


# Flat Bar / Rolled Aluminum Mounting Plates / Brackets

B Dim. Selectable, B Dim. Configurable

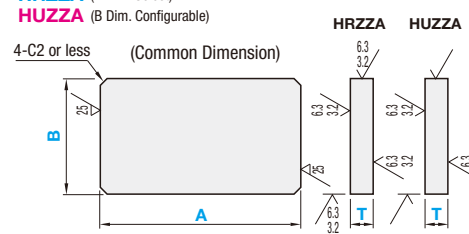


Part Number	Material	Surface Treatment
B Dim. Select (Flat Bars) <b>HR</b> ---	<b>SC</b> 1045 <b>SCB</b> Carbon <b>SCM</b> Steel	- Black Oxide Electroless Nickel Plating
B Dim. Configurable (Width configurable Flat Bars / Rolled Aluminum) <b>HU</b> ---	<b>AM</b> 5052 <b>AMW</b> Aluminum <b>AMB</b> Alloy <b>SU</b> 304 Stainless Steel	- Anodize (Clear) Anodize (Black)

⊗ For B Dim. Select (HR---), 5052 Aluminum Alloy is not selectable

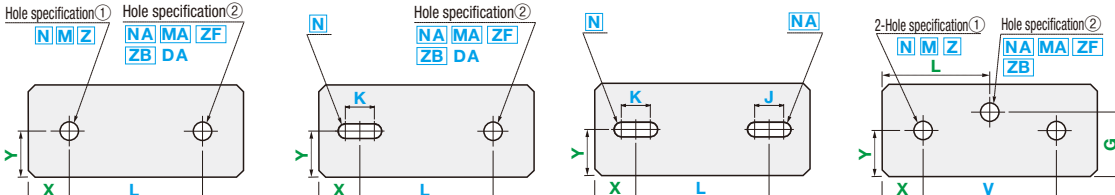
**HRZZA** (B Dim. Select)  
**HUZZA** (B Dim. Configurable)

4-C2 or less (Common Dimension)



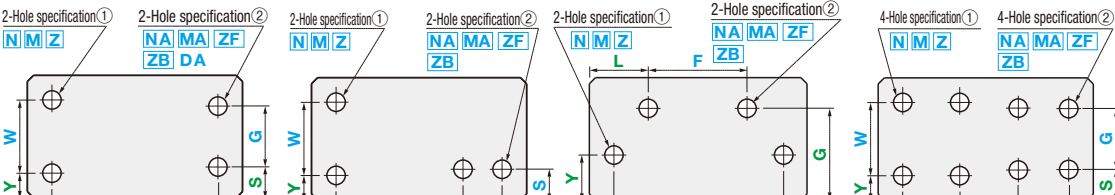
⊕ C0.2 to C0.5, unless otherwise specified.  
⊕ For other dimension tolerances and accuracy details, see P.1719.

<b>HRMQA</b> (B Dim. Select) <b>HUMQA</b> (B Dim. Configurable)	<b>HRNQA</b> (B Dim. Select) <b>HUNQA</b> (B Dim. Configurable)	<b>HRNRA</b> (B Dim. Select) <b>HUNRA</b> (B Dim. Configurable)	<b>HRCAA</b> (B Dim. Select) <b>HUCAA</b> (B Dim. Configurable)
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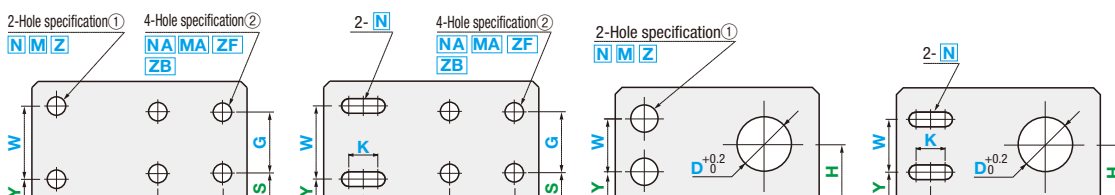
⊕ Slotted hole direction can be changed (See alterations)

