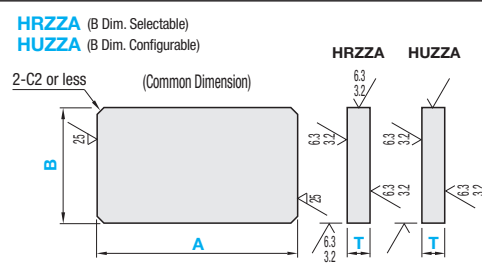


Flat Bars / Rolled Aluminum Mounting Plates, Brackets

B Dim. Selectable, B Dim. Configurable



Part Number	Material Symbol	Material	Surface Treatment
B Dim. Selectable (Flat Bars)	SC	EN 1.1191 (cold drawn) Equiv.	-
	SCB	-	Black Oxide
	SCM	-	Electroless Nickel Plating
B Dim. Configurable (Width Configurable Flat Bars / Rolled Aluminum)	AM	EN AW-5052 Equiv.	Anodize (Clear)
	AMW	-	Anodize (Black)
	AMB	-	-
	SU	EN 1.4301 Equiv.	-



For B Dim. Selectable (HR□□□□, EN AW-5052 Equiv. is not Selectable).

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

RoHS 10

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)

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)

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)

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.

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	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	SCB SCM SU		50 60 75 100 125																		15 20 25 32 38 50 65 100 125
B Dim. Configurable	HUZZA	SC	25.0	15.0-150.0	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	SCB SCM SU		10.0-200.0 (0.1mm Increment)																		5 6 8 10 12 15 20

Ⓢ 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-W-M6-K-L60-L-H-D-F-S-G-MA6-J

HUMCC-AMB-A100-B80-T10-X15-V70-Y10-W60-Z6-L50-H40-D30-F50-L-H-D-F-S-G-MA6-J

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
			3 4 5 6 8 10 12 14 16		3.0-6.0 ±0.1
			d, h 3.5 4.5 5.5 6.5 9 11 14 16 18		6.5-30.0 ±0.2
			d1 6.5 8 9.5 11 14 18 20 23 26		

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.

* M3 for - T6
 M5 for T8 ~

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-W-M6-K-L60-L-H-D-MA6-CC10

Alterations	Corner cut change	Slotted Hole Angle Change	Center Hole Change to H7
		4-CC	HRNQA/HUNQA HRNRA/HUNRA
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