

Counterbores in Specified Position

D Type Hole Alterations

Blind Joints which require this alteration

Single Joints
P669

Counterbores useable for various purposes are added at customer specified locations.

Top to Bottom (Vertical)
XA XB XC XD XE

Right to Left (Horizontal)
YA YB YC YD YE

Cross Section View

Counterbore is added on every slot for multiple slotted extrusions.

Alteration Code Specification Method

As for the Counterbore, it is possible to select one type of hole diameter in Z selection and specify up to five holes in one direction.

Specify the desired hole position from the left end.

Alterations	Counterboring				
	Code	Z	d	d1	Distance from the Left End (0.5mm Increment)
Specify Counterbores and Locations	HFS5	5	5.5	9.5	7-L-7
	HFS6	6	6.5	11	
	GF56	8	9	14	
	HFS8(-45)	8	6.5	11	
	GF58	8	9	14	10-L-10
		12	13	19	

Ordering Example

Part Number
HFS6-3030-500-Z6-XA200-XB256

Days to Ship **Configure Online**

Feature	Code	No.	Page	Counterbores in Specified Position	
				From Top to Bottom	From Right to Left
4-Side Slots	HFS5	2020	P511		
	HFS6	2040	P512		
	GF56	2060	P513		
	NFS5	2080	P513		
	CAF5	2525	P513		
	HFSY5	2550	P513		
		4040	P512		
		4060	P513		
		4080	P513		
		4040Z0	P514		
3-Side Slot 1-Side Flat	HFSF5	2020	P511		
	NFSF5	2040	P512		
2-Side Slots 2 Flats	HFSY5	2020	P511		
	NFSY5	4040	P512		
2 Slots on Opposite Sides 1-Side Slot 3 Flats	HFSY5	2020	P511		
	HFS30A5	2020	P511		
	HFS45A5	2020	P511		
Angled	HFS60A5	20	P514		
		2040	P514		
		2525	P513		
Black Anodize	NFSB5	2020	P511		
	NFSB5	2525	P513		
	HFSYB5	2020	P511		
Curved	HFSYB5	2020	P511		
	HFSYB5	2020	P511		
	HFSYB5	2020	P511		

Feature	Code	No.	Page	Counterbores in Specified Position	
				From Top to Bottom	From Right to Left
4-Side Slots	HFS6	4040	P587		
	GF58	4080	P589		
	NFS6	40120	P592		
	NFS6	40180	P592		
	CAF6	80160	P592		
	HFSY6	803040	P594		
		6060	P549		
		6080	P551		
		60120	P552		
		6060	P550		
3-Side Slot 1-Side Flat	HFSF6	3030	P546		
	NFSF6	3060	P548		
2-Side Slots 2 Flats	HFSY6	3030	P546		
	NFSY6	6060	P549		
2 Slots on Opposite Sides	HFSH6	3030	P546		
	EF5H6	3060	P548		
1-Side Slot 3 Flats	HFSC6	3030	P546		
	EF5C6	3060	P548		
Light Type	HFSL6	3030	P546		
	NFSL6	3060	P547		
Angled	HFS60A6	30	P552		
	HFS45A6	30	P552		
	HFS60A6	3030	P546		
Black Anodize	NFSB6	3030	P546		
	EF5B6	3060	P547		
	NFSB6	5050	P553		
Curved	HFSYB6	3030	P546		
	HFSYB6	3030	P546		
	HFSYB6	3030	P546		

Adds D Holes for Single Joint connections.

(Ref.) View of Single Jointed Corners

Horizontal on Left End
LDH

Vertical on Left End
LDV

Horizontal on Right End
RDH

Vertical on Right End
RDV

Cross Section View

D Holes do not penetrate through the smooth sides, enabling esthetically pleasing connections.

D Hole is added on every slot for multiple slotted extrusions.

