

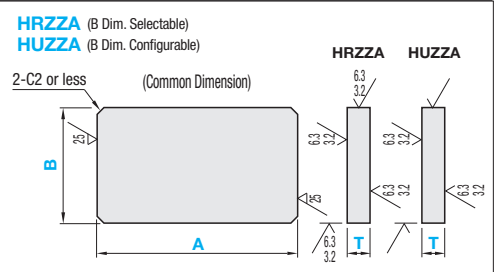
Flat Bars / Rolled Aluminum Mounting Plates, Brackets

B Dim. Selectable, B Dim. Configurable



Part Number	Material	Surface Treatment
B Dim. Selectable (Flat Bars)	SC SCB SCM	S45CD Black Oxide Electroless Nickel Plating
B Dim. Configurable (Width Configurable Flat Bars / Rolled Aluminum)	AM AMW AMB SU	A5052 Anodize (Clear) Anodize (Black) SUS304D

⊗ For B Dim. Selectable (HR□□□□), A5052 is not Selectable.



HRZZA (B Dim. Selectable)
HUZZA (B Dim. Configurable)

2-C2 or less (Common Dimension)

⊕ C0.2 to C0.5, unless otherwise specified.
⊕ For other dimension tolerances and accuracy details, see P.1833.

HRMQA (B Dim. Selectable)
HUMQA (B Dim. Configurable)

HRNQA (B Dim. Selectable)
HUNQA (B Dim. Configurable)

HRNRA (B Dim. Selectable)
HUNRA (B Dim. Configurable)

HRCAA (B Dim. Selectable) ²⁹ (Hole Machining)
HUCAA (B Dim. Configurable)

⊕ Slotted hole direction can be changed (See alterations).

HRMPA (B Dim. Selectable)
HUMPA (B Dim. Configurable)

HRMSA (B Dim. Selectable)
HUMSA (B Dim. Configurable)

HRCBA (B Dim. Selectable)
HUCBA (B Dim. Configurable)

HRMDA (B Dim. Selectable) ²⁹ (Hole Machining)
HUMDA (B Dim. Configurable)

HRFDA (B Dim. Selectable)
HUFDA (B Dim. Configurable)

HRJDA (B Dim. Selectable)
HUJDA (B Dim. Configurable)

HRFCB (B Dim. Selectable)
HUFCB (B Dim. Configurable)

HRJCB (B Dim. Selectable) ²⁹ (Hole Machining)
HUJCB (B Dim. Configurable)

⊕ Slotted hole direction can be changed (See alterations).

HRMDB (B Dim. Selectable)
HUMDB (B Dim. Configurable)

HRMCB (B Dim. Selectable)
HUMCB (B Dim. Configurable)

HRMCC (B Dim. Selectable)
HUMCC (B Dim. Configurable)

HRMCA (B Dim. Selectable) ²⁹ (Hole Machining)
HUMCA (B Dim. Configurable)

Type	Part Number		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	J	
B Dim. Selectable	HRZZA	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)	0.1mm Increment	3-30 (0.5mm Increment) 31-100 (0.1mm Increment)	0.1mm Increment					NA MA ZF ZB	0 (No Hole)	3 4 5 6 8 10 12 14 16	DA	3 / 30	0.1mm Increment
	HRMQA HRNQA HRNRA HRCAA HRMPA HRMSA HRCBA HRMDA HRFDA HRJDA HRFCB HRJCB HRMDB HRMCB HRMCC HRMCA	S45CD SCB SCM																						
B Dim. Configurable	HUZZA	SU	25.0 / 200.0	15.0-150.0 (0.1mm Increment)	6.9 (10) 12 16 19					N M Z	0 (No Hole)	0.1mm Increment	3-30 (0.5mm Increment) 31-100 (0.1mm Increment)	0.1mm Increment					NA MA ZF ZB	0 (No Hole)	3 4 5 6 8 10 12 14 16	DA	3 / 30	0.1mm Increment
	HUMQA HUNQA HUNRA HUCAA HUMPA HUMSA HUCBA HUMDA HUFDA HUJDA HUFDB HUJCB HUMDB HUMCB HUMCC HUMCA	A5052 SCB SCM AM AMW AMB																						

⊗ T10 is not selectable for SC□□□□. ⊗ For SU with B specified as 15, T10-19 are not selectable.
⊗ For SC□□□□ with B=16 or 22, T19 is not selectable. ⊗ For SU with B=20, T19 is not selectable.

Ordering Example

Part Number	A	B	T	X	V	Y	W	Hole Specification ①	K	L	H	D	F	S	G	Hole Specification ②	J
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>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><td>d, h</td><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><td>d1</td><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><td>3.0-6.0</td><td>±0.1</td></tr> <tr><td>6.5-30.0</td><td>±0.2</td></tr> </table>	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																														
d1	6.5	8	9.5	11	14	18	20	23	26																														
3.0-6.0	±0.1																																						
6.5-30.0	±0.2																																						

Machining Limits

There are machining limits for thickness between holes, and between hole and edge. (Ex. "b" on the drawing below)
For limit values, see P.1833.

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

Alterations

Part Number	A	B	T	X	V	Y	W	Hole Specification ①	K	L	H	D	F	S	G	Hole Specification ②	J
HRMQA-SC	-A80	-B50	-T6	-X10	-Y25	-	-	M6	-L60	-	-	(DC)	-	-	-	MA6	-
																	CC10

Alterations	Corner cut change	Slotted Hole Angle Change	Center Hole Change to H7
		4-CC	HRNQA/HUNQA HRNRA/HUNRA
Code	CC	RC	DC
Spec.	Changes corner cuts. CC = 1mm Increment ⊕ 1≤CC≤50 Ordering Code Add CC at the end of the Part Number designation. (Ex.) ~ -CC10	Slotted holes are changed as shown above. ⊕ Note the dimensions relationship Ordering Code Add RC at the end of the type designation. (Ex.) ~ -RC	Center hole D is changed to a precision hole (H7). DC = 1mm Increment ⊕ 3≤DC≤100 ⊕ Applicable only to H□FCB, H□JCB, H□MCB, H□MCC, H□MCA Ordering Code Specify by replacing dim. D with DC. (Ex.) ~ -DC30

2-1841 ⊕ Green colored parameters can be omitted. If the parameter setting is omitted, the holes will be evenly distributed about the center. For details, see P.1834.