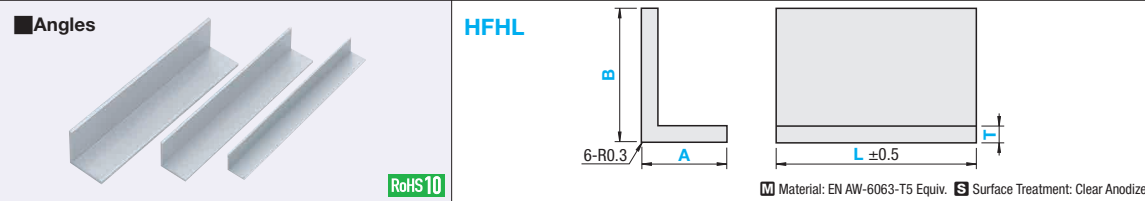


Angles / Channels / Flat Bars / Square Tubing



Part Number			L 1mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia		Unit Price (Less than 500mm)	Unit Price/m (300mm or More)
Type	A	B				T	$I_{xx} \times 10^4$		
HFHL (Angles)	15	30	2	0.232	86	0.16	0.807		
	20	20	2	0.206	70	0.288	0.288		
			3	0.301	111	0.403	0.403		
	20	40	2	0.315	116	0.348	1.964		
			3	0.464	171	0.489	2.82		
	25	25	3	0.381	141	0.819	0.819		
			5	0.583	216	0.993	5.661		
	30	30	2	0.315	116	1.019	1.019		
			5	0.464	171	1.458	1.458		
			5	0.745	275	2.21	2.21		
	40	40	2	0.412	156	2.47	2.47		
			5	0.626	231	3.58	3.58		
	50	50	3	1.016	375	5.56	5.56		
			5	0.785	291	7.15	7.15		
	60	60	5	1.553	575	19.9	19.9		
	75	75		2.333	864	46.88	46.88		
	100	100	6	3.143	1164	114.3	114.3		
	150	150		4.763	1764	397.5	397.5		

M Material: EN AW-6063-T5 Equip. **S** Surface Treatment: Clear Anodize

Alterations  Part Number - T - L - N - (XA, ...YA,...)
HFHL2040 - 2 - 90 - N8 - XA42-XB62-YA20-YB42

Alterations	Through Hole			
Spec.	Adds through holes on the extrusion. N is a nominal diameter.			
	Face of Extrusion	N (Selection)		
	X	3 4 5 6 8		
	Y			
④ +5·N/2 is needed from an end. ⑤ Only 1 dia. is selectable for N. ⑥ When A=15, only N3, N4 and N5 are available. ⑦ One face has up to five holes.				

Hole Machining Details

④ +5·N/2 is needed from an end.

⑤ Only 1 dia. is selectable for N.

⑥ When A=15, only N3, N4 and N5 are available.

⑦ One face has up to five holes.

④ +5·N/2 is needed from an end.

⑤ Only 1 dia. is selectable for N.

⑥ When A=15, only N3, N4 and N5 are available.

⑦ One face has up to five holes.

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⑤ Only 1 dia. is selectable for N.

⑥ When A=15, only N3, N4 and N5 are available.

⑦ One face has up to five holes.

④ +5·N/2 is needed from an end.

⑤ Only 1 dia. is selectable for N.

⑥ When A=15, only N3, N4 and N5 are available.

⑦ One face has up to five holes.

④ +5·N/2 is needed from an end.

⑤ Only 1 dia. is selectable for N.

⑥ When A=15, only N3, N4 and N5 are available.

⑦ One face has up to five holes.

④ +5·N/2 is needed from an end.

⑤ Only 1 dia. is selectable for N.

⑥ When A=15, only N3, N4 and N5 are available.

Through Hole

Ordering Code Specifications of Hole Size and Position (Ex)

N (Select from the table)

Extrusion Plane/Plane Plane

Hole machining on this plane (in the order of A, B and C)

Distance from the End (1mm Increment)