<b>HRMPA</b> (B Dim. Select) <b>HUMPA</b> (B Dim. Configurable)	<b>HRMSA</b> (B Dim. Select) <b>HUMSA</b> (B Dim. Configurable)	<b>HRCBA</b> (B Dim. Select) <b>HUCBA</b> (B Dim. Configurable)	<b>HRMDA</b> (B Dim. Select) <b>HUMDA</b> (B Dim. Configurable)
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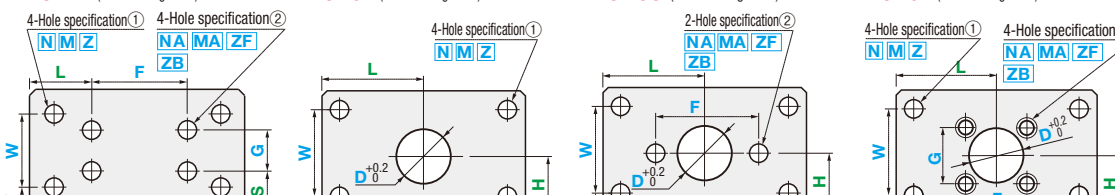
⊕ Slotted hole direction can be changed (See alterations)

<b>HRFDA</b> (B Dim. Select) <b>HUFDA</b> (B Dim. Configurable)	<b>HRJDA</b> (B Dim. Select) <b>HUJDA</b> (B Dim. Configurable)	<b>HRFCB</b> (B Dim. Select) <b>HUFCB</b> (B Dim. Configurable)	<b>HRJCB</b> (B Dim. Select) <b>HUJCB</b> (B Dim. Configurable)
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⊕ Slotted hole direction can be changed (See alterations)

<b>HRMDB</b> (B Dim. Select) <b>HUMDB</b> (B Dim. Configurable)	<b>HRMCB</b> (B Dim. Select) <b>HUMCB</b> (B Dim. Configurable)	<b>HRMCC</b> (B Dim. Select) <b>HUMCC</b> (B Dim. Configurable)	<b>HRMCA</b> (B Dim. Select) <b>HUMCA</b> (B Dim. Configurable)
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⊕ Slotted hole direction can be changed (See alterations)

Type	Part Number		0.1mm Increment	A	B	T	X	V	Y	W	Hole Specification ①		K	L	H	D	F	S	G	Hole Specification ②			
	Type	Material Symbol									Code	Nominal Dia.								Code	Nominal Dia.	DA	0.5mm
B Dim.	<b>HRZZA</b>	SC	25.0	16 22 25 32 38	50 60 75 100 125	6 9	(10)	12	16	19	N M Z	0 (No Hole)	Specify 0.1mm Increment	3-30 (0.5mm Increment)	Specify 0.1mm Increment	NA MA ZF ZB	0 (No Hole)	3 4 5 6 8 10 12 14 16	DA	3 / 30	Specify 0.1mm Increment		
	<b>HRMQA</b> <b>HRNQA</b> <b>HRNRA</b> <b>HRCAA</b> <b>HRMPA</b> <b>HRMSA</b> <b>HRCBA</b> <b>HRMDA</b> <b>HRFDA</b> <b>HRJDA</b> <b>HRFCB</b> <b>HRJCB</b> <b>HRMDB</b> <b>HRMCB</b> <b>HRMCC</b> <b>HRMCA</b>	SCB SCM SU																					
B Dim. Configurable	<b>HUZZA</b>	SC SCB SCM	25.0	15.0-150.0 (Specify 0.1mm Increment)	15.0-150.0 (Specify 0.1mm Increment)	6 9	(10)	12	16	19	N M Z	0 (No Hole)	Specify 0.1mm Increment	3-30 (0.5mm Increment)	Specify 0.1mm Increment	NA MA ZF ZB	0 (No Hole)	3 4 5 6 8 10 12 14 16	DA	3 / 30	Specify 0.1mm Increment		
	<b>HUMQA</b> <b>HUNQA</b> <b>HUNRA</b> <b>HUCAA</b> <b>HUMPA</b> <b>HUMSA</b> <b>HUCBA</b> <b>HUMDA</b> <b>HUFDA</b> <b>HUJDA</b> <b>HUFCB</b> <b>HUJCB</b> <b>HUMDB</b> <b>HUMCB</b> <b>HUMCC</b> <b>HUMCA</b>	SU AM AMW AMB																					

