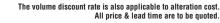
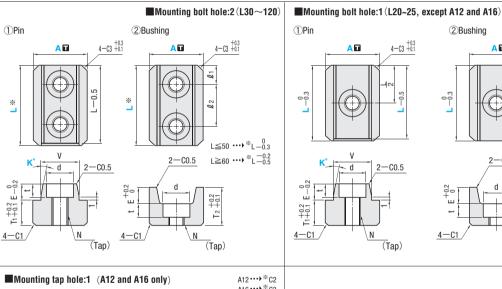
## **TAPERED BLOCK SETS**

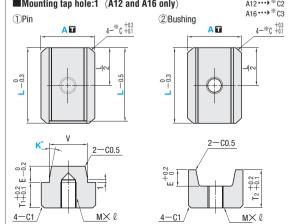




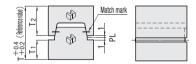


Group		Catalog No.		<b>□</b> A	V dimension	n symmetry against A plane	M	•	
Group	Set	Pin only	Bushing only	LIA .	V UIIIIEIISIUI	i Syllillicity agailist A pialic	ш		
Standard	TBS	_	_	+0.02 0	(Match mark type)	To add fitting processing, not applicable to combination with other than sets.	CVD11	58~62HRC	
Precision	VTBS	VTBSP	VTBSB	0 -0.005	0.005 or less	It can be used without caring set combination or direction.  ex) — color molding, insert molding, etc.	SKD11	00~02HKU	





## Dimensions when combined



- There is a match mark on the Misumi logo side, facilitating position alignment.
- Set the blocks so that the 'MISUMI' logo is visible from outside of the die.
- TBS must be used in set combination and direction being preset upon delivery.
- TBS has only the Misumi logo. It does not have a match mark.













4-C3 <sup>+0.3</sup> 4-C3 <sup>+0.1</sup>

Ouantity discount rate

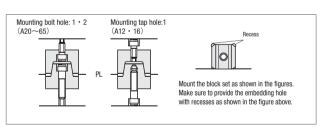
- 40	addutity diocodin rate												
Quai	ntity	1~9	10~19	20~29	30~50								
Ra	ite	ı	5%	10%	15%								

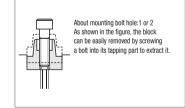
f	of Singapore please refer to P.i.								
	30~50	Stocks Availability Subjected to Prior Sales.							
	4 = 0 /								

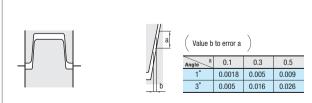
Standard (Match mark type)																		
					Bolt hole		It hole			Tap	M×ℓ		Catalog	No.	L	K°	U/Price	
V	Е	Т	T <sub>1</sub>	<b>T</b> 2	<i>l</i> 1	l 2	d	t	Installation bolt	N	(Tap hole)	No. of bolt holes	Туре	Α	Selection	Selection	1∼9 sets	
7	5								M3 bolt	M 3	M3×6	1 (Tap hole)		12	15 20			
9					_	_	_	_	M4 bolt	M 4	M4×6	1 (Tap hole)		16	20			
		23	7	14								(Tap Hole)			25 20			
10	7						۰.	٥.				1		20	25			
12	2				7.5	15	0.0	3.5	M3 bolt	M 4		2		20	30	_		
					10	20						2			40	1		
					_	_			M4 bolt	M 5		1	25		20 25		<u> </u>	
15		28	9	17	7.5	7.5 15	8	5						30	3	—lo		
	8				10	20						2			40		ti	
					_	_	9 (	6					1	TBS		25	_	te
17		32	10	20	7.5	15			M5 bolt	M 6	_		30	30	30	5	uota	
					10	20	J								40		_ ∂	
					7.5	15									30			
20	10	35	11	22		20								35	40		)	
					10	30									50			
						20 30	11	7	M6 bolt	M 8		2			40 50			
25	15 4	45	14	29	17.5								45	45	75			
					20										100	3		
					15	30									60	3		
35	20	60	19	39	20	50	14	9	M8 bolt	M10				65	90	5		
					30	60									120			

P	recis	sion																
						Bolt	hole	1		Тар		Catalog N	1	L	K°		ce for 1	~9
٧	Ε	Т	T <sub>1</sub>	T <sub>2</sub>	<i>l</i> 1	l 2	d	t	Installation bolt	N	No. of bolt holes	Туре	Α	Selection	Selection	(1)+(2)	①Pin	2Bushing
12	7	22	7	14	_	_	G E	2.5	M 3 bolt	M4	1	VTBS	20	25				
12	2 7 23 7	14	14	7.5	15 0.3	3.5	IVI 3 DOIL	IVI4	2	<b>VTBS</b> (1)+(2) Set)	20	30	1					
4.5	0	00	0	17	_	_	0	_	M 4 holt	ME	1	VTBSP		25	3	G	otati	on
15 8	ð	28	9	17	7.5	15	8	5	M 4 bolt	M5		(① Pin)	25	30	3	Gu	otati	راان
17	8	32	10	20	10	00	9	6	M 5 bolt	M6	2	VTBSB	30	40	5			
20	10	35	11	22	10	20	11	7	M 6 bolt	M8		(② Bushing)	35	40				



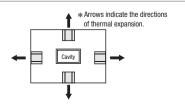






When the matching cone angle is large, the height of tapered pin and bushing must be adjusted so that they fit more tightly. On the other hand, it is necessary to take possible sticking of the pin and bushing into consideration when the angle is small. At a 1° tape (also 3 taper in some cases) sticking can be avoided by setting them slightly afloat as shown in the figure.

When the angle is small, the creep of the height (a in the left drawing) against the width (b in the left drawings) also small so that there is no need to worry about positioning inaccuracies.



■The tapered block sets are capable of offsetting the plate's thermal expansion caused in high temperature molding processes for thermosetting resins, etc., thereby maintaining positioning accuracy. The pin type positioning method cannot thoroughly absorb thermal expansion when it takes place in directions as shown in the figure. The block type will be unaffected if the groove direction is in parallel to the directions of thermal expansion as shown in the drawing.