

Heat Insulating Plates, Heat Insulating Paper

Free Cutting Grade, Thermal Plates

Free Cutting Grade



Thermal Plates

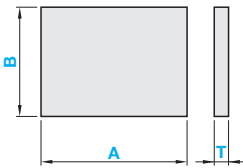


Type	Grade	Color	Operating Ambient Temperature
HIPMA	Free-cutting	White Gray	Room Temp. ~ 300°C
HIPCA	Thermal	White	Room Temp. ~ 350°C



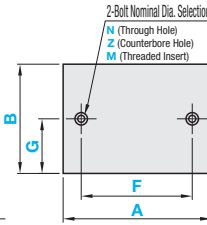
Properties and Machining Conditions **SP1675**

Standard

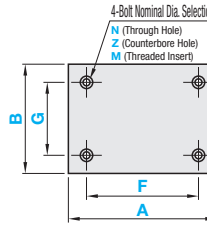


With Holes

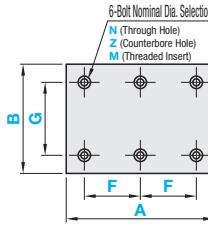
2 Holes 2H



4 Holes 4H



6 Holes 6H



A>B

Standard

Part Number	1mm Increment		Selection
	Type	A	
HIPMA HIPCA	20~800	20~600	5 10 15

Precision Standards

T Dimension Tolerance (HIPMA)	T	5	10	15
T:±0.5		±0.8	±1.0	±1.3

Dimension Tolerance of A and B (HIPMA)	A, B	+1.0 0	~499mm +1.0 0	500~ +2.0 0
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Rate of Camber and Torsion (HIPCA)

T Dimension	Rate of Camber and Torsion per 1000mm
5, 10	1.3% or Less
15	0.65% or Less

Hole Machining Detail

N (Through Hole)	Z (Counterbore Hole)	M (Threaded Insert)																												
<table border="1"> <thead> <tr> <th>Bolt Nominal Dia.</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>8</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>d</td> <td>3.5</td> <td>4.5</td> <td>5.5</td> <td>6.5</td> <td>9</td> <td>11</td> </tr> <tr> <td>d1</td> <td>-</td> <td>8</td> <td>9.5</td> <td>11</td> <td>14</td> <td>-</td> </tr> <tr> <td>h</td> <td>-</td> <td>5</td> <td>6</td> <td>7</td> <td>9</td> <td>-</td> </tr> </tbody> </table>			Bolt Nominal Dia.	3	4	5	6	8	10	d	3.5	4.5	5.5	6.5	9	11	d1	-	8	9.5	11	14	-	h	-	5	6	7	9	-
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Ordering Code(Ex): M4-L6 L<T-1 For details of Threaded Insert HLTS, See R271																														

When L+5<T, machined holes will be blind ones.

With Holes

Type	Part Number	1mm Increment		Selection	0.5mm Increment		Bolt Hole Nominal Dia. Selection					
		A	B		T	F	G	Through Hole	Counterbore Hole	Threaded Insert		
							N	Z	M		L	
HIPMA	2H 4H 6H	20~800	20~600	5	9~791 (2H, 4H Type)	5~595 (2H Type)	3 4 5 6 8 10	-	-	3 4		Select from Table 1
				10	9~395 (6H Type)	9~591 (4H, 6H Type)				3 4 5 6 8		
				15						3 4 5 6 8 10		
HIPCA	2H 4H 6H	20~800	20~600	5	9~786 (2H, 4H Type)	7~593 (2H Type)	3 4 5 6 8 10	-	-	-		-
				10	9~391 (6H Type)	9~591 (4H, 6H Type)				-		
				15						-		

- Threaded insert machining is not applicable to HIPCA.
- F Dimension Range: For 2H and 4H, $d(d_1)+5 \leq F \leq A-d(d_1)-5$; for 6H, $d(d_1)+5 \leq F \leq A/2-d(d_1)/2-2.5$.
- G Dimension Range: For 2H, $d(d_1)/2+2.5 \leq G \leq B-d(d_1)/2-2.5$; for 4H and 6H, $d(d_1)+5 \leq G \leq B-d(d_1)-5$.
- (d for through hole and threaded insert, d1 for counterbore)
- For Hole Type, select N (through hole), Z (counterbore hole), or M (threaded insert) and L (insert length).
- When machined hole of Threaded Insert Type goes through, the hole periphery may peel.



Standard
Part Number - A - B - T
HIPMA - 300 - 222 - 10

With Holes

Part Number - A - B - T - F - G - Bolt Nominal Dia. - L
HIPCA2H - 200 - 170 - 10 - F100 - G70 - N8
HIPMA2H - 200 - 150 - 5 - F100 - G75 - M4 - L4



Alterations

Part Number - A - B - T - F - G - Bolt Nominal Dia. - (XC, YC)
HIPCA2H - 100 - 100 - 5 - F40 - G50 - N6 - XC30

Alterations	Hole Position from Left	Hole Position from Bottom
Code	XC	YC
Spec.	XC=1 mm Increment 5<XC<786 (2H, 4H Type) $d(d_1)/2+2.5 \leq XC \leq A-F-d(d_1)/2-2.5$ (6H Type) $d(d_1)/2+2.5 \leq XC \leq A-2F-d(d_1)/2-2.5$	YC=1 mm Increment 5<YC<586 (2H, 4H Type) $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$ Not applicable to 2H Type.