

# SMALL DIAMETER POSITIONING PINS • BUSHINGS WITH HEAD

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

RoHS

① F-TPNFP (Pin)

② F-TPNFB (Bushing)

② Bushing

① Pin

Details of part C

SKD11 equivalent  
58~62HRC

Ⓢ Introduction recess processing  $D = 0.03$  for both pin and bushing

Ⓢ Please purchase pins and bushings independently. Sets are not available.

① Pin

H	V <sub>1</sub>	E	Part Number		L	U/Price 1~9					
			Type	D		L14.5	L19.5	L24.5	L29.5	L34.5	L39.5
9	3	6	F-TPNFP	6	14.5 19.5 24.5 29.5 34.5 39.5						
10	5			8							
15	7			10							

② Bushing

H	V <sub>2</sub>	F	Part Number		B	U/Price 1~9					
			Type	D		B14.5	B19.5	B24.5	B29.5	B34.5	B39.5
9	3	5	F-TPNFB	6	14.5 19.5 24.5 29.5 34.5 39.5						
10	5			8							
15	7			10							

- Pins and bushings have different ordering codes. (Ⓢ Use products of the same dimensions as D dimensions of pins and bushings.)
- Note: That they are not available to change combination of positioning straight pin sets (TPNF, TPNFC, TPNFCX) due to different specification.

Order **Part Number** — **L or B**  
 F-TPNFP 6 — L24.5  
 F-TPNFB 6 — B29.5

Days to Ship **Quotation**

Price **Quotation**

Alterations **Part Number** — **L or B** — (KC · RKC · HC · TC)  
 F-TPNFP 8 — L19.5 — KC4.0  
 F-TPNFB 8 — B24.5 — TC2.0

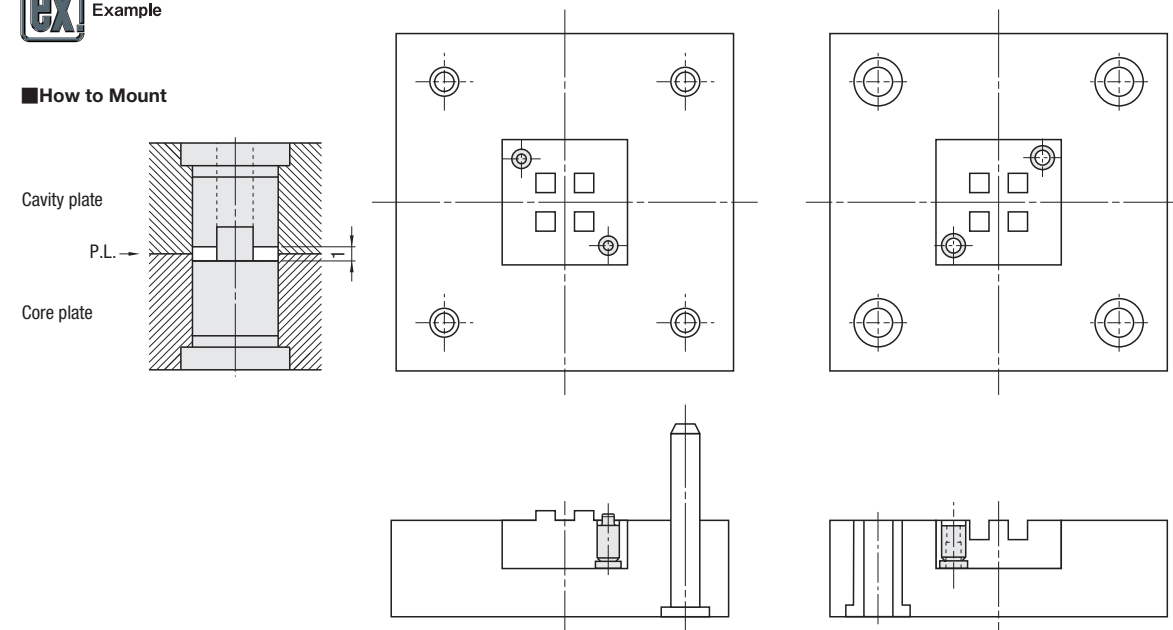
Quotation

Alterations	Code	Spec.	1Code
	KC	Single flat cutting KC=0.1mm increments $D/2 \leq KC < H/2$ Ⓢ ① Pin ② Bushing	
	RKC	Two flats (right angled) cutting RKC=0.1mm increments $D/2 \leq RKC < H/2$ Ⓢ ① Pin ② Bushing	<b>Quotation</b>
	HC	Head diameter change HC=0.1mm increments $D \leq HC < H$ Ⓢ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft. Ⓢ ① Pin ② Bushing	
	TC	Head thickness change TC=0.1mm increments $1.5 \leq TC < 4.0$ Ⓢ ① Pin ② Bushing Ⓢ L (B) dimension becomes shorter by (L(B) TC)	

- Characteristics
- This product is developed for installation into cavity insert. perfect for small molds with little positioning space.
  - Pins and bushings can be designated respectively in 5 mm increments according to the plate thickness of cavity insert.
  - Adjustment of digging depth is unnecessary due to head.
  - Positioning precision is improved by simultaneously processing cavity plates and core plates.
  - To reduce the positioning clearance, use precision leader pins.

ex Example

■ How to Mount



Components for Positioning