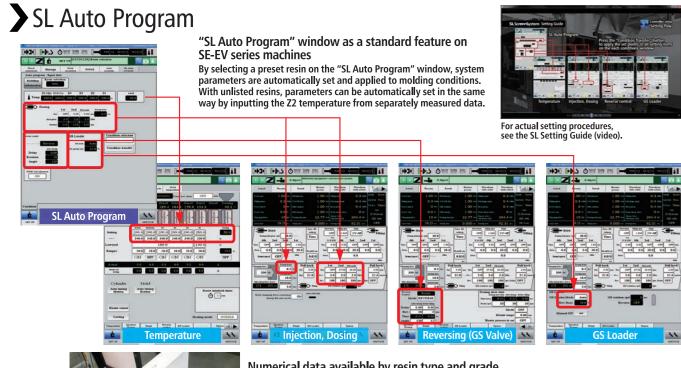
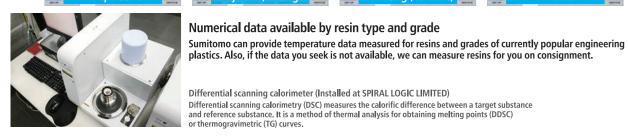
### **SL** Screw System

### Machine Model and Plasticizing Module SE-EV series With SE-EV series machines (5 models ranging from 500 -- 1,800 kN), the SL Screw System is a standard option. SL Screw Diameter Plasticizing Uni SE75EV C250 SE100EV C360 SE130EV Can be retrofitted on existing machines C450 The SL Screw System can be retrofitted on other series electric molding machines with some simple modifications. SE180EV For applicable machines and specifications, contact us.





### Dotes Bear in mind the following when wanting to introduce the SL Screw System. For more information, contact us.

Resins that contain glass filler (GF)	For resins that contain less than 30% GF, choose the Wear/Corrosion Resistance II specification. For those with 30% or higher contents of GF, choose the Connector II or equivalent specification.	Cycle tir
Corrosive resins (Halogen-free flame retardant grade)	Choose the Connector II or equivalent specification.	
High temperature resins	For resins with melting points of 400°C or higher, choose the High Temperature specification. Also, for high temperature LCP, special accommodations are required.	Hopper
Crushed material	Sizes of 4 mm or less are recommended. Plasticization can be unstable with virgin or crushed material larger than 4 mm in size.	Interfer nearby
Master batch	Mixing rates of 5% or more are recommended. With anything less than 5%, materials may not be adequately kneaded under some conditions.	

	Cycle time	Plasticization capacity is about 1/2 that of conventional screws. Therefore, under identical conditions, twice as much time is needed for plasticization.
	Shot volume	When the plasticization stroke is twice the screw diameter or longe the heater temperature may have to be set higher depending on th cycle and other conditions.
	Hopper loader	The supply rate of the GS Loader can be affected by hopper loaders of high suction and transfer force. In this case, use a hopper with a flap valve.
	Interference with nearby equipment	Because the screw assembly is short, the hopper may interfere with unloaders during nozzle touch.



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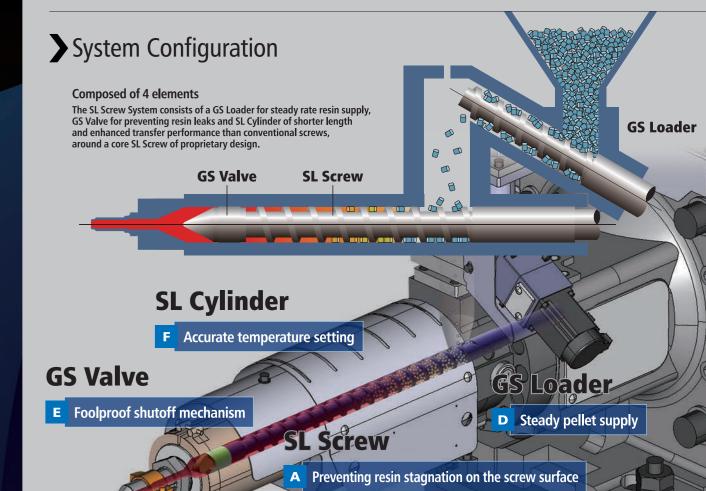




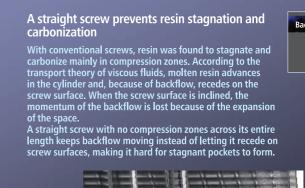
## www.shi.co.jp/plastics/

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Sumitomo





### Preventing overheating caused by shearing

B Preventing overheating caused by shearing

C Shorter length for shorter thermal history

With conventional screws, molten resin stagnates in compression zones yet pellets are still fed from behind (hopper) without interruption. Strong force acts on the resin whereby causing shear heating. With the SL Screw System, the heat from the heater is efficiently transferred to the pellets as they are supplied at an appropriate rate, so they smoothly melt without resolidifying. Moreover, pellets melt at the set temperature



