

Ⓜ Non JIS material definition is listed on P.1351 - 1352

What is Slide Core Units for Two-color Injection Mold ?

When there is an undercut on the two-color injection molded product processed by outer slide, specially-structured slide core that can keep the undercut part even after the primary molding is necessary. The slide core of such a structure must occupy a larger space than the normal slide core. Also, the design is complicated, and assembly adjustment become difficult.

The slide core unit for two-color injection mold (SCTM) is of a special structure which uses an angular cam and a lock pin. It achieves space saving and facilitates design and assembly adjustment.

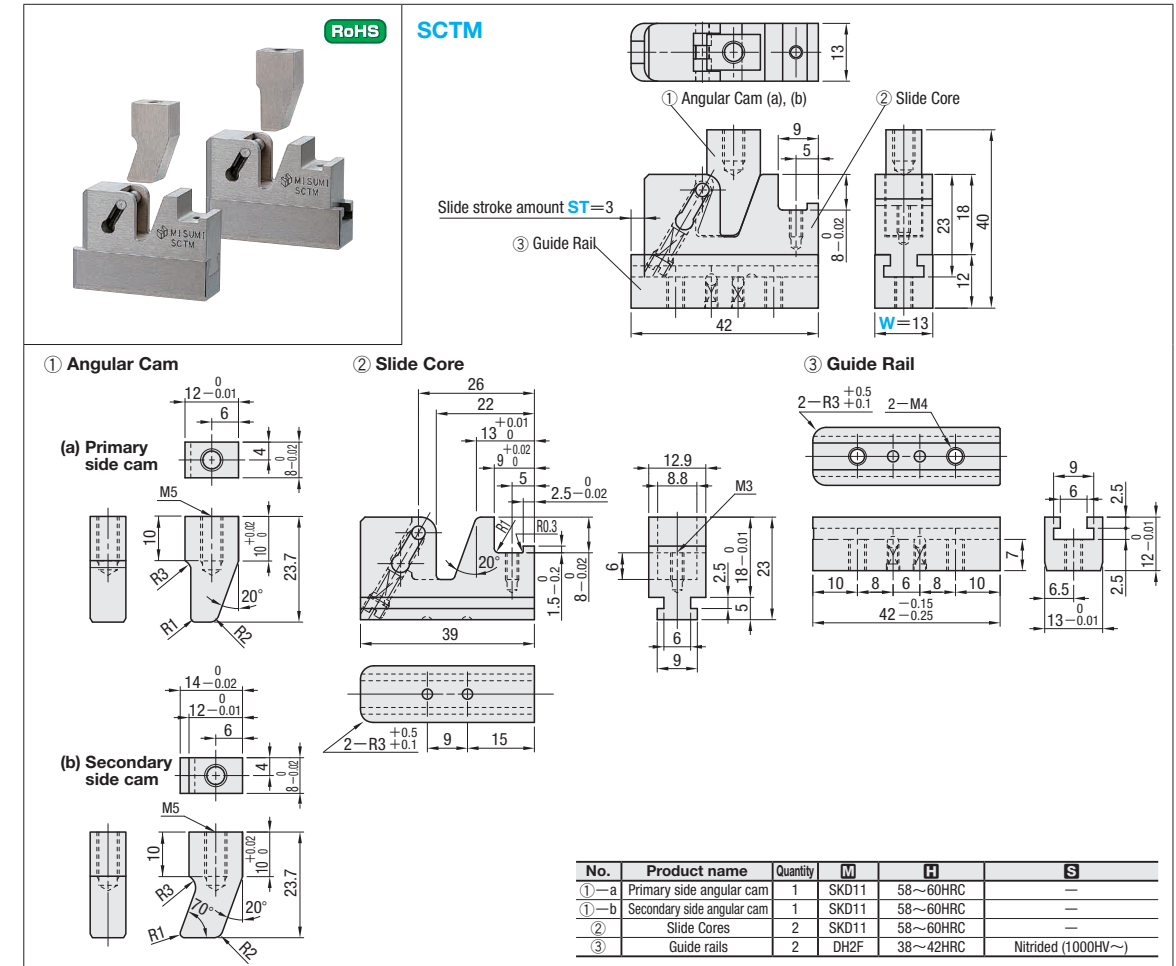
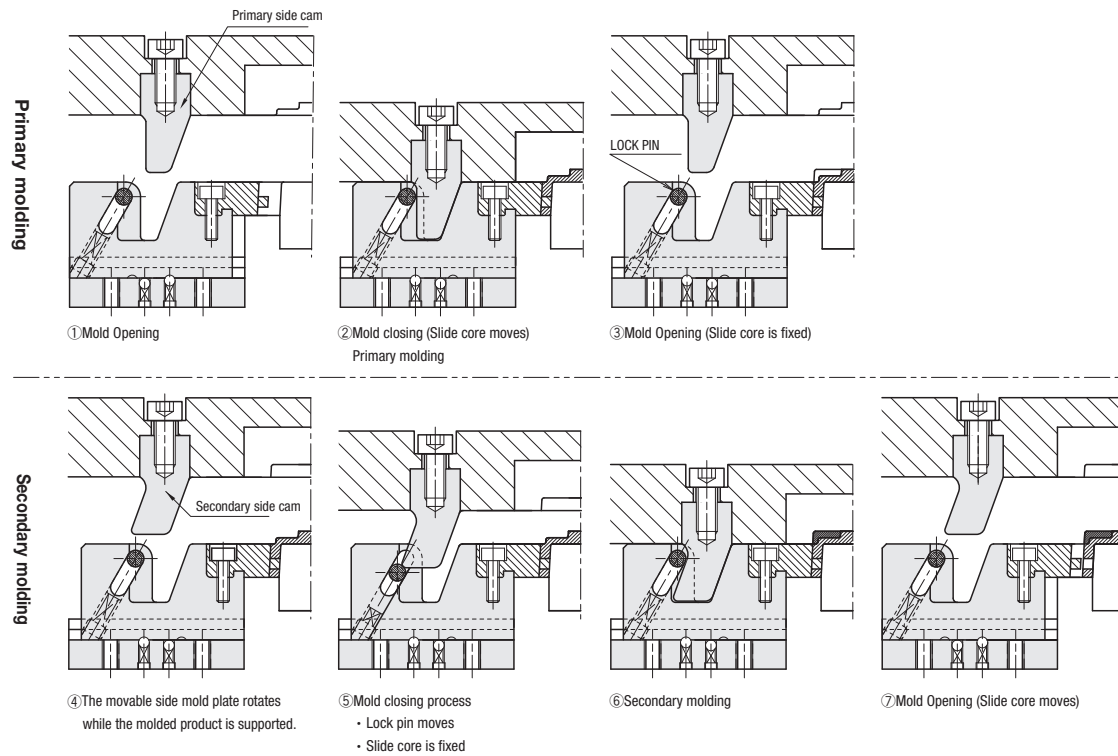
Sequence of operating the slide core unit for two-color injection mold

