6 Surface Milled Mounting Plates, Brackets

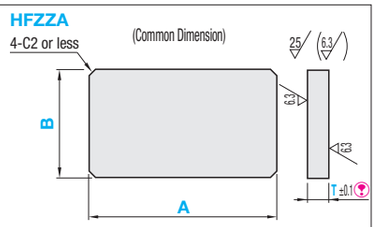
External Dimension Configurable

RoHS10

Part Number Type	Material Symbol	Material	Surface Treatment
HFZZA HFMQA HFNQA HFNRA HFCCA HFMPA HFMSA HFCBA HFMDA HFFDA HFJDA HFFCB HFJCB HFMDB HFMCB HFMCC HFMCA	SC	EN 1.1191 Equiv.	-
	SCB		Black Oxide
	SCM		Electroless Nickel Plating
	AM	EN AW-5052 Equiv.	-
	AMW		Anodize (Clear)
	AMB		Anodize (Black)
	SU	EN 1.4301 Equiv.	-

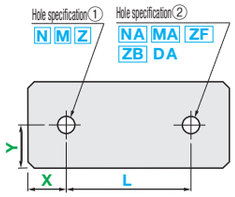
There may be some hanger holes on anodized HFZZA.

HFZZA

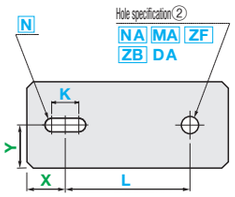


Thickness (T) tolerance can be changed (See alterations).
Thickness parallelism is 0.05 per 100mm.
C0.2 to C0.5, unless otherwise specified.
For other accuracy references, P.1833

HFMQA

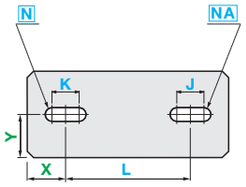


HFNQA



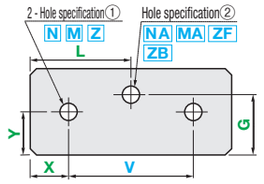
Slotted hole direction can be changed (See alterations).

HFNRA

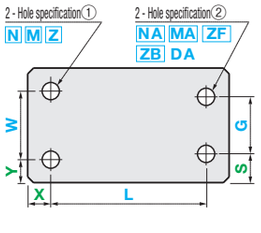


Slotted hole direction can be changed (See alterations).

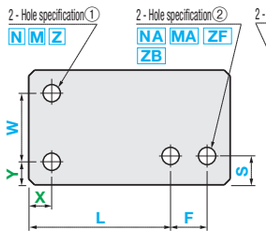
HFCCA



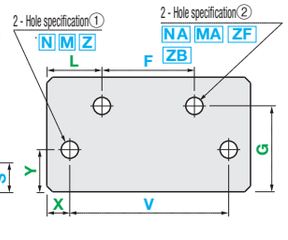
HFMPA



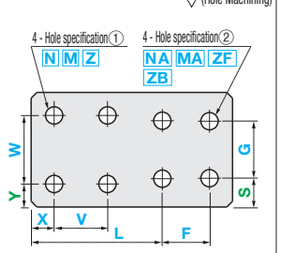
HFMSA



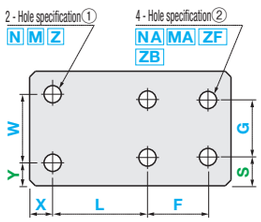
HFCBA



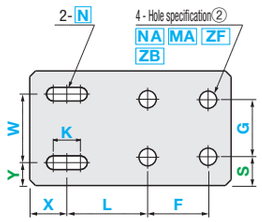
HFMDA



HFFDA

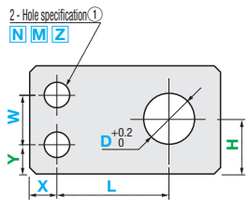


HFJDA

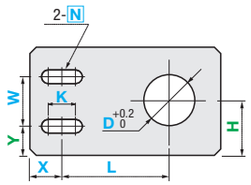


Slotted hole direction can be changed (See alterations)

HFFCB

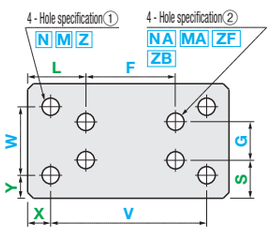


HFJCB

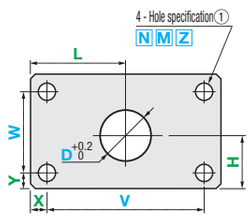


Slotted hole direction can be changed (See alterations)

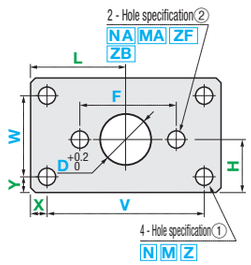
HFMDB



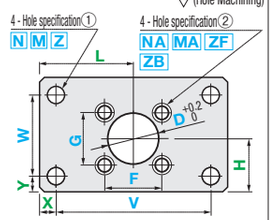
HFMCB



HFMCC



HFMCA



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.

