

EXTRA PRECISION POSITIONING STRAIGHT BLOCK SETS

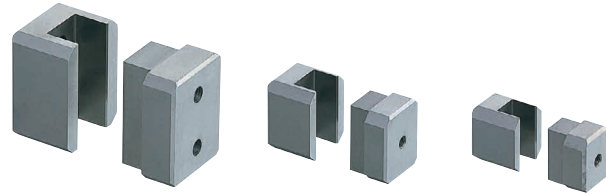
— PL INSTALLATION TYPE —

SIDE STRAIGHT BLOCK SETS—TiN COATING—

—SIDE INSTALLATION TYPE—

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

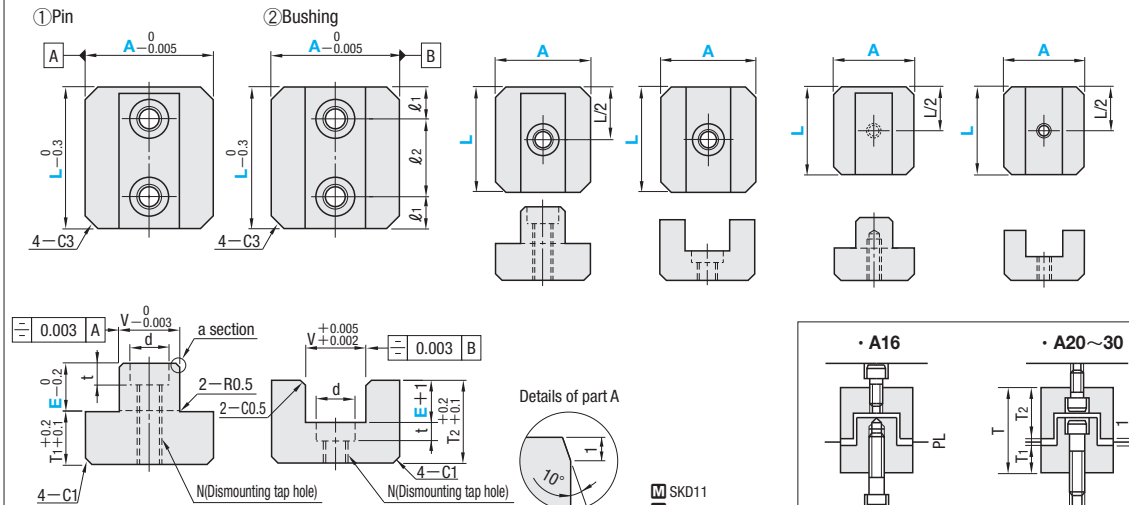
RoHS



V		Positioning precision	V dimension symmetry
① Pin	② Bushing	(Clearance)	against A/B plane
0 -0.003	+0.005 +0.002	0.002 0.008	0.003 or less

VTBSF

■ Mounting bolt hole: 2 (L30 · 40) ■ Mounting bolt hole: 1 (L25) ■ Mounting bolt hole: 1 (L16 · 20)



① Pin ② Bushing

4-C3 4-C3

4-C1 4-C1

2-R0.5 2-C0.5

2-Ra 2-Ca

2-C5 2-C5

2-Ra 2-Ca

2-C5 2-C5

① Pin ② Bushing

Positioning precision (Clearance) V dimension symmetry against A/B plane

0 +0.008 0.003 0.003 or less
-0.005 +0.002 0.013

TiN coating (All area of outer corner)

Ⓜ SKD11 (① Pin)
SKD11+TiN coating (② Bushing)
Ⓜ 53~56HRC-Annealing in high temperature <① Pin & ② Bushing>
2000HV~ (② Bushing)

Ⓜ Dimension and tolerance mentioned in catalog represents after TiN coating processed.

V	T	T1	T2	Bolt hole		Installation bolts	Tap N	No. of bolt holes	Part Number Type	L Selection	E	U/Price 1~9 pcs.
				ℓ1	ℓ2							
9	26	8	17	—	—	M4 bolt	M4	1 (Tap hole)	VTBSF	16	8	Quotation
12				7.5	15	6.5	3.5	M3 bolt		M4	1	
15	32	10	21	—	—	M4 bolt	M5	1	VTBSF	25	10	Quotation
17				7.5	15	9.5	6	M5 bolt		M6	2	
				10	20					40	12	

Order Part Number — L — E
VTBSF20 — 25 — 8

Price Quotation

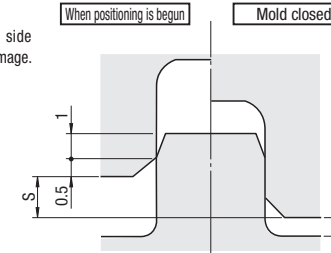
Days to Ship Quotation

- Characteristics** Ⓜ Resemblance products to positioning straight block sets Ⓜ P.953
- Suitable for positioning in precision molds such as connector and electronic device.
 - It is capable of preventing wear and damage in core pins since it can be positioned before core pins are inlaid on cavity.
 - Use precision leader pins since clearance is fairly small.