N6 X A 42-XB62

Y A 20-YB42

Machining Plane/Plane Plane

Plane Y

B/2

N

A/2

Plane X

Y A20

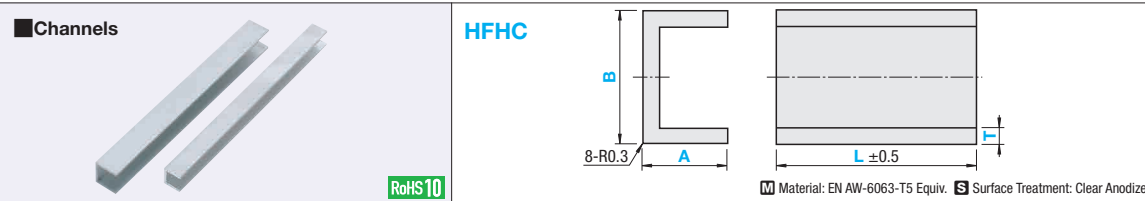
YB42

⑥6.5

X A42

XB62

90



Part Number			T	L 1mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia		Unit Price (Less than 300mm)	Unit Price/m (300mm or More)	
Type	A	B					$I_{xx} \times 10^4$	$I_{yy} \times 10^4$			
HFHC (Channels)	15	15	2	50-2000	0.222	82	0.1433	0.227			
		30			0.304	112	0.232	1.471			
	20	20			0.304	112	0.453	0.719			
		40			0.412	152	0.576	3.688			
	25	25			0.381	142	1.479	0.911			
		50			0.761	282	1.640	10.42			
		3									

M Material: EN AW-6063-T5 Equip. **S** Surface Treatment: Clear Anodize

Part Number			T	L 1mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia $L \times 10^{-4}$ $\gamma \times 10^{-4}$	Unit Price (Less than 300mm)	Unit Price/m (300mm or More)
Type	A	B							


 Ordering Example

Part Number	-	T	-	L
HFHC1515	-	2	-	800

Alterations  Part Number - T - L - N - (XA, ...YA,...ZA,...)
HFHC2040 - 2 - 90 - N8 - XA50-YA20-ZA20-ZB42

Alterations	Through Hole			
Spec.	Adds through holes on the extrusion. N is a nominal diameter.			
	Face of Extrusion	N (Selection)	Hole Machining Details	Ordering Code Specifications of Hole Size and Position [Ex]
	X	3 4 5 6 8		N (Select from the table.) Extrusion Planeing Plane Hole machining on this plane (in the order of A, B and C) Distance from the End (1mm Increment)
	Y			
	Z			
	⚠ 5+N/2 is needed from an end. ⚠ Only 1 dia. is selectable for N. ⚠ When A and B dimensions are 15, only N3, 4 and 5 can be selected. ⚠ One face has up to five holes.			

N (Select from the table.)

Extrusion Planeing Plane

Hole machining on this plane (in the order of A, B and C)

Distance from the End (1mm Increment)

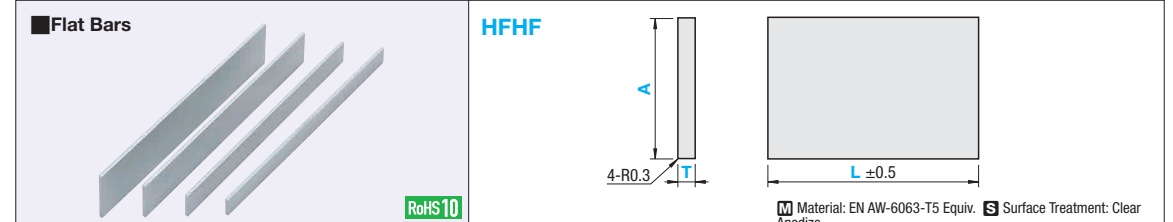
Machining Planeing Plane

N6

X A 50

Y A 20

Z A 20-ZB42



Part Number		T	L 1mm Increment	Unit Price (Less than 300mm)			Unit Price/m (300mm or More)			
Type	A			2	T	3	5	2	T	3
HFHF (Flat Bars)	10	3	50~2000	-			-			
	15	2		3	-			-		
	20	2		3	5	-			-	
	25	2		3	5	-			-	
	30	2		3	5	-			-	
	40	3		5	-			-		
	50	3		5	-			-		

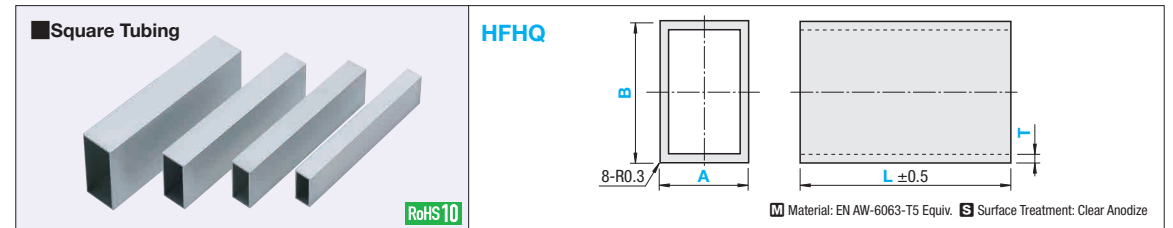
M Material: EN AW-6063-T5 Equiv. **S** Surface Treatment: Clear Anodize