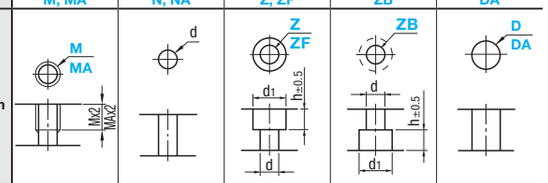
Part Number Type	Material Symbol	0.1mm Increment A	B	T	X V Y W	Hole Specification① Code	Nominal Dia.	K L H	D	F S G	Hole Specification② Code	Nominal Dia.	DA	0.5mm	J
HFZZA HFMQA HFNQA HFNRA HFCCA HFMPA HFMSA HFCBA HFMDA HFFDA HFJDA HFFCB HFJCB HFMDB HFMCB HFMCC HFMCA	SC SCB SCM AM AMW AMB SU	25.0 ~ 200.0	10.0 ~ 200.0	3.0 ~ 30.0	0.1mm Increment	N M Z For the machining dimensions, see Hole Type Selection Chart. Hole Type Selection Chart	0 (No Hole) 3 4 5 6 8 10 12 14 16	0.1mm Increment K≤Nx10	3~30 (0.5mm Increment) 31~100 (0.1mm Increment)	0.1mm Increment	NA MA ZF ZB For the machining dimensions, see Hole Type Selection Chart. Hole Type Selection Chart	0 (No Hole) 3 4 5 6 8 10 12 14 16	DA	3 ~ 30	0.1mm Increment J≤NAx10

For AMW and AMB, T≥5 For SU, T≤25.0

Ordering Example

Part Number	-	A	-	B	-	T	-	X	-	V	-	Y	-	W	-	Hole Specification① Code, Nominal Value	-	K	-	L	-	H	-	D	-	F	-	S	-	G	-	Hole Specification② Code, Nominal Value	-	J
HFMCC	-	AMB	-	A100	-	B80	-	T10	-	X15	-	V70	-	Y10	-	W60	-	Z6			-	L50	-	H40	-	D30	-	F50			-	MA6		

Hole Type Selection Chart

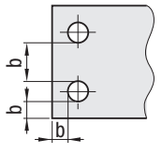
Hole Type	Tapped Holes	Bolt Hole	Counterbore Front	Counterbore Back	Through Hole
Code	M, MA	N, NA	Z, ZF	ZB	DA
Shape Diagram					
Machining Specifications	Effective Tap Length Max. M , MAx2 When T≥M, MAx3, tap pilot might not go through.				

Dimensions	Screw Nominal Size 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

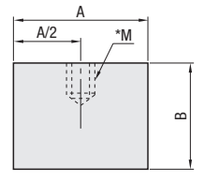
Dimensions	Tolerance
3.0~6.0	±0.1
6.5~30.0	±0.2

Machining Limits

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



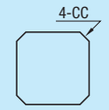
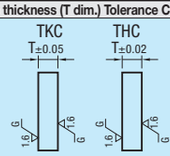
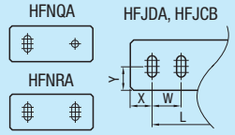
There may be some hanger holes (tapped) on anodize (clear, black) treated HFZZA. The holes are not anodized.



* M3 for ~ T7.9
M5 for T8 ~

Alterations

Part Number	-	A	-	B	-	T	-	X	-	V	-	Y	-	W	-	Hole Specification① Code, Nominal Value	-	K	-	L	-	H	-	D (DC)	-	F	-	S	-	G	-	Hole Specification② Code, Nominal Value	-	J	-	(CC)
HFMCC	-	AMB	-	A100	-	B80	-	T10	-	X15	-	V70	-	Y10	-	W60	-	Z6			-	L50	-	H40	-	D30	-	F50			-	MA6			-	CC10

	Corner cut change	Plate thickness (T dim.) Tolerance Change	Slotted Hole Angle Change	Center D Hole Change to H7
Alterations				
Code	CC	TKC, THC	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	Changes Plate thickness (T dim.) Tolerance. TKC Tolerance ±0.05 THC Tolerance ±0.02 Only SC, SCB and SCM material symbols are applicable. TKC and THC cannot be specified simultaneously. Ordering Code Add TKC or THC at the end of the type designation. (Ex.) ~ -TKC, ~ -THC	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 HFFCB, HFJCB, HFMCB, HFMCC and HFMCA. Ordering Code Specify by replacing dim. D with DC. (Ex.) ~ -DC30