When using


- When a convex side and a concave side knock against each other, it causes damage. Please open about 1mm and use it.

E	S (Effective length max.)
8	5.5
10	7.5
12	9.5

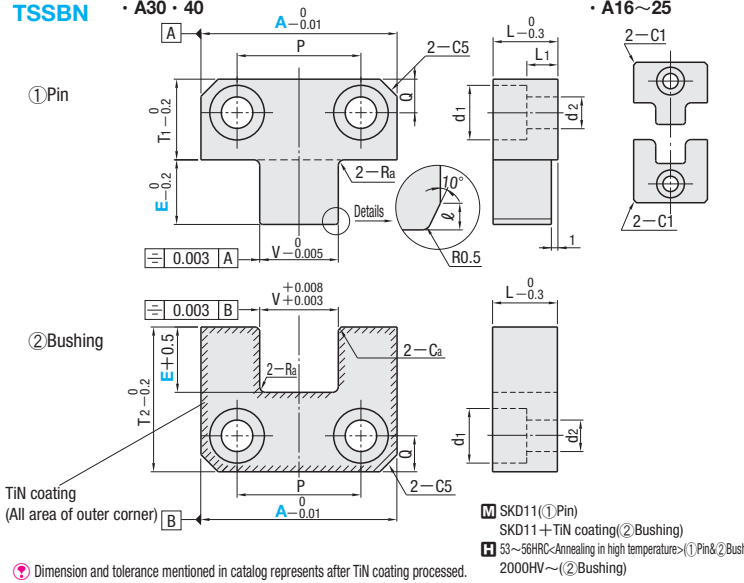


When positioning is begun Mold closed

RoHS



TSSBN • A30 · 40 • A16~25



① Pin ② Bushing

Positioning precision (Clearance) V dimension symmetry against A/B plane

0 +0.008 0.003 0.003 or less
-0.005 +0.002 0.013

TiN coating (All area of outer corner)

Ⓜ SKD11 (① Pin)
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2000HV~ (② Bushing)

Ⓜ Dimension and tolerance mentioned in catalog represents after TiN coating processed.

V	T1	T2	ℓ	Ra	Ca	Bolt hole		Installation bolts	L	L1	Part Number Type	A	E	U/Price 1~9 pcs.		
						P	Q								d1	d2
7	11	17	1	1	0.5	—	5	8	4.5	M4 bolt	8	3	TSSBN	16	6	Quotation
8						16	6	9.5	5.5	M5 bolt	10	4		20	6	
10	14	22	1	1	0.5	—	6	8	4.5	M4 bolt	8	3	TSSBN	25	8	Quotation
12						16	6	9.5	5.5	M5 bolt	10	4		30	8	
15						22	7	11	6.6	M6 bolt	13	6		40	10	

Order Part Number — E
TSSBN20 — 6

Price Quotation

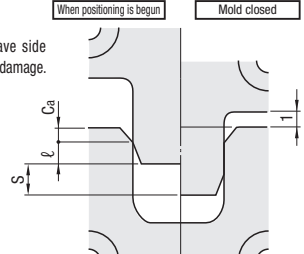
Days to Ship Quotation

- Characteristics**
- Suitable for positioning in precision molds such as connector and electronic device. It is capable of preventing wear and damage in core pins since it can be positioned before core pins are inlaid on cavity.
 - Positioning is easily performed by simultaneously processing plates in piles (refer to refer to below drawing).
 - Use precision leader pins since clearance is fairly small.

When using

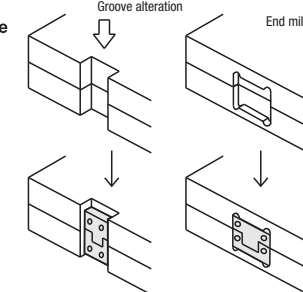
- When a convex side and a concave side knock against each other, it causes damage. Please open about 1mm and use it.

E	S (Effective length max.)
6	3.5
8	5.5
10	7.5

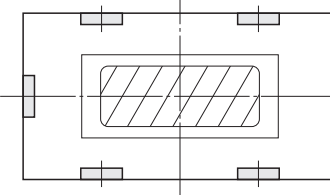


When positioning is begun Mold closed

Example



Groove alteration End mills



A relatively large sized mold can be positioned more precisely using 2 of the block set at each side in longitudinal direction of the mold base.

Guide for TiN Coating of Side Straight Block Sets

MISUMI TiN coating Side Straight Block Sets are processed by ion plating of PVD method. (Coating temperature : 480~500°C)

- Following advantages can be available by TiN coating.
- TiN coating can prevent tight fitted trouble by improving frictional coefficient.
 - Easier sliding movement by deterioration of dynamic friction coefficient.

Thickness of TiN coating is 2~3μ per side (Reference value).
Dimensional accuracy after TiN coating is ensured by preliminary calculating the coating thickness value at the time of processing.