Add. Spec. Printed in Red

6 Surface Milled Mounting Plates / Brackets

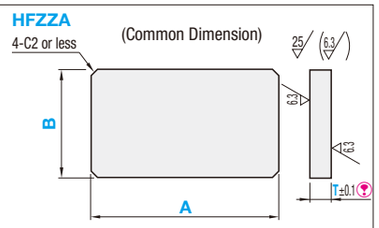
External Dimension Configurable

Reduced Days to Ship

RoHS10

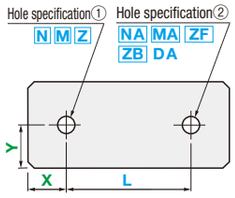
Part Number Type	Material Symbol	Material	Surface Treatment
HFZZA	SC	1045 Carbon Steel	-
HFMQA HFNQA	SCB		Black Oxide
HFNRA HFCCA	SCM		Electroless Nickel Plating
HFMPA HFMSA	AM	5052 Aluminum Alloy	-
HFCBA HFMDA	AMW		Anodize (Clear)
HFFDA HFJDA	AMB		Anodize (Black)
HFFCB HFJCB	SU	304 Stainless Steel	-
HFMDB HFMCB			
HFMCC HFMCA			

HFZZA

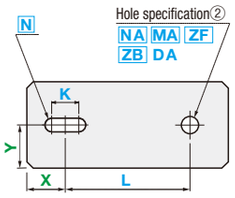


- Thickness (T) tolerance can be changed (See alterations)
- Thickness parallelism is 0.05 per 100mm
- C0.2 to C0.5, unless otherwise specified.
- For other accuracy references See P.1719

HFMQA

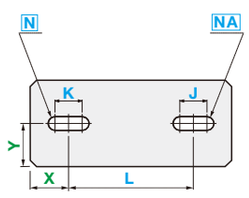


HFNQA



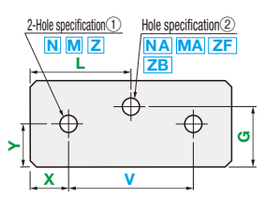
- Slotted hole direction can be changed (See alterations)

HFNRA

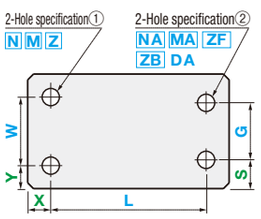


- Slotted hole direction can be changed (See alterations)

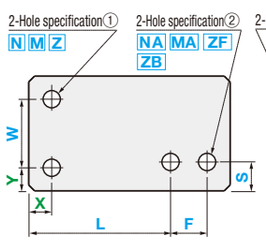
HFCCA



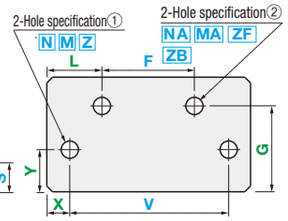
HFMPA



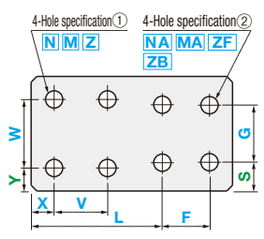
HFMSA



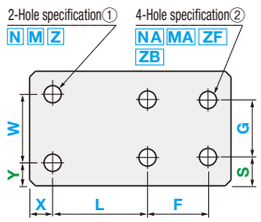
HFCBA



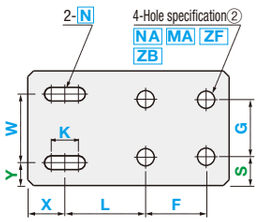
HFMDA



HFFDA

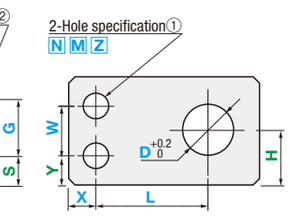


HFJDA

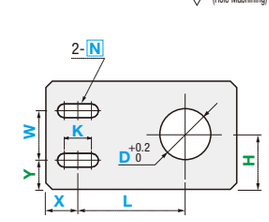


- Slotted hole direction can be changed (See alterations)

HFFCB

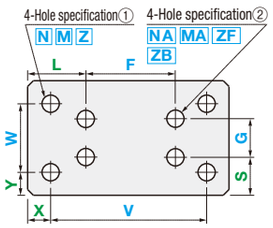


HFJCB

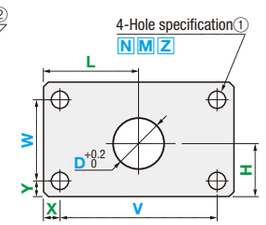


- Slotted hole direction can be changed (See alterations)