 Ordering Example: **Part Number** - **T** - **L**
HFHF30 - **3** - **500**

A	Mass kg/m			Sectional Area mm ²			Cross Sectional Moment of Inertia/10 ⁶			Cross Sectional Moment of Inertia/10 ⁶		
	T			T			T			T		
	2	3	5	2	3	5	2	3	5	2	3	5
10	-	0.081	-	-	30	-	-	0.003	-	-	0.023	-
15	0.08	0.122	-	30	45	-	0.001	0.003	-	0.056	0.084	-
20	0.108	0.163	0.271	40	60	100	0.002	0.005	0.021	0.133	0.200	0.333
25	0.135	0.202	0.338	75	125	184	0.002	0.006	0.026	0.02	0.389	0.649
30	0.163	0.244	0.406	60	90	150	0.002	0.007	0.031	0.040	0.675	1.125
40	-	0.330	0.542	-	120	200	-	0.009	0.042	-	1.600	2.670
50	-	0.405	0.675	-	150	250	-	0.011	0.052	-	3.125	5.208

Alterations  Part Number - T - L - N - (YA...)
HFHF20 - 2 - 90 - N8 - YA20-YB55

Alterations																					
Spec.	Adds through holes on the extrusion. N is a nominal diameter.		Hole Machining Details N (Through Hole) 		Ordering Code N (Select from the table) Extrusion Plane/section Plane Hole machining on this plane (in the order of A, B and Q) Distance from the End (1mm Increment) N6 Y A 20-YB55		Specifications of Hole Size and Position (Ex.) 		Machining Plane/section Plane 												
	Face of Extrusion	N (Selection)																			
	Y	3 4 5 6 8																			
	⦿ 5+N/2 is needed from an end. ⦿ Only 1 dia. is selectable for N. ⦿ When A=10, only N3, N4 and N5 are available. ⦿ One face has up to five holes.																				
	 Scale mm/0.1 3 4 5 6 8 d 3.5 4.5 5.5 6.5 9												 Plane Y B/2  ⌀6.5  N  W20 ØB55 90								



Part Number			T	L	Mass	Sectional Area	Cross Sectional Moment of Inertia	Unit Price	Unit Price/m	
Type	A	B								1mm Increment
HFHQ (Square Tubing)	15	15	1.5	50-2000	0.220	81	0.249			
	20	20			0.342	125	0.454	1.406		
	25	25			0.390	144	0.787	0.787		
	30	30			0.607	224	1.437	4.445		
	25	25	2		0.497	184	1.634	1.634		
	30	30			0.766	284	2.96	9.007		
	40	40			0.607	224	2.941	2.941		
	50	50			0.934	344	5.297	15.94		
	40	40	0.824		304	7.336	7.336			
	50	50	1.257		464	13.11	38.97			
	60	60	1.036		384	14.77	14.77			

M Material: EN AW-6063-T5 Equiv. **S** Surface Treatment: Clear Anodize

 Ordering Example **Part Number** - **T** - **L**
HFHQ3030 - **2** - **500**

Alterations  Part Number - T - L - N - (XA,...YA,...ZA,...QA,...)
HFHQ2040 - 2 - 90 - N8 - YA60-ZA20-QA45

Alterations	Through Hole			
Spec.	Adds through holes on the extrusion. N is a nominal diameter.			
	Face of Extrusion	N (Selection)		
	X	3 4 5 6 8		
	Y			
	Z			
	Q			
	⑤ 5+N/2 is needed from the end. ⑥ Only 1 dia. is selectable for N. ⑦ When A and B dimensions are 15, only N3, 4 and 5 can be selected. ⑧ One face has up to five holes.			
	Hole Machining Details Ordering Code Specifications of Hole Size and Position (Ex) N (Select from the table) Extrusion Plane Hole machining on this plane (in the order of A, B and C) Distance from the End (1mm Increment) N6 YA 60 Z A 20 Q A 45 Machining Planeing Plane			