Ordering Example

Part Number
HFS6-3030-2000-LDH-RDH

Days to Ship **Configure Online**

Hole Position and Size	D Hole	
Extrusion Series	H(mm)	ØD(mm)
HFS6	15	11.1
HFS8	20	13.1
HFS8-45	22.5	15.1

Alterations	Code	No.	Page	D Hole Dia.	D Hole			
					Left Side	Right Side	Horizontally	Vertically
4-Side Slots	HFS6	3030	P545	D11.1				
	NFS6	3060	P547					
	GF56	3090	P550					
	NFS6	30120	P550					
	NFS6	5050	P553					
	CAF6	80100	P553					
	HFSY6	100100	P553					
		6060	P549					
		6080	P551					
		60120	P552					
3-Side Slot 1-Side Flat	EF56	3030	P550	D13.1				
	NFSF6	3060	P548					
2-Side Slots 2 Flats	HFSY6	3030	P546	D11.1				
	NFSY6	6060	P549					
2 Slots on Opposite Sides	HFSH6	3030	P546	D11.1				
	EF5H6	3060	P548					
1-Side Slot 3 Flats	HFSC6	3030	P546	D11.1				
	EF5C6	3060	P548					
Light Type	HFSL6	3030	P546	D11.1				
	NFSL6	3060	P547					
Angled	HFS60A6	30	P552	D11.1				
	HFS45A6	30	P552					
	HFS60A6	3030	P546					
Black Anodize	NFSB6	3030	P546	D11.1				
	EF5B6	3060	P547					
	NFSB6	5050	P553					
Curved	HFSYB6	3030	P546	D11.1				
	HFSYB6	3030	P546					
	HFSYB6	3030	P546					

Alterations	Code	No.	Page	D Hole Dia.	D Hole			
					Left Side	Right Side	Horizontally	Vertically
4-Side Slots	HFS6	4545	P625	D15.1				
	GF58	4590	P628					
	NFS6	45180	P629					
	NFS6	5050	P631					
	CAF6	80100	P632					
	HFSY6	80300	P633					
		9090	P629					
		90180	P629					
		908045	P630					
		100100	P632					
3-Side Slots 1 Flat	HFSF6	4545	P626	D15.1				
	NFSF6	4590	P628					
2-Side Slots 2 Flats	HFSY6	4545	P627	D15.1				
	NFSY6	9090	P633					
2 Slots on Opposite Sides	HFSH6	4545	P627	D15.1				
	EF5H6	4590	P628					
1-Side Slot 3 Flats	HFSC6	4545	P626	D15.1				
	EF5C6	4590	P628					
Light Type	HFSL6	4545	P626	D15.1				
	NFSL6	4590	P628					
Angled	HFS60A6	45	P630	D15.1				
	HFS45A6	45	P630					
	HFS60A6	4545	P625					
Black Anodize	NFSB6	4545	P625	D15.1				
	EF5B6	4590	P628					
	NFSB6	5050	P631					
Curved	HFSYB6	4545	P625	D15.1				
	HFSYB6	4545	P625					
	HFSYB6	4545	P625					

Standard of Extrusion Position

Placing method of the extrusion, which is a basis to determine right and left is shown as follows.

- On the vertical length
- Flat side down
- One flat side down and another flat side right

Example of ①, ②, ③, Example of L-Shaped

When the extrusion is on the vertical length and also has a flat side, ① has the priority.

Notes on Flat Sided Extrusions

Counterbores cannot be made from smooth extrusion sides, but can be made from slotted sides through the smooth sides.

From Top to Bottom X ₋					Not Applicable
From Right to Left Y ₋					Not Applicable

Standard of Extrusion Position

Placing method of the extrusion, which is a basis to determine right and left is shown as follows.

- On the vertical length
- Flat side down
- One flat side down and another flat side right

Example of ①, ②, ③, Example of L-Shaped

When the extrusion is on the vertical length and also has a flat side, ① has the priority.

Additional Info. on Smooth Sided Extrusions

D Holes in flat surface direction are blind holes, and do not penetrate through the flat surface.

D holes and wrench access holes can be added using a jig on P786.