressing effect of Breakup during plasticization



**Observation of the resin melting process inside the screw using a visualization cylinder**

- Improvement effect of plasticizing stability



**TOYO**  
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