⊗ T10 is not selectable for SC(L) ⊗ When SU and B15, T10 - 19 not selectable  
⊗ When SC(L) and B16, 22, T19 not selectable ⊗ When SU and B20, T19 not selectable

Ordering Example: **Type** - Material Symbol - A - B - T - X - V - Y - W - Hole Specification ① - K - L - H - D - F - S - G - Hole Specification ② - J

Example: HRMQA - SC - A80 - B50 - T6 - X10 - Y25 - M6 - L60 - MA6

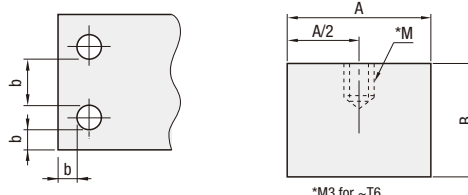
HUMCC - AMB - A100 - B80 - T10 - X15 - V70 - Y10 - W60 - Z6 - L50 - H40 - D30 - F50 - MA6

**Hole Type Selection Chart**

Hole Type	Tapped Holes	Bolt Hole	Counterbore Front	Counterbore Back	Through Hole																																				
Code	M, MA	N, NA	Z, ZF	ZB	DA																																				
Shape Diagram																																									
Machining Specifications	Effective Tap Length Max. M, MAx2 ⊕ When T, S, M, MAx3, tap pilot might not go through.																																								
	Screw Nominal Size				Dimensions Tolerance																																				
	<table border="1"> <tr><th>Dimensions</th><th>3</th><th>4</th><th>5</th><th>6</th><th>8</th><th>10</th><th>12</th><th>14</th><th>16</th></tr> <tr><th>d, h</th><td>3.5</td><td>4.5</td><td>5.5</td><td>6.5</td><td>9</td><td>11</td><td>14</td><td>16</td><td>18</td></tr> <tr><th>d1</th><td>6.5</td><td>8</td><td>9.5</td><td>11</td><td>14</td><td>18</td><td>20</td><td>23</td><td>26</td></tr> </table>				Dimensions	3	4	5	6	8	10	12	14	16	d, h	3.5	4.5	5.5	6.5	9	11	14	16	18	d1	6.5	8	9.5	11	14	18	20	23	26	<table border="1"> <tr><th>Dimensions</th><th>Tolerance</th></tr> <tr><td>3.0-6.0</td><td>±0.1</td></tr> <tr><td>6.5-30.0</td><td>±0.2</td></tr> </table>	Dimensions	Tolerance	3.0-6.0	±0.1	6.5-30.0	±0.2
Dimensions	3	4	5	6	8	10	12	14	16																																
d, h	3.5	4.5	5.5	6.5	9	11	14	16	18																																
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Dimensions	Tolerance																																								
3.0-6.0	±0.1																																								
6.5-30.0	±0.2																																								

**Machining Limits**

There are machining limits for thickness between holes, and hole and edge. (Ex. b on below Fig.)  
For machining limits, see P.1719



⊕ There may be some hanger holes (tapped) on anodize (clear / black) treated HUZZA. The holes are not anodized.

Days to Ship: [Configure Online](#)

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Alterations: **Part Number** - A - B - T - X - V - Y - W - Hole Specification ① - K - L - H - D (DC) - F - S - G - Hole Specification ② - J - (CC, RC)

Example: HRMQA - SC - A80 - B50 - T6 - X10 - Y25 - M6 - L60 - MA6 - CC10

Alterations	Corner Cut Change	Slotted Hole Angle Change	Center Hole Change to H7
Code	CC	RC	DC
Spec.	Changes corner cuts. CC=Specify 1mm Increment ⊕ 1≤CC≤50 [Specifying Method] Add CC at the end of the type designation (Ex.)--CC10	Slotted holes are changed as shown above. ⊕ Note the dimensions relationship [Specifying Method] Add RC at the end of the type designation (Ex.)--RC	Center hole D is changed to a precision hole (H7). DC=Specify 1mm Increment ⊕ 3<DC<100 ⊕ Applicable only to H_FCB, H_JCB, H_MCB, H_MCC, H_MCA [Specifying Method] Specify by replacing dim. D to DC (Ex.)--DC30
Price Adder			