



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.

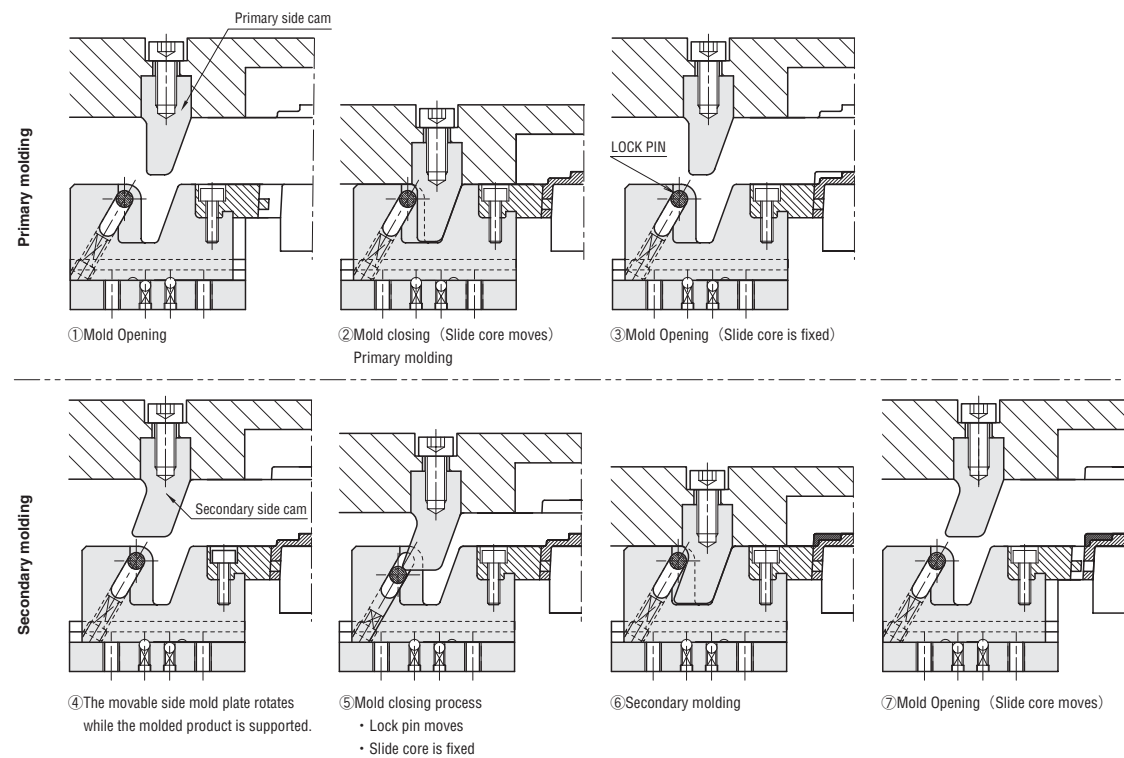
Sequence of operating the slide core unit for two-color injection mold

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



① Angular Cam

② Slide Core

③ Guide Rail

| No. | Product name | Quantity | M | H | S |
|-----|----------------------------|----------|-------|----------|--------------------|
| ①-b | Primary side angular cam | 1 | SKD11 | 58~60HRC | — |
| ①-a | Secondary side angular cam | 1 | SKD11 | 58~60HRC | — |
| ② | Slide Cores | 2 | SKD11 | 58~60HRC | — |
| ③ | Guide rails | 2 | DH2F | 38~42HRC | Nitrided (1000HV~) |

| Catalog No. | | W | ¥ U/Price |
|-------------|----|----|-----------|
| Type | ST | | 1~9 units |
| SCTM | 3 | 13 | 89,800 |

Order **Catalog No.** — **W**
SCTM3 — **13**

Delivery **1** Day

Price **Quantity discount rate** P.43

| Quantity | 1~9 | 10~19 |
|----------|-----|-------|
| Rate | — | 5% |

Ⓢ To be quoted on price & lead time above Max. Q'ty.

- ### 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
Stably activates the slide core thanks to the ball plunger.
 - ③ Total cost reduction
• The angular cam, slide core and guide plate 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.