Primary molding

- ① Mold opening condition
- ② Mold closing (the slide core is advanced by the primary side angular cam, causing the slide core to lock), and molding of the first color
- ③ Mold opening while the primary molded product (undercut part) is supported

Secondary molding

- ④ The movable side rotates 180°, and then moves to the secondary molding side (replaced by the secondary side angular cam)
- ⑤ During the mold closing process, the secondary side angular cam pushes down the lock pin, preventing the slide core from moving
- ⑥ Mold closing (the slide core is locked by the secondary side angular cam), and molding of the second color
- ⑦ Mold opening (the slide core is retracted to its initial position by the secondary side angular cam), and removal of the molded product



Part Number	ST	W
SCTM	3	13

Order **Part Number** — **W**
SCTM3 — 13

Days to Ship **Quotation**

Price **Quotation**

Characteristics

① Compact

A special construction using a lock pin was employed for maximum compactness.

It is possible to reduce the mold size by one rank or more.

② With slide core lock function

Ball plunger leads to stable operation of the slide core.

③ Total cost reduction

- The angular cam, slide core and guide rail come in a set, which does not require oblique hole boring, resulting in process cost savings. (Please procure the core part via in-house production.)
- Eliminates the complex calculation such as the slide stroke, etc.

Notes

- This product is developed for injection molding die. Do not use for other purposes.
- Be sure to apply grease to the sliding surface to prevent it from burning.