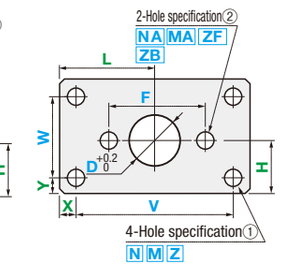
HFMDB



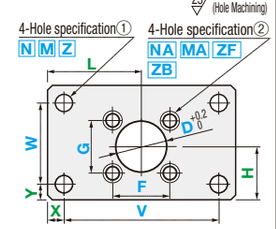
HFMCB



HFMCC



HFMCA



Green colored parameters can be omitted. If omitted, the placements will be even about the center. (P.1720)

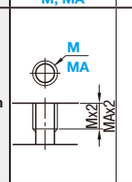
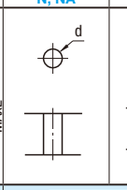
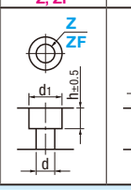
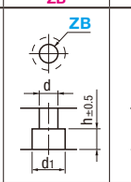
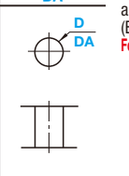
Part Number Type	Material Symbol	A	B	T	X	V	Y	W	Hole Specification① Code	Nominal Dia.	K	L	H	D	F	S	G	Hole Specification② Code	Nominal Dia.	DA	0.5mm	J
HFZZA									N	0 (No Hole)								NA	0 (No Hole)			
HFMQA HFNQA	SC								M	3								MA	3			
HFNRA HFCCA	SCB								Z	4								ZF	4			
HFMPA HFMSA	SCM	25.0 ~ 200.0	10.0 ~ 200.0	3.0 ~ 30.0	Specify 0.1mm Increment				For the machining dimensions, see Hole Type Selection Chart	5	Specify 0.1mm Increment K≤NX10			3~30 (0.5mm Increment) 31~100 (1mm Increment)	Specify 0.1mm Increment			ZB	5	DA	3 ~ 30	Specify 0.1mm Increment J≤NAx10
HFCBA HFMDA	AM									6								For the machining dimensions, see Hole Type Selection Chart	6			
HFFDA HFJDA	AMW									8									8			
HFFCB HFJCB	AMB									10									10			
HFMDB HFMCB	SU									12									12			
HFMCC HFMCA										14									14			
										16									16			

AMW, AMB is T≥5 SU is T≤25.0

Ordering Example

Part Number		A	B	T	X	V	Y	W	Hole Specification① Code / Nominal Dia.	K	L	H	D	F	S	G	Hole Specification② Code / Nominal Dia.	J
Type	Material Symbol																	
HFMCC	AMB	A100	B80	T10	X15	V70	Y10	W60	Z6		L50	H40	D30	F50			MA6	CC10

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.

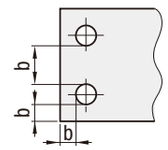
Dimensions	Screw Nominal Size								
	3	4	5	6	8	10	12	14	16
d, h	3.5	4.5	5.5	6.5	9	11	14	16	18
d1	6.5	8	9.5	11	14	18	20	23	26

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

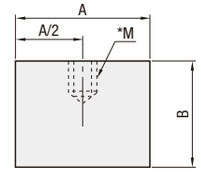
Machining Limits

There are machining limits for thickness between holes, and 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 HFZZA. The holes are not anodized.



*M3 for~T7.9
M5 for T8~

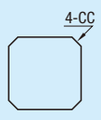
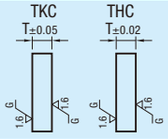
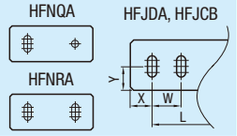
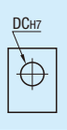
Days to Ship — Configure Online

Price — Configure Online

Alterations

Part Number

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

Alterations	Corner Cut Change	Plate Thickness (T dim.) Tolerance Change	Slotted Hole Angle Change	Center D Hole Change to H7
				
Code	CC	TKC, THC	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	Changes Plate thickness (T dim.) tolerance. TKC Tolerance ±0.05 THC Tolerance ±0.02 Only SC, SCB, SCM material symbols are applicable TKC, THC cannot be specified simultaneously Specifying Method 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 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 HFFCB, HFJCB, HFMCB, HFMCA Specifying Method Specify by replacing dim. D to DC (Ex.)~-DC30
Price Adder				