

Flat Bars / Rolled Aluminum Mounting Plates, Brackets

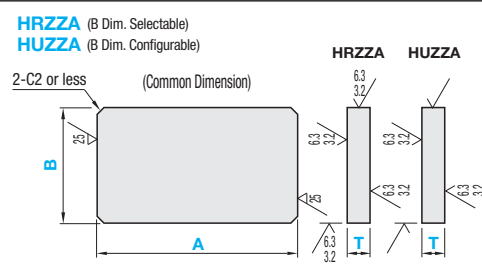
B Dim. Selectable, B Dim. Configurable



RoHS 10

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

⊗ For B Dim. Selectable (HR□□□□), EN AW-5052 Equiv. 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.

<p>HRMQA (B Dim. Selectable) HUMQA (B Dim. Configurable)</p>	<p>HRNQA (B Dim. Selectable) HUNQA (B Dim. Configurable)</p>	<p>HRNRA (B Dim. Selectable) HUNRA (B Dim. Configurable)</p>	<p>HRCAA (B Dim. Selectable) ²⁹ (Hole Machining) HUCAA (B Dim. Configurable)</p>
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<p>HRMPA (B Dim. Selectable) HUMPA (B Dim. Configurable)</p>	<p>HRMSA (B Dim. Selectable) HUMSA (B Dim. Configurable)</p>	<p>HRCBA (B Dim. Selectable) HUCBA (B Dim. Configurable)</p>	<p>HRMDA (B Dim. Selectable) ²⁹ (Hole Machining) HUMDA (B Dim. Configurable)</p>
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<p>HRFDA (B Dim. Selectable) HUFDA (B Dim. Configurable)</p>	<p>HRJDA (B Dim. Selectable) HUJDA (B Dim. Configurable)</p>	<p>HRFCB (B Dim. Selectable) HUFCB (B Dim. Configurable)</p>	<p>HRJCB (B Dim. Selectable) ²⁹ (Hole Machining) HUJCB (B Dim. Configurable)</p>
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<p>HRMDB (B Dim. Selectable) HUMDB (B Dim. Configurable)</p>	<p>HRMCB (B Dim. Selectable) HUMCB (B Dim. Configurable)</p>	<p>HRMCC (B Dim. Selectable) HUMCC (B Dim. Configurable)</p>	<p>HRMCA (B Dim. Selectable) ²⁹ (Hole Machining) HUMCA (B Dim. Configurable)</p>
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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
B Dim. Selectable	HRZZA	SC	25.0	16 22 25 32 38	6 9	10 12 16 19	0.1mm Increment	N M Z	0 (No Hole)	0.1mm Increment	3-30 (0.5mm Increment) 31-100 (0.1mm Increment)	K ≤ Nx5	0.1mm Increment	0 (No Hole)	3 4 5 6 8 10 12 14 16	DA	3 30	0.1mm Increment	J Js/Nv5			
	HRMQA HRNQA HRNRA HRCAA HRMPA HRMSA HRCBA HRMDA HRFDA HRJDA HRFCB HRJCB HRMDB HRMCB HRMCC HRMCA	SCB SCM																				
B Dim. Configurable	HUZZA	SU	25.0	15.0-150.0 (0.1mm Increment)	5 6 8 10 12 15 20	0.1mm Increment	N M Z	0 (No Hole)	0.1mm Increment	K ≤ Nx5	3-30 (0.5mm Increment) 31-100 (0.1mm Increment)	K ≤ Nx5	0.1mm Increment	0 (No Hole)	3 4 5 6 8 10 12 14 16	DA	3 30	0.1mm Increment	J Js/Nv5			
	HUMQA HUNQA HUNRA HUCAA HUMPA HUMSA HUCBA HUMDA HUFDA HUJDA HUFGB HUJCB HUMDB HUMCB HUMCC HUMCA	SCB SCM																				

⊗ 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 [Type]-[Material Symbol]-[A]-[B]-[T]-[X]-[V]-[Y]-[W]-[Hole Specification ① Code, Nominal Value]-[K]-[L]-[H]-[D]-[F]-[S]-[G]-[Hole Specification ② Code, Nominal Value]-[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 Ts=M, Max3, tap pilot might not go through.				

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 [Type]-[Material Symbol]-[A]-[B]-[T]-[X]-[V]-[Y]-[W]-[Hole Specification ① Code, Nominal Value]-[K]-[L]-[H]-[D (DC)]-[F]-[S]-[G]-[Hole Specification ② Code, Nominal Value]-[J]-(CC, RC)

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 = 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

⊗ 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.